North Fork Coeur d'Alene River Preliminary Assessment and Site Inspection

Shoshone and Kootenai Counties



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and
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Abbreviations, Acronyms, and Symbols

Alta	Alta Science & Engineering, Inc.
DEQ	Idaho Department of Environmental Quality
EPA	United States Environmental Protection Agency
IDFG	Idaho Department of Fish and Game
IDL	Idaho Department of Lands
IGS	Idaho Geological Survey
kg	kilogram
L	liter
lb	pound
MCL	maximum contaminant level
mg	milligram
oz	ounce
PA	preliminary assessment
PWS	public water system
QAPP	quality assurance project plan
QA	quality assurance
QC	quality control
RSL	regional screening level
RV	recreational vehicle
SAP	sampling and analysis plan
SI	site inspection
SVL	SVL Analytical, Inc.
TAL	target analyte list
TDL	target distance limit
tpd	ton per day
USFS	United States Forest Service
USFWS	United States Fish and Wildlife Service

1 Introduction

This report presents preliminary assessment and site inspection (PA/SI) results for the North Fork Coeur d'Alene River in Shoshone and Kootenai Counties, Idaho. Under a cooperative agreement with the US Environmental Protection Agency, Region 10 (EPA), the Idaho Department of Environmental Quality (DEQ) provides technical support for performing the PA/SI process at various mine and industrial sites located on private, state, or mixed ownership (public and private) lands. Additional information about DEQ's PA program is found at *http://www.deq.idaho.gov/preliminary-assessments*.

DEQ initiated the PA program in February 2002 to prioritize and assess potentially contaminated sites. Due to accessibility and funding considerations, priority is given to sites where potential contamination poses the most substantial threat to human health or the environment. Recently, DEQ focused efforts in areas where residential and recreational developments are encroaching on historic mining districts. Priority is also given to mining districts where groups or clusters of sites can be cost-effectively assessed on a watershed basis.

This PA/SI assesses the threat posed to human health and the environment and determines the need for additional investigation. The information collected during this PA/SI will be used to prioritize and focus any future investigations on potential specific source locations within the North Fork Coeur d'Alene River drainage.

2 Site Background

The North Fork Coeur d'Alene River and its tributaries are located in the upper Coeur d'Alene subbasin (hydrologic unit code 17010301) in Shoshone and Kootenai Counties (Figure 1). A portion of the Coeur d'Alene mining district falls within this subbasin. The North Fork Coeur d'Alene River is accessed by the Coeur d'Alene River Road (US Forest Service [USFS] Highway 9). The junction of the Coeur d'Alene River Road and Interstate 90 (I-90) is about 2.5 miles west of Pinehurst. Most of the area is within the Idaho Panhandle National Forest.

2.1 Site Location

Site Name:	North Fork Coeur d'Alene River
Location:	Located along Coeur d'Alene River Road (USFS Highway 9) accessed from I-90 Kingston exit.
County:	Shoshone and Kootenai
Latitude/Longitude:	47°39'23.17"N, 115°58'34.80"W

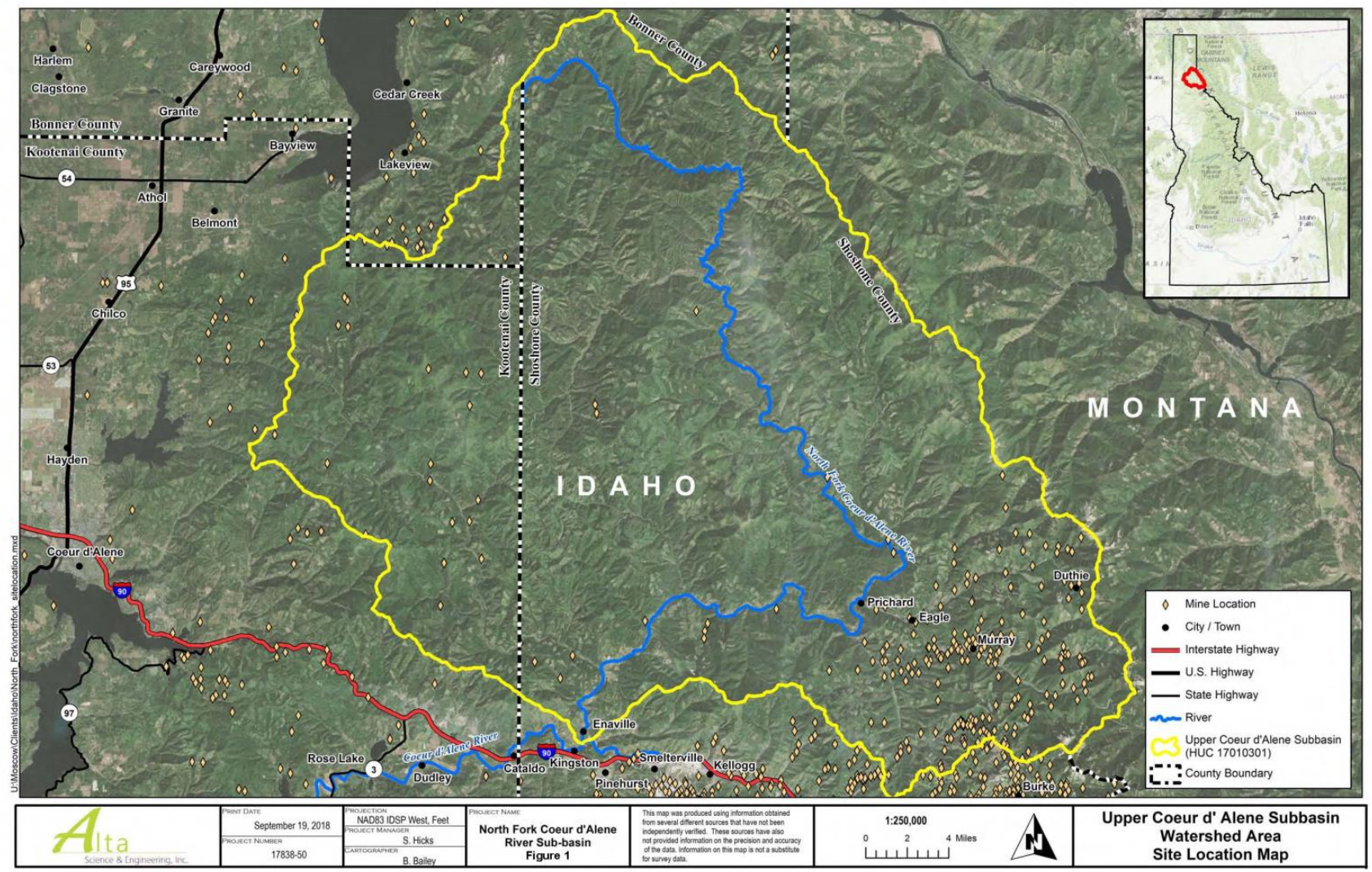


Figure 1. Site location map.

2.2 Site Description

The Idaho Geological Survey (IGS) lists 221 mines and prospects within the North Fork Coeur d'Alene River drainage (IGS 2018). The greatest concentrations of mine sites are located on the major North Fork Coeur d'Alene River tributaries of Prichard and Beaver Creeks and their respective tributaries. The North Fork Coeur d'Alene River and its tributaries are located in forested, mountainous terrain with elevations ranging from approximately 2,200 to 6,800 feet. The watershed is managed for timber production, mining, recreation, drinking water supply, and various urban and residential uses (UI et al. 2011).

2.3 Ownership History

Ownership of property along the North Fork Coeur d'Alene River is a mix of private, state, and federal lands (Figure 2). No private property was accessed during this site investigation.

2.4 Climatology

Climate information is summarized for Kellogg, Idaho (Station 104831) by the Western Regional Climate Center (WRCC 2019). Based on data collected from 1905 to 2005, total annual precipitation averages 30.83 inches with a total annual snowfall average of 53.9 inches. The driest months are July and August. The average annual high temperature is 59.1°F, and the average annual low temperature is 34.9°F. July is the hottest month with an average high temperature of 85.2°F. January is the coldest month with an average low temperature of 20.4°F.

2.5 Operations and Waste Characteristics

The geology and history of past mining activities help in understanding levels of production, commodities, and potential waste types at the site. This information documents the importance of historic mining districts and operations when reevaluated from an economics, multiple land use, human health risks, and ecological risks perspective. Historical research identifies the potential contaminants of concern, estimates the magnitude of waste at the site, locates potentially dangerous physical hazards such as open adits and shafts, and identifies historical land uses that coincide with mining. Numerous sources were researched before visiting the site and conducting the PA/SI.

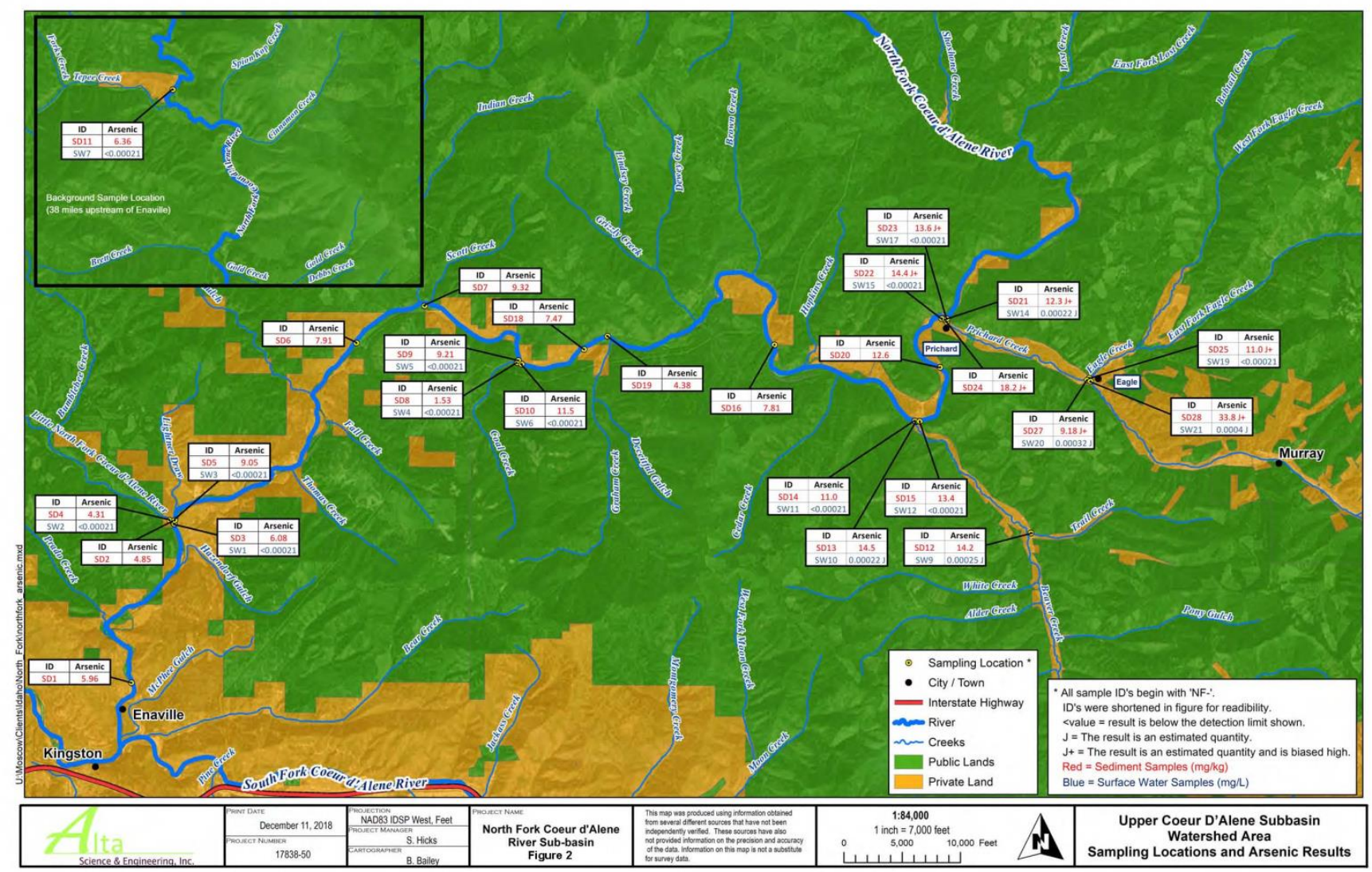


Figure 2. Sample locations and arsenic results.

2.5.1 Historical Site Operations

Table 1 summarizes the commodities and production for primary mining operations identified in the project area (IGS 2018).

Table 1. Mine operation commodities and production (IGS 2018).

Mine	Commodities (Production)
Crystal Lead Mine (alias: Lead Crystals Mining Co.)	Copper (10,001–50,000 pounds [lb]), gold (0–50 ounces [oz]) , lead (500,001–2,000,000 lb), silver (10,001–50,000 oz), zinc (100,001–500,000 lb)
Consolidated Silver-Lead (alias: Elk Group; US Silver Lead Mine)	Lead, silver, zinc
Jack Waite Mine	Copper (50,001–100,000 lb), gold (101–500 oz), lead (8,000,001–10,000,000 lb), silver (10,001–50,000 oz), zinc (500,001–2,000,000 lb)
Currency (alias: Gray Eagle Prospect; Grey Eagle; Old Grey Eagle)	Copper, lead, zinc
Edith Murray (alias: Golconda Group; Johnson Property; Midland; Pontiac; Sonnemann; South Mountain Mine; Terrible Edith; Texas Claim)	Copper (1,001–5,000 lb), gold (0–50 oz), lead (500,001–2,000,000 lb), silver (5,001–10,000 oz), tungsten, zinc (500,001–2,000,000 lb)
Pilot Mine	Copper, gold, lead, silver, zinc
Gold Back Consolidated (alias: Gold Back Prospect)	Copper, gold, lead, silver, zinc
King Mine	Copper, gold, lead, and tungsten
Lost Cabin Mine (alias: Silver Scott Mine)	Copper, gold, lead, silver, and zinc
Achievement (alias: Crown Point; Flagstaff; Four Square Mine; Friday; Golden Winnie; Lucky Winnie)	Copper, gold, lead, silver, tungsten, zinc
Dora (alias: Golden Chest; Golden Chest-Keenan Property; Idaho; Katie Burnett; Katie-Dora; Klondike; Paymaster)	Antimony, copper (10,001–50,000 lb), gold (10,001–50,000 oz), lead (50,001–100,000 lb), silver (5,001–10,000 oz), tungsten, zinc (501–1,000 lb)
Oro-Fino (alias: Orofino Mine; Silver Crystal Mine)	Copper (5,001–10,000 lb), gold (0–50 oz), lead (500,001–2,000,000 lb), silver (5,001–10,000 oz), zinc (100,001–500,000 lb)
Daddy (alias: Meade; Mother Lode Mine; Occident; Patricia; Treasure; Treasure Box; Yosemite)	Arsenic, copper (1,001–5,000 lb), gold (51–100 oz), lead (1,001–5,000 lb), silver (51–100 oz), tungsten, zinc
Bear Top Mine (alias: Keibler Vein)	Lead, silver
Silver Crystal Mine (alias: Ione Mine)	Lead, silver, zinc
Paragon Mine (alias: Upper Paragon)	Lead, zinc
Black Horse (alias: Murray Hill Mine; Senator)	Copper (51–100 lb), gold (0–50 oz), lead (100,001–500,000 lb), silver (1,001–5,000 oz), zinc (500,001–2,000,000 lb)
Midnight Group (alias: Raven Group)	Gold, lead, silver
Chicago-London Mine (alias: Lower Paragon; Paragon Consolidated)	Lead, zinc
Monarch	Copper, lead, zinc

Mine	Commodities (Production)
Vendetta (alias: Vendetta Chief Mine)	Copper, gold, lead, silver
Giant Ledge Mine	Copper, lead
Barton (alias: Coeur d'Alene; Coeur d'Alene North Fork; Monarch Mine; North Fork; Silverado)	Copper, gold (0–50 oz), lead (6,000,001–8,000,000 lb), silver (50,001–100,000 oz), zinc (100,001–500,000 lb)
Cedar Creek Mine (alias: Rako; Silver Strike Mine)	Copper (5,001–10,000 lb), gold (0–50 oz), lead (500,001–2,000,000 lb), silver (10,001–50,000 oz), zinc (1,001–5,000 lb)
Admiral Consolidated (alias: Sun Rise; Sunrise Prospect)	Copper, lead, silver, zinc
Admiral Consolidated (alias: National Uranium; St. James Prospect)	Lead, silver, zinc
Admiral Consolidated (alias: Washington Mining Co. Prospect)	Lead, silver, zinc
Silver Strand	Copper (50,001–100,000 lb), gold (1,001–5,000 oz), lead (10,001–50,000 lb), silver (100,001–500,000 oz), zinc (1,001–5,000 lb)
Empire Copper Mine (alias: Horse Powell Mine; Linfor Copper)	Copper, gold
Fay Templeton (alias: Kennam Property; Old Fay Templeton; Pony Creek Lease; Pony Gulch; Roberts)	Copper (101–500 lb), gold (101–500 oz), lead (1,001-5,000 lb), silver (101–500 oz), tungsten
Carlisle Mine (alias: Monitor Mine; Ray Jefferson Mine)	Lead, silver, zinc
16 to 1 (alias: Rex; Delaware Mines Corp.; Red Monarch Mine)	Lead, silver, zinc
Blue Sky (alias: Silver Star)	Lead, silver, zinc

Notes: oz = ounce, lb = pound

A number of mills are known to have operated in the North Fork Coeur d'Alene River watershed and are summarized in Table 2 (Bennett and Mitchell 1998; Kauffman, Bennett, and Mitchell 2003a; Kauffman, Bennett, and Mitchell 2003b).

Table 2. Historic mill operations in the North Fork Coeur d' Alene River watershed.

Mill	Type	Environmental Concern[a]
Jack Waite	500 tons per day (tpd) flotation plant	Four tailings piles in or adjacent to Tributary Creek (Prichard Creek drainage)
Monarch	Gravity plant producing jig tailings	Tailings in or adjacent to Prichard Creek
Paragon-Black Horse	Jig tailings	Tailings adjacent to Paragon Gulch (Prichard Creek drainage)
Bear Top-Orofino	Gravity mill	Tailings eroded by Bear Gulch Creek (Prichard Creek drainage)
Silver Strike	Flotation tailings	Tailings in stream in Granite Gulch (Prichard Creek drainage)
Mother Load	Stamp mill	Tailings impinge on Prichard Creek
Golden Chest	No information available	No information available
Four Square	No information available	No information available
Giant Ledge	75-tpd mill	No tailings present
Accident Gulch (King Mine)	10-stamp mill	No information available
Mountain Lion Mine	3-stamp mill	No tailings present
Buckeye Boy Mine	2-stamp mill	No tailings present
Carlisle Mine	Jig plant and 400-tpd flotation	Three tailings impoundments present at the site
Pony Gulch	5-stamp water-powered mill	Small pile of tailings present at the site
Empire Copper Mine	Mill present	No tailings observed on site

a. Remedial actions have been completed at some of the above-listed mill sites.

2.5.2 Sources

Based on previous site investigations, potential sources of contamination in the North Fork Coeur d'Alene River watershed include waste piles, tailings piles, and adit discharge. The North Fork Coeur d'Alene River watershed contains numerous historic mines; however, not all specific sources in the drainage have been identified or fully assessed. This PA/SI identifies areas within the North Fork Coeur d'Alene River drainage where historic mining activity may be impacting sediment and water quality. The information collected during this PA/SI will help prioritize and focus any future investigations on potential specific source locations within the drainage.

Contaminants of concern are metals associated with historical mining activities, primarily arsenic, lead, and zinc.

2.6 Previous Investigations

The USFS and IGS completed site investigations of abandoned and inactive mines on USFS lands in Idaho. Their findings cover sites in the Panhandle National Forest including the North Fork Coeur d'Alene River watershed:

- *Site Inspection Report for the Abandoned and Inactive Mines in Idaho on U.S. Forest Service Lands (Region 1), Idaho Panhandle National Forest, Volume I: Prichard Creek and Eagle Creek Drainages* (Bennett and Mitchell 1998) describes 29 properties in the Prichard and Eagle Creek drainages with the most significant environmental problems.

- *Site Inspection Report for the Abandoned and Inactive Mines in Idaho on U.S. Forest Service Lands (Region 1), Idaho Panhandle National Forest: Volume III: Coeur d'Alene Mining District (Excluding the Prichard Creek and Eagle Creek Drainages), Major Properties* (Kauffman et al. 2003a) discusses the following properties: Blue Sky, Carlisle Mine, Pony Gulch, Red Monarch Mine, Silver Strand, and Empire Copper Mine.
- *Site Inspection Report for the Abandoned and Inactive Mines in Idaho on U.S. Forest Service Lands (Region 1), Idaho Panhandle National Forest: Volume IV: Prichard Creek and Eagle Creek Drainages, Secondary Properties* (Kauffman et al. 2003b) describes 45 mines in the Prichard and Eagle Creek drainages.
- *Site Inspection Report for the Abandoned and Inactive Mines in Idaho on U.S. Forest Service Lands (Region 1), Idaho Panhandle National Forest: Volume V (Section A): Coeur d'Alene River Drainage Surrounding the Coeur d'Alene Mining District* (Kauffman et al. 2003c) discusses the following properties: North Fork Mine, Flagstaff Staff, and Burnt Cabin Prospect.
- *Site Inspection Report for the Abandoned and Inactive Mines in Idaho on U.S. Forest Service Lands (Region 1), Idaho Panhandle National Forest: Volume V (Section B): Coeur d'Alene River Drainage Surrounding the Coeur d'Alene Mining District* (Kauffman et al. 2003d) discusses the following properties: California Gulch Prospect, Rooster Goose Mine, Belmont-Banner, Highlands Aurora Property, Dudley Group, Dobson Pass Prospect, and Rainbow No. 2 Prospect.
- *Site Inspection Report for the Abandoned and Inactive Mines in Idaho on U.S. Forest Service Lands (Region 1), Idaho Panhandle National Forest: Volume V (Section C): Coeur d'Alene River Drainage Surrounding the Coeur d'Alene Mining District* (Kauffman et al. 2003e) discusses the following properties: McGillivray Prospect, Lost Stand, Tom Levin Creek Prospect, Hamburg-American Prospect, and Rock City Mine.
- *Site Inspection Report for the Abandoned and Inactive Mines in Idaho on U.S. Forest Service Lands (Region 1), Idaho Panhandle National Forest: Volume V (Section D): Coeur d'Alene River Drainage Surrounding the Coeur d'Alene Mining District* (Kauffman et al. 2003f) discusses the following property: Unnamed Prospect (K07239701).

2.7 2018 Site Investigation Activities

Under contract with DEQ, Alta Science & Engineering, Inc. (Alta) collected samples from the North Fork Coeur d'Alene River on October 29–31, 2018. Sample collection information, field parameters, stream discharge, and analytical results are presented in this section.

Sampling and laboratory analysis was conducted according to the *North Fork Coeur d'Alene River Preliminary Assessment and Site Investigation (PA/SI) Sampling and Analysis Plan (SAP)/Quality Assurance Project Plan (QAPP)* (Alta 2018a). All samples were collected, handled, and stored according to the SAP/QAPP. Surface water samples and sediment samples were submitted to SVL Analytical, Inc. (SVL) laboratory for analysis.

Site photographs are included in Appendix A. Laboratory data reports are included in Appendix B. Discussion of quality assurance/quality control (QA/QC) samples is presented in the *QA/QC*

Review of the 2018 North Fork Coeur d'Alene River Preliminary Assessment and Site Investigation Sampling memorandum (Alta 2018b) (Appendix C).

2.7.1 Sediment Sampling

Sediment samples were collected from a depth of 0 to 6 inches using dedicated plastic scoops. Collected material was placed into 8-ounce glass jars. Material such as rocks and vegetation was removed during homogenization. Duplicate samples were collected as part of the QA/QC requirements; no rinsate blanks were collected because dedicated sampling equipment was used. Samples were delivered by Alta personnel to SVL for analysis of the total target analyte list (TAL) metals (aluminum, antimony, arsenic, barium, beryllium, cadmium, calcium, chromium, cobalt, copper, iron, lead, magnesium, manganese, mercury, nickel, selenium, silver, thallium, vanadium, and zinc) by EPA methods 6010B/D and 7471B (EPA 1996, 2018, and 1998).

A total of 26 sediment samples (excluding QA/QC samples) were collected: 9 samples from dry recreation and public river access sites below the high-water mark, and 17 samples (collocated with surface water samples) from both upstream/background and downstream tributaries at historical mining activity locations (Figure 2). Sediment sample location descriptions and laboratory analytical results are presented in Table 3.

2.7.2 Surface Water Sampling

Surface water samples were collected using the dip sampling method from the "Techniques of Water-Resources Investigations (TWRI), Book 9, Chapter A4, Collection of Water Samples" (USGS 2006) and described in the project SAP/QAPP (Alta 2018a). QA/QC samples included duplicates, field blanks, and rinsate blanks. Samples were delivered to SVL for analysis of total TAL metals by EPA method 6010B/D or 6020B and 7470A (EPA 1996, 2018, 2014, and 1994).

A total of 17 surface water samples (excluding QA/QC samples) were collected from tributaries at historical mining activity locations, upstream/background locations, and locations immediately downstream from tributary confluences (Figure 2). Surface water sample location descriptions, laboratory analytical results, and water quality parameters are presented in Table 4.

3 Migration/Exposure Pathways

This section discusses the 2018 PA/SI field observations, surface water and sediment sampling results, surface water migration pathway, and soil exposure pathway. In addition, public drinking water systems identified within the North Fork Coeur d'Alene River drainage, human food chain targets, and environmental targets are described.

3.1 Surface Water Migration Pathway

Not all specific sources have been identified in the project area, so it is not possible to calculate a 15-mile target distance limit (TDL) from the probable point of entry of surface water runoff from sites. This PA/SI gathered surface water data from the North Fork Coeur d'Alene River tributaries and drainages to focus on future work to identify specific sources and TDLs.

Table 3. Sediment sample analytical results.

Location Description	Sample ID	Date	Analyte (mg/kg)																			
			Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	Se	Ag	Tl	V	Zn
North Fork Coeur d'Alene River																							
Upstream																							
Background	NF-SD11	10/29/2018	11,800	0.722	6.36	79.7	0.62	<0.24	891	12.2	10.9	6.46	23,400	5.1	9,910	402 *J-*	<0.040	15.8	<4.9	<0.61	<0.100	9.20	35.8
Upstream of confluence with Prichard Creek	NF-SD23	10/30/2018	7,630	1.07 *J-*	13.6 *J+*	72.8 *J+*	0.38	0.57	730	7.23	5.51	**29.2**	16,700	**236**	3,660 *J+*	285 *J+*	<0.044	9.86	<5.3	<0.67	<0.100	9.15	**178 *J+***
Upstream of confluence with Beaver Creek	NF-SD15	10/30/2018	7,390	0.895	13.4	57.0	0.38	0.59	988	8.32	6.45	**26.3**	18,100	**130**	3,300	161 *J-*	<0.046	9.24	<5.5	<0.69	<0.100	9.43	**182**
Upstream of confluence with Coal Creek	NF-SD10	10/29/2018	9,210	1.46	11.5	119	0.43	0.73	4,430	18.7	13.5	**46.0**	24,000	**154**	3,570	778 *J-*	0.057	9.87	<5.2	<0.65	<0.100	12.6	**382**
Upstream of confluence with Little North Fork Coeur d' Alene River	NF-SD5	10/29/2018	8,150	0.574	9.05	80.8	0.43	0.64	1,310	8.97	6.09	16.3	16,100	**92.1**	3,680	320 *J-*	<0.045	9.81	<5.5	<0.69	<0.100	9.75	**156**
Tributaries																							
Prichard Creek upstream of confluence with North Fork Coeur d' Alene River	NF-SD21	10/30/2018	5,900	0.893 *J-*	12.3 *J+*	61.6 *J+*	0.41	0.52	518	6.81	6.62	**23.0**	26,200	**154**	2,600 *J+*	350 *J+*	<0.035	8.75	<4.2	<0.53	<0.100	7.89	**197 *J+***
Beaver Creek upstream of confluence with North Fork Coeur d' Alene River	NF-SD13	10/30/2018	5,120	1.15	14.5	51.6	0.32	0.71	729	5.04	6.07	14.1	15,800	**82.9**	1,650	361 *J-*	<0.038	7.70	<4.6	<0.57	<0.100	7.27	**184**
Coal Creek upstream of confluence with North Fork Coeur d' Alene River	NF-SD8	10/29/2018	2,470	0.350	1.53	47.6	<0.22	<0.22	648	2.01	1.66	6.02	3,970	6.7	603	271 *J-*	<0.037	1.88	<4.5	<0.56	<0.100	2.88	15.0
Little North Fork Coeur d' Alene River upstream of confluence with North Fork Coeur d' Alene River	NF-SD4	10/29/2018	3,990	0.394	4.31	31.2	0.27	<0.22	452	4.83	2.63	6.87	9,660	5.0	2,010	157 *J-*	<0.036	3.67	<4.4	<0.55	<0.100	5.97	27.0
Downstream																							
Downstream of confluence with Prichard Creek	NF-SD22	10/30/2018	5,670	**2.77 *J-***	14.4 *J+*	54.7 *J+*	0.45	0.61	359	7.40	6.65	**24.6**	27,700	**194**	2,410 *J+*	486 *J+*	<0.040	11.2	<4.9	<0.61	<0.100	9.76	**190 *J+***
Downstream of confluence with Beaver Creek	NF-SD14	10/30/2018	4,840	1.91	11.0	47.0	0.35	0.62	522	5.02	6.03	13.6	19,500	**70.1**	1,600	372 *J-*	<0.036	7.76	<4.4	<0.54	<0.100	7.78	**190**
Downstream of confluence with Coal Creek	NF-SD9	10/29/2018	7,240	1.05	9.21	81.9	0.35	0.31	1,540	8.77	8.09	**20.1**	16,500	**68.4**	3,020	455 *J-*	<0.044	8.69	<5.3	<0.66	<0.100	9.61	**343**
Downstream of confluence with Little North Fork Coeur d' Alene River	NF-SD3	10/29/2018	6,330	0.641	6.08	33.0	0.36	<0.23	615	10.8	3.67	9.47	13,900	**17.3**	4,630	160 *J-*	<0.037	8.39	<4.5	<0.57	<0.100	11.4	46.6
Prichard Creek																							
Upstream																							
Upstream of confluence with Eagle Creek	NF-SD28	10/31/2018	7,370	0.938 *J-*	**33.8 *J+***	64.9 *J+*	0.46	0.63	708	7.50	9.59	**22.2**	23,700	**274**	2,870 *J+*	445 *J+*	<0.043	11.4	<5.2	<0.65	<0.100	11.6	**217 *J+***
Tributaries																							
Eagle Creek upstream of confluence with Prichard Creek	NF-SD25	10/31/2018	5,900	1.13 *J-*	11.0 *J+*	59.8 *J+*	0.47	0.68	403	6.49	6.09	**33.3**	25,100	**194**	2,420 *J+*	350 *J+*	<0.044	10.1	<5.4	<0.67	<0.100	8.16	**196 *J+***
Downstream																							
Downstream of confluence with Eagle Creek	NF-SD27	10/31/2018	7,200	1.78 *J-*	9.18 *J+*	62.1 *J+*	0.50	**0.84**	736	8.51	6.49	**32.6**	27,300	**204**	3,280 *J+*	343 *J+*	<0.038	10.9	<4.6	<0.58	<0.100	11.3	**232 *J+***
Beaver Creek																							
Tributaries																							
Trail Creek upstream of confluence with Beaver Creek	NF-SD12	10/30/2018	5,470	1.14	14.2	53.9	0.52	<0.23	943	5.28	6.37	**22.9**	33,400	**28.0**	1,670	364 *J-*	<0.038	12.0	<4.6	<0.58	<0.100	7.51	101
Recreation Sites																							
Beach access near RV park	NF-SD1	10/29/2018	5,890	0.900	5.96	68.9	0.27	0.25	1,630	8.92	8.31	19.2	14,500	**45.4**	3,100	331 *J-*	<0.040	7.19	<4.9	<0.61	<0.100	7.37	**382**
Beach access at Little North Fork Coeur d' Alene River Road bridge	NF-SD2	10/29/2018	6,060	0.573	4.85	57.4	0.37	<0.24	745	7.36	5.10	12.3	11,300	**20.1**	3,040	274 *J-*	<0.039	7.78	<4.8	<0.60	<0.100	8.50	65.5
IDL Spring Creek river access site	NF-SD6	10/29/2018	7,230	0.637	7.91	55.3	0.35	0.27	822	7.77	4.89	12.5	15,200	**64.0**	4,030	249 *J-*	<0.040	8.62	<4.8	<0.60	<0.100	8.42	80.7
IDFG Steamboat fishing pond	NF-SD7	10/29/2018	5,650	0.869	9.32	36.9	<0.22	<0.22	486	6.89	4.64	10.9	15,500	**35.9**	3,600	253 *J-*	<0.037	8.18	<4.5	<0.56	<0.100	6.73	54.9
USFS Graham Creek campground	NF-SD18	10/30/2018	9,840	0.713	7.47	90.9	0.50	<0.24	1,030	9.25	6.17	15.7	17,000	**44.8**	3,880	338 *J-*	<0.040	9.88	<4.9	<0.61	<0.100	11.1	68.6
Recreation Sites																							
USFS Graham Creek river access	NF-SD19	10/30/2018	3,240	0.391	4.38	40.3	<0.24	<0.24	577	3.58	3.66	6.26	10,200	**34.1**	1,060	295 *J-*	<0.039	3.75	<4.8	<0.60	<0.100	5.21	50.1
"The Rock" beach access	NF-SD16	10/30/2018	6,530	0.862	7.81	62.7	0.39	0.38	599	6.69	6.93	**36.1 *J***	28,600 *J*	**88.1**	3,410	268 *J-*	<0.033 *UJ*	13.6 *J*	<4.0	<0.50	<0.100	15.9 *J*	**129**
USFS Prichard Bridge day use area beach	NF-SD20	10/30/2018	7,160	1.04	12.6	51.8	0.37	0.33	483	8.76	6.12	18.7	23,400	**136**	4,040	347 *J-*	<0.035	11.1	<4.3	<0.54	<0.100	8.86	**146**
River access at mouth of Prichard Creek	NF-SD24	10/30/2018	6,940	0.867 *J-*	18.2 *J+*	71.2 *J+*	0.40	0.69	693	6.97	8.20	**26.2**	21,600	**205**	2,600 *J+*	444 *J+*	<0.037	10.2	<4.5	<0.56	0.127	10.2	**237 *J+***

Location Description	Sample ID	Date	Analyte (mg/kg)																			
			Al	**Sb**	**As**	**Ba**	**Be**	**Cd**	**Ca**	**Cr**	**Co**	**Cu**	**Fe**	**Pb**	**Mg**	**Mn**	**Hg**	**Ni**	**Se**	**Ag**	**Tl**	**V**	**Zn**
EPA RSL for Residential Soil[a] (mg/kg)			77,000	31	0.68	15,000	160	71	NA	NA	23	3,100	55,000	400	NA	1,800	11	820	390	390	0.78	390	23,000
EPA RSL for Industrial Soil[a] (mg/kg)			1,100,000	470	3	220,000	2,300	980	NA	NA	350	47,000	820,000	800	NA	26,000	46	11,000	5,800	5,800	12	5,800	350,000

Notes:
Gray shaded values exceed regional screening levels (RSLs) for residential soils.
Orange shaded values exceed RSLs for both residential and industrial soils.
Bold = Three times greater than background concentrations when comparing the sediment sample to the background value at NF-SD11. Where the background value is not detected, the limit of detection was used as the background value for calculation purposes.
[a]Based on a target hazard quotient of 1.0. *https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables* (November 2018)
mg/kg = milligram per kilogram
<value = result is below the detection limit shown
Al = aluminum, Sb = antimony, As = arsenic, Ba = barium, Be = beryllium, Cd = cadmium, Ca = calcium, Cr = chromium, Co = cobalt, Cu = copper, Fe = iron, Pb = lead, Mg = magnesium, Mn = manganese, Hg = mercury, Ni = nickel, Se = selenium, Ag = silver, Tl = thallium, V = vanadium, Zn = zinc
NA = not available
IDL = Idaho Department of Lands; IDFG = Idaho Department of Fish and Game; USFS = US Forest Service
J = The result is an estimated quantity.
J- = The result is an estimated quantity and is biased low.
J+ = The result is an estimated quantity and is biased high.
UJ = Concentration was not detected and is qualified as an estimate.

Table 4. Surface water sample analytical results.

Location	ID	Date	Analyte (mg/L)																					Parameter						
			Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	Se	Ag	Tl	V	Zn	Temp °C	pH (su)	ORP (mV)	SC (µS/cm)	Turbidity (NTU)	DO (mg/L)	Discharge (cfs)
North Fork of the Coeur d' Alene River																														
Upstream																														
Background	NF-SW7	10/29/18	<0.08	<0.00300	<0.00021	0.0247	<0.0020	<0.0020	6.07	<0.0060	<0.0060	<0.0100	<0.100	<0.0075	3.55	<0.0080	<0.00020	<0.0100	<0.040	<0.0050	<0.00100	<0.0050	<0.010	6.37	7.61	159.4	63.30	0.14	11.17	40.14
Upstream of conf. with Prichard Creek	NF-SW17	10/30/18	<0.08	<0.00300	<0.00021	0.0202	<0.0020	<0.0020	6.23	<0.0060	<0.0060	<0.0100	<0.100	<0.0075	2.88	<0.0080	<0.00020	<0.0100	<0.040	<0.0050	<0.00100	<0.0050	<0.010	7.10	7.63	132.9	61.47	0.16	11.55	174.94
Upstream of conf. with Beaver Creek	NF-SW12	10/30/18	<0.08	<0.00300	<0.00021	0.0207	<0.0020	<0.0020	6.00	<0.0060	<0.0060	<0.0100	<0.100	<0.0075	2.68	<0.0080	<0.00020	<0.0100	<0.040	<0.0050	<0.00100	<0.0050	<0.010	6.86	7.52	133.5	58.67	0.21	11.37	NA
Upstream of conf. with Coal Creek	NF-SW6	10/29/18	<0.08	<0.00300	<0.00021	0.0183	<0.0020	<0.0020	5.75	<0.0060	<0.0060	<0.0100	<0.100	<0.0075	2.41	<0.0080	<0.00020	<0.0100	<0.040	<0.0050	<0.00100	<0.0050	<0.010	7.65	7.49	154.8	55.25	0.08	11.18	NA
Upstream of conf. with Little North Fork Coeur d' Alene River	NF-SW3	10/29/18	<0.08	<0.00300	<0.00021	0.0196	<0.0020	<0.0020	5.74	<0.0060	<0.0060	<0.0100	<0.100	<0.0075	2.45	<0.0080	<0.00020	<0.0100	<0.040	<0.0050	<0.00100	<0.0050	0.010	7.95	7.13	182.2	54.48	0.53	10.62	NA
Tributaries																														
Prichard Creek upstream of conf. with North Fork Coeur d' Alene River	NF-SW14	10/30/18	<0.08	<0.00300	0.00022 *J*	0.0177	<0.0020	<0.0020	3.20	<0.0060	<0.0060	<0.0100	<0.100	<0.0075	1.11	<0.0080	<0.00020	<0.0100	<0.040	<0.0050	<0.00100	<0.0050	0.024	9.36	7.11	140.5	36.67	0.22	10.46	19.44
Beaver Creek upstream of conf. with North Fork Coeur d' Alene River	NF-SW10	10/30/18	<0.08	<0.00300	0.00022 *J*	0.0166	<0.0020	<0.0020	8.43	<0.0060	<0.0060	<0.0100	<0.100	<0.0075	3.03	<0.0080	<0.00020	<0.0100	<0.040	<0.0050	<0.00100	<0.0050	0.012	8.62	7.42	141.4	77.49	0.22	10.78	8.22
Coal Creek upstream of conf. with North Fork Coeur d' Alene River	NF-SW4	10/29/18	<0.08	<0.00300	<0.00021	0.0090	<0.0020	<0.0020	1.66	<0.0060	<0.0060	<0.0100	<0.100	<0.0075	<0.50	<0.0080	<0.00020	<0.0100	<0.040	<0.0050	<0.00100	<0.0050	<0.010	6.27	6.93	172.2	15.69	0.58	11.06	1.81
Little North Fork Coeur d' Alene River upstream of conf. with North Fork Coeur d' Alene River	NF-SW2	10/29/18	<0.08	<0.00300	<0.00021	0.0124	<0.0020	<0.0020	3.89	<0.0060	<0.0060	<0.0100	<0.100	<0.0075	1.44	<0.0080	<0.00020	<0.0100	<0.040	<0.0050	<0.00100	<0.0050	<0.010	8.82	6.83	173.2	38.25	0.10	10.18	74.49
Downstream																														
Downstream of conf. with Prichard Creek	NF-SW15	10/30/18	<0.08	<0.00300	<0.00021	0.0196	<0.0020	<0.0020	5.37	<0.0060	<0.0060	<0.0100	<0.100	<0.0075	2.31	<0.0080	<0.00020	<0.0100	<0.040	<0.0050	<0.00100	<0.0050	<0.010	8.53	7.20	132.3	46.62	0.30	10.80	NA
Downstream of conf. with Beaver Creek	NF-SW11	10/30/18	<0.08	<0.00300	<0.00021	0.0196	<0.0020	<0.0020	6.80	<0.0060	<0.0060	<0.0100	<0.100	<0.0075	2.81	<0.0080	<0.00020	<0.0100	<0.040	<0.0050	<0.00100	<0.0050	<0.010	7.67	7.44	133.2	66.94	0.12	11.04	NA
Downstream of conf. with Coal Creek	NF-SW5	10/29/18	<0.08	<0.00300	<0.00021	0.0175	<0.0020	<0.0020	5.40	<0.0060	<0.0060	<0.0100	<0.100	<0.0075	2.30	<0.0080	<0.00020	<0.0100	<0.040	<0.0050	<0.00100	<0.0050	<0.010	7.35	7.28	170.1	51.40	0.12	11.18	NA
Downstream of conf. with Little North Fork Coeur d' Alene River	NF-SW1	10/29/18	<0.08	<0.00300	<0.00021	0.0166	<0.0020	<0.0020	4.86	<0.0060	<0.0060	<0.0100	<0.100	<0.0075	1.98	<0.0080	<0.00020	<0.0100	<0.040	<0.0050	<0.00100	<0.0050	<0.010	9.11	6.62	188.7	41.09	0.17	9.73	NA

Location	ID	Date	Analyte (mg/L)																				Parameter						
			Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	Se	Ag	Tl	V	Zn	Temp °C	pH (su)	ORP (mV)	SC (µS/cm)	Turbidity (NTU)	DO (mg/L)	Discharge (cfs)
Prichard Creek																														
Upstream																														
Upstream of conf. with Eagle Creek	NF-SW21	10/31/18	<0.08	<0.00300	0.00040 J	0.0148	<0.0020	<0.0020	3.30	<0.0060	<0.0060	<0.0100	<0.100	<0.0075	1.14	<0.0080	<0.00020	<0.0100	<0.040	<0.0050	<0.00100	<0.0050	0.028	8.37	6.65	141.5	39.77	0.19	10.02	18.74
Tributaries																														
Eagle Creek upstream of conf. with Prichard Creek	NF-SW19	10/31/18	<0.08	<0.00300	<0.00021	0.0279	<0.0020	<0.0020	4.67	<0.0060	<0.0060	<0.0100	0.104	<0.0075	1.69	<0.0080	<0.00020	<0.0100	<0.040	<0.0050	<0.00100	<0.0050	0.028	8.73	6.39	99.4	47.78	0.08	10.27	7.35
Downstream																														
Downstream of conf. with Eagle Creek	NF-SW20	10/31/18	<0.08	<0.00300	0.00032 J	0.0193	<0.0020	<0.0020	3.73	<0.0060	<0.0060	<0.0100	<0.100	<0.0075	1.32	<0.0080	<0.00020	<0.0100	<0.040	<0.0050	<0.00100	<0.0050	0.027	8.46	6.79					
Beaver Creek																														
Tributaries																														
Trail Creek upstream of conf. with Beaver Creek	NF-SW9	10/30/18	<0.08	<0.00300	0.00025 J	0.0256	<0.0020	<0.0020	17.5	<0.0060	<0.0060	<0.0100	<0.100	<0.0075	6.84	<0.0080	<0.00050	<0.0100	<0.040	<0.0050	<0.00100	<0.0050	<0.010	7.81	7.33	191.8	151.73	0.07	10.48	0.16
EPA: Drinking Water Standard MCL			NA	0.006	0.01	2	0.004	0.005	NA	0.1	NA	1.3	NA	0.015	NA	NA	0.002	NA	0.05	NA	0.002	NA	NA	NA	6.5–8.5[a]	NA	NA	NA	NA	NA
EPA: RSL for Tap water			20	0.0078	0.000052	3.8	0.025	0.0092	NA	NA	0.006	0.8	14	0.015	NA	0.43	0.00063	0.22	0.1	0.094	0.0002	0.086	6	NA	NA	NA	NA	NA	NA	NA

Notes:
Shaded values exceed at least one standard and/or RSL.
MCL = maximum contaminant level; RSL = regional screening level. Based on a target hazard quotient of 1.0. *https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables* (November 2018).
[a]Secondary Standard MCL—nonenforceable guideline.
conf.= confluence
Al = aluminum, Sb = antimony, As = arsenic, Ba = barium, Be = beryllium, Cd = cadmium, Ca = calcium, Cr = chromium, Co = cobalt, Cu = copper, Fe = iron, Pb = lead, Mg = magnesium, Mn = manganese, Hg = mercury, Ni = nickel, Se = selenium, Ag = silver, Tl = thallium, V = vanadium, Zn = zinc
mg/L = milligram per liter, su = standard unit, mV = millivolt, µS/cm = microsiemens per centimeter, NTU = nephelometric turbidity unit, °C = degrees Celsius, ppm = parts per million
NA = not available , ORP = oxidation-reduction potential; SC = specific conductivity; DO = dissolved oxygen; cfs = cubic feet per second
<value = result is below the detection limit shown
J = The result is an estimated quantity.

3.1.1 Overland Route and Target Distance Limit

Waste sources in the North Fork Coeur d'Alene River drainage are located in mountainous terrain. The areas with the greatest densities of historic mining sites are on Prichard Creek and Beaver Creek (both tributaries to the North Fork) and the tributaries to both of these creeks. Lesser concentrated clusters of historic mining sites are located on the Little North Fork Coeur d'Alene River and smaller tributaries to the North Fork.

Surface water and collocated sediment samples were collected from instream locations on tributaries with historical mining activity, locations upstream and downstream of tributaries, and one background location (Figure 2, Table 3, and Table 4).

Tributary Locations

Sediment and collocated surface water samples were collected from tributaries at six historic mining sites. Tributary samples were collected just upstream of the confluences.

- Tributaries to North Fork Coeur d'Alene River
  - One sample on Little North Fork Coeur d'Alene River
  - One sample on Coal Creek
  - One sample on Beaver Creek
  - One sample on Prichard Creek
- Tributary to Prichard Creek
  - One sample on Eagle Creek
- Tributary to Beaver Creek
  - One sample on Trail Creek

Upstream Locations

Sediment and collocated surface water samples were collected from five locations upstream of tributaries with potential historic mining impacts to establish background values for the receiving creeks and rivers.

- North Fork Coeur d'Alene River
  - One sample upstream of Little North Fork Coeur d'Alene River
  - One sample upstream of Coal Creek
  - One sample upstream of Beaver Creek
  - One sample upstream of Prichard Creek
- Prichard Creek
  - One sample upstream of Eagle Creek

Samples were not collected on Beaver Creek upstream of Trail Creek because access to the site was across private property.

Downstream Locations

Surface water and collocated sediment samples were collected from five locations downstream of tributaries with upstream source areas and evaluated for potential sediment impacts from historical mining practices in the watershed.

- North Fork Coeur d'Alene River
  - One sample downstream of Little North Fork Coeur d'Alene River
  - One sample downstream of Coal Creek
  - One sample downstream of Beaver Creek
  - One sample downstream of Prichard Creek
- Prichard Creek
  - One sample downstream of Eagle Creek

Samples were not collected on Beaver Creek downstream of Trail Creek because access to the site was across private property.

Background Location

An upstream, background location on the North Fork Coeur d'Alene River is expected to be uninfluenced or unaffected by historical mining practices. The collocated sediment and surface water sample results from this location serve as background for the watershed.

Sediment samples are compared to EPA regional screening levels (RSLs) for residential and industrial soils. Surface water samples are compared to EPA maximum contaminant levels (MCLs) for drinking water and RSLs for tap water. Results are also compared to upstream and background sample results. Results for the North Fork Coeur d'Alene River and tributaries are discussed below. Sediment sample results are shown in Table 3, surface water results are shown in Table 4, and arsenic results are presented on Figure 2.

3.1.1.1 North Fork Coeur d'Alene River

Sediment Sample Results

Arsenic concentrations in sediment exceed the RSLs for both residential soils (0.68 milligram per kilogram [mg/kg]) and industrial soils (3 mg/kg) at all sample locations on the North Fork Coeur d'Alene River and tributaries, except for Coal Creek, which only exceeds the RSL for residential soils (Table 3). The sediment sample result for arsenic in the background location for North Fork Coeur d'Alene River (NF-SD11) is 6.36 mg/kg, which is lower than three of the four downstream sample locations but higher than the furthest downstream North Fork sample below the Little North Fork Coeur d'Alene River. The background sample location for North Fork Coeur d'Alene River is located approximately 38 miles upstream of Enaville at the bridge at the end of USFS Highway 9 and the beginning of Teepee Creek Road.

At four tributary junctions with the North Fork Coeur d'Alene River, samples were collected upstream and downstream of each tributary confluence. Comparisons of the downstream sample to the upstream sample at each tributary show a slight increase in arsenic concentrations downstream of Prichard Creek (13.6 mg/kg upstream compared to 14.4 mg/kg downstream). All other arsenic concentrations in the downstream samples were lower than the respective upstream samples.

Although no other metals concentrations in sediment exceed EPA RSLs, some metals concentrations are greater than three times the background concentration when compared to the background sample. Elevated metals include copper, lead, and zinc.

Surface Water Sample Results

Although arsenic was detected in surface water samples from Prichard and Beaver Creeks, no arsenic was detected in North Fork Coeur d'Alene River surface water samples.

3.1.1.2 Prichard Creek

Sediment Sample Results

Arsenic concentrations in sediment exceed the RSLs for residential and industrial soils for all three Prichard Creek samples (Table 3). Arsenic values in sediment range from 33.8 mg/kg in the upstream-most sample to 9.18 mg/kg below the confluence with Eagle Creek. The sediment sample from Eagle Creek, a tributary to Prichard Creek, has an arsenic concentration of 11.0 mg/kg, which is above the RSLs for residential and industrial soils.

Other metals concentrations in sediment from the Prichard Creek drainage greater than three times the background sample include cadmium, copper, lead, and zinc. Although these metals are elevated compared to the background sample, the concentrations do not exceed EPA RSLs.

Surface Water Sample Results

Arsenic was detected in all Prichard Creek surface water samples at concentrations exceeding the EPA RSL for tap water (0.000052 mg/L) (Table 4). Arsenic concentrations in surface water samples from Prichard Creek range from 0.00022 mg/L to 0.0004 mg/L, with the highest concentrations located farthest upstream and decreasing downstream. Arsenic was not detected in surface water collected from Eagle Creek, a tributary to Prichard Creek.

3.1.1.3 Beaver Creek

Sediment Sample Results

Both sediment samples from the Beaver Creek drainage are above the EPA RSLs for residential and industrial soils (Table 3). The sediment sample collected on Beaver Creek just above its confluence with the North Fork Coeur d'Alene River has an arsenic concentration of 14.5 mg/kg. The sediment sample from Trail Creek, a tributary to Beaver Creek, has an arsenic concentration of 14.2 mg/kg.

Copper, lead, and zinc are greater than three times the background sample for some sediment samples from the Beaver Creek drainage, but the concentrations do not exceed EPA RSLs.

Surface Water Sample Results

Arsenic was detected in Beaver Creek and Trail Creek surface water samples at concentrations exceeding the EPA RSL for tap water (Table 4). Due to limited creek access across private property, the number of samples collected were insufficient to observe arsenic concentration trends in surface water for the Beaver Creek drainage.

3.2 Drinking Water Targets

One public water system (PWS) uses a surface water source within the North Fork Coeur d'Alene River drainage. A surface water intake (E0006894) for the Murray Water Association (PWS #ID1400039) is located on Alder Creek north of the town of Murray, Idaho. The source water delineation showing the area of contribution to this intake is depicted on Figure 3. This PWS serves approximately 35 people through 32 connections (DEQ 2018).

In addition to the one surface water source, the ground water well (E0006839) for the Central Shoshone County Water District (PWS #ID1400089), located at the confluence of the North Fork and South Fork Coeur d'Alene River, is considered under the direct influence of surface water. Figure 4 depicts the source water delineation area of contribution to this intake. This PWS serves approximately 5,868 people through 2,631 connections (DEQ 2018).

Surface water quality upstream of the PWS intake for the Murray Water Association was not evaluated during this PA/SI. The North Fork Coeur d'Alene River surface water sample downstream of the Little North Fork Coeur d'Alene River (NF-SW1) is approximately 3.5 miles upstream of the PWS ground water well for the Central Shoshone County Water District. Total barium, total calcium, and total magnesium were the only metals detected in the sample, and no exceedances of surface water standards or RSLs occurred.

3.3 Human Food Chain Targets

Fishing is permitted on the North Fork Coeur d'Alene River and its tributaries; however, no fish catch statistics or fish stocking records were found. Game fish species include Brook Trout, Cutthroat Trout, Mountain Whitefish, Rainbow Trout, and Westslope Cutthroat Trout (IDFG 2018).

3.4 Environmental Targets

Sensitive species can have large habitat ranges that overlap the North Fork Coeur d'Alene River drainage. In a search of the Information and Planning Conservation System (USFWS 2018a), the following species were identified:

- Mammals: Canada Lynx, *Lynx Canadensis*, threatened species; Grizzly Bear, *Ursus arctos horribilis*, threatened species; and North American Wolverine, *Gulo gulo luscus*, proposed threatened species.
- Birds: Yellow-billed Cuckoo, *Coccyzus americanus*, threatened species.

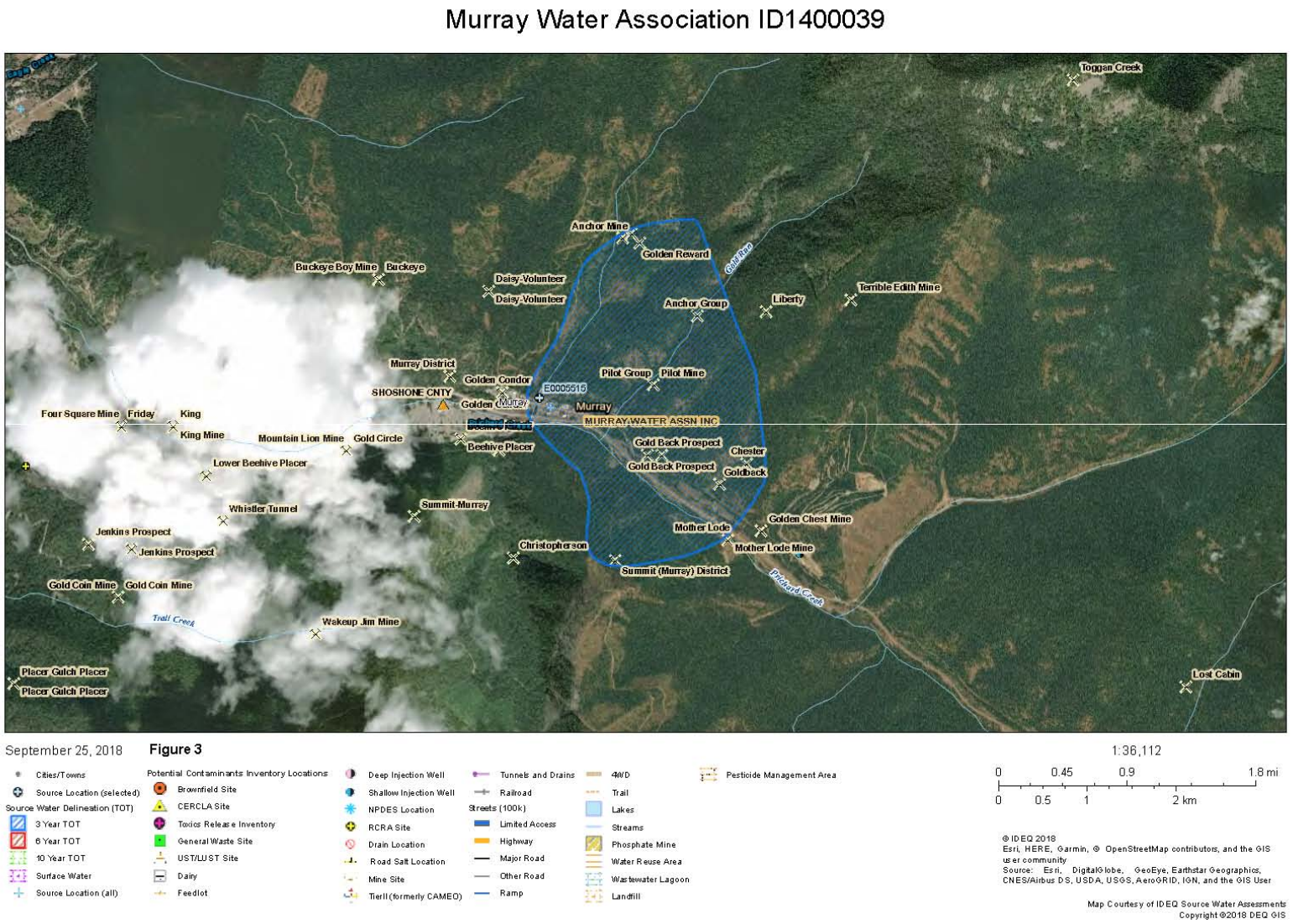


Figure 3. Murray Water Association PWS.

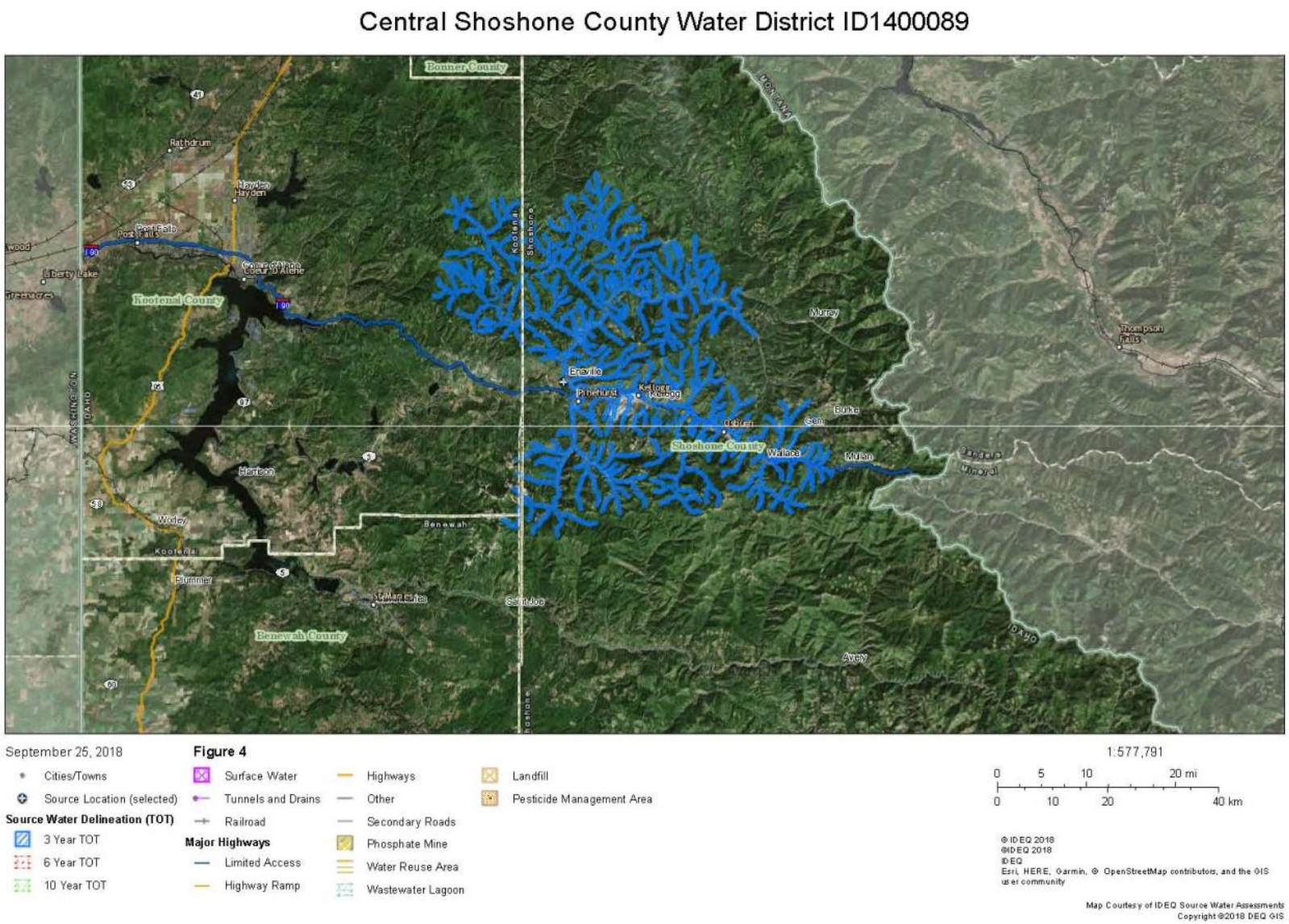


Figure 4. Central Shoshone County PWS.

- Fishes: Bull Trout, *Salvelinus confluentus*, threatened species and threatened species-designated critical habitat.
- Conifers and Cycads: Whitebark Pine, *Pinus albicaulis*, candidate species.

Wetlands in the North Fork Coeur d'Alene River drainage and its tributaries include freshwater emergent, freshwater ponds, and freshwater forested/shrub (USFWS 2018b) (Figure 5). No lake habitats are present within the drainage.

3.5 Soil Exposure Pathway

The soil exposure pathway is evaluated on the threat to residents within 1 mile and current and future on-site workers and visitors from direct-contact exposure to soil contamination within the first 2 feet of the surface. As described in section 3.1, not all specific sources have been identified within the project area; therefore, it is not possible to calculate a TDL.

Dry sediment samples were collected to determine if contaminated soils are present at publicly accessible areas of the North Fork Coeur d'Alene River where recreation use and river access occur.

Nine sediment samples were collected from public recreation sites and public river access sites on the North Fork Coeur d'Alene River. These locations were selected to evaluate sediment for the presence of contaminants from historical mining practices in areas with potential human exposure. These sediment samples were collected from *dry* sediment locations below the high-water mark on beaches, gravel bars, and/or river bank locations where signs of human activity were present (Figure 2):

- Recreation and river access site located near the intersection of Old River Road and Coeur d'Alene River Road approximately 0.5 mile north of Enaville and a private recreational vehicle (RV) site.
- Recreation and river access site located at the Bumblebee parking area at the intersection of Old River Road and Little North Fork Road.
- Recreation and river access site located at Idaho Department of Lands (IDL) Spring Creek day use area upstream of the confluence of Spring Creek with the North Fork.
- Recreation site and fishing pond located at the IDFG Steamboat Pond at the confluence of Steamboat Creek and the North Fork.
- Campground and river access site on USFS property located just downstream of the confluence of Graham Creek and the North Fork.
- Recreation and river access at USFS Graham Creek River access site located just downstream of the confluence of Graham Creek and the North Fork.
- Recreation and river access site located at the intersection of Old River Road and Coeur d'Alene River Road approximately 2.5 miles west of Prichard (locally known as "The Rock").
- Recreation and river access site located at the USFS Prichard Bridge day use site just south of Prichard.
- Recreation and river access site located at the intersection of Coeur d'Alene River Road and Prichard Creek Road.

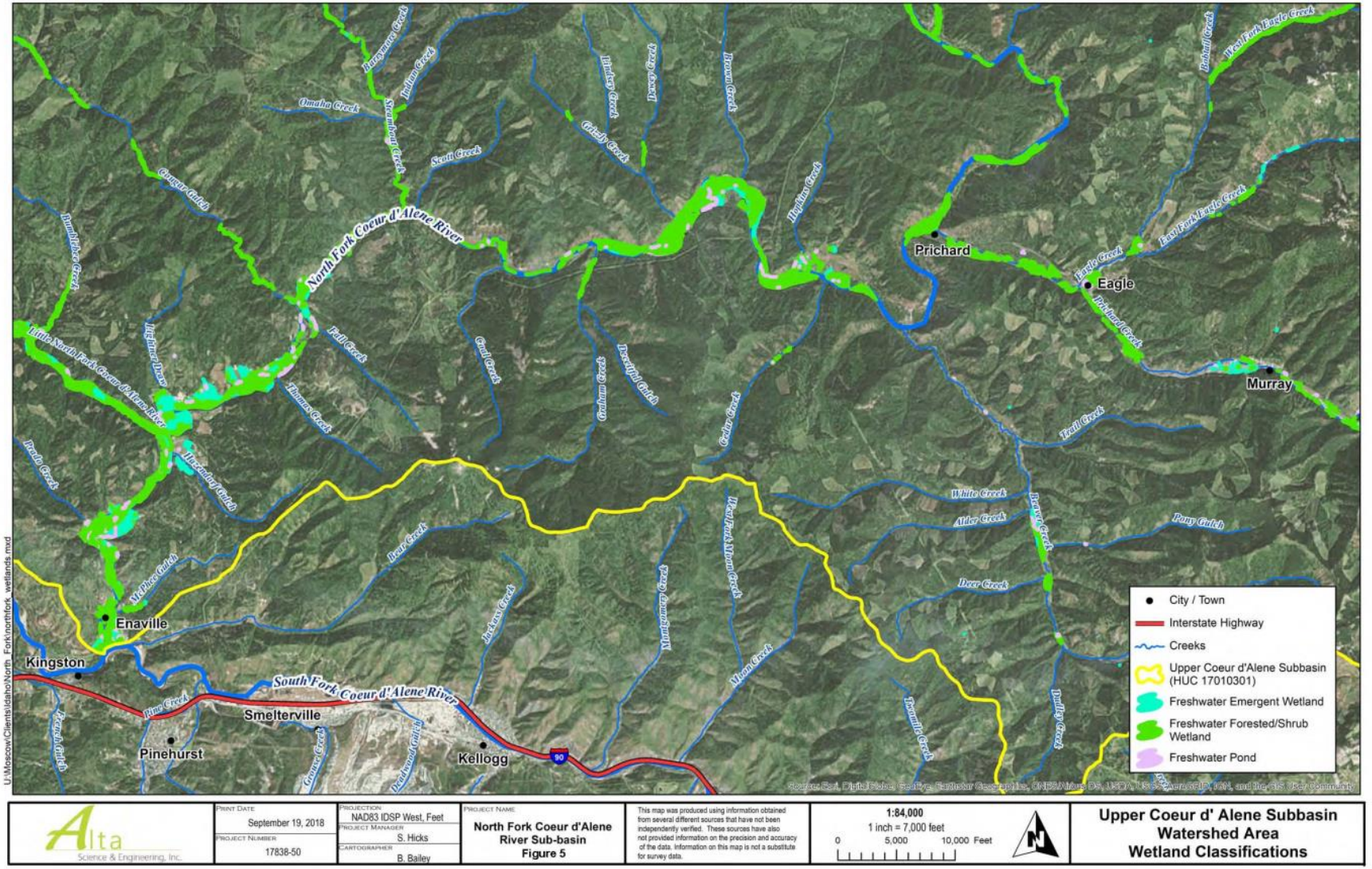


Figure 5. Wetlands in the North Fork Coeur d'Alene River watershed.

Sediment analytical results were compared to the following criteria: (1) EPA RSLs for residential and industrial soil and (2) background and applicable upstream concentrations (Table 3). Arsenic is the primary contaminant of concern in sediment, with detections above the residential RSL (0.68 mg/kg) at all locations and above the industrial RSL (3 mg/kg) in all but one location, including the background sample location. No other metals exceeded RSLs at any location. Although not above EPA RSLs, lead is greater than three times the background concentration at NF-SD11 for all recreation site samples. Copper concentrations in sediment are greater than three times background at two locations, and zinc concentrations are greater than three times background at four locations.

4 Summary and Conclusions

This PA/SI was conducted to assess the threat posed by historic mining operations in the North Fork Coeur d'Alene River watersheds to human health and the environment and to determine the need for additional investigation. The PA/SI focused on areas with the greatest density of historic mining sites to gather data to prioritize and direct future actions.

- Arsenic concentrations in surface water samples from Beaver Creek and Prichard Creek exceed the EPA RSL for tap water.
- Arsenic concentrations in sediment samples collocated with surface water samples exceed EPA RSLs for residential and industrial soils in all North Fork Coeur d'Alene River, Prichard Creek, and Beaver Creek samples.
- Lead is greater than three times the background concentration for all North Fork Coeur d'Alene River, Prichard Creek, and Beaver Creek sediment samples that were collocated with surface water samples. Other elevated metals include antimony, cadmium, copper, and zinc.
- At the recreation sites, arsenic concentrations in sediment are above the EPA RSLs for residential and industrial soils; lead is elevated more than three times the background sample concentration in all samples; and copper and zinc are elevated more than three times the background sample concentration in some samples.
- The detections of arsenic and other metals discussed this PA/SI identify a concern for human health and the environment; therefore, DEQ recommends additional actions for this site.
- Future investigations should focus on the areas with the highest concentrations of arsenic and other metals in sediments, in particular, the Prichard Creek and Beaver Creek drainages. To further investigate the impacts of historic mining on the watershed, DEQ recommends obtaining access agreements with private landowners and/or collecting additional samples in publicly accessible areas within these drainages.

5 References

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Appendix A. Site Photographs



Photo 1. North Fork Coeur d'Alene River near confluence with Little North Fork Coeur d'Alene River, looking upstream.



Photo 2. Sample location by Albert's RV Park.



Photo 3. Coal Creek, looking downstream.



Photo 4. North Fork Coeur d'Alene River near confluence with Coal Creek, looking upstream.



Photo 5. Upper North Fork Coeur d'Alene River, looking upstream.



Photo 6. Sampling location, Trail Creek.



Photo 7. Beaver Creek, looking upstream.



Photo 8. North Fork Coeur d'Alene River above Beaver Creek, looking downstream.



Photo 9. Prichard Creek, looking upstream.



Photo 10. North Fork Coeur d'Alene River above Prichard Creek, looking downstream.



Photo 11. Steamboat Pond recreation area (IDFG).



Photo 12. Paved trail to Steamboat Pond.



Photo 13. Public access to Spring Creek day use area (IDL).



Photo 14. River/beach at Spring Creek day use area.



Photo 15. Prichard Bridge day use site (USFS).



Photo 16. Trail to beach at Prichard Bridge day use site.



Photo 17. Sampling location on Prichard Creek, looking upstream.



Photo 18. River access at Prichard Creek recreation area.



Photo 19. "The Rock" recreation site.



Photo 20. Beach by "The Rock" recreation site.



Photo 21. Trail to beach at Graham Creek campground (USFS).



Photo 22. Graham Creek river access beach area.

Appendix B. Analytical Laboratory Reports

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Alta Science and Engineering - Kellogg
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Kellogg, ID 83837

Project Name: North Fork 2018
Work Order: **X8K0022**
Reported: 19-Nov-18 14:48

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
NF-SW1	X8K0022-01	Surface Water	29-Oct-18 09:45	GM	01-Nov-2018	
NF-SW2	X8K0022-02	Surface Water	29-Oct-18 10:10	GM	01-Nov-2018	
NF-SW3	X8K0022-03	Surface Water	29-Oct-18 10:45	GM	01-Nov-2018	
NF-SW4	X8K0022-04	Surface Water	29-Oct-18 11:50	GM	01-Nov-2018	
NF-SW5	X8K0022-05	Surface Water	29-Oct-18 12:15	GM	01-Nov-2018	
NF-SW6	X8K0022-06	Surface Water	29-Oct-18 12:30	GM	01-Nov-2018	
NF-SW7	X8K0022-07	Surface Water	29-Oct-18 13:50	GM	01-Nov-2018	
NF-SW8	X8K0022-08	Rinsate	29-Oct-18 14:15	GM	01-Nov-2018	
NF-SW9	X8K0022-09	Surface Water	30-Oct-18 10:40	GM	01-Nov-2018	
NF-SW10	X8K0022-10	Surface Water	30-Oct-18 11:20	GM	01-Nov-2018	
NF-SW11	X8K0022-11	Surface Water	30-Oct-18 11:40	GM	01-Nov-2018	
NF-SW12	X8K0022-12	Surface Water	30-Oct-18 12:10	GM	01-Nov-2018	
NF-SW13	X8K0022-13	Surface Water	30-Oct-18 12:10	GM	01-Nov-2018	
NF-SW14	X8K0022-14	Surface Water	30-Oct-18 13:55	GM	01-Nov-2018	
NF-SW15	X8K0022-15	Surface Water	30-Oct-18 14:15	GM	01-Nov-2018	
NF-SW16	X8K0022-16	Rinsate	30-Oct-18 14:35	GM	01-Nov-2018	
NF-SW17	X8K0022-17	Surface Water	30-Oct-18 14:45	GM	01-Nov-2018	
NF-SW18	X8K0022-18	DI Water	30-Oct-18 15:15	GM	01-Nov-2018	
NF-SW19	X8K0022-19	Surface Water	31-Oct-18 10:30	GM	01-Nov-2018	
NF-SW20	X8K0022-20	Surface Water	31-Oct-18 11:20	GM	01-Nov-2018	
NF-SW21	X8K0022-21	Surface Water	31-Oct-18 11:40	GM	01-Nov-2018	
NF-SW22	X8K0022-22	Rinsate	31-Oct-18 12:15	GM	01-Nov-2018	

Solid samples are analyzed on an as-received, wet-weight basis, unless otherwise requested.
Sample preparation is defined by the client as per their Data Quality Objectives.
This report supercedes any previous reports for this Work Order. The complete report includes pages for each sample, a full QC report, and a notes section.
Analyses were performed in accordance with SVL standard operating procedures and calibrations were performed and met SVL internal QC criteria.
The results presented in this report relate only to the samples, and meet all requirements of the NELAC Standards unless otherwise noted.

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Project Name: North Fork 2018
Work Order: **X8K0022**
Reported: 19-Nov-18 14:48

Client Sample ID: **NF-SW1**
SVL Sample ID: **X8K0022-01 (Surface Water)**

Sampled: 29-Oct-18 09:45
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.00020	mg/L	0.00020	0.000093		X845226	DPW	11/16/18 13:05	
Metals (Total Recoverable)										
EPA 6010D	Aluminum	< 0.08	mg/L	0.08	0.05		X845054	DT	11/19/18 10:10	
EPA 6010D	**Barium**	0.0166	mg/L	0.0020	0.0019		X845054	DT	11/19/18 10:10	
EPA 6010D	Beryllium	< 0.0020	mg/L	0.0020	0.0017		X845054	DT	11/19/18 10:10	
EPA 6010D	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X845054	DT	11/19/18 10:10	
EPA 6010D	**Calcium**	4.86	mg/L	0.100	0.069		X845054	DT	11/19/18 10:10	
EPA 6010D	Chromium	< 0.0060	mg/L	0.0060	0.0020		X845054	DT	11/19/18 10:10	
EPA 6010D	Cobalt	< 0.0060	mg/L	0.0060	0.0016		X845054	DT	11/19/18 10:10	
EPA 6010D	Copper	< 0.0100	mg/L	0.0100	0.0027		X845054	DT	11/19/18 10:10	
EPA 6010D	Iron	< 0.100	mg/L	0.100	0.056		X845054	DT	11/19/18 10:10	
EPA 6010D	Lead	< 0.0075	mg/L	0.0075	0.0049		X845054	DT	11/19/18 10:10	
EPA 6010D	**Magnesium**	1.98	mg/L	0.50	0.32		X845054	DT	11/19/18 10:10	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0034		X845054	DT	11/19/18 10:10	
EPA 6010D	Nickel	< 0.0100	mg/L	0.0100	0.0023		X845054	DT	11/19/18 10:10	
EPA 6010D	Selenium	< 0.040	mg/L	0.040	0.012		X845054	DT	11/19/18 10:10	
EPA 6010D	Silver	< 0.0050	mg/L	0.0050	0.0019		X845054	DT	11/19/18 10:10	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X845054	DT	11/19/18 10:10	
EPA 6010D	Zinc	< 0.010	mg/L	0.010	0.005		X845054	DT	11/19/18 10:10	
EPA 6020B	Antimony	< 0.00300	mg/L	0.00300	0.00023		X845097	KWH	11/15/18 11:16	
EPA 6020B	Arsenic	< 0.00021	mg/L	0.00150	0.00021		X845097	KWH	11/15/18 11:16	U
EPA 6020B	Thallium	< 0.00100	mg/L	0.00100	0.00008		X845097	KWH	11/15/18 11:16	

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

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Project Name: North Fork 2018
Work Order: **X8K0022**
Reported: 19-Nov-18 14:48

Client Sample ID: **NF-SW2**
SVL Sample ID: **X8K0022-02 (Surface Water)**

Sampled: 29-Oct-18 10:10
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.00020	mg/L	0.00020	0.000093		X845226	DPW	11/16/18 13:07	
Metals (Total Recoverable)										
EPA 6010D	Aluminum	< 0.08	mg/L	0.08	0.05		X845054	DT	11/19/18 10:13	
EPA 6010D	**Barium**	0.0124	mg/L	0.0020	0.0019		X845054	DT	11/19/18 10:13	
EPA 6010D	Beryllium	< 0.0020	mg/L	0.0020	0.0017		X845054	DT	11/19/18 10:13	
EPA 6010D	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X845054	DT	11/19/18 10:13	
EPA 6010D	**Calcium**	3.89	mg/L	0.100	0.069		X845054	DT	11/19/18 10:13	
EPA 6010D	Chromium	< 0.0060	mg/L	0.0060	0.0020		X845054	DT	11/19/18 10:13	
EPA 6010D	Cobalt	< 0.0060	mg/L	0.0060	0.0016		X845054	DT	11/19/18 10:13	
EPA 6010D	Copper	< 0.0100	mg/L	0.0100	0.0027		X845054	DT	11/19/18 10:13	
EPA 6010D	Iron	< 0.100	mg/L	0.100	0.056		X845054	DT	11/19/18 10:13	
EPA 6010D	Lead	< 0.0075	mg/L	0.0075	0.0049		X845054	DT	11/19/18 10:13	
EPA 6010D	**Magnesium**	1.44	mg/L	0.50	0.32		X845054	DT	11/19/18 10:13	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0034		X845054	DT	11/19/18 10:13	
EPA 6010D	Nickel	< 0.0100	mg/L	0.0100	0.0023		X845054	DT	11/19/18 10:13	
EPA 6010D	Selenium	< 0.040	mg/L	0.040	0.012		X845054	DT	11/19/18 10:13	
EPA 6010D	Silver	< 0.0050	mg/L	0.0050	0.0019		X845054	DT	11/19/18 10:13	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X845054	DT	11/19/18 10:13	
EPA 6010D	Zinc	< 0.010	mg/L	0.010	0.005		X845054	DT	11/19/18 10:13	
EPA 6020B	Antimony	< 0.00300	mg/L	0.00300	0.00023		X845097	KWH	11/15/18 11:19	
EPA 6020B	Arsenic	< 0.00021	mg/L	0.00150	0.00021		X845097	KWH	11/15/18 11:19	U
EPA 6020B	Thallium	< 0.00100	mg/L	0.00100	0.00008		X845097	KWH	11/15/18 11:19	

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Project Name: North Fork 2018
Work Order: **X8K0022**
Reported: 19-Nov-18 14:48

Client Sample ID: **NF-SW3**
SVL Sample ID: **X8K0022-03 (Surface Water)**

Sampled: 29-Oct-18 10:45
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.00020	mg/L	0.00020	0.000093		X845226	DPW	11/16/18 13:09	
Metals (Total Recoverable)										
EPA 6010D	Aluminum	< 0.08	mg/L	0.08	0.05		X845054	DT	11/19/18 10:17	
EPA 6010D	**Barium**	0.0196	mg/L	0.0020	0.0019		X845054	DT	11/19/18 10:17	
EPA 6010D	Beryllium	< 0.0020	mg/L	0.0020	0.0017		X845054	DT	11/19/18 10:17	
EPA 6010D	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X845054	DT	11/19/18 10:17	
EPA 6010D	**Calcium**	5.74	mg/L	0.100	0.069		X845054	DT	11/19/18 10:17	
EPA 6010D	Chromium	< 0.0060	mg/L	0.0060	0.0020		X845054	DT	11/19/18 10:17	
EPA 6010D	Cobalt	< 0.0060	mg/L	0.0060	0.0016		X845054	DT	11/19/18 10:17	
EPA 6010D	Copper	< 0.0100	mg/L	0.0100	0.0027		X845054	DT	11/19/18 10:17	
EPA 6010D	Iron	< 0.100	mg/L	0.100	0.056		X845054	DT	11/19/18 10:17	
EPA 6010D	Lead	< 0.0075	mg/L	0.0075	0.0049		X845054	DT	11/19/18 10:17	
EPA 6010D	**Magnesium**	2.45	mg/L	0.50	0.32		X845054	DT	11/19/18 10:17	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0034		X845054	DT	11/19/18 10:17	
EPA 6010D	Nickel	< 0.0100	mg/L	0.0100	0.0023		X845054	DT	11/19/18 10:17	
EPA 6010D	Selenium	< 0.040	mg/L	0.040	0.012		X845054	DT	11/19/18 10:17	
EPA 6010D	Silver	< 0.0050	mg/L	0.0050	0.0019		X845054	DT	11/19/18 10:17	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X845054	DT	11/19/18 10:17	
EPA 6010D	**Zinc**	0.010	mg/L	0.010	0.005		X845054	DT	11/19/18 10:17	
EPA 6020B	Antimony	< 0.00300	mg/L	0.00300	0.00023		X845097	KWH	11/15/18 11:21	
EPA 6020B	Arsenic	< 0.00021	mg/L	0.00150	0.00021		X845097	KWH	11/15/18 11:21	U
EPA 6020B	Thallium	< 0.00100	mg/L	0.00100	0.00008		X845097	KWH	11/15/18 11:21	

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Project Name: North Fork 2018
Work Order: **X8K0022**
Reported: 19-Nov-18 14:48

Client Sample ID: **NF-SW4**
SVL Sample ID: **X8K0022-04 (Surface Water)**

Sampled: 29-Oct-18 11:50
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.00020	mg/L	0.00020	0.000093		X845226	DPW	11/16/18 13:10	
Metals (Total Recoverable)										
EPA 6010D	Aluminum	< 0.08	mg/L	0.08	0.05		X845054	DT	11/19/18 10:21	
EPA 6010D	**Barium**	0.0090	mg/L	0.0020	0.0019		X845054	DT	11/19/18 10:21	
EPA 6010D	Beryllium	< 0.0020	mg/L	0.0020	0.0017		X845054	DT	11/19/18 10:21	
EPA 6010D	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X845054	DT	11/19/18 10:21	
EPA 6010D	**Calcium**	1.66	mg/L	0.100	0.069		X845054	DT	11/19/18 10:21	
EPA 6010D	Chromium	< 0.0060	mg/L	0.0060	0.0020		X845054	DT	11/19/18 10:21	
EPA 6010D	Cobalt	< 0.0060	mg/L	0.0060	0.0016		X845054	DT	11/19/18 10:21	
EPA 6010D	Copper	< 0.0100	mg/L	0.0100	0.0027		X845054	DT	11/19/18 10:21	
EPA 6010D	Iron	< 0.100	mg/L	0.100	0.056		X845054	DT	11/19/18 10:21	
EPA 6010D	Lead	< 0.0075	mg/L	0.0075	0.0049		X845054	DT	11/19/18 10:21	
EPA 6010D	Magnesium	< 0.50	mg/L	0.50	0.32		X845054	DT	11/19/18 10:21	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0034		X845054	DT	11/19/18 10:21	
EPA 6010D	Nickel	< 0.0100	mg/L	0.0100	0.0023		X845054	DT	11/19/18 10:21	
EPA 6010D	Selenium	< 0.040	mg/L	0.040	0.012		X845054	DT	11/19/18 10:21	
EPA 6010D	Silver	< 0.0050	mg/L	0.0050	0.0019		X845054	DT	11/19/18 10:21	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X845054	DT	11/19/18 10:21	
EPA 6010D	Zinc	< 0.010	mg/L	0.010	0.005		X845054	DT	11/19/18 10:21	
EPA 6020B	Antimony	< 0.00300	mg/L	0.00300	0.00023		X845097	KWH	11/15/18 11:23	
EPA 6020B	Arsenic	< 0.00021	mg/L	0.00150	0.00021		X845097	KWH	11/15/18 11:23	U
EPA 6020B	Thallium	< 0.00100	mg/L	0.00100	0.00008		X845097	KWH	11/15/18 11:23	

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108 W. Idaho Street
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Project Name: North Fork 2018
Work Order: **X8K0022**
Reported: 19-Nov-18 14:48

Client Sample ID: **NF-SW5**
SVL Sample ID: **X8K0022-05 (Surface Water)**

Sampled: 29-Oct-18 12:15
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.00020	mg/L	0.00020	0.000093		X845226	DPW	11/16/18 13:12	
Metals (Total Recoverable)										
EPA 6010D	Aluminum	< 0.08	mg/L	0.08	0.05		X845054	DT	11/19/18 10:24	
EPA 6010D	**Barium**	0.0175	mg/L	0.0020	0.0019		X845054	DT	11/19/18 10:24	
EPA 6010D	Beryllium	< 0.0020	mg/L	0.0020	0.0017		X845054	DT	11/19/18 10:24	
EPA 6010D	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X845054	DT	11/19/18 10:24	
EPA 6010D	**Calcium**	5.40	mg/L	0.100	0.069		X845054	DT	11/19/18 10:24	
EPA 6010D	Chromium	< 0.0060	mg/L	0.0060	0.0020		X845054	DT	11/19/18 10:24	
EPA 6010D	Cobalt	< 0.0060	mg/L	0.0060	0.0016		X845054	DT	11/19/18 10:24	
EPA 6010D	Copper	< 0.0100	mg/L	0.0100	0.0027		X845054	DT	11/19/18 10:24	
EPA 6010D	Iron	< 0.100	mg/L	0.100	0.056		X845054	DT	11/19/18 10:24	
EPA 6010D	Lead	< 0.0075	mg/L	0.0075	0.0049		X845054	DT	11/19/18 10:24	
EPA 6010D	**Magnesium**	2.30	mg/L	0.50	0.32		X845054	DT	11/19/18 10:24	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0034		X845054	DT	11/19/18 10:24	
EPA 6010D	Nickel	< 0.0100	mg/L	0.0100	0.0023		X845054	DT	11/19/18 10:24	
EPA 6010D	Selenium	< 0.040	mg/L	0.040	0.012		X845054	DT	11/19/18 10:24	
EPA 6010D	Silver	< 0.0050	mg/L	0.0050	0.0019		X845054	DT	11/19/18 10:24	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X845054	DT	11/19/18 10:24	
EPA 6010D	Zinc	< 0.010	mg/L	0.010	0.005		X845054	DT	11/19/18 10:24	
EPA 6020B	Antimony	< 0.00300	mg/L	0.00300	0.00023		X845097	KWH	11/15/18 11:25	
EPA 6020B	Arsenic	< 0.00021	mg/L	0.00150	0.00021		X845097	KWH	11/15/18 11:25	U
EPA 6020B	Thallium	< 0.00100	mg/L	0.00100	0.00008		X845097	KWH	11/15/18 11:25	

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Project Name: North Fork 2018
Work Order: **X8K0022**
Reported: 19-Nov-18 14:48

Client Sample ID: **NF-SW6**
SVL Sample ID: **X8K0022-06 (Surface Water)**

Sampled: 29-Oct-18 12:30
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.00020	mg/L	0.00020	0.000093		X845226	DPW	11/16/18 13:14	
Metals (Total Recoverable)										
EPA 6010D	Aluminum	< 0.08	mg/L	0.08	0.05		X845054	DT	11/19/18 10:28	
EPA 6010D	**Barium**	0.0183	mg/L	0.0020	0.0019		X845054	DT	11/19/18 10:28	
EPA 6010D	Beryllium	< 0.0020	mg/L	0.0020	0.0017		X845054	DT	11/19/18 10:28	
EPA 6010D	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X845054	DT	11/19/18 10:28	
EPA 6010D	**Calcium**	5.75	mg/L	0.100	0.069		X845054	DT	11/19/18 10:28	
EPA 6010D	Chromium	< 0.0060	mg/L	0.0060	0.0020		X845054	DT	11/19/18 10:28	
EPA 6010D	Cobalt	< 0.0060	mg/L	0.0060	0.0016		X845054	DT	11/19/18 10:28	
EPA 6010D	Copper	< 0.0100	mg/L	0.0100	0.0027		X845054	DT	11/19/18 10:28	
EPA 6010D	Iron	< 0.100	mg/L	0.100	0.056		X845054	DT	11/19/18 10:28	
EPA 6010D	Lead	< 0.0075	mg/L	0.0075	0.0049		X845054	DT	11/19/18 10:28	
EPA 6010D	**Magnesium**	2.41	mg/L	0.50	0.32		X845054	DT	11/19/18 10:28	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0034		X845054	DT	11/19/18 10:28	
EPA 6010D	Nickel	< 0.0100	mg/L	0.0100	0.0023		X845054	DT	11/19/18 10:28	
EPA 6010D	Selenium	< 0.040	mg/L	0.040	0.012		X845054	DT	11/19/18 10:28	
EPA 6010D	Silver	< 0.0050	mg/L	0.0050	0.0019		X845054	DT	11/19/18 10:28	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X845054	DT	11/19/18 10:28	
EPA 6010D	Zinc	< 0.010	mg/L	0.010	0.005		X845054	DT	11/19/18 10:28	
EPA 6020B	Antimony	< 0.00300	mg/L	0.00300	0.00023		X845097	KWH	11/15/18 11:31	
EPA 6020B	Arsenic	< 0.00021	mg/L	0.00150	0.00021		X845097	KWH	11/15/18 11:31	U
EPA 6020B	Thallium	< 0.00100	mg/L	0.00100	0.00008		X845097	KWH	11/15/18 11:31	

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Project Name: North Fork 2018
Work Order: **X8K0022**
Reported: 19-Nov-18 14:48

Client Sample ID: **NF-SW7**
SVL Sample ID: **X8K0022-07 (Surface Water)**

Sampled: 29-Oct-18 13:50
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.00020	mg/L	0.00020	0.000093		X845226	DPW	11/16/18 13:16	
Metals (Total Recoverable)										
EPA 6010D	Aluminum	< 0.08	mg/L	0.08	0.05		X845054	DT	11/19/18 10:32	
EPA 6010D	**Barium**	0.0247	mg/L	0.0020	0.0019		X845054	DT	11/19/18 10:32	
EPA 6010D	Beryllium	< 0.0020	mg/L	0.0020	0.0017		X845054	DT	11/19/18 10:32	
EPA 6010D	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X845054	DT	11/19/18 10:32	
EPA 6010D	**Calcium**	6.07	mg/L	0.100	0.069		X845054	DT	11/19/18 10:32	
EPA 6010D	Chromium	< 0.0060	mg/L	0.0060	0.0020		X845054	DT	11/19/18 10:32	
EPA 6010D	Cobalt	< 0.0060	mg/L	0.0060	0.0016		X845054	DT	11/19/18 10:32	
EPA 6010D	Copper	< 0.0100	mg/L	0.0100	0.0027		X845054	DT	11/19/18 10:32	
EPA 6010D	Iron	< 0.100	mg/L	0.100	0.056		X845054	DT	11/19/18 10:32	
EPA 6010D	Lead	< 0.0075	mg/L	0.0075	0.0049		X845054	DT	11/19/18 10:32	
EPA 6010D	**Magnesium**	3.55	mg/L	0.50	0.32		X845054	DT	11/19/18 10:32	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0034		X845054	DT	11/19/18 10:32	
EPA 6010D	Nickel	< 0.0100	mg/L	0.0100	0.0023		X845054	DT	11/19/18 10:32	
EPA 6010D	Selenium	< 0.040	mg/L	0.040	0.012		X845054	DT	11/19/18 10:32	
EPA 6010D	Silver	< 0.0050	mg/L	0.0050	0.0019		X845054	DT	11/19/18 10:32	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X845054	DT	11/19/18 10:32	
EPA 6010D	Zinc	< 0.010	mg/L	0.010	0.005		X845054	DT	11/19/18 10:32	
EPA 6020B	Antimony	< 0.00300	mg/L	0.00300	0.00023		X845097	KWH	11/15/18 11:33	
EPA 6020B	Arsenic	< 0.00021	mg/L	0.00150	0.00021		X845097	KWH	11/15/18 11:33	U
EPA 6020B	Thallium	< 0.00100	mg/L	0.00100	0.00008		X845097	KWH	11/15/18 11:33	

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Project Name: North Fork 2018
Work Order: **X8K0022**
Reported: 19-Nov-18 14:48

Client Sample ID: **NF-SW8**
SVL Sample ID: **X8K0022-08 (Rinsate)**

Sampled: 29-Oct-18 14:15
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.00020	mg/L	0.00020	0.000093		X845226	DPW	11/16/18 13:21	
Metals (Total Recoverable)										
EPA 6010D	Aluminum	< 0.08	mg/L	0.08	0.05		X845054	DT	11/19/18 10:35	
EPA 6010D	Barium	< 0.0020	mg/L	0.0020	0.0019		X845054	DT	11/19/18 10:35	
EPA 6010D	Beryllium	< 0.0020	mg/L	0.0020	0.0017		X845054	DT	11/19/18 10:35	
EPA 6010D	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X845054	DT	11/19/18 10:35	
EPA 6010D	Calcium	< 0.100	mg/L	0.100	0.069		X845054	DT	11/19/18 10:35	
EPA 6010D	Chromium	< 0.0060	mg/L	0.0060	0.0020		X845054	DT	11/19/18 10:35	
EPA 6010D	Cobalt	< 0.0060	mg/L	0.0060	0.0016		X845054	DT	11/19/18 10:35	
EPA 6010D	Copper	< 0.0100	mg/L	0.0100	0.0027		X845054	DT	11/19/18 10:35	
EPA 6010D	Iron	< 0.100	mg/L	0.100	0.056		X845054	DT	11/19/18 10:35	
EPA 6010D	Lead	< 0.0075	mg/L	0.0075	0.0049		X845054	DT	11/19/18 10:35	
EPA 6010D	Magnesium	< 0.50	mg/L	0.50	0.32		X845054	DT	11/19/18 10:35	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0034		X845054	DT	11/19/18 10:35	
EPA 6010D	Nickel	< 0.0100	mg/L	0.0100	0.0023		X845054	DT	11/19/18 10:35	
EPA 6010D	Selenium	< 0.040	mg/L	0.040	0.012		X845054	DT	11/19/18 10:35	
EPA 6010D	Silver	< 0.0050	mg/L	0.0050	0.0019		X845054	DT	11/19/18 10:35	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X845054	DT	11/19/18 10:35	
EPA 6010D	Zinc	< 0.010	mg/L	0.010	0.005		X845054	DT	11/19/18 10:35	
EPA 6020B	Antimony	< 0.00300	mg/L	0.00300	0.00023		X845097	KWH	11/15/18 11:36	
EPA 6020B	Arsenic	< 0.00021	mg/L	0.00150	0.00021		X845097	KWH	11/15/18 11:36	U
EPA 6020B	Thallium	< 0.00100	mg/L	0.00100	0.00008		X845097	KWH	11/15/18 11:36	

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Project Name: North Fork 2018
Work Order: **X8K0022**
Reported: 19-Nov-18 14:48

Client Sample ID: **NF-SW9**
SVL Sample ID: **X8K0022-09 (Surface Water)**

Sampled: 30-Oct-18 10:40
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.00050	mg/L	0.00050	0.00023		X845226	DPW	11/16/18 13:23	D1
Metals (Total Recoverable)										
EPA 6010D	Aluminum	< 0.08	mg/L	0.08	0.05		X845054	DT	11/19/18 10:47	
EPA 6010D	**Barium**	0.0256	mg/L	0.0020	0.0019		X845054	DT	11/19/18 10:47	
EPA 6010D	Beryllium	< 0.0020	mg/L	0.0020	0.0017		X845054	DT	11/19/18 10:47	
EPA 6010D	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X845054	DT	11/19/18 10:47	
EPA 6010D	**Calcium**	17.5	mg/L	0.100	0.069		X845054	DT	11/19/18 10:47	
EPA 6010D	Chromium	< 0.0060	mg/L	0.0060	0.0020		X845054	DT	11/19/18 10:47	
EPA 6010D	Cobalt	< 0.0060	mg/L	0.0060	0.0016		X845054	DT	11/19/18 10:47	
EPA 6010D	Copper	< 0.0100	mg/L	0.0100	0.0027		X845054	DT	11/19/18 10:47	
EPA 6010D	Iron	< 0.100	mg/L	0.100	0.056		X845054	DT	11/19/18 10:47	
EPA 6010D	Lead	< 0.0075	mg/L	0.0075	0.0049		X845054	DT	11/19/18 10:47	
EPA 6010D	**Magnesium**	6.84	mg/L	0.50	0.32		X845054	DT	11/19/18 10:47	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0034		X845054	DT	11/19/18 10:47	
EPA 6010D	Nickel	< 0.0100	mg/L	0.0100	0.0023		X845054	DT	11/19/18 10:47	
EPA 6010D	Selenium	< 0.040	mg/L	0.040	0.012		X845054	DT	11/19/18 10:47	
EPA 6010D	Silver	< 0.0050	mg/L	0.0050	0.0019		X845054	DT	11/19/18 10:47	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X845054	DT	11/19/18 10:47	
EPA 6010D	Zinc	< 0.010	mg/L	0.010	0.005		X845054	DT	11/19/18 10:47	
EPA 6020B	Antimony	< 0.00300	mg/L	0.00300	0.00023		X845097	KWH	11/15/18 11:10	
EPA 6020B	**Arsenic**	0.00025	mg/L	0.00150	0.00021		X845097	KWH	11/15/18 11:10	J
EPA 6020B	Thallium	< 0.00100	mg/L	0.00100	0.00008		X845097	KWH	11/15/18 11:10	

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Project Name: North Fork 2018
Work Order: **X8K0022**
Reported: 19-Nov-18 14:48

Client Sample ID: **NF-SW10**
SVL Sample ID: **X8K0022-10 (Surface Water)**

Sampled: 30-Oct-18 11:20
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.00020	mg/L	0.00020	0.000093		X845226	DPW	11/16/18 13:25	
Metals (Total Recoverable)										
EPA 6010D	Aluminum	< 0.08	mg/L	0.08	0.05		X845054	DT	11/19/18 10:57	
EPA 6010D	**Barium**	0.0166	mg/L	0.0020	0.0019		X845054	DT	11/19/18 10:57	
EPA 6010D	Beryllium	< 0.0020	mg/L	0.0020	0.0017		X845054	DT	11/19/18 10:57	
EPA 6010D	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X845054	DT	11/19/18 10:57	
EPA 6010D	**Calcium**	8.43	mg/L	0.100	0.069		X845054	DT	11/19/18 10:57	
EPA 6010D	Chromium	< 0.0060	mg/L	0.0060	0.0020		X845054	DT	11/19/18 10:57	
EPA 6010D	Cobalt	< 0.0060	mg/L	0.0060	0.0016		X845054	DT	11/19/18 10:57	
EPA 6010D	Copper	< 0.0100	mg/L	0.0100	0.0027		X845054	DT	11/19/18 10:57	
EPA 6010D	Iron	< 0.100	mg/L	0.100	0.056		X845054	DT	11/19/18 10:57	
EPA 6010D	Lead	< 0.0075	mg/L	0.0075	0.0049		X845054	DT	11/19/18 10:57	
EPA 6010D	**Magnesium**	3.03	mg/L	0.50	0.32		X845054	DT	11/19/18 10:57	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0034		X845054	DT	11/19/18 10:57	
EPA 6010D	Nickel	< 0.0100	mg/L	0.0100	0.0023		X845054	DT	11/19/18 10:57	
EPA 6010D	Selenium	< 0.040	mg/L	0.040	0.012		X845054	DT	11/19/18 10:57	
EPA 6010D	Silver	< 0.0050	mg/L	0.0050	0.0019		X845054	DT	11/19/18 10:57	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X845054	DT	11/19/18 10:57	
EPA 6010D	**Zinc**	0.012	mg/L	0.010	0.005		X845054	DT	11/19/18 10:57	
EPA 6020B	Antimony	< 0.00300	mg/L	0.00300	0.00023		X845097	KWH	11/15/18 11:38	
EPA 6020B	**Arsenic**	0.00022	mg/L	0.00150	0.00021		X845097	KWH	11/15/18 11:38	J
EPA 6020B	Thallium	< 0.00100	mg/L	0.00100	0.00008		X845097	KWH	11/15/18 11:38	

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

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Project Name: North Fork 2018
Work Order: **X8K0022**
Reported: 19-Nov-18 14:48

Client Sample ID: **NF-SW11**
SVL Sample ID: **X8K0022-11 (Surface Water)**

Sampled: 30-Oct-18 11:40
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.00020	mg/L	0.00020	0.000093		X845226	DPW	11/16/18 13:30	
Metals (Total Recoverable)										
EPA 6010D	Aluminum	< 0.08	mg/L	0.08	0.05		X845054	DT	11/19/18 11:01	
EPA 6010D	**Barium**	0.0196	mg/L	0.0020	0.0019		X845054	DT	11/19/18 11:01	
EPA 6010D	Beryllium	< 0.0020	mg/L	0.0020	0.0017		X845054	DT	11/19/18 11:01	
EPA 6010D	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X845054	DT	11/19/18 11:01	
EPA 6010D	**Calcium**	6.80	mg/L	0.100	0.069		X845054	DT	11/19/18 11:01	
EPA 6010D	Chromium	< 0.0060	mg/L	0.0060	0.0020		X845054	DT	11/19/18 11:01	
EPA 6010D	Cobalt	< 0.0060	mg/L	0.0060	0.0016		X845054	DT	11/19/18 11:01	
EPA 6010D	Copper	< 0.0100	mg/L	0.0100	0.0027		X845054	DT	11/19/18 11:01	
EPA 6010D	Iron	< 0.100	mg/L	0.100	0.056		X845054	DT	11/19/18 11:01	
EPA 6010D	Lead	< 0.0075	mg/L	0.0075	0.0049		X845054	DT	11/19/18 11:01	
EPA 6010D	**Magnesium**	2.81	mg/L	0.50	0.32		X845054	DT	11/19/18 11:01	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0034		X845054	DT	11/19/18 11:01	
EPA 6010D	Nickel	< 0.0100	mg/L	0.0100	0.0023		X845054	DT	11/19/18 11:01	
EPA 6010D	Selenium	< 0.040	mg/L	0.040	0.012		X845054	DT	11/19/18 11:01	
EPA 6010D	Silver	< 0.0050	mg/L	0.0050	0.0019		X845054	DT	11/19/18 11:01	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X845054	DT	11/19/18 11:01	
EPA 6010D	Zinc	< 0.010	mg/L	0.010	0.005		X845054	DT	11/19/18 11:01	
EPA 6020B	Antimony	< 0.00300	mg/L	0.00300	0.00023		X845095	KWH	11/15/18 11:44	
EPA 6020B	Arsenic	< 0.00021	mg/L	0.00150	0.00021		X845095	KWH	11/15/18 11:44	U
EPA 6020B	Thallium	< 0.00100	mg/L	0.00100	0.00008		X845095	KWH	11/15/18 11:44	

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Project Name: North Fork 2018
Work Order: **X8K0022**
Reported: 19-Nov-18 14:48

Client Sample ID: **NF-SW12**
SVL Sample ID: **X8K0022-12 (Surface Water)**

Sampled: 30-Oct-18 12:10
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.00020	mg/L	0.00020	0.000093		X845226	DPW	11/16/18 13:32	
Metals (Total Recoverable)										
EPA 6010D	Aluminum	< 0.08	mg/L	0.08	0.05		X845054	DT	11/19/18 11:05	
EPA 6010D	**Barium**	0.0207	mg/L	0.0020	0.0019		X845054	DT	11/19/18 11:05	
EPA 6010D	Beryllium	< 0.0020	mg/L	0.0020	0.0017		X845054	DT	11/19/18 11:05	
EPA 6010D	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X845054	DT	11/19/18 11:05	
EPA 6010D	**Calcium**	6.00	mg/L	0.100	0.069		X845054	DT	11/19/18 11:05	
EPA 6010D	Chromium	< 0.0060	mg/L	0.0060	0.0020		X845054	DT	11/19/18 11:05	
EPA 6010D	Cobalt	< 0.0060	mg/L	0.0060	0.0016		X845054	DT	11/19/18 11:05	
EPA 6010D	Copper	< 0.0100	mg/L	0.0100	0.0027		X845054	DT	11/19/18 11:05	
EPA 6010D	Iron	< 0.100	mg/L	0.100	0.056		X845054	DT	11/19/18 11:05	
EPA 6010D	Lead	< 0.0075	mg/L	0.0075	0.0049		X845054	DT	11/19/18 11:05	
EPA 6010D	**Magnesium**	2.68	mg/L	0.50	0.32		X845054	DT	11/19/18 11:05	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0034		X845054	DT	11/19/18 11:05	
EPA 6010D	Nickel	< 0.0100	mg/L	0.0100	0.0023		X845054	DT	11/19/18 11:05	
EPA 6010D	Selenium	< 0.040	mg/L	0.040	0.012		X845054	DT	11/19/18 11:05	
EPA 6010D	Silver	< 0.0050	mg/L	0.0050	0.0019		X845054	DT	11/19/18 11:05	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X845054	DT	11/19/18 11:05	
EPA 6010D	Zinc	< 0.010	mg/L	0.010	0.005		X845054	DT	11/19/18 11:05	
EPA 6020B	Antimony	< 0.00300	mg/L	0.00300	0.00023		X845095	KWH	11/15/18 11:50	
EPA 6020B	Arsenic	< 0.00021	mg/L	0.00150	0.00021		X845095	KWH	11/15/18 11:50	U
EPA 6020B	Thallium	< 0.00100	mg/L	0.00100	0.00008		X845095	KWH	11/15/18 11:50	

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Project Name: North Fork 2018
Work Order: **X8K0022**
Reported: 19-Nov-18 14:48

Client Sample ID: **NF-SW13**
SVL Sample ID: **X8K0022-13 (Surface Water)**

Sampled: 30-Oct-18 12:10
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.00020	mg/L	0.00020	0.000093		X845226	DPW	11/16/18 13:34	
Metals (Total Recoverable)										
EPA 6010D	Aluminum	< 0.08	mg/L	0.08	0.05		X845054	DT	11/19/18 11:08	
EPA 6010D	**Barium**	0.0203	mg/L	0.0020	0.0019		X845054	DT	11/19/18 11:08	
EPA 6010D	Beryllium	< 0.0020	mg/L	0.0020	0.0017		X845054	DT	11/19/18 11:08	
EPA 6010D	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X845054	DT	11/19/18 11:08	
EPA 6010D	**Calcium**	5.98	mg/L	0.100	0.069		X845054	DT	11/19/18 11:08	
EPA 6010D	Chromium	< 0.0060	mg/L	0.0060	0.0020		X845054	DT	11/19/18 11:08	
EPA 6010D	Cobalt	< 0.0060	mg/L	0.0060	0.0016		X845054	DT	11/19/18 11:08	
EPA 6010D	Copper	< 0.0100	mg/L	0.0100	0.0027		X845054	DT	11/19/18 11:08	
EPA 6010D	Iron	< 0.100	mg/L	0.100	0.056		X845054	DT	11/19/18 11:08	
EPA 6010D	Lead	< 0.0075	mg/L	0.0075	0.0049		X845054	DT	11/19/18 11:08	
EPA 6010D	**Magnesium**	2.69	mg/L	0.50	0.32		X845054	DT	11/19/18 11:08	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0034		X845054	DT	11/19/18 11:08	
EPA 6010D	Nickel	< 0.0100	mg/L	0.0100	0.0023		X845054	DT	11/19/18 11:08	
EPA 6010D	Selenium	< 0.040	mg/L	0.040	0.012		X845054	DT	11/19/18 11:08	
EPA 6010D	Silver	< 0.0050	mg/L	0.0050	0.0019		X845054	DT	11/19/18 11:08	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X845054	DT	11/19/18 11:08	
EPA 6010D	Zinc	< 0.010	mg/L	0.010	0.005		X845054	DT	11/19/18 11:08	
EPA 6020B	Antimony	< 0.00300	mg/L	0.00300	0.00023		X845095	KWH	11/15/18 11:57	
EPA 6020B	Arsenic	< 0.00021	mg/L	0.00150	0.00021		X845095	KWH	11/15/18 11:57	U
EPA 6020B	Thallium	< 0.00100	mg/L	0.00100	0.00008		X845095	KWH	11/15/18 11:57	

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Project Name: North Fork 2018
Work Order: **X8K0022**
Reported: 19-Nov-18 14:48

Client Sample ID: **NF-SW14**
SVL Sample ID: **X8K0022-14 (Surface Water)**

Sampled: 30-Oct-18 13:55
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.00020	mg/L	0.00020	0.000093		X845226	DPW	11/16/18 13:36	
Metals (Total Recoverable)										
EPA 6010D	Aluminum	< 0.08	mg/L	0.08	0.05		X845054	DT	11/19/18 11:12	
EPA 6010D	**Barium**	0.0177	mg/L	0.0020	0.0019		X845054	DT	11/19/18 11:12	
EPA 6010D	Beryllium	< 0.0020	mg/L	0.0020	0.0017		X845054	DT	11/19/18 11:12	
EPA 6010D	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X845054	DT	11/19/18 11:12	
EPA 6010D	**Calcium**	3.20	mg/L	0.100	0.069		X845054	DT	11/19/18 11:12	
EPA 6010D	Chromium	< 0.0060	mg/L	0.0060	0.0020		X845054	DT	11/19/18 11:12	
EPA 6010D	Cobalt	< 0.0060	mg/L	0.0060	0.0016		X845054	DT	11/19/18 11:12	
EPA 6010D	Copper	< 0.0100	mg/L	0.0100	0.0027		X845054	DT	11/19/18 11:12	
EPA 6010D	Iron	< 0.100	mg/L	0.100	0.056		X845054	DT	11/19/18 11:12	
EPA 6010D	Lead	< 0.0075	mg/L	0.0075	0.0049		X845054	DT	11/19/18 11:12	
EPA 6010D	**Magnesium**	1.11	mg/L	0.50	0.32		X845054	DT	11/19/18 11:12	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0034		X845054	DT	11/19/18 11:12	
EPA 6010D	Nickel	< 0.0100	mg/L	0.0100	0.0023		X845054	DT	11/19/18 11:12	
EPA 6010D	Selenium	< 0.040	mg/L	0.040	0.012		X845054	DT	11/19/18 11:12	
EPA 6010D	Silver	< 0.0050	mg/L	0.0050	0.0019		X845054	DT	11/19/18 11:12	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X845054	DT	11/19/18 11:12	
EPA 6010D	**Zinc**	0.024	mg/L	0.010	0.005		X845054	DT	11/19/18 11:12	
EPA 6020B	Antimony	< 0.00300	mg/L	0.00300	0.00023		X845095	KWH	11/15/18 11:59	
EPA 6020B	**Arsenic**	0.00022	mg/L	0.00150	0.00021		X845095	KWH	11/15/18 11:59	J
EPA 6020B	Thallium	< 0.00100	mg/L	0.00100	0.00008		X845095	KWH	11/15/18 11:59	

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Project Name: North Fork 2018
Work Order: **X8K0022**
Reported: 19-Nov-18 14:48

Client Sample ID: **NF-SW15**
SVL Sample ID: **X8K0022-15 (Surface Water)**

Sampled: 30-Oct-18 14:15
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.00020	mg/L	0.00020	0.000093		X845226	DPW	11/16/18 13:37	
Metals (Total Recoverable)										
EPA 6010D	Aluminum	< 0.08	mg/L	0.08	0.05		X845054	DT	11/19/18 11:16	
EPA 6010D	**Barium**	0.0196	mg/L	0.0020	0.0019		X845054	DT	11/19/18 11:16	
EPA 6010D	Beryllium	< 0.0020	mg/L	0.0020	0.0017		X845054	DT	11/19/18 11:16	
EPA 6010D	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X845054	DT	11/19/18 11:16	
EPA 6010D	**Calcium**	5.37	mg/L	0.100	0.069		X845054	DT	11/19/18 11:16	
EPA 6010D	Chromium	< 0.0060	mg/L	0.0060	0.0020		X845054	DT	11/19/18 11:16	
EPA 6010D	Cobalt	< 0.0060	mg/L	0.0060	0.0016		X845054	DT	11/19/18 11:16	
EPA 6010D	Copper	< 0.0100	mg/L	0.0100	0.0027		X845054	DT	11/19/18 11:16	
EPA 6010D	Iron	< 0.100	mg/L	0.100	0.056		X845054	DT	11/19/18 11:16	
EPA 6010D	Lead	< 0.0075	mg/L	0.0075	0.0049		X845054	DT	11/19/18 11:16	
EPA 6010D	**Magnesium**	2.31	mg/L	0.50	0.32		X845054	DT	11/19/18 11:16	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0034		X845054	DT	11/19/18 11:16	
EPA 6010D	Nickel	< 0.0100	mg/L	0.0100	0.0023		X845054	DT	11/19/18 11:16	
EPA 6010D	Selenium	< 0.040	mg/L	0.040	0.012		X845054	DT	11/19/18 11:16	
EPA 6010D	Silver	< 0.0050	mg/L	0.0050	0.0019		X845054	DT	11/19/18 11:16	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X845054	DT	11/19/18 11:16	
EPA 6010D	Zinc	< 0.010	mg/L	0.010	0.005		X845054	DT	11/19/18 11:16	
EPA 6020B	Antimony	< 0.00300	mg/L	0.00300	0.00023		X845095	KWH	11/15/18 12:01	
EPA 6020B	Arsenic	< 0.00021	mg/L	0.00150	0.00021		X845095	KWH	11/15/18 12:01	U
EPA 6020B	Thallium	< 0.00100	mg/L	0.00100	0.00008		X845095	KWH	11/15/18 12:01	

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Project Name: North Fork 2018
Work Order: **X8K0022**
Reported: 19-Nov-18 14:48

Client Sample ID: **NF-SW16**
SVL Sample ID: **X8K0022-16 (Rinsate)**

Sampled: 30-Oct-18 14:35
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.00020	mg/L	0.00020	0.000093		X845228	DPW	11/16/18 12:31	
Metals (Total Recoverable)										
EPA 6010D	Aluminum	< 0.08	mg/L	0.08	0.05		X845055	DT	11/19/18 11:52	
EPA 6010D	Barium	< 0.0020	mg/L	0.0020	0.0019		X845055	DT	11/19/18 11:52	
EPA 6010D	Beryllium	< 0.0020	mg/L	0.0020	0.0017		X845055	DT	11/19/18 11:52	
EPA 6010D	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X845055	DT	11/19/18 11:52	
EPA 6010D	Calcium	< 0.100	mg/L	0.100	0.069		X845055	DT	11/19/18 11:52	
EPA 6010D	Chromium	< 0.0060	mg/L	0.0060	0.0020		X845055	DT	11/19/18 11:52	
EPA 6010D	Cobalt	< 0.0060	mg/L	0.0060	0.0016		X845055	DT	11/19/18 11:52	
EPA 6010D	Copper	< 0.0100	mg/L	0.0100	0.0027		X845055	DT	11/19/18 11:52	
EPA 6010D	Iron	< 0.100	mg/L	0.100	0.056		X845055	DT	11/19/18 11:52	
EPA 6010D	Lead	< 0.0075	mg/L	0.0075	0.0049		X845055	DT	11/19/18 11:52	
EPA 6010D	Magnesium	< 0.50	mg/L	0.50	0.32		X845055	DT	11/19/18 11:52	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0034		X845055	DT	11/19/18 11:52	
EPA 6010D	Nickel	< 0.0100	mg/L	0.0100	0.0023		X845055	DT	11/19/18 11:52	
EPA 6010D	Selenium	< 0.040	mg/L	0.040	0.012		X845055	DT	11/19/18 11:52	
EPA 6010D	Silver	< 0.0050	mg/L	0.0050	0.0019		X845055	DT	11/19/18 11:52	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X845055	DT	11/19/18 11:52	
EPA 6010D	Zinc	< 0.010	mg/L	0.010	0.005		X845055	DT	11/19/18 11:52	
EPA 6020B	Antimony	< 0.00300	mg/L	0.00300	0.00023		X845095	KWH	11/15/18 12:03	
EPA 6020B	Arsenic	< 0.00021	mg/L	0.00150	0.00021		X845095	KWH	11/15/18 12:03	U
EPA 6020B	Thallium	< 0.00100	mg/L	0.00100	0.00008		X845095	KWH	11/15/18 12:03	

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Project Name: North Fork 2018
Work Order: **X8K0022**
Reported: 19-Nov-18 14:48

Client Sample ID: **NF-SW17**
SVL Sample ID: **X8K0022-17 (Surface Water)**

Sampled: 30-Oct-18 14:45
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.00020	mg/L	0.00020	0.000093		X845228	DPW	11/16/18 12:32	
Metals (Total Recoverable)										
EPA 6010D	Aluminum	< 0.08	mg/L	0.08	0.05		X845055	DT	11/19/18 12:03	
EPA 6010D	**Barium**	0.0202	mg/L	0.0020	0.0019		X845055	DT	11/19/18 12:03	
EPA 6010D	Beryllium	< 0.0020	mg/L	0.0020	0.0017		X845055	DT	11/19/18 12:03	
EPA 6010D	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X845055	DT	11/19/18 12:03	
EPA 6010D	**Calcium**	6.23	mg/L	0.100	0.069		X845055	DT	11/19/18 12:03	
EPA 6010D	Chromium	< 0.0060	mg/L	0.0060	0.0020		X845055	DT	11/19/18 12:03	
EPA 6010D	Cobalt	< 0.0060	mg/L	0.0060	0.0016		X845055	DT	11/19/18 12:03	
EPA 6010D	Copper	< 0.0100	mg/L	0.0100	0.0027		X845055	DT	11/19/18 12:03	
EPA 6010D	Iron	< 0.100	mg/L	0.100	0.056		X845055	DT	11/19/18 12:03	
EPA 6010D	Lead	< 0.0075	mg/L	0.0075	0.0049		X845055	DT	11/19/18 12:03	
EPA 6010D	**Magnesium**	2.88	mg/L	0.50	0.32		X845055	DT	11/19/18 12:03	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0034		X845055	DT	11/19/18 12:03	
EPA 6010D	Nickel	< 0.0100	mg/L	0.0100	0.0023		X845055	DT	11/19/18 12:03	
EPA 6010D	Selenium	< 0.040	mg/L	0.040	0.012		X845055	DT	11/19/18 12:03	
EPA 6010D	Silver	< 0.0050	mg/L	0.0050	0.0019		X845055	DT	11/19/18 12:03	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X845055	DT	11/19/18 12:03	
EPA 6010D	Zinc	< 0.010	mg/L	0.010	0.005		X845055	DT	11/19/18 12:03	
EPA 6020B	Antimony	< 0.00300	mg/L	0.00300	0.00023		X845095	KWH	11/15/18 12:05	
EPA 6020B	Arsenic	< 0.00021	mg/L	0.00150	0.00021		X845095	KWH	11/15/18 12:05	U
EPA 6020B	Thallium	< 0.00100	mg/L	0.00100	0.00008		X845095	KWH	11/15/18 12:05	

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Project Name: North Fork 2018
Work Order: **X8K0022**
Reported: 19-Nov-18 14:48

Client Sample ID: **NF-SW18**
SVL Sample ID: **X8K0022-18 (DI Water)**

Sampled: 30-Oct-18 15:15
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.00020	mg/L	0.00020	0.000093		X845228	DPW	11/16/18 12:34	
Metals (Total Recoverable)										
EPA 6010D	Aluminum	< 0.08	mg/L	0.08	0.05		X845055	DT	11/19/18 12:06	
EPA 6010D	Barium	< 0.0020	mg/L	0.0020	0.0019		X845055	DT	11/19/18 12:06	
EPA 6010D	Beryllium	< 0.0020	mg/L	0.0020	0.0017		X845055	DT	11/19/18 12:06	
EPA 6010D	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X845055	DT	11/19/18 12:06	
EPA 6010D	Calcium	< 0.100	mg/L	0.100	0.069		X845055	DT	11/19/18 12:06	
EPA 6010D	Chromium	< 0.0060	mg/L	0.0060	0.0020		X845055	DT	11/19/18 12:06	
EPA 6010D	Cobalt	< 0.0060	mg/L	0.0060	0.0016		X845055	DT	11/19/18 12:06	
EPA 6010D	Copper	< 0.0100	mg/L	0.0100	0.0027		X845055	DT	11/19/18 12:06	
EPA 6010D	Iron	< 0.100	mg/L	0.100	0.056		X845055	DT	11/19/18 12:06	
EPA 6010D	Lead	< 0.0075	mg/L	0.0075	0.0049		X845055	DT	11/19/18 12:06	
EPA 6010D	Magnesium	< 0.50	mg/L	0.50	0.32		X845055	DT	11/19/18 12:06	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0034		X845055	DT	11/19/18 12:06	
EPA 6010D	Nickel	< 0.0100	mg/L	0.0100	0.0023		X845055	DT	11/19/18 12:06	
EPA 6010D	Selenium	< 0.040	mg/L	0.040	0.012		X845055	DT	11/19/18 12:06	
EPA 6010D	Silver	< 0.0050	mg/L	0.0050	0.0019		X845055	DT	11/19/18 12:06	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X845055	DT	11/19/18 12:06	
EPA 6010D	Zinc	< 0.010	mg/L	0.010	0.005		X845055	DT	11/19/18 12:06	
EPA 6020B	Antimony	< 0.00300	mg/L	0.00300	0.00023		X845095	KWH	11/15/18 12:07	
EPA 6020B	Arsenic	< 0.00021	mg/L	0.00150	0.00021		X845095	KWH	11/15/18 12:07	U
EPA 6020B	Thallium	< 0.00100	mg/L	0.00100	0.00008		X845095	KWH	11/15/18 12:07	

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Project Name: North Fork 2018
Work Order: **X8K0022**
Reported: 19-Nov-18 14:48

Client Sample ID: **NF-SW19**
SVL Sample ID: **X8K0022-19 (Surface Water)**

Sampled: 31-Oct-18 10:30
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.00020	mg/L	0.00020	0.000093		X845228	DPW	11/16/18 12:36	
Metals (Total Recoverable)										
EPA 6010D	Aluminum	< 0.08	mg/L	0.08	0.05		X845055	DT	11/19/18 12:10	
EPA 6010D	**Barium**	0.0279	mg/L	0.0020	0.0019		X845055	DT	11/19/18 12:10	
EPA 6010D	Beryllium	< 0.0020	mg/L	0.0020	0.0017		X845055	DT	11/19/18 12:10	
EPA 6010D	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X845055	DT	11/19/18 12:10	
EPA 6010D	**Calcium**	4.67	mg/L	0.100	0.069		X845055	DT	11/19/18 12:10	
EPA 6010D	Chromium	< 0.0060	mg/L	0.0060	0.0020		X845055	DT	11/19/18 12:10	
EPA 6010D	Cobalt	< 0.0060	mg/L	0.0060	0.0016		X845055	DT	11/19/18 12:10	
EPA 6010D	Copper	< 0.0100	mg/L	0.0100	0.0027		X845055	DT	11/19/18 12:10	
EPA 6010D	**Iron**	0.104	mg/L	0.100	0.056		X845055	DT	11/19/18 12:10	
EPA 6010D	Lead	< 0.0075	mg/L	0.0075	0.0049		X845055	DT	11/19/18 12:10	
EPA 6010D	**Magnesium**	1.69	mg/L	0.50	0.32		X845055	DT	11/19/18 12:10	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0034		X845055	DT	11/19/18 12:10	
EPA 6010D	Nickel	< 0.0100	mg/L	0.0100	0.0023		X845055	DT	11/19/18 12:10	
EPA 6010D	Selenium	< 0.040	mg/L	0.040	0.012		X845055	DT	11/19/18 12:10	
EPA 6010D	Silver	< 0.0050	mg/L	0.0050	0.0019		X845055	DT	11/19/18 12:10	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X845055	DT	11/19/18 12:10	
EPA 6010D	**Zinc**	0.028	mg/L	0.010	0.005		X845055	DT	11/19/18 12:10	
EPA 6020B	Antimony	< 0.00300	mg/L	0.00300	0.00023		X845095	KWH	11/15/18 12:09	
EPA 6020B	Arsenic	< 0.00021	mg/L	0.00150	0.00021		X845095	KWH	11/15/18 12:09	U
EPA 6020B	Thallium	< 0.00100	mg/L	0.00100	0.00008		X845095	KWH	11/15/18 12:09	

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Project Name: North Fork 2018
Work Order: **X8K0022**
Reported: 19-Nov-18 14:48

Client Sample ID: **NF-SW20**
SVL Sample ID: **X8K0022-20 (Surface Water)**

Sampled: 31-Oct-18 11:20
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.00020	mg/L	0.00020	0.000093		X845228	DPW	11/16/18 12:41	
Metals (Total Recoverable)										
EPA 6010D	Aluminum	< 0.08	mg/L	0.08	0.05		X845055	DT	11/19/18 12:14	
EPA 6010D	**Barium**	0.0193	mg/L	0.0020	0.0019		X845055	DT	11/19/18 12:14	
EPA 6010D	Beryllium	< 0.0020	mg/L	0.0020	0.0017		X845055	DT	11/19/18 12:14	
EPA 6010D	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X845055	DT	11/19/18 12:14	
EPA 6010D	**Calcium**	3.73	mg/L	0.100	0.069		X845055	DT	11/19/18 12:14	
EPA 6010D	Chromium	< 0.0060	mg/L	0.0060	0.0020		X845055	DT	11/19/18 12:14	
EPA 6010D	Cobalt	< 0.0060	mg/L	0.0060	0.0016		X845055	DT	11/19/18 12:14	
EPA 6010D	Copper	< 0.0100	mg/L	0.0100	0.0027		X845055	DT	11/19/18 12:14	
EPA 6010D	Iron	< 0.100	mg/L	0.100	0.056		X845055	DT	11/19/18 12:14	
EPA 6010D	Lead	< 0.0075	mg/L	0.0075	0.0049		X845055	DT	11/19/18 12:14	
EPA 6010D	**Magnesium**	1.32	mg/L	0.50	0.32		X845055	DT	11/19/18 12:14	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0034		X845055	DT	11/19/18 12:14	
EPA 6010D	Nickel	< 0.0100	mg/L	0.0100	0.0023		X845055	DT	11/19/18 12:14	
EPA 6010D	Selenium	< 0.040	mg/L	0.040	0.012		X845055	DT	11/19/18 12:14	
EPA 6010D	Silver	< 0.0050	mg/L	0.0050	0.0019		X845055	DT	11/19/18 12:14	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X845055	DT	11/19/18 12:14	
EPA 6010D	**Zinc**	0.027	mg/L	0.010	0.005		X845055	DT	11/19/18 12:14	
EPA 6020B	Antimony	< 0.00300	mg/L	0.00300	0.00023		X845095	KWH	11/15/18 12:11	
EPA 6020B	**Arsenic**	0.00032	mg/L	0.00150	0.00021		X845095	KWH	11/15/18 12:11	J
EPA 6020B	Thallium	< 0.00100	mg/L	0.00100	0.00008		X845095	KWH	11/15/18 12:11	

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Project Name: North Fork 2018
Work Order: **X8K0022**
Reported: 19-Nov-18 14:48

Client Sample ID: **NF-SW21**
SVL Sample ID: **X8K0022-21 (Surface Water)**

Sampled: 31-Oct-18 11:40
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.00020	mg/L	0.00020	0.000093		X845228	DPW	11/16/18 12:43	
Metals (Total Recoverable)										
EPA 6010D	Aluminum	< 0.08	mg/L	0.08	0.05		X845055	DT	11/19/18 12:17	
EPA 6010D	**Barium**	0.0148	mg/L	0.0020	0.0019		X845055	DT	11/19/18 12:17	
EPA 6010D	Beryllium	< 0.0020	mg/L	0.0020	0.0017		X845055	DT	11/19/18 12:17	
EPA 6010D	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X845055	DT	11/19/18 12:17	
EPA 6010D	**Calcium**	3.30	mg/L	0.100	0.069		X845055	DT	11/19/18 12:17	
EPA 6010D	Chromium	< 0.0060	mg/L	0.0060	0.0020		X845055	DT	11/19/18 12:17	
EPA 6010D	Cobalt	< 0.0060	mg/L	0.0060	0.0016		X845055	DT	11/19/18 12:17	
EPA 6010D	Copper	< 0.0100	mg/L	0.0100	0.0027		X845055	DT	11/19/18 12:17	
EPA 6010D	Iron	< 0.100	mg/L	0.100	0.056		X845055	DT	11/19/18 12:17	
EPA 6010D	Lead	< 0.0075	mg/L	0.0075	0.0049		X845055	DT	11/19/18 12:17	
EPA 6010D	**Magnesium**	1.14	mg/L	0.50	0.32		X845055	DT	11/19/18 12:17	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0034		X845055	DT	11/19/18 12:17	
EPA 6010D	Nickel	< 0.0100	mg/L	0.0100	0.0023		X845055	DT	11/19/18 12:17	
EPA 6010D	Selenium	< 0.040	mg/L	0.040	0.012		X845055	DT	11/19/18 12:17	
EPA 6010D	Silver	< 0.0050	mg/L	0.0050	0.0019		X845055	DT	11/19/18 12:17	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X845055	DT	11/19/18 12:17	
EPA 6010D	**Zinc**	0.028	mg/L	0.010	0.005		X845055	DT	11/19/18 12:17	
EPA 6020B	Antimony	< 0.00300	mg/L	0.00300	0.00023		X845095	KWH	11/15/18 12:14	
EPA 6020B	**Arsenic**	0.00040	mg/L	0.00150	0.00021		X845095	KWH	11/15/18 12:14	J
EPA 6020B	Thallium	< 0.00100	mg/L	0.00100	0.00008		X845095	KWH	11/15/18 12:14	

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Project Name: North Fork 2018
Work Order: **X8K0022**
Reported: 19-Nov-18 14:48

Client Sample ID: **NF-SW22**
SVL Sample ID: **X8K0022-22 (Rinsate)**

Sampled: 31-Oct-18 12:15
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.00020	mg/L	0.00020	0.000093		X845228	DPW	11/16/18 13:00	
Metals (Total Recoverable)										
EPA 6010D	Aluminum	< 0.08	mg/L	0.08	0.05		X845055	DT	11/19/18 12:38	
EPA 6010D	Barium	< 0.0020	mg/L	0.0020	0.0019		X845055	DT	11/19/18 12:38	
EPA 6010D	Beryllium	< 0.0020	mg/L	0.0020	0.0017		X845055	DT	11/19/18 12:38	
EPA 6010D	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X845055	DT	11/19/18 12:38	
EPA 6010D	Calcium	< 0.100	mg/L	0.100	0.069		X845055	DT	11/19/18 12:38	
EPA 6010D	Chromium	< 0.0060	mg/L	0.0060	0.0020		X845055	DT	11/19/18 12:38	
EPA 6010D	Cobalt	< 0.0060	mg/L	0.0060	0.0016		X845055	DT	11/19/18 12:38	
EPA 6010D	Copper	< 0.0100	mg/L	0.0100	0.0027		X845055	DT	11/19/18 12:38	
EPA 6010D	Iron	< 0.100	mg/L	0.100	0.056		X845055	DT	11/19/18 12:38	
EPA 6010D	Lead	< 0.0075	mg/L	0.0075	0.0049		X845055	DT	11/19/18 12:38	
EPA 6010D	Magnesium	< 0.50	mg/L	0.50	0.32		X845055	DT	11/19/18 12:38	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0034		X845055	DT	11/19/18 12:38	
EPA 6010D	Nickel	< 0.0100	mg/L	0.0100	0.0023		X845055	DT	11/19/18 12:38	
EPA 6010D	Selenium	< 0.040	mg/L	0.040	0.012		X845055	DT	11/19/18 12:38	
EPA 6010D	Silver	< 0.0050	mg/L	0.0050	0.0019		X845055	DT	11/19/18 12:38	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X845055	DT	11/19/18 12:38	
EPA 6010D	Zinc	< 0.010	mg/L	0.010	0.005		X845055	DT	11/19/18 12:38	
EPA 6020B	Antimony	< 0.00300	mg/L	0.00300	0.00023		X845095	KWH	11/15/18 12:16	
EPA 6020B	Arsenic	< 0.00021	mg/L	0.00150	0.00021		X845095	KWH	11/15/18 12:16	U
EPA 6020B	Thallium	< 0.00100	mg/L	0.00100	0.00008		X845095	KWH	11/15/18 12:16	

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Kellogg, ID 83837

Project Name: North Fork 2018
Work Order: **X8K0022**
Reported: 19-Nov-18 14:48

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Metals (Total)								
EPA 7470A	Mercury	mg/L	<0.00020	0.000093	0.00020	X845226	16-Nov-18	
EPA 7470A	Mercury	mg/L	<0.00020	0.000093	0.00020	X845228	16-Nov-18	
Metals (Total Recoverable)								
EPA 6010D	Aluminum	mg/L	<0.08	0.05	0.08	X845054	19-Nov-18	
EPA 6010D	Aluminum	mg/L	<0.08	0.05	0.08	X845055	19-Nov-18	
EPA 6010D	Barium	mg/L	<0.0020	0.0019	0.0020	X845054	19-Nov-18	
EPA 6010D	Barium	mg/L	<0.0020	0.0019	0.0020	X845055	19-Nov-18	
EPA 6010D	Beryllium	mg/L	<0.0020	0.0017	0.0020	X845054	19-Nov-18	
EPA 6010D	Beryllium	mg/L	<0.0020	0.0017	0.0020	X845055	19-Nov-18	
EPA 6010D	Cadmium	mg/L	<0.0020	0.0016	0.0020	X845054	19-Nov-18	
EPA 6010D	Cadmium	mg/L	<0.0020	0.0016	0.0020	X845055	19-Nov-18	
EPA 6010D	Calcium	mg/L	<0.100	0.069	0.100	X845054	19-Nov-18	
EPA 6010D	Calcium	mg/L	<0.100	0.069	0.100	X845055	19-Nov-18	
EPA 6010D	Chromium	mg/L	<0.0060	0.0020	0.0060	X845054	19-Nov-18	
EPA 6010D	Chromium	mg/L	<0.0060	0.0020	0.0060	X845055	19-Nov-18	
EPA 6010D	Cobalt	mg/L	<0.0060	0.0016	0.0060	X845054	19-Nov-18	
EPA 6010D	Cobalt	mg/L	<0.0060	0.0016	0.0060	X845055	19-Nov-18	
EPA 6010D	Copper	mg/L	<0.0100	0.0027	0.0100	X845054	19-Nov-18	
EPA 6010D	Copper	mg/L	<0.0100	0.0027	0.0100	X845055	19-Nov-18	
EPA 6010D	Iron	mg/L	<0.100	0.056	0.100	X845054	19-Nov-18	
EPA 6010D	Iron	mg/L	<0.100	0.056	0.100	X845055	19-Nov-18	
EPA 6010D	Lead	mg/L	<0.0075	0.0049	0.0075	X845054	19-Nov-18	
EPA 6010D	Lead	mg/L	<0.0075	0.0049	0.0075	X845055	19-Nov-18	
EPA 6010D	Magnesium	mg/L	<0.50	0.32	0.50	X845054	19-Nov-18	
EPA 6010D	Magnesium	mg/L	<0.50	0.32	0.50	X845055	19-Nov-18	
EPA 6010D	Manganese	mg/L	<0.0080	0.0034	0.0080	X845054	19-Nov-18	
EPA 6010D	Manganese	mg/L	<0.0080	0.0034	0.0080	X845055	19-Nov-18	
EPA 6010D	Nickel	mg/L	<0.0100	0.0023	0.0100	X845054	19-Nov-18	
EPA 6010D	Nickel	mg/L	<0.0100	0.0023	0.0100	X845055	19-Nov-18	
EPA 6010D	Selenium	mg/L	<0.040	0.012	0.040	X845054	19-Nov-18	
EPA 6010D	Selenium	mg/L	<0.040	0.012	0.040	X845055	19-Nov-18	
EPA 6010D	Silver	mg/L	<0.0050	0.0019	0.0050	X845054	19-Nov-18	
EPA 6010D	Silver	mg/L	<0.0050	0.0019	0.0050	X845055	19-Nov-18	
EPA 6010D	Vanadium	mg/L	<0.0050	0.0019	0.0050	X845054	19-Nov-18	
EPA 6010D	Vanadium	mg/L	<0.0050	0.0019	0.0050	X845055	19-Nov-18	
EPA 6010D	Zinc	mg/L	<0.010	0.005	0.010	X845054	19-Nov-18	
EPA 6010D	Zinc	mg/L	<0.010	0.005	0.010	X845055	19-Nov-18	
EPA 6020B	Antimony	mg/L	<0.00300	0.00023	0.00300	X845095	15-Nov-18	
EPA 6020B	Antimony	mg/L	<0.00300	0.00023	0.00300	X845097	15-Nov-18	
EPA 6020B	Arsenic	mg/L	<0.00021	0.00021	0.00150	X845095	15-Nov-18	
EPA 6020B	Arsenic	mg/L	<0.00021	0.00021	0.00150	X845097	15-Nov-18	
EPA 6020B	Thallium	mg/L	<0.00100	0.00008	0.00100	X845095	15-Nov-18	
EPA 6020B	Thallium	mg/L	<0.00100	0.00008	0.00100	X845097	15-Nov-18	

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Total)									
EPA 7470A	Mercury	mg/L	0.00532	0.00500	106	80 - 120	X845228	16-Nov-18	
EPA 7470A	Mercury	mg/L	0.00519	0.00500	104	80 - 120	X845226	16-Nov-18	
Metals (Total Recoverable)									
EPA 6010D	Aluminum	mg/L	0.97	1.00	97.0	80 - 120	X845054	19-Nov-18	
EPA 6010D	Aluminum	mg/L	0.97	1.00	97.0	80 - 120	X845055	19-Nov-18	
EPA 6010D	Barium	mg/L	1.00	1.00	100	80 - 120	X845054	19-Nov-18	

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Project Name: North Fork 2018
Work Order: **X8K0022**
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Quality Control - LABORATORY CONTROL SAMPLE Data (Continued)

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Total Recoverable) (Continued)									
EPA 6010D	Barium	mg/L	1.01	1.00	101	80 - 120	X845055	19-Nov-18	
EPA 6010D	Beryllium	mg/L	0.994	1.00	99.4	80 - 120	X845054	19-Nov-18	
EPA 6010D	Beryllium	mg/L	0.994	1.00	99.4	80 - 120	X845055	19-Nov-18	
EPA 6010D	Cadmium	mg/L	1.04	1.00	104	80 - 120	X845054	19-Nov-18	
EPA 6010D	Cadmium	mg/L	1.04	1.00	104	80 - 120	X845055	19-Nov-18	
EPA 6010D	Calcium	mg/L	18.4	20.0	91.9	80 - 120	X845054	19-Nov-18	
EPA 6010D	Calcium	mg/L	18.5	20.0	92.5	80 - 120	X845055	19-Nov-18	
EPA 6010D	Chromium	mg/L	0.982	1.00	98.2	80 - 120	X845054	19-Nov-18	
EPA 6010D	Chromium	mg/L	0.990	1.00	99.0	80 - 120	X845055	19-Nov-18	
EPA 6010D	Cobalt	mg/L	1.03	1.00	103	80 - 120	X845054	19-Nov-18	
EPA 6010D	Cobalt	mg/L	1.03	1.00	103	80 - 120	X845055	19-Nov-18	
EPA 6010D	Copper	mg/L	0.986	1.00	98.6	80 - 120	X845054	19-Nov-18	
EPA 6010D	Copper	mg/L	0.982	1.00	98.2	80 - 120	X845055	19-Nov-18	
EPA 6010D	Iron	mg/L	9.82	10.0	98.2	80 - 120	X845054	19-Nov-18	
EPA 6010D	Iron	mg/L	9.73	10.0	97.3	80 - 120	X845055	19-Nov-18	
EPA 6010D	Lead	mg/L	0.983	1.00	98.3	80 - 120	X845054	19-Nov-18	
EPA 6010D	Lead	mg/L	0.993	1.00	99.3	80 - 120	X845055	19-Nov-18	
EPA 6010D	Magnesium	mg/L	20.1	20.0	100	80 - 120	X845054	19-Nov-18	
EPA 6010D	Magnesium	mg/L	19.9	20.0	99.7	80 - 120	X845055	19-Nov-18	
EPA 6010D	Manganese	mg/L	0.973	1.00	97.3	80 - 120	X845054	19-Nov-18	
EPA 6010D	Manganese	mg/L	0.974	1.00	97.4	80 - 120	X845055	19-Nov-18	
EPA 6010D	Nickel	mg/L	0.988	1.00	98.8	80 - 120	X845054	19-Nov-18	
EPA 6010D	Nickel	mg/L	0.996	1.00	99.6	80 - 120	X845055	19-Nov-18	
EPA 6010D	Selenium	mg/L	1.02	1.00	102	80 - 120	X845054	19-Nov-18	
EPA 6010D	Selenium	mg/L	1.03	1.00	103	80 - 120	X845055	19-Nov-18	
EPA 6010D	Silver	mg/L	0.0508	0.0500	102	80 - 120	X845054	19-Nov-18	
EPA 6010D	Silver	mg/L	0.0510	0.0500	102	80 - 120	X845055	19-Nov-18	
EPA 6010D	Vanadium	mg/L	1.03	1.00	103	80 - 120	X845054	19-Nov-18	
EPA 6010D	Vanadium	mg/L	1.03	1.00	103	80 - 120	X845055	19-Nov-18	
EPA 6010D	Zinc	mg/L	0.971	1.00	97.1	80 - 120	X845054	19-Nov-18	
EPA 6010D	Zinc	mg/L	0.986	1.00	98.6	80 - 120	X845055	19-Nov-18	
EPA 6020B	Antimony	mg/L	0.0260	0.0250	104	80 - 120	X845097	15-Nov-18	
EPA 6020B	Antimony	mg/L	0.0263	0.0250	105	80 - 120	X845095	15-Nov-18	
EPA 6020B	Arsenic	mg/L	0.0251	0.0250	100	80 - 120	X845097	15-Nov-18	
EPA 6020B	Arsenic	mg/L	0.0249	0.0250	99.6	80 - 120	X845095	15-Nov-18	
EPA 6020B	Thallium	mg/L	0.0248	0.0250	99.1	80 - 120	X845097	15-Nov-18	
EPA 6020B	Thallium	mg/L	0.0254	0.0250	101	80 - 120	X845095	15-Nov-18	

Quality Control - MATRIX SPIKE Data

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Recovery	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	mg/L	0.00108	<0.00020	0.00100	108	75 - 125	X845228	16-Nov-18	
EPA 7470A	Mercury	mg/L	0.00109	<0.00020	0.00100	109	75 - 125	X845226	16-Nov-18	
EPA 7470A	Mercury	mg/L	0.00109	<0.00020	0.00100	109	75 - 125	X845226	16-Nov-18	
Metals (Total Recoverable)										
EPA 6010D	Aluminum	mg/L	1.00	<0.08	1.00	99.8	75 - 125	X845054	19-Nov-18	
EPA 6010D	Aluminum	mg/L	0.96	<0.08	1.00	96.3	75 - 125	X845055	19-Nov-18	
EPA 6010D	Barium	mg/L	1.05	0.0256	1.00	102	75 - 125	X845054	19-Nov-18	
EPA 6010D	Barium	mg/L	0.998	<0.0020	1.00	99.8	75 - 125	X845055	19-Nov-18	
EPA 6010D	Beryllium	mg/L	1.01	<0.0020	1.00	101	75 - 125	X845054	19-Nov-18	
EPA 6010D	Beryllium	mg/L	0.984	<0.0020	1.00	98.4	75 - 125	X845055	19-Nov-18	

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Work Order: **X8K0022**
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Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Recovery	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Total Recoverable) (Continued)										
EPA 6010D	Cadmium	mg/L	1.04	<0.0020	1.00	104	75 - 125	X845054	19-Nov-18	
EPA 6010D	Cadmium	mg/L	1.03	<0.0020	1.00	103	75 - 125	X845055	19-Nov-18	
EPA 6010D	Calcium	mg/L	36.0	17.5	20.0	92.7	75 - 125	X845054	19-Nov-18	
EPA 6010D	Calcium	mg/L	18.3	<0.100	20.0	91.4	75 - 125	X845055	19-Nov-18	
EPA 6010D	Chromium	mg/L	0.989	<0.0060	1.00	98.9	75 - 125	X845054	19-Nov-18	
EPA 6010D	Chromium	mg/L	0.987	<0.0060	1.00	98.7	75 - 125	X845055	19-Nov-18	
EPA 6010D	Cobalt	mg/L	1.03	<0.0060	1.00	103	75 - 125	X845054	19-Nov-18	
EPA 6010D	Cobalt	mg/L	1.02	<0.0060	1.00	102	75 - 125	X845055	19-Nov-18	
EPA 6010D	Copper	mg/L	0.985	<0.0100	1.00	98.5	75 - 125	X845054	19-Nov-18	
EPA 6010D	Copper	mg/L	0.979	<0.0100	1.00	97.9	75 - 125	X845055	19-Nov-18	
EPA 6010D	Iron	mg/L	9.82	<0.100	10.0	98.2	75 - 125	X845054	19-Nov-18	
EPA 6010D	Iron	mg/L	9.64	<0.100	10.0	96.4	75 - 125	X845055	19-Nov-18	
EPA 6010D	Lead	mg/L	0.991	<0.0075	1.00	99.1	75 - 125	X845054	19-Nov-18	
EPA 6010D	Lead	mg/L	0.979	<0.0075	1.00	97.9	75 - 125	X845055	19-Nov-18	
EPA 6010D	Magnesium	mg/L	27.0	6.84	20.0	101	75 - 125	X845054	19-Nov-18	
EPA 6010D	Magnesium	mg/L	19.7	<0.50	20.0	98.4	75 - 125	X845055	19-Nov-18	
EPA 6010D	Manganese	mg/L	0.983	<0.0080	1.00	98.3	75 - 125	X845054	19-Nov-18	
EPA 6010D	Manganese	mg/L	0.962	<0.0080	1.00	96.2	75 - 125	X845055	19-Nov-18	
EPA 6010D	Nickel	mg/L	0.992	<0.0100	1.00	99.2	75 - 125	X845054	19-Nov-18	
EPA 6010D	Nickel	mg/L	0.986	<0.0100	1.00	98.6	75 - 125	X845055	19-Nov-18	
EPA 6010D	Selenium	mg/L	1.03	<0.040	1.00	103	75 - 125	X845054	19-Nov-18	
EPA 6010D	Selenium	mg/L	1.01	<0.040	1.00	101	75 - 125	X845055	19-Nov-18	
EPA 6010D	Silver	mg/L	0.0505	<0.0050	0.0500	101	75 - 125	X845054	19-Nov-18	
EPA 6010D	Silver	mg/L	0.0510	<0.0050	0.0500	102	75 - 125	X845055	19-Nov-18	
EPA 6010D	Vanadium	mg/L	1.03	<0.0050	1.00	103	75 - 125	X845054	19-Nov-18	
EPA 6010D	Vanadium	mg/L	1.03	<0.0050	1.00	103	75 - 125	X845055	19-Nov-18	
EPA 6010D	Zinc	mg/L	0.978	<0.010	1.00	97.8	75 - 125	X845054	19-Nov-18	
EPA 6010D	Zinc	mg/L	0.972	<0.010	1.00	97.2	75 - 125	X845055	19-Nov-18	
EPA 6020B	Antimony	mg/L	0.0263	<0.00300	0.0250	105	75 - 125	X845097	15-Nov-18	
EPA 6020B	Antimony	mg/L	0.0260	<0.00300	0.0250	104	75 - 125	X845095	15-Nov-18	
EPA 6020B	Arsenic	mg/L	0.0255	0.00025	0.0250	101	75 - 125	X845097	15-Nov-18	
EPA 6020B	Arsenic	mg/L	0.0256	<0.00021	0.0250	102	75 - 125	X845095	15-Nov-18	
EPA 6020B	Thallium	mg/L	0.0247	<0.00100	0.0250	98.9	75 - 125	X845097	15-Nov-18	
EPA 6020B	Thallium	mg/L	0.0250	<0.00100	0.0250	100	75 - 125	X845095	15-Nov-18	

Quality Control - MATRIX SPIKE DUPLICATE Data

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	% Rec.	RPD	RPD Limit	Batch ID	Analyzed	Notes
Metals (Total)											
EPA 7470A	Mercury	mg/L	0.00113	0.00109	0.00100	113	3.6	20	X845226	16-Nov-18	
EPA 7470A	Mercury	mg/L	0.00110	0.00108	0.00100	110	1.9	20	X845228	16-Nov-18	
Metals (Total Recoverable)											
EPA 6010D	Aluminum	mg/L	0.98	1.00	1.00	97.6	2.3	20	X845054	19-Nov-18	
EPA 6010D	Aluminum	mg/L	0.97	0.96	1.00	97.4	1.1	20	X845055	19-Nov-18	
EPA 6010D	Barium	mg/L	1.03	1.05	1.00	100	2.2	20	X845054	19-Nov-18	
EPA 6010D	Barium	mg/L	1.01	0.998	1.00	101	1.5	20	X845055	19-Nov-18	
EPA 6010D	Beryllium	mg/L	0.987	1.01	1.00	98.7	2.3	20	X845054	19-Nov-18	
EPA 6010D	Beryllium	mg/L	0.998	0.984	1.00	99.8	1.5	20	X845055	19-Nov-18	
EPA 6010D	Cadmium	mg/L	1.02	1.04	1.00	102	2.0	20	X845054	19-Nov-18	
EPA 6010D	Cadmium	mg/L	1.05	1.03	1.00	105	2.1	20	X845055	19-Nov-18	
EPA 6010D	Calcium	mg/L	35.4	36.0	20.0	89.6	1.7	20	X845054	19-Nov-18	
EPA 6010D	Calcium	mg/L	18.6	18.3	20.0	93.0	1.7	20	X845055	19-Nov-18	

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Project Name: North Fork 2018
Work Order: **X8K0022**
Reported: 19-Nov-18 14:48

Quality Control - MATRIX SPIKE DUPLICATE Data (Continued)

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	% Rec.	RPD	RPD Limit	Batch ID	Analyzed	Notes
Metals (Total Recoverable) (Continued)											
EPA 6010D	Chromium	mg/L	0.976	0.989	1.00	97.6	1.4	20	X845054	19-Nov-18	
EPA 6010D	Chromium	mg/L	0.983	0.987	1.00	98.3	0.5	20	X845055	19-Nov-18	
EPA 6010D	Cobalt	mg/L	1.01	1.03	1.00	101	1.7	20	X845054	19-Nov-18	
EPA 6010D	Cobalt	mg/L	1.04	1.02	1.00	104	2.4	20	X845055	19-Nov-18	
EPA 6010D	Copper	mg/L	0.968	0.985	1.00	96.8	1.8	20	X845054	19-Nov-18	
EPA 6010D	Copper	mg/L	0.974	0.979	1.00	97.4	0.5	20	X845055	19-Nov-18	
EPA 6010D	Iron	mg/L	9.66	9.82	10.0	96.6	1.6	20	X845054	19-Nov-18	
EPA 6010D	Iron	mg/L	9.81	9.64	10.0	98.1	1.8	20	X845055	19-Nov-18	
EPA 6010D	Lead	mg/L	0.971	0.991	1.00	97.1	2.0	20	X845054	19-Nov-18	
EPA 6010D	Lead	mg/L	1.00	0.979	1.00	100	2.3	20	X845055	19-Nov-18	
EPA 6010D	Magnesium	mg/L	26.5	27.0	20.0	98.4	1.9	20	X845054	19-Nov-18	
EPA 6010D	Magnesium	mg/L	20.1	19.7	20.0	100	2.1	20	X845055	19-Nov-18	
EPA 6010D	Manganese	mg/L	0.967	0.983	1.00	96.7	1.6	20	X845054	19-Nov-18	
EPA 6010D	Manganese	mg/L	0.982	0.962	1.00	98.2	2.1	20	X845055	19-Nov-18	
EPA 6010D	Nickel	mg/L	0.974	0.992	1.00	97.4	1.8	20	X845054	19-Nov-18	
EPA 6010D	Nickel	mg/L	1.01	0.986	1.00	101	2.2	20	X845055	19-Nov-18	
EPA 6010D	Selenium	mg/L	1.00	1.03	1.00	100	2.3	20	X845054	19-Nov-18	
EPA 6010D	Selenium	mg/L	1.04	1.01	1.00	104	2.0	20	X845055	19-Nov-18	
EPA 6010D	Silver	mg/L	0.0504	0.0505	0.0500	101	0.2	20	X845054	19-Nov-18	
EPA 6010D	Silver	mg/L	0.0502	0.0510	0.0500	100	1.5	20	X845055	19-Nov-18	
EPA 6010D	Vanadium	mg/L	1.02	1.03	1.00	102	1.5	20	X845054	19-Nov-18	
EPA 6010D	Vanadium	mg/L	1.02	1.03	1.00	102	0.6	20	X845055	19-Nov-18	
EPA 6010D	Zinc	mg/L	0.964	0.978	1.00	96.4	1.4	20	X845054	19-Nov-18	
EPA 6010D	Zinc	mg/L	0.994	0.972	1.00	99.4	2.2	20	X845055	19-Nov-18	
EPA 6020B	Antimony	mg/L	0.0257	0.0260	0.0250	103	1.4	20	X845095	15-Nov-18	
EPA 6020B	Antimony	mg/L	0.0266	0.0263	0.0250	106	1.1	20	X845097	15-Nov-18	
EPA 6020B	Arsenic	mg/L	0.0251	0.0256	0.0250	101	1.7	20	X845095	15-Nov-18	
EPA 6020B	Arsenic	mg/L	0.0255	0.0255	0.0250	101	0.0	20	X845097	15-Nov-18	
EPA 6020B	Thallium	mg/L	0.0250	0.0250	0.0250	100	0.1	20	X845095	15-Nov-18	
EPA 6020B	Thallium	mg/L	0.0249	0.0247	0.0250	99.5	0.6	20	X845097	15-Nov-18	

Notes and Definitions

D1	Sample required dilution due to matrix.
LCS	Laboratory Control Sample (Blank Spike)
RPD	Relative Percent Difference
UDL	A result is less than the detection limit
0.30R>S	% recovery not applicable; spike level is less than 30% of the sample concentration
<RL	A result is less than the reporting limit
MRL	Method Reporting Limit
MDL	Method Detection Limit
N/A	Not Applicable

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Project Name: North Fork 2018
Work Order: **X8K0029**
Reported: 20-Nov-18 13:38

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
NF-SD1	X8K0029-01	Sediment	29-Oct-18 09:25	GM	01-Nov-2018	
NF-SD2	X8K0029-02	Sediment	29-Oct-18 09:35	GM	01-Nov-2018	
NF-SD3	X8K0029-03	Sediment	29-Oct-18 09:40	GM	01-Nov-2018	
NF-SD4	X8K0029-04	Sediment	29-Oct-18 10:15	GM	01-Nov-2018	
NF-SD5	X8K0029-05	Sediment	29-Oct-18 10:50	GM	01-Nov-2018	
NF-SD6	X8K0029-06	Sediment	29-Oct-18 11:25	GM	01-Nov-2018	
NF-SD7	X8K0029-07	Sediment	29-Oct-18 11:30	GM	01-Nov-2018	
NF-SD8	X8K0029-08	Sediment	29-Oct-18 11:55	GM	01-Nov-2018	
NF-SD9	X8K0029-09	Sediment	29-Oct-18 12:20	GM	01-Nov-2018	
NF-SD10	X8K0029-10	Sediment	29-Oct-18 12:35	GM	01-Nov-2018	
NF-SD11	X8K0029-11	Sediment	29-Oct-18 13:55	GM	01-Nov-2018	
NF-SD12	X8K0029-12	Sediment	30-Oct-18 10:45	GM	01-Nov-2018	
NF-SD13	X8K0029-13	Sediment	30-Oct-18 11:25	GM	01-Nov-2018	
NF-SD14	X8K0029-14	Sediment	30-Oct-18 11:45	GM	01-Nov-2018	
NF-SD15	X8K0029-15	Sediment	30-Oct-18 12:15	GM	01-Nov-2018	
NF-SD16	X8K0029-16	Sediment	30-Oct-18 12:40	GM	01-Nov-2018	
NF-SD17	X8K0029-17	Sediment	30-Oct-18 12:40	GM	01-Nov-2018	
NF-SD18	X8K0029-18	Sediment	30-Oct-18 13:00	GM	01-Nov-2018	
NF-SD19	X8K0029-19	Sediment	30-Oct-18 13:05	GM	01-Nov-2018	
NF-SD20	X8K0029-20	Sediment	30-Oct-18 13:25	GM	01-Nov-2018	

Solid samples are analyzed on an as-received, wet-weight basis, unless otherwise requested.
Sample preparation is defined by the client as per their Data Quality Objectives.
This report supercedes any previous reports for this Work Order. The complete report includes pages for each sample, a full QC report, and a notes section.
Analyses were performed in accordance with SVL standard operating procedures and calibrations were performed and met SVL internal QC criteria.
The results presented in this report relate only to the samples, and meet all requirements of the NELAC Standards unless otherwise noted.

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108 W. Idaho Street
Kellogg, ID 83837

Project Name: North Fork 2018
Work Order: **X8K0029**
Reported: 20-Nov-18 13:38

Client Sample ID: **NF-SD1**
SVL Sample ID: **X8K0029-01 (Sediment)**

Sampled: 29-Oct-18 09:25
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 6020B	**Antimony**	0.900	mg/kg dry wt. dry	0.300	0.071	2	X845075	KWH	11/16/18 07:10	D1
EPA 6020B	**Arsenic**	5.96	mg/kg dry wt. dry	0.367	0.161	2	X845073	KWH	11/15/18 12:33	D1
EPA 6020B	Thallium	< 0.100	mg/kg dry wt. dry	0.100	0.0130	2	X845073	KWH	11/15/18 12:33	D1
Metals (Total) by EPA 6000/7000 Methods										
EPA 6010D	**Aluminum**	5890	mg/kg dry wt. dry	9.8	6.1		X845068	DT	11/19/18 07:51	
EPA 6010D	**Barium**	68.9	mg/kg dry wt. dry	0.24	0.22		X845068	DT	11/19/18 07:51	
EPA 6010D	**Beryllium**	0.27	mg/kg dry wt. dry	0.24	0.10		X845068	DT	11/19/18 07:51	
EPA 6010D	**Cadmium**	0.25	mg/kg dry wt. dry	0.24	0.07		X845068	DT	11/19/18 07:51	
EPA 6010D	**Calcium**	1630	mg/kg dry wt. dry	12.2	6.0		X845068	DT	11/19/18 07:51	
EPA 6010D	**Chromium**	8.92	mg/kg dry wt. dry	0.73	0.24		X845068	DT	11/19/18 07:51	
EPA 6010D	**Cobalt**	8.31	mg/kg dry wt. dry	0.73	0.09		X845068	DT	11/19/18 07:51	
EPA 6010D	**Copper**	19.2	mg/kg dry wt. dry	1.22	0.20		X845068	DT	11/19/18 07:51	
EPA 6010D	**Iron**	14500	mg/kg dry wt. dry	12.2	8.1		X845068	DT	11/19/18 07:51	
EPA 6010D	**Lead**	45.4	mg/kg dry wt. dry	0.9	0.4		X845068	DT	11/19/18 07:51	
EPA 6010D	**Magnesium**	3100	mg/kg dry wt. dry	24.4	14.7		X845068	DT	11/19/18 07:51	
EPA 6010D	**Manganese**	331	mg/kg dry wt. dry	0.98	0.34		X845068	DT	11/19/18 07:51	
EPA 6010D	**Nickel**	7.19	mg/kg dry wt. dry	1.22	0.29		X845068	DT	11/19/18 07:51	
EPA 6010D	Selenium	< 4.9	mg/kg dry wt. dry	4.9	1.3		X845068	DT	11/19/18 07:51	
EPA 6010D	Silver	< 0.61	mg/kg dry wt. dry	0.61	0.24		X845068	DT	11/19/18 07:51	
EPA 6010D	**Vanadium**	7.37	mg/kg dry wt. dry	0.61	0.20		X845068	DT	11/19/18 07:51	
EPA 6010D	**Zinc**	382	mg/kg dry wt. dry	1.2	0.4		X845068	DT	11/19/18 07:51	
EPA 7471B	Mercury	< 0.040	mg/kg dry wt. dry	0.040	0.013		X845251	MWD	11/16/18 11:40	
Percent Solids / Percent Moisture										
Percent Solids	**% Solids**	81.8	%	0.1			X845076	JAA	11/07/18 08:45	

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

Connor Williams
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Kellogg, ID 83837

Project Name: North Fork 2018
Work Order: **X8K0029**
Reported: 20-Nov-18 13:38

Client Sample ID: **NF-SD2**
SVL Sample ID: **X8K0029-02 (Sediment)**

Sampled: 29-Oct-18 09:35
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 6020B	**Antimony**	0.573	mg/kg dry wt. dry	0.300	0.069	2	X845075	KWH	11/16/18 07:13	D1
EPA 6020B	**Arsenic**	4.85	mg/kg dry wt. dry	0.358	0.158	2	X845073	KWH	11/15/18 12:35	D1
EPA 6020B	Thallium	< 0.100	mg/kg dry wt. dry	0.100	0.0127	2	X845073	KWH	11/15/18 12:35	D1
Metals (Total) by EPA 6000/7000 Methods										
EPA 6010D	**Aluminum**	6060	mg/kg dry wt. dry	9.6	6.0		X845068	DT	11/19/18 07:54	
EPA 6010D	**Barium**	57.4	mg/kg dry wt. dry	0.24	0.22		X845068	DT	11/19/18 07:54	
EPA 6010D	**Beryllium**	0.37	mg/kg dry wt. dry	0.24	0.10		X845068	DT	11/19/18 07:54	
EPA 6010D	Cadmium	< 0.24	mg/kg dry wt. dry	0.24	0.07		X845068	DT	11/19/18 07:54	
EPA 6010D	**Calcium**	745	mg/kg dry wt. dry	11.9	5.9		X845068	DT	11/19/18 07:54	
EPA 6010D	**Chromium**	7.36	mg/kg dry wt. dry	0.72	0.24		X845068	DT	11/19/18 07:54	
EPA 6010D	**Cobalt**	5.10	mg/kg dry wt. dry	0.72	0.09		X845068	DT	11/19/18 07:54	
EPA 6010D	**Copper**	12.3	mg/kg dry wt. dry	1.19	0.19		X845068	DT	11/19/18 07:54	
EPA 6010D	**Iron**	11300	mg/kg dry wt. dry	11.9	7.9		X845068	DT	11/19/18 07:54	
EPA 6010D	**Lead**	20.1	mg/kg dry wt. dry	0.9	0.4		X845068	DT	11/19/18 07:54	
EPA 6010D	**Magnesium**	3040	mg/kg dry wt. dry	23.9	14.3		X845068	DT	11/19/18 07:54	
EPA 6010D	**Manganese**	274	mg/kg dry wt. dry	0.96	0.33		X845068	DT	11/19/18 07:54	
EPA 6010D	**Nickel**	7.78	mg/kg dry wt. dry	1.19	0.29		X845068	DT	11/19/18 07:54	
EPA 6010D	Selenium	< 4.8	mg/kg dry wt. dry	4.8	1.3		X845068	DT	11/19/18 07:54	
EPA 6010D	Silver	< 0.60	mg/kg dry wt. dry	0.60	0.24		X845068	DT	11/19/18 07:54	
EPA 6010D	**Vanadium**	8.50	mg/kg dry wt. dry	0.60	0.19		X845068	DT	11/19/18 07:54	
EPA 6010D	**Zinc**	65.5	mg/kg dry wt. dry	1.2	0.4		X845068	DT	11/19/18 07:54	
EPA 7471B	Mercury	< 0.039	mg/kg dry wt. dry	0.039	0.013		X845251	MWD	11/16/18 11:42	
Percent Solids / Percent Moisture										
Percent Solids	**% Solids**	83.7	%	0.1			X845076	JAA	11/07/18 08:45	

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Project Name: North Fork 2018
Work Order: **X8K0029**
Reported: 20-Nov-18 13:38

Client Sample ID: **NF-SD3**
SVL Sample ID: **X8K0029-03 (Sediment)**

Sampled: 29-Oct-18 09:40
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 6020B	**Antimony**	0.641	mg/kg dry wt. dry	0.300	0.066	2	X845075	KWH	11/16/18 07:15	D1
EPA 6020B	**Arsenic**	6.08	mg/kg dry wt. dry	0.341	0.150	2	X845073	KWH	11/15/18 12:37	D1
EPA 6020B	Thallium	< 0.100	mg/kg dry wt. dry	0.100	0.0120	2	X845073	KWH	11/15/18 12:37	D1
Metals (Total) by EPA 6000/7000 Methods										
EPA 6010D	**Aluminum**	6330	mg/kg dry wt. dry	9.1	5.7		X845068	DT	11/19/18 07:58	
EPA 6010D	**Barium**	33.0	mg/kg dry wt. dry	0.23	0.20		X845068	DT	11/19/18 07:58	
EPA 6010D	**Beryllium**	0.36	mg/kg dry wt. dry	0.23	0.09		X845068	DT	11/19/18 07:58	
EPA 6010D	Cadmium	< 0.23	mg/kg dry wt. dry	0.23	0.06		X845068	DT	11/19/18 07:58	
EPA 6010D	**Calcium**	615	mg/kg dry wt. dry	11.4	5.6		X845068	DT	11/19/18 07:58	
EPA 6010D	**Chromium**	10.8	mg/kg dry wt. dry	0.68	0.23		X845068	DT	11/19/18 07:58	
EPA 6010D	**Cobalt**	3.67	mg/kg dry wt. dry	0.68	0.08		X845068	DT	11/19/18 07:58	
EPA 6010D	**Copper**	9.47	mg/kg dry wt. dry	1.14	0.18		X845068	DT	11/19/18 07:58	
EPA 6010D	**Iron**	13900	mg/kg dry wt. dry	11.4	7.5		X845068	DT	11/19/18 07:58	
EPA 6010D	**Lead**	17.3	mg/kg dry wt. dry	0.9	0.4		X845068	DT	11/19/18 07:58	
EPA 6010D	**Magnesium**	4630	mg/kg dry wt. dry	22.7	13.6		X845068	DT	11/19/18 07:58	
EPA 6010D	**Manganese**	160	mg/kg dry wt. dry	0.91	0.32		X845068	DT	11/19/18 07:58	
EPA 6010D	**Nickel**	8.39	mg/kg dry wt. dry	1.14	0.27		X845068	DT	11/19/18 07:58	
EPA 6010D	Selenium	< 4.5	mg/kg dry wt. dry	4.5	1.2		X845068	DT	11/19/18 07:58	
EPA 6010D	Silver	< 0.57	mg/kg dry wt. dry	0.57	0.23		X845068	DT	11/19/18 07:58	
EPA 6010D	**Vanadium**	11.4	mg/kg dry wt. dry	0.57	0.18		X845068	DT	11/19/18 07:58	
EPA 6010D	**Zinc**	46.6	mg/kg dry wt. dry	1.1	0.4		X845068	DT	11/19/18 07:58	
EPA 7471B	Mercury	< 0.037	mg/kg dry wt. dry	0.037	0.012		X845251	MWD	11/16/18 11:44	
Percent Solids / Percent Moisture										
Percent Solids	**% Solids**	88.1	%	0.1			X845076	JAA	11/07/18 08:45	

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Project Name: North Fork 2018
Work Order: **X8K0029**
Reported: 20-Nov-18 13:38

Client Sample ID: **NF-SD4**
SVL Sample ID: **X8K0029-04 (Sediment)**

Sampled: 29-Oct-18 10:15
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 6020B	**Antimony**	0.394	mg/kg dry wt. dry	0.300	0.063	2	X845075	KWH	11/16/18 07:17	D1
EPA 6020B	**Arsenic**	4.31	mg/kg dry wt. dry	0.328	0.144	2	X845073	KWH	11/15/18 12:39	D1
EPA 6020B	Thallium	< 0.100	mg/kg dry wt. dry	0.100	0.0116	2	X845073	KWH	11/15/18 12:39	D1
Metals (Total) by EPA 6000/7000 Methods										
EPA 6010D	**Aluminum**	3990	mg/kg dry wt. dry	8.7	5.5		X845068	DT	11/19/18 08:02	
EPA 6010D	**Barium**	31.2	mg/kg dry wt. dry	0.22	0.20		X845068	DT	11/19/18 08:02	
EPA 6010D	**Beryllium**	0.27	mg/kg dry wt. dry	0.22	0.09		X845068	DT	11/19/18 08:02	
EPA 6010D	Cadmium	< 0.22	mg/kg dry wt. dry	0.22	0.06		X845068	DT	11/19/18 08:02	
EPA 6010D	**Calcium**	452	mg/kg dry wt. dry	10.9	5.4		X845068	DT	11/19/18 08:02	
EPA 6010D	**Chromium**	4.83	mg/kg dry wt. dry	0.66	0.22		X845068	DT	11/19/18 08:02	
EPA 6010D	**Cobalt**	2.63	mg/kg dry wt. dry	0.66	0.08		X845068	DT	11/19/18 08:02	
EPA 6010D	**Copper**	6.87	mg/kg dry wt. dry	1.09	0.17		X845068	DT	11/19/18 08:02	
EPA 6010D	**Iron**	9660	mg/kg dry wt. dry	10.9	7.2		X845068	DT	11/19/18 08:02	
EPA 6010D	**Lead**	5.0	mg/kg dry wt. dry	0.8	0.4		X845068	DT	11/19/18 08:02	
EPA 6010D	**Magnesium**	2010	mg/kg dry wt. dry	21.8	13.1		X845068	DT	11/19/18 08:02	
EPA 6010D	**Manganese**	157	mg/kg dry wt. dry	0.87	0.31		X845068	DT	11/19/18 08:02	
EPA 6010D	**Nickel**	3.67	mg/kg dry wt. dry	1.09	0.26		X845068	DT	11/19/18 08:02	
EPA 6010D	Selenium	< 4.4	mg/kg dry wt. dry	4.4	1.2		X845068	DT	11/19/18 08:02	
EPA 6010D	Silver	< 0.55	mg/kg dry wt. dry	0.55	0.22		X845068	DT	11/19/18 08:02	
EPA 6010D	**Vanadium**	5.97	mg/kg dry wt. dry	0.55	0.17		X845068	DT	11/19/18 08:02	
EPA 6010D	**Zinc**	27.0	mg/kg dry wt. dry	1.1	0.4		X845068	DT	11/19/18 08:02	
EPA 7471B	Mercury	< 0.036	mg/kg dry wt. dry	0.036	0.012		X845251	MWD	11/16/18 11:47	
Percent Solids / Percent Moisture										
Percent Solids	**% Solids**	91.5	%	0.1			X845076	JAA	11/07/18 08:45	

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Kellogg, ID 83837

Project Name: North Fork 2018
Work Order: **X8K0029**
Reported: 20-Nov-18 13:38

Client Sample ID: **NF-SD5**
SVL Sample ID: **X8K0029-05 (Sediment)**

Sampled: 29-Oct-18 10:50
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 6020B	**Antimony**	0.574	mg/kg dry wt. dry	0.300	0.080	2	X845075	KWH	11/16/18 07:19	D1
EPA 6020B	**Arsenic**	9.05	mg/kg dry wt. dry	0.411	0.181	2	X845073	KWH	11/15/18 12:41	D1
EPA 6020B	Thallium	< 0.100	mg/kg dry wt. dry	0.100	0.0145	2	X845073	KWH	11/15/18 12:41	D1
Metals (Total) by EPA 6000/7000 Methods										
EPA 6010D	**Aluminum**	8150	mg/kg dry wt. dry	11.0	6.9		X845068	DT	11/19/18 08:05	
EPA 6010D	**Barium**	80.8	mg/kg dry wt. dry	0.27	0.25		X845068	DT	11/19/18 08:05	
EPA 6010D	**Beryllium**	0.43	mg/kg dry wt. dry	0.27	0.11		X845068	DT	11/19/18 08:05	
EPA 6010D	**Cadmium**	0.64	mg/kg dry wt. dry	0.27	0.08		X845068	DT	11/19/18 08:05	
EPA 6010D	**Calcium**	1310	mg/kg dry wt. dry	13.7	6.7		X845068	DT	11/19/18 08:05	
EPA 6010D	**Chromium**	8.97	mg/kg dry wt. dry	0.82	0.27		X845068	DT	11/19/18 08:05	
EPA 6010D	**Cobalt**	6.09	mg/kg dry wt. dry	0.82	0.10		X845068	DT	11/19/18 08:05	
EPA 6010D	**Copper**	16.3	mg/kg dry wt. dry	1.37	0.22		X845068	DT	11/19/18 08:05	
EPA 6010D	**Iron**	16100	mg/kg dry wt. dry	13.7	9.1		X845068	DT	11/19/18 08:05	
EPA 6010D	**Lead**	92.1	mg/kg dry wt. dry	1.0	0.5		X845068	DT	11/19/18 08:05	
EPA 6010D	**Magnesium**	3680	mg/kg dry wt. dry	27.4	16.5		X845068	DT	11/19/18 08:05	
EPA 6010D	**Manganese**	320	mg/kg dry wt. dry	1.10	0.38		X845068	DT	11/19/18 08:05	
EPA 6010D	**Nickel**	9.81	mg/kg dry wt. dry	1.37	0.33		X845068	DT	11/19/18 08:05	
EPA 6010D	Selenium	< 5.5	mg/kg dry wt. dry	5.5	1.5		X845068	DT	11/19/18 08:05	
EPA 6010D	Silver	< 0.69	mg/kg dry wt. dry	0.69	0.27		X845068	DT	11/19/18 08:05	
EPA 6010D	**Vanadium**	9.75	mg/kg dry wt. dry	0.69	0.22		X845068	DT	11/19/18 08:05	
EPA 6010D	**Zinc**	156	mg/kg dry wt. dry	1.4	0.5		X845068	DT	11/19/18 08:05	
EPA 7471B	Mercury	< 0.045	mg/kg dry wt. dry	0.045	0.015		X845251	MWD	11/16/18 11:49	
Percent Solids / Percent Moisture										
Percent Solids	**% Solids**	72.9	%	0.1			X845076	JAA	11/07/18 08:45	

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Project Name: North Fork 2018
Work Order: **X8K0029**
Reported: 20-Nov-18 13:38

Client Sample ID: **NF-SD6**
SVL Sample ID: **X8K0029-06 (Sediment)**

Sampled: 29-Oct-18 11:25
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 6020B	**Antimony**	0.637	mg/kg dry wt. dry	0.300	0.070	2	X845075	KWH	11/16/18 07:25	D1
EPA 6020B	**Arsenic**	7.91	mg/kg dry wt. dry	0.361	0.159	2	X845073	KWH	11/15/18 12:47	D1
EPA 6020B	Thallium	< 0.100	mg/kg dry wt. dry	0.100	0.0127	2	X845073	KWH	11/15/18 12:47	D1
Metals (Total) by EPA 6000/7000 Methods										
EPA 6010D	**Aluminum**	7230	mg/kg dry wt. dry	9.6	6.0		X845068	DT	11/19/18 08:09	
EPA 6010D	**Barium**	55.3	mg/kg dry wt. dry	0.24	0.22		X845068	DT	11/19/18 08:09	
EPA 6010D	**Beryllium**	0.35	mg/kg dry wt. dry	0.24	0.10		X845068	DT	11/19/18 08:09	
EPA 6010D	**Cadmium**	0.27	mg/kg dry wt. dry	0.24	0.07		X845068	DT	11/19/18 08:09	
EPA 6010D	**Calcium**	822	mg/kg dry wt. dry	12.0	5.9		X845068	DT	11/19/18 08:09	
EPA 6010D	**Chromium**	7.77	mg/kg dry wt. dry	0.72	0.24		X845068	DT	11/19/18 08:09	
EPA 6010D	**Cobalt**	4.89	mg/kg dry wt. dry	0.72	0.09		X845068	DT	11/19/18 08:09	
EPA 6010D	**Copper**	12.5	mg/kg dry wt. dry	1.20	0.19		X845068	DT	11/19/18 08:09	
EPA 6010D	**Iron**	15200	mg/kg dry wt. dry	12.0	7.9		X845068	DT	11/19/18 08:09	
EPA 6010D	**Lead**	64.0	mg/kg dry wt. dry	0.9	0.4		X845068	DT	11/19/18 08:09	
EPA 6010D	**Magnesium**	4030	mg/kg dry wt. dry	24.0	14.4		X845068	DT	11/19/18 08:09	
EPA 6010D	**Manganese**	249	mg/kg dry wt. dry	0.96	0.34		X845068	DT	11/19/18 08:09	
EPA 6010D	**Nickel**	8.62	mg/kg dry wt. dry	1.20	0.29		X845068	DT	11/19/18 08:09	
EPA 6010D	Selenium	< 4.8	mg/kg dry wt. dry	4.8	1.3		X845068	DT	11/19/18 08:09	
EPA 6010D	Silver	< 0.60	mg/kg dry wt. dry	0.60	0.24		X845068	DT	11/19/18 08:09	
EPA 6010D	**Vanadium**	8.42	mg/kg dry wt. dry	0.60	0.19		X845068	DT	11/19/18 08:09	
EPA 6010D	**Zinc**	80.7	mg/kg dry wt. dry	1.2	0.4		X845068	DT	11/19/18 08:09	
EPA 7471B	Mercury	< 0.040	mg/kg dry wt. dry	0.040	0.013		X845251	MWD	11/16/18 11:51	
Percent Solids / Percent Moisture										
Percent Solids	**% Solids**	83.2	%	0.1			X845076	JAA	11/07/18 08:45	

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

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108 W. Idaho Street
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Project Name: North Fork 2018
Work Order: **X8K0029**
Reported: 20-Nov-18 13:38

Client Sample ID: **NF-SD7**
SVL Sample ID: **X8K0029-07 (Sediment)**

Sampled: 29-Oct-18 11:30
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 6020B	**Antimony**	0.869	mg/kg dry wt. dry	0.300	0.065	2	X845075	KWH	11/16/18 07:27	D1
EPA 6020B	**Arsenic**	9.32	mg/kg dry wt. dry	0.336	0.148	2	X845073	KWH	11/15/18 12:49	D1
EPA 6020B	Thallium	< 0.100	mg/kg dry wt. dry	0.100	0.0119	2	X845073	KWH	11/15/18 12:49	D1
Metals (Total) by EPA 6000/7000 Methods										
EPA 6010D	**Aluminum**	5650	mg/kg dry wt. dry	9.0	5.6		X845068	DT	11/19/18 08:12	
EPA 6010D	**Barium**	36.9	mg/kg dry wt. dry	0.22	0.20		X845068	DT	11/19/18 08:12	
EPA 6010D	Beryllium	< 0.22	mg/kg dry wt. dry	0.22	0.09		X845068	DT	11/19/18 08:12	
EPA 6010D	Cadmium	< 0.22	mg/kg dry wt. dry	0.22	0.06		X845068	DT	11/19/18 08:12	
EPA 6010D	**Calcium**	486	mg/kg dry wt. dry	11.2	5.5		X845068	DT	11/19/18 08:12	
EPA 6010D	**Chromium**	6.89	mg/kg dry wt. dry	0.67	0.22		X845068	DT	11/19/18 08:12	
EPA 6010D	**Cobalt**	4.64	mg/kg dry wt. dry	0.67	0.08		X845068	DT	11/19/18 08:12	
EPA 6010D	**Copper**	10.9	mg/kg dry wt. dry	1.12	0.18		X845068	DT	11/19/18 08:12	
EPA 6010D	**Iron**	15500	mg/kg dry wt. dry	11.2	7.4		X845068	DT	11/19/18 08:12	
EPA 6010D	**Lead**	35.9	mg/kg dry wt. dry	0.8	0.4		X845068	DT	11/19/18 08:12	
EPA 6010D	**Magnesium**	3600	mg/kg dry wt. dry	22.4	13.5		X845068	DT	11/19/18 08:12	
EPA 6010D	**Manganese**	253	mg/kg dry wt. dry	0.90	0.31		X845068	DT	11/19/18 08:12	
EPA 6010D	**Nickel**	8.18	mg/kg dry wt. dry	1.12	0.27		X845068	DT	11/19/18 08:12	
EPA 6010D	Selenium	< 4.5	mg/kg dry wt. dry	4.5	1.2		X845068	DT	11/19/18 08:12	
EPA 6010D	Silver	< 0.56	mg/kg dry wt. dry	0.56	0.22		X845068	DT	11/19/18 08:12	
EPA 6010D	**Vanadium**	6.73	mg/kg dry wt. dry	0.56	0.18		X845068	DT	11/19/18 08:12	
EPA 6010D	**Zinc**	54.9	mg/kg dry wt. dry	1.1	0.4		X845068	DT	11/19/18 08:12	
EPA 7471B	Mercury	< 0.037	mg/kg dry wt. dry	0.037	0.012		X845251	MWD	11/16/18 11:53	
Percent Solids / Percent Moisture										
Percent Solids	**% Solids**	89.2	%	0.1			X845076	JAA	11/07/18 08:45	

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

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Project Name: North Fork 2018
Work Order: **X8K0029**
Reported: 20-Nov-18 13:38

Client Sample ID: **NF-SD8**
SVL Sample ID: **X8K0029-08 (Sediment)**

Sampled: 29-Oct-18 11:55
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 6020B	**Antimony**	0.350	mg/kg dry wt. dry	0.300	0.065	2	X845075	KWH	11/16/18 07:29	D1
EPA 6020B	**Arsenic**	1.53	mg/kg dry wt. dry	0.335	0.147	2	X845073	KWH	11/15/18 12:52	D1
EPA 6020B	Thallium	< 0.100	mg/kg dry wt. dry	0.100	0.0118	2	X845073	KWH	11/15/18 12:52	D1
Metals (Total) by EPA 6000/7000 Methods										
EPA 6010D	**Aluminum**	2470	mg/kg dry wt. dry	8.9	5.6		X845068	DT	11/19/18 08:16	
EPA 6010D	**Barium**	47.6	mg/kg dry wt. dry	0.22	0.20		X845068	DT	11/19/18 08:16	
EPA 6010D	Beryllium	< 0.22	mg/kg dry wt. dry	0.22	0.09		X845068	DT	11/19/18 08:16	
EPA 6010D	Cadmium	< 0.22	mg/kg dry wt. dry	0.22	0.06		X845068	DT	11/19/18 08:16	
EPA 6010D	**Calcium**	648	mg/kg dry wt. dry	11.2	5.5		X845068	DT	11/19/18 08:16	
EPA 6010D	**Chromium**	2.01	mg/kg dry wt. dry	0.67	0.22		X845068	DT	11/19/18 08:16	
EPA 6010D	**Cobalt**	1.66	mg/kg dry wt. dry	0.67	0.08		X845068	DT	11/19/18 08:16	
EPA 6010D	**Copper**	6.02	mg/kg dry wt. dry	1.12	0.18		X845068	DT	11/19/18 08:16	
EPA 6010D	**Iron**	3970	mg/kg dry wt. dry	11.2	7.4		X845068	DT	11/19/18 08:16	
EPA 6010D	**Lead**	6.7	mg/kg dry wt. dry	0.8	0.4		X845068	DT	11/19/18 08:16	
EPA 6010D	**Magnesium**	603	mg/kg dry wt. dry	22.3	13.4		X845068	DT	11/19/18 08:16	
EPA 6010D	**Manganese**	271	mg/kg dry wt. dry	0.89	0.31		X845068	DT	11/19/18 08:16	
EPA 6010D	**Nickel**	1.88	mg/kg dry wt. dry	1.12	0.27		X845068	DT	11/19/18 08:16	
EPA 6010D	Selenium	< 4.5	mg/kg dry wt. dry	4.5	1.2		X845068	DT	11/19/18 08:16	
EPA 6010D	Silver	< 0.56	mg/kg dry wt. dry	0.56	0.22		X845068	DT	11/19/18 08:16	
EPA 6010D	**Vanadium**	2.88	mg/kg dry wt. dry	0.56	0.18		X845068	DT	11/19/18 08:16	
EPA 6010D	**Zinc**	15.0	mg/kg dry wt. dry	1.1	0.4		X845068	DT	11/19/18 08:16	
EPA 7471B	Mercury	< 0.037	mg/kg dry wt. dry	0.037	0.012		X845251	MWD	11/16/18 11:55	
Percent Solids / Percent Moisture										
Percent Solids	**% Solids**	89.7	%	0.1			X845076	JAA	11/07/18 08:45	

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Project Name: North Fork 2018
Work Order: **X8K0029**
Reported: 20-Nov-18 13:38

Client Sample ID: **NF-SD9**
SVL Sample ID: **X8K0029-09 (Sediment)**

Sampled: 29-Oct-18 12:20
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 6020B	**Antimony**	1.05	mg/kg dry wt. dry	0.300	0.077	2	X845075	KWH	11/16/18 07:32	D1
EPA 6020B	**Arsenic**	9.21	mg/kg dry wt. dry	0.398	0.175	2	X845073	KWH	11/15/18 12:54	D1
EPA 6020B	Thallium	< 0.100	mg/kg dry wt. dry	0.100	0.0141	2	X845073	KWH	11/15/18 12:54	D1
Metals (Total) by EPA 6000/7000 Methods										
EPA 6010D	**Aluminum**	7240	mg/kg dry wt. dry	10.6	6.6		X845068	DT	11/19/18 08:27	M3
EPA 6010D	**Barium**	81.9	mg/kg dry wt. dry	0.27	0.24		X845068	DT	11/19/18 08:27	
EPA 6010D	**Beryllium**	0.35	mg/kg dry wt. dry	0.27	0.11		X845068	DT	11/19/18 08:27	
EPA 6010D	**Cadmium**	0.31	mg/kg dry wt. dry	0.27	0.08		X845068	DT	11/19/18 08:27	
EPA 6010D	**Calcium**	1540	mg/kg dry wt. dry	13.3	6.5		X845068	DT	11/19/18 08:27	
EPA 6010D	**Chromium**	8.77	mg/kg dry wt. dry	0.80	0.27		X845068	DT	11/19/18 08:27	
EPA 6010D	**Cobalt**	8.09	mg/kg dry wt. dry	0.80	0.10		X845068	DT	11/19/18 08:27	
EPA 6010D	**Copper**	20.1	mg/kg dry wt. dry	1.33	0.21		X845068	DT	11/19/18 08:27	
EPA 6010D	**Iron**	16500	mg/kg dry wt. dry	13.3	8.8		X845068	DT	11/19/18 08:27	M3
EPA 6010D	**Lead**	68.4	mg/kg dry wt. dry	1.0	0.4		X845068	DT	11/19/18 08:27	
EPA 6010D	**Magnesium**	3020	mg/kg dry wt. dry	26.6	15.9		X845068	DT	11/19/18 08:27	
EPA 6010D	**Manganese**	455	mg/kg dry wt. dry	1.06	0.37		X845068	DT	11/19/18 08:27	M3
EPA 6010D	**Nickel**	8.69	mg/kg dry wt. dry	1.33	0.32		X845068	DT	11/19/18 08:27	
EPA 6010D	Selenium	< 5.3	mg/kg dry wt. dry	5.3	1.5		X845068	DT	11/19/18 08:27	
EPA 6010D	Silver	< 0.66	mg/kg dry wt. dry	0.66	0.27		X845068	DT	11/19/18 08:27	
EPA 6010D	**Vanadium**	9.61	mg/kg dry wt. dry	0.66	0.21		X845068	DT	11/19/18 08:27	
EPA 6010D	**Zinc**	343	mg/kg dry wt. dry	1.3	0.5		X845068	DT	11/19/18 08:27	
EPA 7471B	Mercury	< 0.044	mg/kg dry wt. dry	0.044	0.015		X845251	MWD	11/16/18 12:02	
Percent Solids / Percent Moisture										
Percent Solids	**% Solids**	75.3	%	0.1			X845076	JAA	11/07/18 08:45	

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

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Project Name: North Fork 2018
Work Order: **X8K0029**
Reported: 20-Nov-18 13:38

Client Sample ID: **NF-SD10**
SVL Sample ID: **X8K0029-10 (Sediment)**

Sampled: 29-Oct-18 12:35
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 6020B	**Antimony**	1.46	mg/kg dry wt. dry	0.300	0.076	2	X845075	KWH	11/16/18 07:34	D1
EPA 6020B	**Arsenic**	11.5	mg/kg dry wt. dry	0.391	0.172	2	X845073	KWH	11/15/18 12:56	D1
EPA 6020B	Thallium	< 0.100	mg/kg dry wt. dry	0.100	0.0138	2	X845073	KWH	11/15/18 12:56	D1
Metals (Total) by EPA 6000/7000 Methods										
EPA 6010D	**Aluminum**	9210	mg/kg dry wt. dry	10.4	6.5		X845068	DT	11/19/18 08:31	
EPA 6010D	**Barium**	119	mg/kg dry wt. dry	0.26	0.23		X845068	DT	11/19/18 08:31	
EPA 6010D	**Beryllium**	0.43	mg/kg dry wt. dry	0.26	0.11		X845068	DT	11/19/18 08:31	
EPA 6010D	**Cadmium**	0.73	mg/kg dry wt. dry	0.26	0.07		X845068	DT	11/19/18 08:31	
EPA 6010D	**Calcium**	4430	mg/kg dry wt. dry	13.0	6.4		X845068	DT	11/19/18 08:31	
EPA 6010D	**Chromium**	18.7	mg/kg dry wt. dry	0.78	0.26		X845068	DT	11/19/18 08:31	
EPA 6010D	**Cobalt**	13.5	mg/kg dry wt. dry	0.78	0.10		X845068	DT	11/19/18 08:31	
EPA 6010D	**Copper**	46.0	mg/kg dry wt. dry	1.30	0.21		X845068	DT	11/19/18 08:31	
EPA 6010D	**Iron**	24000	mg/kg dry wt. dry	13.0	8.6		X845068	DT	11/19/18 08:31	
EPA 6010D	**Lead**	154	mg/kg dry wt. dry	1.0	0.4		X845068	DT	11/19/18 08:31	
EPA 6010D	**Magnesium**	3570	mg/kg dry wt. dry	26.1	15.7		X845068	DT	11/19/18 08:31	
EPA 6010D	**Manganese**	778	mg/kg dry wt. dry	1.04	0.37		X845068	DT	11/19/18 08:31	
EPA 6010D	**Nickel**	9.87	mg/kg dry wt. dry	1.30	0.31		X845068	DT	11/19/18 08:31	
EPA 6010D	Selenium	< 5.2	mg/kg dry wt. dry	5.2	1.4		X845068	DT	11/19/18 08:31	
EPA 6010D	Silver	< 0.65	mg/kg dry wt. dry	0.65	0.26		X845068	DT	11/19/18 08:31	
EPA 6010D	**Vanadium**	12.6	mg/kg dry wt. dry	0.65	0.21		X845068	DT	11/19/18 08:31	
EPA 6010D	**Zinc**	382	mg/kg dry wt. dry	1.3	0.4		X845068	DT	11/19/18 08:31	
EPA 7471B	**Mercury**	0.057	mg/kg dry wt. dry	0.043	0.014		X845251	MWD	11/16/18 12:04	
Percent Solids / Percent Moisture										
Percent Solids	**% Solids**	76.7	%	0.1			X845076	JAA	11/07/18 08:45	

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

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Project Name: North Fork 2018
Work Order: **X8K0029**
Reported: 20-Nov-18 13:38

Client Sample ID: **NF-SD11**
SVL Sample ID: **X8K0029-11 (Sediment)**

Sampled: 29-Oct-18 13:55
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 6020B	**Antimony**	0.722	mg/kg dry wt. dry	0.300	0.071	2	X845075	KWH	11/16/18 07:36	D1
EPA 6020B	**Arsenic**	6.36	mg/kg dry wt. dry	0.367	0.161	2	X845073	KWH	11/15/18 12:58	D1
EPA 6020B	Thallium	< 0.100	mg/kg dry wt. dry	0.100	0.0130	2	X845073	KWH	11/15/18 12:58	D1
Metals (Total) by EPA 6000/7000 Methods										
EPA 6010D	**Aluminum**	11800	mg/kg dry wt. dry	9.8	6.1		X845068	DT	11/19/18 08:35	
EPA 6010D	**Barium**	79.7	mg/kg dry wt. dry	0.24	0.22		X845068	DT	11/19/18 08:35	
EPA 6010D	**Beryllium**	0.62	mg/kg dry wt. dry	0.24	0.10		X845068	DT	11/19/18 08:35	
EPA 6010D	Cadmium	< 0.24	mg/kg dry wt. dry	0.24	0.07		X845068	DT	11/19/18 08:35	
EPA 6010D	**Calcium**	891	mg/kg dry wt. dry	12.2	6.0		X845068	DT	11/19/18 08:35	
EPA 6010D	**Chromium**	12.2	mg/kg dry wt. dry	0.73	0.24		X845068	DT	11/19/18 08:35	
EPA 6010D	**Cobalt**	10.9	mg/kg dry wt. dry	0.73	0.09		X845068	DT	11/19/18 08:35	
EPA 6010D	**Copper**	6.46	mg/kg dry wt. dry	1.22	0.20		X845068	DT	11/19/18 08:35	
EPA 6010D	**Iron**	23400	mg/kg dry wt. dry	12.2	8.1		X845068	DT	11/19/18 08:35	
EPA 6010D	**Lead**	5.1	mg/kg dry wt. dry	0.9	0.4		X845068	DT	11/19/18 08:35	
EPA 6010D	**Magnesium**	9910	mg/kg dry wt. dry	24.5	14.7		X845068	DT	11/19/18 08:35	
EPA 6010D	**Manganese**	402	mg/kg dry wt. dry	0.98	0.34		X845068	DT	11/19/18 08:35	
EPA 6010D	**Nickel**	15.8	mg/kg dry wt. dry	1.22	0.29		X845068	DT	11/19/18 08:35	
EPA 6010D	Selenium	< 4.9	mg/kg dry wt. dry	4.9	1.3		X845068	DT	11/19/18 08:35	
EPA 6010D	Silver	< 0.61	mg/kg dry wt. dry	0.61	0.24		X845068	DT	11/19/18 08:35	
EPA 6010D	**Vanadium**	9.20	mg/kg dry wt. dry	0.61	0.20		X845068	DT	11/19/18 08:35	
EPA 6010D	**Zinc**	35.8	mg/kg dry wt. dry	1.2	0.4		X845068	DT	11/19/18 08:35	
EPA 7471B	Mercury	< 0.040	mg/kg dry wt. dry	0.040	0.013		X845251	MWD	11/16/18 12:06	
Percent Solids / Percent Moisture										
Percent Solids	**% Solids**	81.8	%	0.1			X845076	JAA	11/07/18 08:45	

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

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Kellogg, ID 83837

Project Name: North Fork 2018
Work Order: **X8K0029**
Reported: 20-Nov-18 13:38

Client Sample ID: **NF-SD12**
SVL Sample ID: **X8K0029-12 (Sediment)**

Sampled: 30-Oct-18 10:45
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 6020B	**Antimony**	1.14	mg/kg dry wt. dry	0.300	0.067	2	X845075	KWH	11/16/18 07:38	D1
EPA 6020B	**Arsenic**	14.2	mg/kg dry wt. dry	0.347	0.152	2	X845073	KWH	11/15/18 13:00	D1
EPA 6020B	Thallium	< 0.100	mg/kg dry wt. dry	0.100	0.0122	2	X845073	KWH	11/15/18 13:00	D1
Metals (Total) by EPA 6000/7000 Methods										
EPA 6010D	**Aluminum**	5470	mg/kg dry wt. dry	9.2	5.8		X845068	DT	11/19/18 08:38	
EPA 6010D	**Barium**	53.9	mg/kg dry wt. dry	0.23	0.21		X845068	DT	11/19/18 08:38	
EPA 6010D	**Beryllium**	0.52	mg/kg dry wt. dry	0.23	0.10		X845068	DT	11/19/18 08:38	
EPA 6010D	Cadmium	< 0.23	mg/kg dry wt. dry	0.23	0.07		X845068	DT	11/19/18 08:38	
EPA 6010D	**Calcium**	943	mg/kg dry wt. dry	11.6	5.7		X845068	DT	11/19/18 08:38	
EPA 6010D	**Chromium**	5.28	mg/kg dry wt. dry	0.69	0.23		X845068	DT	11/19/18 08:38	
EPA 6010D	**Cobalt**	6.37	mg/kg dry wt. dry	0.69	0.08		X845068	DT	11/19/18 08:38	
EPA 6010D	**Copper**	22.9	mg/kg dry wt. dry	1.16	0.18		X845068	DT	11/19/18 08:38	
EPA 6010D	**Iron**	33400	mg/kg dry wt. dry	11.6	7.6		X845068	DT	11/19/18 08:38	
EPA 6010D	**Lead**	28.0	mg/kg dry wt. dry	0.9	0.4		X845068	DT	11/19/18 08:38	
EPA 6010D	**Magnesium**	1670	mg/kg dry wt. dry	23.1	13.9		X845068	DT	11/19/18 08:38	
EPA 6010D	**Manganese**	364	mg/kg dry wt. dry	0.92	0.32		X845068	DT	11/19/18 08:38	
EPA 6010D	**Nickel**	12.0	mg/kg dry wt. dry	1.16	0.28		X845068	DT	11/19/18 08:38	
EPA 6010D	Selenium	< 4.6	mg/kg dry wt. dry	4.6	1.3		X845068	DT	11/19/18 08:38	
EPA 6010D	Silver	< 0.58	mg/kg dry wt. dry	0.58	0.23		X845068	DT	11/19/18 08:38	
EPA 6010D	**Vanadium**	7.51	mg/kg dry wt. dry	0.58	0.18		X845068	DT	11/19/18 08:38	
EPA 6010D	**Zinc**	101	mg/kg dry wt. dry	1.2	0.4		X845068	DT	11/19/18 08:38	
EPA 7471B	Mercury	< 0.038	mg/kg dry wt. dry	0.038	0.013		X845251	MWD	11/16/18 12:08	
Percent Solids / Percent Moisture										
Percent Solids	**% Solids**	86.6	%	0.1			X845076	JAA	11/07/18 08:45	

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

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Project Name: North Fork 2018
Work Order: **X8K0029**
Reported: 20-Nov-18 13:38

Client Sample ID: **NF-SD13**
SVL Sample ID: **X8K0029-13 (Sediment)**

Sampled: 30-Oct-18 11:25
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 6020B	**Antimony**	1.15	mg/kg dry wt. dry	0.300	0.066	2	X845075	KWH	11/16/18 07:04	D1
EPA 6020B	**Arsenic**	14.5	mg/kg dry wt. dry	0.343	0.151	2	X845073	KWH	11/15/18 12:26	D1,M4
EPA 6020B	Thallium	< 0.100	mg/kg dry wt. dry	0.100	0.0121	2	X845073	KWH	11/15/18 12:26	D1
Metals (Total) by EPA 6000/7000 Methods										
EPA 6010D	**Aluminum**	5120	mg/kg dry wt. dry	9.2	5.7		X845068	DT	11/19/18 08:42	
EPA 6010D	**Barium**	51.6	mg/kg dry wt. dry	0.23	0.21		X845068	DT	11/19/18 08:42	
EPA 6010D	**Beryllium**	0.32	mg/kg dry wt. dry	0.23	0.09		X845068	DT	11/19/18 08:42	
EPA 6010D	**Cadmium**	0.71	mg/kg dry wt. dry	0.23	0.07		X845068	DT	11/19/18 08:42	
EPA 6010D	**Calcium**	729	mg/kg dry wt. dry	11.4	5.6		X845068	DT	11/19/18 08:42	
EPA 6010D	**Chromium**	5.04	mg/kg dry wt. dry	0.69	0.23		X845068	DT	11/19/18 08:42	
EPA 6010D	**Cobalt**	6.07	mg/kg dry wt. dry	0.69	0.08		X845068	DT	11/19/18 08:42	
EPA 6010D	**Copper**	14.1	mg/kg dry wt. dry	1.14	0.18		X845068	DT	11/19/18 08:42	
EPA 6010D	**Iron**	15800	mg/kg dry wt. dry	11.4	7.5		X845068	DT	11/19/18 08:42	
EPA 6010D	**Lead**	82.9	mg/kg dry wt. dry	0.9	0.4		X845068	DT	11/19/18 08:42	
EPA 6010D	**Magnesium**	1650	mg/kg dry wt. dry	22.9	13.7		X845068	DT	11/19/18 08:42	
EPA 6010D	**Manganese**	361	mg/kg dry wt. dry	0.92	0.32		X845068	DT	11/19/18 08:42	
EPA 6010D	**Nickel**	7.70	mg/kg dry wt. dry	1.14	0.27		X845068	DT	11/19/18 08:42	
EPA 6010D	Selenium	< 4.6	mg/kg dry wt. dry	4.6	1.3		X845068	DT	11/19/18 08:42	
EPA 6010D	Silver	< 0.57	mg/kg dry wt. dry	0.57	0.23		X845068	DT	11/19/18 08:42	
EPA 6010D	**Vanadium**	7.27	mg/kg dry wt. dry	0.57	0.18		X845068	DT	11/19/18 08:42	
EPA 6010D	**Zinc**	184	mg/kg dry wt. dry	1.1	0.4		X845068	DT	11/19/18 08:42	
EPA 7471B	Mercury	< 0.038	mg/kg dry wt. dry	0.038	0.013		X845251	MWD	11/16/18 12:10	
Percent Solids / Percent Moisture										
Percent Solids	**% Solids**	87.4	%	0.1			X845076	JAA	11/07/18 08:45	

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Project Name: North Fork 2018
Work Order: **X8K0029**
Reported: 20-Nov-18 13:38

Client Sample ID: **NF-SD14**
SVL Sample ID: **X8K0029-14 (Sediment)**

Sampled: 30-Oct-18 11:45
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 6020B	**Antimony**	1.91	mg/kg dry wt. dry	0.300	0.063	2	X845075	KWH	11/16/18 07:40	D1
EPA 6020B	**Arsenic**	11.0	mg/kg dry wt. dry	0.327	0.144	2	X845073	KWH	11/15/18 13:02	D1
EPA 6020B	Thallium	< 0.100	mg/kg dry wt. dry	0.100	0.0115	2	X845073	KWH	11/15/18 13:02	D1
Metals (Total) by EPA 6000/7000 Methods										
EPA 6010D	**Aluminum**	4840	mg/kg dry wt. dry	8.7	5.4		X845068	DT	11/19/18 08:52	
EPA 6010D	**Barium**	47.0	mg/kg dry wt. dry	0.22	0.20		X845068	DT	11/19/18 08:52	
EPA 6010D	**Beryllium**	0.35	mg/kg dry wt. dry	0.22	0.09		X845068	DT	11/19/18 08:52	
EPA 6010D	**Cadmium**	0.62	mg/kg dry wt. dry	0.22	0.06		X845068	DT	11/19/18 08:52	
EPA 6010D	**Calcium**	522	mg/kg dry wt. dry	10.9	5.3		X845068	DT	11/19/18 08:52	
EPA 6010D	**Chromium**	5.02	mg/kg dry wt. dry	0.65	0.22		X845068	DT	11/19/18 08:52	
EPA 6010D	**Cobalt**	6.03	mg/kg dry wt. dry	0.65	0.08		X845068	DT	11/19/18 08:52	
EPA 6010D	**Copper**	13.6	mg/kg dry wt. dry	1.09	0.17		X845068	DT	11/19/18 08:52	
EPA 6010D	**Iron**	19500	mg/kg dry wt. dry	10.9	7.2		X845068	DT	11/19/18 08:52	
EPA 6010D	**Lead**	70.1	mg/kg dry wt. dry	0.8	0.4		X845068	DT	11/19/18 08:52	
EPA 6010D	**Magnesium**	1600	mg/kg dry wt. dry	21.8	13.1		X845068	DT	11/19/18 08:52	
EPA 6010D	**Manganese**	372	mg/kg dry wt. dry	0.87	0.30		X845068	DT	11/19/18 08:52	
EPA 6010D	**Nickel**	7.76	mg/kg dry wt. dry	1.09	0.26		X845068	DT	11/19/18 08:52	
EPA 6010D	Selenium	< 4.4	mg/kg dry wt. dry	4.4	1.2		X845068	DT	11/19/18 08:52	
EPA 6010D	Silver	< 0.54	mg/kg dry wt. dry	0.54	0.22		X845068	DT	11/19/18 08:52	
EPA 6010D	**Vanadium**	7.78	mg/kg dry wt. dry	0.54	0.17		X845068	DT	11/19/18 08:52	
EPA 6010D	**Zinc**	190	mg/kg dry wt. dry	1.1	0.4		X845068	DT	11/19/18 08:52	
EPA 7471B	Mercury	< 0.036	mg/kg dry wt. dry	0.036	0.012		X845251	MWD	11/16/18 12:17	
Percent Solids / Percent Moisture										
Percent Solids	**% Solids**	91.8	%	0.1			X845076	JAA	11/07/18 08:45	

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Project Name: North Fork 2018
Work Order: **X8K0029**
Reported: 20-Nov-18 13:38

Client Sample ID: **NF-SD15**
SVL Sample ID: **X8K0029-15 (Sediment)**

Sampled: 30-Oct-18 12:15
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 6020B	**Antimony**	0.895	mg/kg dry wt. dry	0.300	0.080	2	X845075	KWH	11/16/18 07:42	D1
EPA 6020B	**Arsenic**	13.4	mg/kg dry wt. dry	0.414	0.182	2	X845073	KWH	11/15/18 13:04	D1
EPA 6020B	Thallium	< 0.100	mg/kg dry wt. dry	0.100	0.0146	2	X845073	KWH	11/15/18 13:04	D1
Metals (Total) by EPA 6000/7000 Methods										
EPA 6010D	**Aluminum**	7390	mg/kg dry wt. dry	11.1	6.9		X845068	DT	11/19/18 08:56	
EPA 6010D	**Barium**	57.0	mg/kg dry wt. dry	0.28	0.25		X845068	DT	11/19/18 08:56	
EPA 6010D	**Beryllium**	0.38	mg/kg dry wt. dry	0.28	0.11		X845068	DT	11/19/18 08:56	
EPA 6010D	**Cadmium**	0.59	mg/kg dry wt. dry	0.28	0.08		X845068	DT	11/19/18 08:56	
EPA 6010D	**Calcium**	988	mg/kg dry wt. dry	13.8	6.8		X845068	DT	11/19/18 08:56	
EPA 6010D	**Chromium**	8.32	mg/kg dry wt. dry	0.83	0.28		X845068	DT	11/19/18 08:56	
EPA 6010D	**Cobalt**	6.45	mg/kg dry wt. dry	0.83	0.10		X845068	DT	11/19/18 08:56	
EPA 6010D	**Copper**	26.3	mg/kg dry wt. dry	1.38	0.22		X845068	DT	11/19/18 08:56	
EPA 6010D	**Iron**	18100	mg/kg dry wt. dry	13.8	9.1		X845068	DT	11/19/18 08:56	
EPA 6010D	**Lead**	130	mg/kg dry wt. dry	1.0	0.5		X845068	DT	11/19/18 08:56	
EPA 6010D	**Magnesium**	3300	mg/kg dry wt. dry	27.6	16.6		X845068	DT	11/19/18 08:56	
EPA 6010D	**Manganese**	161	mg/kg dry wt. dry	1.11	0.39		X845068	DT	11/19/18 08:56	
EPA 6010D	**Nickel**	9.24	mg/kg dry wt. dry	1.38	0.33		X845068	DT	11/19/18 08:56	
EPA 6010D	Selenium	< 5.5	mg/kg dry wt. dry	5.5	1.5		X845068	DT	11/19/18 08:56	
EPA 6010D	Silver	< 0.69	mg/kg dry wt. dry	0.69	0.28		X845068	DT	11/19/18 08:56	
EPA 6010D	**Vanadium**	9.43	mg/kg dry wt. dry	0.69	0.22		X845068	DT	11/19/18 08:56	
EPA 6010D	**Zinc**	182	mg/kg dry wt. dry	1.4	0.5		X845068	DT	11/19/18 08:56	
EPA 7471B	Mercury	< 0.046	mg/kg dry wt. dry	0.046	0.015		X845251	MWD	11/16/18 12:19	
Percent Solids / Percent Moisture										
Percent Solids	**% Solids**	72.4	%	0.1			X845076	JAA	11/07/18 08:45	

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Project Name: North Fork 2018
Work Order: **X8K0029**
Reported: 20-Nov-18 13:38

Client Sample ID: **NF-SD16**
SVL Sample ID: **X8K0029-16 (Sediment)**

Sampled: 30-Oct-18 12:40
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 6020B	**Antimony**	0.862	mg/kg dry wt. dry	0.300	0.058	2	X845075	KWH	11/16/18 07:44	D1
EPA 6020B	**Arsenic**	7.81	mg/kg dry wt. dry	0.300	0.132	2	X845073	KWH	11/15/18 13:06	D1
EPA 6020B	Thallium	< 0.100	mg/kg dry wt. dry	0.100	0.0106	2	X845073	KWH	11/15/18 13:06	D1
Metals (Total) by EPA 6000/7000 Methods										
EPA 6010D	**Aluminum**	6530	mg/kg dry wt. dry	8.0	5.0		X845068	DT	11/19/18 08:59	
EPA 6010D	**Barium**	62.7	mg/kg dry wt. dry	0.20	0.18		X845068	DT	11/19/18 08:59	
EPA 6010D	**Beryllium**	0.39	mg/kg dry wt. dry	0.20	0.08		X845068	DT	11/19/18 08:59	
EPA 6010D	**Cadmium**	0.38	mg/kg dry wt. dry	0.20	0.06		X845068	DT	11/19/18 08:59	
EPA 6010D	**Calcium**	599	mg/kg dry wt. dry	10.0	4.9		X845068	DT	11/19/18 08:59	
EPA 6010D	**Chromium**	6.69	mg/kg dry wt. dry	0.60	0.20		X845068	DT	11/19/18 08:59	
EPA 6010D	**Cobalt**	6.93	mg/kg dry wt. dry	0.60	0.07		X845068	DT	11/19/18 08:59	
EPA 6010D	**Copper**	36.1	mg/kg dry wt. dry	1.00	0.16		X845068	DT	11/19/18 08:59	
EPA 6010D	**Iron**	28600	mg/kg dry wt. dry	10.0	6.6		X845068	DT	11/19/18 08:59	
EPA 6010D	**Lead**	88.1	mg/kg dry wt. dry	0.8	0.3		X845068	DT	11/19/18 08:59	
EPA 6010D	**Magnesium**	3410	mg/kg dry wt. dry	20.0	12.0		X845068	DT	11/19/18 08:59	
EPA 6010D	**Manganese**	268	mg/kg dry wt. dry	0.80	0.28		X845068	DT	11/19/18 08:59	
EPA 6010D	**Nickel**	13.6	mg/kg dry wt. dry	1.00	0.24		X845068	DT	11/19/18 08:59	
EPA 6010D	Selenium	< 4.0	mg/kg dry wt. dry	4.0	1.1		X845068	DT	11/19/18 08:59	
EPA 6010D	Silver	< 0.50	mg/kg dry wt. dry	0.50	0.20		X845068	DT	11/19/18 08:59	
EPA 6010D	**Vanadium**	15.9	mg/kg dry wt. dry	0.50	0.16		X845068	DT	11/19/18 08:59	
EPA 6010D	**Zinc**	129	mg/kg dry wt. dry	1.0	0.3		X845068	DT	11/19/18 08:59	
EPA 7471B	Mercury	< 0.033	mg/kg dry wt. dry	0.033	0.011		X845251	MWD	11/16/18 12:21	
Percent Solids / Percent Moisture										
Percent Solids	**% Solids**	100	%	0.1			X845076	JAA	11/07/18 08:45	

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Project Name: North Fork 2018
Work Order: **X8K0029**
Reported: 20-Nov-18 13:38

Client Sample ID: **NF-SD17**
SVL Sample ID: **X8K0029-17 (Sediment)**

Sampled: 30-Oct-18 12:40
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 6020B	**Antimony**	0.870	mg/kg dry wt. dry	0.300	0.068	2	X845075	KWH	11/16/18 07:51	D1
EPA 6020B	**Arsenic**	10.7	mg/kg dry wt. dry	0.354	0.156	2	X845073	KWH	11/15/18 13:13	D1
EPA 6020B	Thallium	< 0.100	mg/kg dry wt. dry	0.100	0.0125	2	X845073	KWH	11/15/18 13:13	D1
Metals (Total) by EPA 6000/7000 Methods										
EPA 6010D	**Aluminum**	4650	mg/kg dry wt. dry	9.4	5.9		X845068	DT	11/19/18 09:10	
EPA 6010D	**Barium**	38.2	mg/kg dry wt. dry	0.24	0.21		X845068	DT	11/19/18 09:10	
EPA 6010D	Beryllium	< 0.24	mg/kg dry wt. dry	0.24	0.10		X845068	DT	11/19/18 09:10	
EPA 6010D	**Cadmium**	0.31	mg/kg dry wt. dry	0.24	0.07		X845068	DT	11/19/18 09:10	
EPA 6010D	**Calcium**	541	mg/kg dry wt. dry	11.8	5.8		X845068	DT	11/19/18 09:10	
EPA 6010D	**Chromium**	5.35	mg/kg dry wt. dry	0.71	0.24		X845068	DT	11/19/18 09:10	
EPA 6010D	**Cobalt**	4.03	mg/kg dry wt. dry	0.71	0.09		X845068	DT	11/19/18 09:10	
EPA 6010D	**Copper**	10.8	mg/kg dry wt. dry	1.18	0.19		X845068	DT	11/19/18 09:10	
EPA 6010D	**Iron**	14200	mg/kg dry wt. dry	11.8	7.8		X845068	DT	11/19/18 09:10	
EPA 6010D	**Lead**	58.6	mg/kg dry wt. dry	0.9	0.4		X845068	DT	11/19/18 09:10	
EPA 6010D	**Magnesium**	2610	mg/kg dry wt. dry	23.6	14.1		X845068	DT	11/19/18 09:10	
EPA 6010D	**Manganese**	219	mg/kg dry wt. dry	0.94	0.33		X845068	DT	11/19/18 09:10	
EPA 6010D	**Nickel**	6.93	mg/kg dry wt. dry	1.18	0.28		X845068	DT	11/19/18 09:10	
EPA 6010D	Selenium	< 4.7	mg/kg dry wt. dry	4.7	1.3		X845068	DT	11/19/18 09:10	
EPA 6010D	Silver	< 0.59	mg/kg dry wt. dry	0.59	0.24		X845068	DT	11/19/18 09:10	
EPA 6010D	**Vanadium**	5.59	mg/kg dry wt. dry	0.59	0.19		X845068	DT	11/19/18 09:10	
EPA 6010D	**Zinc**	92.7	mg/kg dry wt. dry	1.2	0.4		X845068	DT	11/19/18 09:10	
EPA 7471B	**Mercury**	0.112	mg/kg dry wt. dry	0.039	0.013		X845251	MWD	11/16/18 12:27	
Percent Solids / Percent Moisture										
Percent Solids	**% Solids**	84.9	%	0.1			X845076	JAA	11/07/18 08:45	

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

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Project Name: North Fork 2018
Work Order: **X8K0029**
Reported: 20-Nov-18 13:38

Client Sample ID: **NF-SD18**
SVL Sample ID: **X8K0029-18 (Sediment)**

Sampled: 30-Oct-18 13:00
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 6020B	**Antimony**	0.713	mg/kg dry wt. dry	0.300	0.071	2	X845075	KWH	11/16/18 07:53	D1
EPA 6020B	**Arsenic**	7.47	mg/kg dry wt. dry	0.365	0.161	2	X845073	KWH	11/15/18 13:15	D1
EPA 6020B	Thallium	< 0.100	mg/kg dry wt. dry	0.100	0.0129	2	X845073	KWH	11/15/18 13:15	D1
Metals (Total) by EPA 6000/7000 Methods										
EPA 6010D	**Aluminum**	9840	mg/kg dry wt. dry	9.7	6.1		X845068	DT	11/19/18 09:14	
EPA 6010D	**Barium**	90.9	mg/kg dry wt. dry	0.24	0.22		X845068	DT	11/19/18 09:14	
EPA 6010D	**Beryllium**	0.50	mg/kg dry wt. dry	0.24	0.10		X845068	DT	11/19/18 09:14	
EPA 6010D	Cadmium	< 0.24	mg/kg dry wt. dry	0.24	0.07		X845068	DT	11/19/18 09:14	
EPA 6010D	**Calcium**	1030	mg/kg dry wt. dry	12.2	6.0		X845068	DT	11/19/18 09:14	
EPA 6010D	**Chromium**	9.25	mg/kg dry wt. dry	0.73	0.24		X845068	DT	11/19/18 09:14	
EPA 6010D	**Cobalt**	6.17	mg/kg dry wt. dry	0.73	0.09		X845068	DT	11/19/18 09:14	
EPA 6010D	**Copper**	15.7	mg/kg dry wt. dry	1.22	0.19		X845068	DT	11/19/18 09:14	
EPA 6010D	**Iron**	17000	mg/kg dry wt. dry	12.2	8.0		X845068	DT	11/19/18 09:14	
EPA 6010D	**Lead**	44.8	mg/kg dry wt. dry	0.9	0.4		X845068	DT	11/19/18 09:14	
EPA 6010D	**Magnesium**	3880	mg/kg dry wt. dry	24.4	14.6		X845068	DT	11/19/18 09:14	
EPA 6010D	**Manganese**	338	mg/kg dry wt. dry	0.97	0.34		X845068	DT	11/19/18 09:14	
EPA 6010D	**Nickel**	9.88	mg/kg dry wt. dry	1.22	0.29		X845068	DT	11/19/18 09:14	
EPA 6010D	Selenium	< 4.9	mg/kg dry wt. dry	4.9	1.3		X845068	DT	11/19/18 09:14	
EPA 6010D	Silver	< 0.61	mg/kg dry wt. dry	0.61	0.24		X845068	DT	11/19/18 09:14	
EPA 6010D	**Vanadium**	11.1	mg/kg dry wt. dry	0.61	0.19		X845068	DT	11/19/18 09:14	
EPA 6010D	**Zinc**	68.6	mg/kg dry wt. dry	1.2	0.4		X845068	DT	11/19/18 09:14	
EPA 7471B	Mercury	< 0.040	mg/kg dry wt. dry	0.040	0.013		X845251	MWD	11/16/18 12:30	
Percent Solids / Percent Moisture										
Percent Solids	**% Solids**	82.1	%	0.1			X845076	JAA	11/07/18 08:45	

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

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Alta Science and Engineering - Kellogg
108 W. Idaho Street
Kellogg, ID 83837

Project Name: North Fork 2018
Work Order: **X8K0029**
Reported: 20-Nov-18 13:38

Client Sample ID: **NF-SD19**
SVL Sample ID: **X8K0029-19 (Sediment)**

Sampled: 30-Oct-18 13:05
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 6020B	**Antimony**	0.391	mg/kg dry wt. dry	0.300	0.069	2	X845075	KWH	11/16/18 07:55	D1
EPA 6020B	**Arsenic**	4.38	mg/kg dry wt. dry	0.357	0.157	2	X845073	KWH	11/15/18 13:17	D1
EPA 6020B	Thallium	< 0.100	mg/kg dry wt. dry	0.100	0.0126	2	X845073	KWH	11/15/18 13:17	D1
Metals (Total) by EPA 6000/7000 Methods										
EPA 6010D	**Aluminum**	3240	mg/kg dry wt. dry	9.5	6.0		X845068	DT	11/19/18 09:18	
EPA 6010D	**Barium**	40.3	mg/kg dry wt. dry	0.24	0.21		X845068	DT	11/19/18 09:18	
EPA 6010D	Beryllium	< 0.24	mg/kg dry wt. dry	0.24	0.10		X845068	DT	11/19/18 09:18	
EPA 6010D	Cadmium	< 0.24	mg/kg dry wt. dry	0.24	0.07		X845068	DT	11/19/18 09:18	
EPA 6010D	**Calcium**	577	mg/kg dry wt. dry	11.9	5.8		X845068	DT	11/19/18 09:18	
EPA 6010D	**Chromium**	3.58	mg/kg dry wt. dry	0.71	0.24		X845068	DT	11/19/18 09:18	
EPA 6010D	**Cobalt**	3.66	mg/kg dry wt. dry	0.71	0.09		X845068	DT	11/19/18 09:18	
EPA 6010D	**Copper**	6.26	mg/kg dry wt. dry	1.19	0.19		X845068	DT	11/19/18 09:18	
EPA 6010D	**Iron**	10200	mg/kg dry wt. dry	11.9	7.9		X845068	DT	11/19/18 09:18	
EPA 6010D	**Lead**	34.1	mg/kg dry wt. dry	0.9	0.4		X845068	DT	11/19/18 09:18	
EPA 6010D	**Magnesium**	1060	mg/kg dry wt. dry	23.8	14.3		X845068	DT	11/19/18 09:18	
EPA 6010D	**Manganese**	295	mg/kg dry wt. dry	0.95	0.33		X845068	DT	11/19/18 09:18	
EPA 6010D	**Nickel**	3.75	mg/kg dry wt. dry	1.19	0.29		X845068	DT	11/19/18 09:18	
EPA 6010D	Selenium	< 4.8	mg/kg dry wt. dry	4.8	1.3		X845068	DT	11/19/18 09:18	
EPA 6010D	Silver	< 0.60	mg/kg dry wt. dry	0.60	0.24		X845068	DT	11/19/18 09:18	
EPA 6010D	**Vanadium**	5.21	mg/kg dry wt. dry	0.60	0.19		X845068	DT	11/19/18 09:18	
EPA 6010D	**Zinc**	50.1	mg/kg dry wt. dry	1.2	0.4		X845068	DT	11/19/18 09:18	
EPA 7471B	Mercury	< 0.039	mg/kg dry wt. dry	0.039	0.013		X845251	MWD	11/16/18 12:32	
Percent Solids / Percent Moisture										
Percent Solids	**% Solids**	84.0	%	0.1			X845076	JAA	11/07/18 08:45	

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Project Name: North Fork 2018
Work Order: **X8K0029**
Reported: 20-Nov-18 13:38

Client Sample ID: **NF-SD20**
SVL Sample ID: **X8K0029-20 (Sediment)**

Sampled: 30-Oct-18 13:25
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 6020B	**Antimony**	1.04	mg/kg dry wt. dry	0.300	0.062	2	X845075	KWH	11/16/18 07:57	D1
EPA 6020B	**Arsenic**	12.6	mg/kg dry wt. dry	0.322	0.142	2	X845073	KWH	11/15/18 13:19	D1
EPA 6020B	Thallium	< 0.100	mg/kg dry wt. dry	0.100	0.0114	2	X845073	KWH	11/15/18 13:19	D1
Metals (Total) by EPA 6000/7000 Methods										
EPA 6010D	**Aluminum**	7160	mg/kg dry wt. dry	8.6	5.4		X845068	DT	11/19/18 09:21	
EPA 6010D	**Barium**	51.8	mg/kg dry wt. dry	0.21	0.19		X845068	DT	11/19/18 09:21	
EPA 6010D	**Beryllium**	0.37	mg/kg dry wt. dry	0.21	0.09		X845068	DT	11/19/18 09:21	
EPA 6010D	**Cadmium**	0.33	mg/kg dry wt. dry	0.21	0.06		X845068	DT	11/19/18 09:21	
EPA 6010D	**Calcium**	483	mg/kg dry wt. dry	10.7	5.3		X845068	DT	11/19/18 09:21	
EPA 6010D	**Chromium**	8.76	mg/kg dry wt. dry	0.64	0.21		X845068	DT	11/19/18 09:21	
EPA 6010D	**Cobalt**	6.12	mg/kg dry wt. dry	0.64	0.08		X845068	DT	11/19/18 09:21	
EPA 6010D	**Copper**	18.7	mg/kg dry wt. dry	1.07	0.17		X845068	DT	11/19/18 09:21	
EPA 6010D	**Iron**	23400	mg/kg dry wt. dry	10.7	7.1		X845068	DT	11/19/18 09:21	
EPA 6010D	**Lead**	136	mg/kg dry wt. dry	0.8	0.4		X845068	DT	11/19/18 09:21	
EPA 6010D	**Magnesium**	4040	mg/kg dry wt. dry	21.5	12.9		X845068	DT	11/19/18 09:21	
EPA 6010D	**Manganese**	347	mg/kg dry wt. dry	0.86	0.30		X845068	DT	11/19/18 09:21	
EPA 6010D	**Nickel**	11.1	mg/kg dry wt. dry	1.07	0.26		X845068	DT	11/19/18 09:21	
EPA 6010D	Selenium	< 4.3	mg/kg dry wt. dry	4.3	1.2		X845068	DT	11/19/18 09:21	
EPA 6010D	Silver	< 0.54	mg/kg dry wt. dry	0.54	0.21		X845068	DT	11/19/18 09:21	
EPA 6010D	**Vanadium**	8.86	mg/kg dry wt. dry	0.54	0.17		X845068	DT	11/19/18 09:21	
EPA 6010D	**Zinc**	146	mg/kg dry wt. dry	1.1	0.4		X845068	DT	11/19/18 09:21	
EPA 7471B	Mercury	< 0.035	mg/kg dry wt. dry	0.035	0.012		X845251	MWD	11/16/18 12:34	
Percent Solids / Percent Moisture										
Percent Solids	**% Solids**	93.1	%	0.1			X845076	JAA	11/07/18 08:45	

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Project Name: North Fork 2018
Work Order: **X8K0029**
Reported: 20-Nov-18 13:38

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Metals (Total)								
EPA 6020B	Antimony	mg/kg	<0.300	0.058	0.300	X845075	16-Nov-18	D1
EPA 6020B	Arsenic	mg/kg	<0.300	0.132	0.300	X845073	15-Nov-18	D1
EPA 6020B	Thallium	mg/kg	<0.100	0.0106	0.100	X845073	15-Nov-18	D1
Metals (Total) by EPA 6000/7000 Methods								
EPA 6010D	Aluminum	mg/kg	<8.0	5.0	8.0	X845068	19-Nov-18	
EPA 6010D	Barium	mg/kg	<0.20	0.18	0.20	X845068	19-Nov-18	
EPA 6010D	Beryllium	mg/kg	<0.20	0.08	0.20	X845068	19-Nov-18	
EPA 6010D	Cadmium	mg/kg	<0.20	0.06	0.20	X845068	19-Nov-18	
EPA 6010D	Calcium	mg/kg	<10.0	4.9	10.0	X845068	19-Nov-18	
EPA 6010D	Chromium	mg/kg	<0.60	0.20	0.60	X845068	19-Nov-18	
EPA 6010D	Cobalt	mg/kg	<0.60	0.07	0.60	X845068	19-Nov-18	
EPA 6010D	Copper	mg/kg	<1.00	0.16	1.00	X845068	19-Nov-18	
EPA 6010D	Iron	mg/kg	<10.0	6.6	10.0	X845068	19-Nov-18	
EPA 6010D	Lead	mg/kg	<0.8	0.3	0.8	X845068	19-Nov-18	
EPA 6010D	Magnesium	mg/kg	<20.0	12.0	20.0	X845068	19-Nov-18	
EPA 6010D	Manganese	mg/kg	<0.80	0.28	0.80	X845068	19-Nov-18	
EPA 6010D	Nickel	mg/kg	<1.00	0.24	1.00	X845068	19-Nov-18	
EPA 6010D	Selenium	mg/kg	<4.0	1.1	4.0	X845068	19-Nov-18	
EPA 6010D	Silver	mg/kg	<0.50	0.20	0.50	X845068	19-Nov-18	
EPA 6010D	Vanadium	mg/kg	<0.50	0.16	0.50	X845068	19-Nov-18	
EPA 6010D	Zinc	mg/kg	<1.0	0.3	1.0	X845068	19-Nov-18	
EPA 7471B	Mercury	mg/kg	<0.033	0.011	0.033	X845251	16-Nov-18	

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Total)									
EPA 6020B	Antimony	mg/kg	2.66	2.50	106	80 - 120	X845075	16-Nov-18	D1
EPA 6020B	Arsenic	mg/kg	2.46	2.50	98.6	80 - 120	X845073	15-Nov-18	D1
EPA 6020B	Thallium	mg/kg	2.41	2.50	96.6	80 - 120	X845073	15-Nov-18	D1
Metals (Total) by EPA 6000/7000 Methods									
EPA 6010D	Aluminum	mg/kg	98.6	100	98.6	80 - 120	X845068	19-Nov-18	
EPA 6010D	Barium	mg/kg	98.5	100	98.5	80 - 120	X845068	19-Nov-18	
EPA 6010D	Beryllium	mg/kg	98.2	100	98.2	80 - 120	X845068	19-Nov-18	
EPA 6010D	Cadmium	mg/kg	99.4	100	99.4	80 - 120	X845068	19-Nov-18	
EPA 6010D	Calcium	mg/kg	1830	2000	91.5	80 - 120	X845068	19-Nov-18	
EPA 6010D	Chromium	mg/kg	98.0	100	98.0	80 - 120	X845068	19-Nov-18	
EPA 6010D	Cobalt	mg/kg	100	100	100	80 - 120	X845068	19-Nov-18	
EPA 6010D	Copper	mg/kg	97.6	100	97.6	80 - 120	X845068	19-Nov-18	
EPA 6010D	Iron	mg/kg	968	1000	96.8	80 - 120	X845068	19-Nov-18	
EPA 6010D	Lead	mg/kg	95.6	100	95.6	80 - 120	X845068	19-Nov-18	
EPA 6010D	Magnesium	mg/kg	1960	2000	98.2	80 - 120	X845068	19-Nov-18	
EPA 6010D	Manganese	mg/kg	97.3	100	97.3	80 - 120	X845068	19-Nov-18	
EPA 6010D	Nickel	mg/kg	96.4	100	96.4	80 - 120	X845068	19-Nov-18	
EPA 6010D	Selenium	mg/kg	95.1	100	95.1	80 - 120	X845068	19-Nov-18	
EPA 6010D	Silver	mg/kg	4.96	5.00	99.1	80 - 120	X845068	19-Nov-18	
EPA 6010D	Vanadium	mg/kg	102	100	102	80 - 120	X845068	19-Nov-18	
EPA 6010D	Zinc	mg/kg	94.3	100	94.3	80 - 120	X845068	19-Nov-18	
EPA 7471B	Mercury	mg/kg	0.822	0.833	98.6	80 - 120	X845251	16-Nov-18	

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Project Name: North Fork 2018
Work Order: **X8K0029**
Reported: 20-Nov-18 13:38

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch ID	Analyzed	Notes
Percent Solids / Percent Moisture									
Percent Solids	% Solids	%	90.2	87.4	3.1	20	X845076	07-Nov-18	

Quality Control - MATRIX SPIKE Data

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Recovery	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Total)										
EPA 6020B	Antimony	mg/kg	4.26	1.15	2.86	109	75 - 125	X845075	16-Nov-18	D1
EPA 6020B	Arsenic	mg/kg	14.1	14.5	2.86	0.30R>S	75 - 125	X845073	15-Nov-18	D1,M4
EPA 6020B	Thallium	mg/kg	2.67	<0.100	2.86	91.4	75 - 125	X845073	15-Nov-18	D1
Metals (Total) by EPA 6000/7000 Methods										
EPA 6010D	Aluminum	mg/kg	9040	5120	114	0.30R>S	75 - 125	X845068	19-Nov-18	M3
EPA 6010D	Barium	mg/kg	175	51.6	114	108	75 - 125	X845068	19-Nov-18	
EPA 6010D	Beryllium	mg/kg	111	0.32	114	97.0	75 - 125	X845068	19-Nov-18	
EPA 6010D	Cadmium	mg/kg	115	0.71	114	100	75 - 125	X845068	19-Nov-18	
EPA 6010D	Calcium	mg/kg	2910	729	2290	95.1	75 - 125	X845068	19-Nov-18	
EPA 6010D	Chromium	mg/kg	116	5.04	114	97.1	75 - 125	X845068	19-Nov-18	
EPA 6010D	Cobalt	mg/kg	120	6.07	114	99.9	75 - 125	X845068	19-Nov-18	
EPA 6010D	Copper	mg/kg	127	14.1	114	98.5	75 - 125	X845068	19-Nov-18	
EPA 6010D	Iron	mg/kg	18700	15800	1140	0.30R>S	75 - 125	X845068	19-Nov-18	M3
EPA 6010D	Lead	mg/kg	199	82.9	114	102	75 - 125	X845068	19-Nov-18	
EPA 6010D	Magnesium	mg/kg	4250	1650	2290	114	75 - 125	X845068	19-Nov-18	
EPA 6010D	Manganese	mg/kg	433	361	114	63.5	75 - 125	X845068	19-Nov-18	M3
EPA 6010D	Nickel	mg/kg	117	7.70	114	95.7	75 - 125	X845068	19-Nov-18	
EPA 6010D	Selenium	mg/kg	109	<4.6	114	95.0	75 - 125	X845068	19-Nov-18	
EPA 6010D	Silver	mg/kg	5.79	<0.57	5.72	101	75 - 125	X845068	19-Nov-18	
EPA 6010D	Vanadium	mg/kg	125	7.27	114	103	75 - 125	X845068	19-Nov-18	
EPA 6010D	Zinc	mg/kg	285	184	114	87.8	75 - 125	X845068	19-Nov-18	
EPA 7471B	Mercury	mg/kg	0.395	<0.038	0.381	97.0	75 - 125	X845251	16-Nov-18	
EPA 7471B	Mercury	mg/kg	0.399	<0.035	0.358	112	75 - 125	X845251	16-Nov-18	

Quality Control - MATRIX SPIKE DUPLICATE Data

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	% Rec.	RPD	RPD Limit	Batch ID	Analyzed	Notes
Metals (Total)											
EPA 6020B	Antimony	mg/kg	4.07	4.26	2.86	102	4.6	20	X845075	16-Nov-18	D1
EPA 6020B	Arsenic	mg/kg	15.8	14.1	2.86	0.30R>S	11.0	20	X845073	15-Nov-18	D1,M4
EPA 6020B	Thallium	mg/kg	2.72	2.67	2.86	93.2	1.8	20	X845073	15-Nov-18	D1
Metals (Total) by EPA 6000/7000 Methods											
EPA 6010D	Aluminum	mg/kg	8640	9040	114	0.30R>S	4.5	20	X845068	19-Nov-18	M3
EPA 6010D	Aluminum	mg/kg	9130	9040	114	0.30R>S	1.0	20	X845068	19-Nov-18	
EPA 6010D	Barium	mg/kg	173	175	114	106	1.0	20	X845068	19-Nov-18	
EPA 6010D	Beryllium	mg/kg	114	111	114	99.1	2.2	20	X845068	19-Nov-18	
EPA 6010D	Cadmium	mg/kg	117	115	114	102	1.6	20	X845068	19-Nov-18	
EPA 6010D	Calcium	mg/kg	2990	2910	2290	98.9	2.9	20	X845068	19-Nov-18	
EPA 6010D	Chromium	mg/kg	117	116	114	98.1	1.0	20	X845068	19-Nov-18	
EPA 6010D	Cobalt	mg/kg	122	120	114	101	1.5	20	X845068	19-Nov-18	
EPA 6010D	Copper	mg/kg	131	127	114	102	3.3	20	X845068	19-Nov-18	

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Project Name: North Fork 2018
Work Order: **X8K0029**
Reported: 20-Nov-18 13:38

Quality Control - MATRIX SPIKE DUPLICATE Data (Continued)

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	% Rec.	RPD	RPD Limit	Batch ID	Analyzed	Notes
Metals (Total) by EPA 6000/7000 Methods (Continued)											
EPA 6010D	Iron	mg/kg	18600	18700	1140	0.30R>S	0.1	20	X845068	19-Nov-18	M3
EPA 6010D	Iron	mg/kg	19100	18700	1140	0.30R>S	2.1	20	X845068	19-Nov-18	
EPA 6010D	Lead	mg/kg	204	199	114	106	2.2	20	X845068	19-Nov-18	
EPA 6010D	Magnesium	mg/kg	4440	4250	2290	122	4.4	20	X845068	19-Nov-18	
EPA 6010D	Manganese	mg/kg	448	433	114	76.5	3.4	20	X845068	19-Nov-18	
EPA 6010D	Manganese	mg/kg	437	433	114	67.1	0.9	20	X845068	19-Nov-18	
EPA 6010D	Nickel	mg/kg	120	117	114	98.4	2.7	20	X845068	19-Nov-18	
EPA 6010D	Selenium	mg/kg	110	109	114	96.2	1.2	20	X845068	19-Nov-18	
EPA 6010D	Silver	mg/kg	5.79	5.79	5.72	101	0.1	20	X845068	19-Nov-18	
EPA 6010D	Vanadium	mg/kg	126	125	114	104	0.7	20	X845068	19-Nov-18	
EPA 6010D	Zinc	mg/kg	280	285	114	83.5	1.8	20	X845068	19-Nov-18	
EPA 7471B	Mercury	mg/kg	0.391	0.395	0.381	96.0	1.0	20	X845251	16-Nov-18	

Notes and Definitions

D1	Sample required dilution due to matrix.
M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to spike level. The LCS was acceptable.
M4	The analysis of the spiked sample required a dilution such that the spike recovery calculation does not provide useful information. The LCS recovery was acceptable.
LCS	Laboratory Control Sample (Blank Spike)
RPD	Relative Percent Difference
UDL	A result is less than the detection limit
0.30R>S	% recovery not applicable; spike level is less than 30% of the sample concentration
<RL	A result is less than the reporting limit
MRL	Method Reporting Limit
MDL	Method Detection Limit
N/A	Not Applicable

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Alta Science and Engineering - Kellogg
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Project Name: North Fork 2018
Work Order: **X8K0030**
Reported: 20-Nov-18 14:19

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
NF-SD21	X8K0030-01	Sediment	30-Oct-18 14:00	GM	01-Nov-2018	
NF-SD22	X8K0030-02	Sediment	30-Oct-18 14:20	GM	01-Nov-2018	
NF-SD23	X8K0030-03	Sediment	30-Oct-18 15:15	GM	01-Nov-2018	
NF-SD24	X8K0030-04	Sediment	30-Oct-18 15:20	GM	01-Nov-2018	
NF-SD25	X8K0030-05	Sediment	31-Oct-18 10:35	GM	01-Nov-2018	
NF-SD26	X8K0030-06	Sediment	31-Oct-18 10:35	GM	01-Nov-2018	
NF-SD27	X8K0030-07	Sediment	31-Oct-18 11:25	GM	01-Nov-2018	
NF-SD28	X8K0030-08	Sediment	31-Oct-18 11:45	GM	01-Nov-2018	

Solid samples are analyzed on an as-received, wet-weight basis, unless otherwise requested.
Sample preparation is defined by the client as per their Data Quality Objectives.
This report supercedes any previous reports for this Work Order. The complete report includes pages for each sample, a full QC report, and a notes section.
Analyses were performed in accordance with SVL standard operating procedures and calibrations were performed and met SVL internal QC criteria.
The results presented in this report relate only to the samples, and meet all requirements of the NELAC Standards unless otherwise noted.

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Project Name: North Fork 2018
Work Order: **X8K0030**
Reported: 20-Nov-18 14:19

Client Sample ID: **NF-SD21**
SVL Sample ID: **X8K0030-01 (Sediment)**

Sampled: 30-Oct-18 14:00
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 6020B	**Antimony**	0.893	mg/kg dry wt. dry	0.300	0.061	2	X845079	KWH	11/16/18 08:09	D1
EPA 6020B	**Arsenic**	12.3	mg/kg dry wt. dry	0.318	0.140	2	X845078	KWH	11/15/18 13:32	D1,M4
EPA 6020B	Thallium	< 0.100	mg/kg dry wt. dry	0.100	0.0112	2	X845078	KWH	11/15/18 13:32	D1
Metals (Total) by EPA 6000/7000 Methods										
EPA 6010D	**Aluminum**	5900	mg/kg dry wt. dry	8.5	5.3		X845077	DT	11/19/18 13:28	
EPA 6010D	**Barium**	61.6	mg/kg dry wt. dry	0.21	0.19		X845077	DT	11/19/18 13:28	
EPA 6010D	**Beryllium**	0.41	mg/kg dry wt. dry	0.21	0.09		X845077	DT	11/19/18 13:28	
EPA 6010D	**Cadmium**	0.52	mg/kg dry wt. dry	0.21	0.06		X845077	DT	11/19/18 13:28	
EPA 6010D	**Calcium**	518	mg/kg dry wt. dry	10.6	5.2		X845077	DT	11/19/18 13:28	
EPA 6010D	**Chromium**	6.81	mg/kg dry wt. dry	0.64	0.21		X845077	DT	11/19/18 13:28	
EPA 6010D	**Cobalt**	6.62	mg/kg dry wt. dry	0.64	0.08		X845077	DT	11/19/18 13:28	
EPA 6010D	**Copper**	23.0	mg/kg dry wt. dry	1.06	0.17		X845077	DT	11/19/18 13:28	
EPA 6010D	**Iron**	26200	mg/kg dry wt. dry	10.6	7.0		X845077	DT	11/19/18 13:28	
EPA 6010D	**Lead**	154	mg/kg dry wt. dry	0.8	0.3		X845077	DT	11/19/18 13:28	
EPA 6010D	**Magnesium**	2600	mg/kg dry wt. dry	21.2	12.7		X845077	DT	11/19/18 13:28	
EPA 6010D	**Manganese**	350	mg/kg dry wt. dry	0.85	0.30		X845077	DT	11/19/18 13:28	
EPA 6010D	**Nickel**	8.75	mg/kg dry wt. dry	1.06	0.25		X845077	DT	11/19/18 13:28	
EPA 6010D	Selenium	< 4.2	mg/kg dry wt. dry	4.2	1.2		X845077	DT	11/19/18 13:28	
EPA 6010D	Silver	< 0.53	mg/kg dry wt. dry	0.53	0.21		X845077	DT	11/19/18 13:28	
EPA 6010D	**Vanadium**	7.89	mg/kg dry wt. dry	0.53	0.17		X845077	DT	11/19/18 13:28	
EPA 6010D	**Zinc**	197	mg/kg dry wt. dry	1.1	0.4		X845077	DT	11/19/18 13:28	
EPA 7471B	Mercury	< 0.035	mg/kg dry wt. dry	0.035	0.012		X845252	MWD	11/13/18 11:42	
Percent Solids / Percent Moisture										
Percent Solids	**% Solids**	94.5	%	0.1			X845080	JAA	11/12/18 12:15	

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

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Project Name: North Fork 2018
Work Order: **X8K0030**
Reported: 20-Nov-18 14:19

Client Sample ID: **NF-SD22**
SVL Sample ID: **X8K0030-02 (Sediment)**

Sampled: 30-Oct-18 14:20
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 6020B	**Antimony**	2.77	mg/kg dry wt. dry	0.300	0.071	2	X845079	KWH	11/16/18 08:16	D1
EPA 6020B	**Arsenic**	14.4	mg/kg dry wt. dry	0.368	0.162	2	X845078	KWH	11/15/18 13:38	D1
EPA 6020B	Thallium	< 0.100	mg/kg dry wt. dry	0.100	0.0130	2	X845078	KWH	11/15/18 13:38	D1
Metals (Total) by EPA 6000/7000 Methods										
EPA 6010D	**Aluminum**	5670	mg/kg dry wt. dry	9.8	6.1		X845077	DT	11/19/18 13:32	
EPA 6010D	**Barium**	54.7	mg/kg dry wt. dry	0.25	0.22		X845077	DT	11/19/18 13:32	
EPA 6010D	**Beryllium**	0.45	mg/kg dry wt. dry	0.25	0.10		X845077	DT	11/19/18 13:32	
EPA 6010D	**Cadmium**	0.61	mg/kg dry wt. dry	0.25	0.07		X845077	DT	11/19/18 13:32	
EPA 6010D	**Calcium**	359	mg/kg dry wt. dry	12.3	6.0		X845077	DT	11/19/18 13:32	
EPA 6010D	**Chromium**	7.40	mg/kg dry wt. dry	0.74	0.25		X845077	DT	11/19/18 13:32	
EPA 6010D	**Cobalt**	6.65	mg/kg dry wt. dry	0.74	0.09		X845077	DT	11/19/18 13:32	
EPA 6010D	**Copper**	24.6	mg/kg dry wt. dry	1.23	0.20		X845077	DT	11/19/18 13:32	
EPA 6010D	**Iron**	27700	mg/kg dry wt. dry	12.3	8.1		X845077	DT	11/19/18 13:32	
EPA 6010D	**Lead**	194	mg/kg dry wt. dry	0.9	0.4		X845077	DT	11/19/18 13:32	
EPA 6010D	**Magnesium**	2410	mg/kg dry wt. dry	24.5	14.7		X845077	DT	11/19/18 13:32	
EPA 6010D	**Manganese**	486	mg/kg dry wt. dry	0.98	0.34		X845077	DT	11/19/18 13:32	
EPA 6010D	**Nickel**	11.2	mg/kg dry wt. dry	1.23	0.29		X845077	DT	11/19/18 13:32	
EPA 6010D	Selenium	< 4.9	mg/kg dry wt. dry	4.9	1.3		X845077	DT	11/19/18 13:32	
EPA 6010D	Silver	< 0.61	mg/kg dry wt. dry	0.61	0.25		X845077	DT	11/19/18 13:32	
EPA 6010D	**Vanadium**	9.76	mg/kg dry wt. dry	0.61	0.20		X845077	DT	11/19/18 13:32	
EPA 6010D	**Zinc**	190	mg/kg dry wt. dry	1.2	0.4		X845077	DT	11/19/18 13:32	
EPA 7471B	Mercury	< 0.040	mg/kg dry wt. dry	0.040	0.013		X845252	MWD	11/13/18 11:44	
Percent Solids / Percent Moisture										
Percent Solids	**% Solids**	81.5	%	0.1			X845080	JAA	11/12/18 12:15	

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Project Name: North Fork 2018
Work Order: **X8K0030**
Reported: 20-Nov-18 14:19

Client Sample ID: **NF-SD23**
SVL Sample ID: **X8K0030-03 (Sediment)**

Sampled: 30-Oct-18 15:15
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 6020B	**Antimony**	1.07	mg/kg dry wt. dry	0.300	0.077	2	X845079	KWH	11/16/18 08:18	D1
EPA 6020B	**Arsenic**	13.6	mg/kg dry wt. dry	0.400	0.176	2	X845078	KWH	11/15/18 13:40	D1
EPA 6020B	Thallium	< 0.100	mg/kg dry wt. dry	0.100	0.0141	2	X845078	KWH	11/15/18 13:40	D1
Metals (Total) by EPA 6000/7000 Methods										
EPA 6010D	**Aluminum**	7630	mg/kg dry wt. dry	10.7	6.7		X845077	DT	11/19/18 13:35	
EPA 6010D	**Barium**	72.8	mg/kg dry wt. dry	0.27	0.24		X845077	DT	11/19/18 13:35	
EPA 6010D	**Beryllium**	0.38	mg/kg dry wt. dry	0.27	0.11		X845077	DT	11/19/18 13:35	
EPA 6010D	**Cadmium**	0.57	mg/kg dry wt. dry	0.27	0.08		X845077	DT	11/19/18 13:35	
EPA 6010D	**Calcium**	730	mg/kg dry wt. dry	13.3	6.5		X845077	DT	11/19/18 13:35	
EPA 6010D	**Chromium**	7.23	mg/kg dry wt. dry	0.80	0.27		X845077	DT	11/19/18 13:35	
EPA 6010D	**Cobalt**	5.51	mg/kg dry wt. dry	0.80	0.10		X845077	DT	11/19/18 13:35	
EPA 6010D	**Copper**	29.2	mg/kg dry wt. dry	1.33	0.21		X845077	DT	11/19/18 13:35	
EPA 6010D	**Iron**	16700	mg/kg dry wt. dry	13.3	8.8		X845077	DT	11/19/18 13:35	
EPA 6010D	**Lead**	236	mg/kg dry wt. dry	1.0	0.4		X845077	DT	11/19/18 13:35	
EPA 6010D	**Magnesium**	3660	mg/kg dry wt. dry	26.6	16.0		X845077	DT	11/19/18 13:35	
EPA 6010D	**Manganese**	285	mg/kg dry wt. dry	1.07	0.37		X845077	DT	11/19/18 13:35	
EPA 6010D	**Nickel**	9.86	mg/kg dry wt. dry	1.33	0.32		X845077	DT	11/19/18 13:35	
EPA 6010D	Selenium	< 5.3	mg/kg dry wt. dry	5.3	1.5		X845077	DT	11/19/18 13:35	
EPA 6010D	Silver	< 0.67	mg/kg dry wt. dry	0.67	0.27		X845077	DT	11/19/18 13:35	
EPA 6010D	**Vanadium**	9.15	mg/kg dry wt. dry	0.67	0.21		X845077	DT	11/19/18 13:35	
EPA 6010D	**Zinc**	178	mg/kg dry wt. dry	1.3	0.5		X845077	DT	11/19/18 13:35	
EPA 7471B	Mercury	< 0.044	mg/kg dry wt. dry	0.044	0.015		X845252	MWD	11/13/18 11:46	
Percent Solids / Percent Moisture										
Percent Solids	**% Solids**	75.1	%	0.1			X845080	JAA	11/12/18 12:15	

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Project Name: North Fork 2018
Work Order: **X8K0030**
Reported: 20-Nov-18 14:19

Client Sample ID: **NF-SD24**
SVL Sample ID: **X8K0030-04 (Sediment)**

Sampled: 30-Oct-18 15:20
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 6020B	**Antimony**	0.867	mg/kg dry wt. dry	0.300	0.065	2	X845079	KWH	11/16/18 08:20	D1
EPA 6020B	**Arsenic**	18.2	mg/kg dry wt. dry	0.338	0.149	2	X845078	KWH	11/15/18 13:42	D1
EPA 6020B	**Thallium**	0.127	mg/kg dry wt. dry	0.100	0.0119	2	X845078	KWH	11/15/18 13:42	D1
Metals (Total) by EPA 6000/7000 Methods										
EPA 6010D	**Aluminum**	6940	mg/kg dry wt. dry	9.0	5.6		X845077	DT	11/19/18 13:39	
EPA 6010D	**Barium**	71.2	mg/kg dry wt. dry	0.23	0.20		X845077	DT	11/19/18 13:39	
EPA 6010D	**Beryllium**	0.40	mg/kg dry wt. dry	0.23	0.09		X845077	DT	11/19/18 13:39	
EPA 6010D	**Cadmium**	0.69	mg/kg dry wt. dry	0.23	0.06		X845077	DT	11/19/18 13:39	
EPA 6010D	**Calcium**	693	mg/kg dry wt. dry	11.3	5.5		X845077	DT	11/19/18 13:39	
EPA 6010D	**Chromium**	6.97	mg/kg dry wt. dry	0.68	0.23		X845077	DT	11/19/18 13:39	
EPA 6010D	**Cobalt**	8.20	mg/kg dry wt. dry	0.68	0.08		X845077	DT	11/19/18 13:39	
EPA 6010D	**Copper**	26.2	mg/kg dry wt. dry	1.13	0.18		X845077	DT	11/19/18 13:39	
EPA 6010D	**Iron**	21600	mg/kg dry wt. dry	11.3	7.4		X845077	DT	11/19/18 13:39	
EPA 6010D	**Lead**	205	mg/kg dry wt. dry	0.8	0.4		X845077	DT	11/19/18 13:39	
EPA 6010D	**Magnesium**	2600	mg/kg dry wt. dry	22.5	13.5		X845077	DT	11/19/18 13:39	
EPA 6010D	**Manganese**	444	mg/kg dry wt. dry	0.90	0.32		X845077	DT	11/19/18 13:39	
EPA 6010D	**Nickel**	10.2	mg/kg dry wt. dry	1.13	0.27		X845077	DT	11/19/18 13:39	
EPA 6010D	Selenium	< 4.5	mg/kg dry wt. dry	4.5	1.2		X845077	DT	11/19/18 13:39	
EPA 6010D	Silver	< 0.56	mg/kg dry wt. dry	0.56	0.23		X845077	DT	11/19/18 13:39	
EPA 6010D	**Vanadium**	10.2	mg/kg dry wt. dry	0.56	0.18		X845077	DT	11/19/18 13:39	
EPA 6010D	**Zinc**	237	mg/kg dry wt. dry	1.1	0.4		X845077	DT	11/19/18 13:39	
EPA 7471B	Mercury	< 0.037	mg/kg dry wt. dry	0.037	0.012		X845252	MWD	11/13/18 11:49	
Percent Solids / Percent Moisture										
Percent Solids	**% Solids**	88.7	%	0.1			X845080	JAA	11/12/18 12:15	

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

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Project Name: North Fork 2018
Work Order: **X8K0030**
Reported: 20-Nov-18 14:19

Client Sample ID: **NF-SD25**
SVL Sample ID: **X8K0030-05 (Sediment)**

Sampled: 31-Oct-18 10:35
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 6020B	**Antimony**	1.13	mg/kg dry wt. dry	0.300	0.078	2	X845079	KWH	11/16/18 08:22	D1
EPA 6020B	**Arsenic**	11.0	mg/kg dry wt. dry	0.402	0.177	2	X845078	KWH	11/15/18 13:44	D1
EPA 6020B	Thallium	< 0.100	mg/kg dry wt. dry	0.100	0.0142	2	X845078	KWH	11/15/18 13:44	D1
Metals (Total) by EPA 6000/7000 Methods										
EPA 6010D	**Aluminum**	5900	mg/kg dry wt. dry	10.7	6.7		X845077	DT	11/19/18 13:42	
EPA 6010D	**Barium**	59.8	mg/kg dry wt. dry	0.27	0.24		X845077	DT	11/19/18 13:42	
EPA 6010D	**Beryllium**	0.47	mg/kg dry wt. dry	0.27	0.11		X845077	DT	11/19/18 13:42	
EPA 6010D	**Cadmium**	0.68	mg/kg dry wt. dry	0.27	0.08		X845077	DT	11/19/18 13:42	
EPA 6010D	**Calcium**	403	mg/kg dry wt. dry	13.4	6.6		X845077	DT	11/19/18 13:42	
EPA 6010D	**Chromium**	6.49	mg/kg dry wt. dry	0.80	0.27		X845077	DT	11/19/18 13:42	
EPA 6010D	**Cobalt**	6.09	mg/kg dry wt. dry	0.80	0.10		X845077	DT	11/19/18 13:42	
EPA 6010D	**Copper**	33.3	mg/kg dry wt. dry	1.34	0.21		X845077	DT	11/19/18 13:42	
EPA 6010D	**Iron**	25100	mg/kg dry wt. dry	13.4	8.8		X845077	DT	11/19/18 13:42	
EPA 6010D	**Lead**	194	mg/kg dry wt. dry	1.0	0.4		X845077	DT	11/19/18 13:42	
EPA 6010D	**Magnesium**	2420	mg/kg dry wt. dry	26.8	16.1		X845077	DT	11/19/18 13:42	
EPA 6010D	**Manganese**	350	mg/kg dry wt. dry	1.07	0.37		X845077	DT	11/19/18 13:42	
EPA 6010D	**Nickel**	10.1	mg/kg dry wt. dry	1.34	0.32		X845077	DT	11/19/18 13:42	
EPA 6010D	Selenium	< 5.4	mg/kg dry wt. dry	5.4	1.5		X845077	DT	11/19/18 13:42	
EPA 6010D	Silver	< 0.67	mg/kg dry wt. dry	0.67	0.27		X845077	DT	11/19/18 13:42	
EPA 6010D	**Vanadium**	8.16	mg/kg dry wt. dry	0.67	0.21		X845077	DT	11/19/18 13:42	
EPA 6010D	**Zinc**	196	mg/kg dry wt. dry	1.3	0.5		X845077	DT	11/19/18 13:42	
EPA 7471B	Mercury	< 0.044	mg/kg dry wt. dry	0.044	0.015		X845252	MWD	11/13/18 11:51	
Percent Solids / Percent Moisture										
Percent Solids	**% Solids**	74.7	%	0.1			X845080	JAA	11/12/18 12:15	

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

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Project Name: North Fork 2018
Work Order: **X8K0030**
Reported: 20-Nov-18 14:19

Client Sample ID: **NF-SD26**
SVL Sample ID: **X8K0030-06 (Sediment)**

Sampled: 31-Oct-18 10:35
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 6020B	**Antimony**	0.864	mg/kg dry wt. dry	0.300	0.080	2	X845079	KWH	11/16/18 08:24	D1
EPA 6020B	**Arsenic**	13.4	mg/kg dry wt. dry	0.416	0.183	2	X845078	KWH	11/15/18 13:46	D1
EPA 6020B	Thallium	< 0.100	mg/kg dry wt. dry	0.100	0.0147	2	X845078	KWH	11/15/18 13:46	D1
Metals (Total) by EPA 6000/7000 Methods										
EPA 6010D	**Aluminum**	6100	mg/kg dry wt. dry	11.1	6.9		X845077	DT	11/19/18 13:46	
EPA 6010D	**Barium**	81.6	mg/kg dry wt. dry	0.28	0.25		X845077	DT	11/19/18 13:46	
EPA 6010D	**Beryllium**	0.47	mg/kg dry wt. dry	0.28	0.12		X845077	DT	11/19/18 13:46	
EPA 6010D	**Cadmium**	0.62	mg/kg dry wt. dry	0.28	0.08		X845077	DT	11/19/18 13:46	
EPA 6010D	**Calcium**	475	mg/kg dry wt. dry	13.9	6.8		X845077	DT	11/19/18 13:46	
EPA 6010D	**Chromium**	7.17	mg/kg dry wt. dry	0.83	0.28		X845077	DT	11/19/18 13:46	
EPA 6010D	**Cobalt**	8.21	mg/kg dry wt. dry	0.83	0.10		X845077	DT	11/19/18 13:46	
EPA 6010D	**Copper**	36.0	mg/kg dry wt. dry	1.39	0.22		X845077	DT	11/19/18 13:46	
EPA 6010D	**Iron**	26900	mg/kg dry wt. dry	13.9	9.1		X845077	DT	11/19/18 13:46	
EPA 6010D	**Lead**	215	mg/kg dry wt. dry	1.0	0.5		X845077	DT	11/19/18 13:46	
EPA 6010D	**Magnesium**	2290	mg/kg dry wt. dry	27.7	16.6		X845077	DT	11/19/18 13:46	
EPA 6010D	**Manganese**	422	mg/kg dry wt. dry	1.11	0.39		X845077	DT	11/19/18 13:46	
EPA 6010D	**Nickel**	10.5	mg/kg dry wt. dry	1.39	0.33		X845077	DT	11/19/18 13:46	
EPA 6010D	Selenium	< 5.5	mg/kg dry wt. dry	5.5	1.5		X845077	DT	11/19/18 13:46	
EPA 6010D	Silver	< 0.69	mg/kg dry wt. dry	0.69	0.28		X845077	DT	11/19/18 13:46	
EPA 6010D	**Vanadium**	8.98	mg/kg dry wt. dry	0.69	0.22		X845077	DT	11/19/18 13:46	
EPA 6010D	**Zinc**	196	mg/kg dry wt. dry	1.4	0.5		X845077	DT	11/19/18 13:46	
EPA 7471B	Mercury	< 0.046	mg/kg dry wt. dry	0.046	0.015		X845252	MWD	11/13/18 11:53	
Percent Solids / Percent Moisture										
Percent Solids	**% Solids**	72.2	%	0.1			X845080	JAA	11/12/18 12:15	

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

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Alta Science and Engineering - Kellogg
108 W. Idaho Street
Kellogg, ID 83837

Project Name: North Fork 2018
Work Order: **X8K0030**
Reported: 20-Nov-18 14:19

Client Sample ID: **NF-SD27**
SVL Sample ID: **X8K0030-07 (Sediment)**

Sampled: 31-Oct-18 11:25
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 6020B	**Antimony**	1.78	mg/kg dry wt. dry	0.300	0.067	2	X845079	KWH	11/16/18 08:03	D1,M4
EPA 6020B	**Arsenic**	9.18	mg/kg dry wt. dry	0.347	0.153	2	X845078	KWH	11/15/18 13:25	D1
EPA 6020B	Thallium	< 0.100	mg/kg dry wt. dry	0.100	0.0123	2	X845078	KWH	11/15/18 13:25	D1
Metals (Total) by EPA 6000/7000 Methods										
EPA 6010D	**Aluminum**	7200	mg/kg dry wt. dry	9.2	5.8		X845077	DT	11/19/18 13:50	M3
EPA 6010D	**Barium**	62.1	mg/kg dry wt. dry	0.23	0.21		X845077	DT	11/19/18 13:50	M1
EPA 6010D	**Beryllium**	0.50	mg/kg dry wt. dry	0.23	0.10		X845077	DT	11/19/18 13:50	
EPA 6010D	**Cadmium**	0.84	mg/kg dry wt. dry	0.23	0.07		X845077	DT	11/19/18 13:50	
EPA 6010D	**Calcium**	736	mg/kg dry wt. dry	11.6	5.7		X845077	DT	11/19/18 13:50	M2
EPA 6010D	**Chromium**	8.51	mg/kg dry wt. dry	0.69	0.23		X845077	DT	11/19/18 13:50	
EPA 6010D	**Cobalt**	6.49	mg/kg dry wt. dry	0.69	0.08		X845077	DT	11/19/18 13:50	
EPA 6010D	**Copper**	32.6	mg/kg dry wt. dry	1.16	0.18		X845077	DT	11/19/18 13:50	
EPA 6010D	**Iron**	27300	mg/kg dry wt. dry	11.6	7.6		X845077	DT	11/19/18 13:50	M3
EPA 6010D	**Lead**	204	mg/kg dry wt. dry	0.9	0.4		X845077	DT	11/19/18 13:50	
EPA 6010D	**Magnesium**	3280	mg/kg dry wt. dry	23.1	13.9		X845077	DT	11/19/18 13:50	M1,M2
EPA 6010D	**Manganese**	343	mg/kg dry wt. dry	0.92	0.32		X845077	DT	11/19/18 13:50	M1
EPA 6010D	**Nickel**	10.9	mg/kg dry wt. dry	1.16	0.28		X845077	DT	11/19/18 13:50	
EPA 6010D	Selenium	< 4.6	mg/kg dry wt. dry	4.6	1.3		X845077	DT	11/19/18 13:50	
EPA 6010D	Silver	< 0.58	mg/kg dry wt. dry	0.58	0.23		X845077	DT	11/19/18 13:50	
EPA 6010D	**Vanadium**	11.3	mg/kg dry wt. dry	0.58	0.18		X845077	DT	11/19/18 13:50	
EPA 6010D	**Zinc**	232	mg/kg dry wt. dry	1.2	0.4		X845077	DT	11/19/18 13:50	M1
EPA 7471B	Mercury	< 0.038	mg/kg dry wt. dry	0.038	0.013		X845252	MWD	11/13/18 11:55	
Percent Solids / Percent Moisture										
Percent Solids	**% Solids**	86.5	%	0.1			X845080	JAA	11/12/18 12:15	

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Alta Science and Engineering - Kellogg
108 W. Idaho Street
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Project Name: North Fork 2018
Work Order: **X8K0030**
Reported: 20-Nov-18 14:19

Client Sample ID: **NF-SD28**
SVL Sample ID: **X8K0030-08 (Sediment)**

Sampled: 31-Oct-18 11:45
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 6020B	**Antimony**	0.938	mg/kg dry wt. dry	0.300	0.075	2	X845079	KWH	11/16/18 08:26	D1
EPA 6020B	**Arsenic**	33.8	mg/kg dry wt. dry	0.389	0.171	2	X845078	KWH	11/15/18 13:48	D1
EPA 6020B	Thallium	< 0.100	mg/kg dry wt. dry	0.100	0.0137	2	X845078	KWH	11/15/18 13:48	D1
Metals (Total) by EPA 6000/7000 Methods										
EPA 6010D	**Aluminum**	7370	mg/kg dry wt. dry	10.4	6.5		X845077	DT	11/19/18 14:08	
EPA 6010D	**Barium**	64.9	mg/kg dry wt. dry	0.26	0.23		X845077	DT	11/19/18 14:08	
EPA 6010D	**Beryllium**	0.46	mg/kg dry wt. dry	0.26	0.11		X845077	DT	11/19/18 14:08	
EPA 6010D	**Cadmium**	0.63	mg/kg dry wt. dry	0.26	0.07		X845077	DT	11/19/18 14:08	
EPA 6010D	**Calcium**	708	mg/kg dry wt. dry	13.0	6.3		X845077	DT	11/19/18 14:08	
EPA 6010D	**Chromium**	7.50	mg/kg dry wt. dry	0.78	0.26		X845077	DT	11/19/18 14:08	
EPA 6010D	**Cobalt**	9.59	mg/kg dry wt. dry	0.78	0.09		X845077	DT	11/19/18 14:08	
EPA 6010D	**Copper**	22.2	mg/kg dry wt. dry	1.30	0.21		X845077	DT	11/19/18 14:08	
EPA 6010D	**Iron**	23700	mg/kg dry wt. dry	13.0	8.6		X845077	DT	11/19/18 14:08	
EPA 6010D	**Lead**	274	mg/kg dry wt. dry	1.0	0.4		X845077	DT	11/19/18 14:08	
EPA 6010D	**Magnesium**	2870	mg/kg dry wt. dry	25.9	15.6		X845077	DT	11/19/18 14:08	
EPA 6010D	**Manganese**	445	mg/kg dry wt. dry	1.04	0.36		X845077	DT	11/19/18 14:08	
EPA 6010D	**Nickel**	11.4	mg/kg dry wt. dry	1.30	0.31		X845077	DT	11/19/18 14:08	
EPA 6010D	Selenium	< 5.2	mg/kg dry wt. dry	5.2	1.4		X845077	DT	11/19/18 14:08	
EPA 6010D	Silver	< 0.65	mg/kg dry wt. dry	0.65	0.26		X845077	DT	11/19/18 14:08	
EPA 6010D	**Vanadium**	11.6	mg/kg dry wt. dry	0.65	0.21		X845077	DT	11/19/18 14:08	
EPA 6010D	**Zinc**	217	mg/kg dry wt. dry	1.3	0.4		X845077	DT	11/19/18 14:08	
EPA 7471B	Mercury	< 0.043	mg/kg dry wt. dry	0.043	0.014		X845252	MWD	11/13/18 12:02	
Percent Solids / Percent Moisture										
Percent Solids	**% Solids**	77.2	%	0.1			X845080	JAA	11/12/18 12:15	

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

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Project Name: North Fork 2018
Work Order: **X8K0030**
Reported: 20-Nov-18 14:19

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Metals (Total)								
EPA 6020B	Antimony	mg/kg	<0.300	0.058	0.300	X845079	16-Nov-18	D1
EPA 6020B	Arsenic	mg/kg	<0.300	0.132	0.300	X845078	15-Nov-18	D1
EPA 6020B	Thallium	mg/kg	<0.100	0.0106	0.100	X845078	15-Nov-18	D1
Metals (Total) by EPA 6000/7000 Methods								
EPA 6010D	Aluminum	mg/kg	<8.0	5.0	8.0	X845077	19-Nov-18	
EPA 6010D	Barium	mg/kg	<0.20	0.18	0.20	X845077	19-Nov-18	
EPA 6010D	Beryllium	mg/kg	<0.20	0.08	0.20	X845077	19-Nov-18	
EPA 6010D	Cadmium	mg/kg	<0.20	0.06	0.20	X845077	19-Nov-18	
EPA 6010D	Calcium	mg/kg	<10.0	4.9	10.0	X845077	19-Nov-18	
EPA 6010D	Chromium	mg/kg	<0.60	0.20	0.60	X845077	19-Nov-18	
EPA 6010D	Cobalt	mg/kg	<0.60	0.07	0.60	X845077	19-Nov-18	
EPA 6010D	Copper	mg/kg	<1.00	0.16	1.00	X845077	19-Nov-18	
EPA 6010D	Iron	mg/kg	<10.0	6.6	10.0	X845077	19-Nov-18	
EPA 6010D	Lead	mg/kg	<0.8	0.3	0.8	X845077	19-Nov-18	
EPA 6010D	Magnesium	mg/kg	<20.0	12.0	20.0	X845077	19-Nov-18	
EPA 6010D	Manganese	mg/kg	<0.80	0.28	0.80	X845077	19-Nov-18	
EPA 6010D	Nickel	mg/kg	<1.00	0.24	1.00	X845077	19-Nov-18	
EPA 6010D	Selenium	mg/kg	<4.0	1.1	4.0	X845077	19-Nov-18	
EPA 6010D	Silver	mg/kg	<0.50	0.20	0.50	X845077	19-Nov-18	
EPA 6010D	Vanadium	mg/kg	<0.50	0.16	0.50	X845077	19-Nov-18	
EPA 6010D	Zinc	mg/kg	<1.0	0.3	1.0	X845077	19-Nov-18	
EPA 7471B	Mercury	mg/kg	<0.033	0.011	0.033	X845252	13-Nov-18	

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Total)									
EPA 6020B	Antimony	mg/kg	2.72	2.50	109	80 - 120	X845079	16-Nov-18	D1
EPA 6020B	Arsenic	mg/kg	2.50	2.50	100	80 - 120	X845078	15-Nov-18	D1
EPA 6020B	Thallium	mg/kg	2.42	2.50	96.9	80 - 120	X845078	15-Nov-18	D1
Metals (Total) by EPA 6000/7000 Methods									
EPA 6010D	Aluminum	mg/kg	100	100	100	80 - 120	X845077	19-Nov-18	
EPA 6010D	Barium	mg/kg	98.8	100	98.8	80 - 120	X845077	19-Nov-18	
EPA 6010D	Beryllium	mg/kg	97.8	100	97.8	80 - 120	X845077	19-Nov-18	
EPA 6010D	Cadmium	mg/kg	99.0	100	99.0	80 - 120	X845077	19-Nov-18	
EPA 6010D	Calcium	mg/kg	1820	2000	91.2	80 - 120	X845077	19-Nov-18	
EPA 6010D	Chromium	mg/kg	97.4	100	97.4	80 - 120	X845077	19-Nov-18	
EPA 6010D	Cobalt	mg/kg	99.8	100	99.8	80 - 120	X845077	19-Nov-18	
EPA 6010D	Copper	mg/kg	99.6	100	99.6	80 - 120	X845077	19-Nov-18	
EPA 6010D	Iron	mg/kg	966	1000	96.6	80 - 120	X845077	19-Nov-18	
EPA 6010D	Lead	mg/kg	96.0	100	96.0	80 - 120	X845077	19-Nov-18	
EPA 6010D	Magnesium	mg/kg	1960	2000	98.0	80 - 120	X845077	19-Nov-18	
EPA 6010D	Manganese	mg/kg	97.1	100	97.1	80 - 120	X845077	19-Nov-18	
EPA 6010D	Nickel	mg/kg	96.1	100	96.1	80 - 120	X845077	19-Nov-18	
EPA 6010D	Selenium	mg/kg	94.3	100	94.3	80 - 120	X845077	19-Nov-18	
EPA 6010D	Silver	mg/kg	4.88	5.00	97.6	80 - 120	X845077	19-Nov-18	
EPA 6010D	Vanadium	mg/kg	102	100	102	80 - 120	X845077	19-Nov-18	
EPA 6010D	Zinc	mg/kg	97.2	100	97.2	80 - 120	X845077	19-Nov-18	
EPA 7471B	Mercury	mg/kg	0.873	0.833	105	80 - 120	X845252	13-Nov-18	

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Project Name: North Fork 2018
Work Order: **X8K0030**
Reported: 20-Nov-18 14:19

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch ID	Analyzed	Notes
Percent Solids / Percent Moisture									
Percent Solids	% Solids	%	85.5	86.5	1.1	20	X845080	12-Nov-18	

Quality Control - MATRIX SPIKE Data

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Recovery	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Total)										
EPA 6020B	Antimony	mg/kg	3.89	1.78	2.89	73.2	75 - 125	X845079	16-Nov-18	D1,M4
EPA 6020B	Arsenic	mg/kg	14.6	9.18	2.89	187	75 - 125	X845078	15-Nov-18	D1,M4,R2B
EPA 6020B	Thallium	mg/kg	2.80	<0.100	2.89	95.0	75 - 125	X845078	15-Nov-18	D1
Metals (Total) by EPA 6000/7000 Methods										
EPA 6010D	Aluminum	mg/kg	12100	7200	116	0.30R>S	75 - 125	X845077	19-Nov-18	M3
EPA 6010D	Barium	mg/kg	240	62.1	116	154	75 - 125	X845077	19-Nov-18	M1,R2B
EPA 6010D	Beryllium	mg/kg	115	0.50	116	99.0	75 - 125	X845077	19-Nov-18	
EPA 6010D	Cadmium	mg/kg	118	0.84	116	101	75 - 125	X845077	19-Nov-18	
EPA 6010D	Calcium	mg/kg	3490	736	2310	119	75 - 125	X845077	19-Nov-18	R2B
EPA 6010D	Chromium	mg/kg	126	8.51	116	102	75 - 125	X845077	19-Nov-18	
EPA 6010D	Cobalt	mg/kg	128	6.49	116	105	75 - 125	X845077	19-Nov-18	
EPA 6010D	Copper	mg/kg	154	32.6	116	105	75 - 125	X845077	19-Nov-18	
EPA 6010D	Iron	mg/kg	38900	27300	1160	0.30R>S	75 - 125	X845077	19-Nov-18	M3
EPA 6010D	Lead	mg/kg	315	204	116	96.2	75 - 125	X845077	19-Nov-18	
EPA 6010D	Magnesium	mg/kg	9620	3280	2310	274	75 - 125	X845077	19-Nov-18	M1,R2B
EPA 6010D	Manganese	mg/kg	565	343	116	192	75 - 125	X845077	19-Nov-18	M1,R2B
EPA 6010D	Nickel	mg/kg	126	10.9	116	99.3	75 - 125	X845077	19-Nov-18	
EPA 6010D	Selenium	mg/kg	107	<4.6	116	92.9	75 - 125	X845077	19-Nov-18	
EPA 6010D	Silver	mg/kg	5.93	<0.58	5.78	103	75 - 125	X845077	19-Nov-18	
EPA 6010D	Vanadium	mg/kg	135	11.3	116	107	75 - 125	X845077	19-Nov-18	
EPA 6010D	Zinc	mg/kg	401	232	116	146	75 - 125	X845077	19-Nov-18	M1
EPA 7471B	Mercury	mg/kg	0.408	<0.038	0.385	106	75 - 125	X845252	13-Nov-18	

Quality Control - MATRIX SPIKE DUPLICATE Data

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	% Rec.	RPD	RPD Limit	Batch ID	Analyzed	Notes
Metals (Total)											
EPA 6020B	Antimony	mg/kg	3.91	3.89	2.89	73.7	0.4	20	X845079	16-Nov-18	D1,M4
EPA 6020B	Antimony	mg/kg	3.76	3.89	2.89	68.6	3.5	20	X845079	16-Nov-18	D1
EPA 6020B	Arsenic	mg/kg	18.0	14.6	2.89	307	21.2	20	X845078	15-Nov-18	D1,M4,R2B
EPA 6020B	Arsenic	mg/kg	16.6	14.6	0.00116	0.30R>S	12.7	20	X845078	15-Nov-18	D1
EPA 6020B	Thallium	mg/kg	2.76	2.80	2.89	93.6	1.5	20	X845078	15-Nov-18	D1
Metals (Total) by EPA 6000/7000 Methods											
EPA 6010D	Aluminum	mg/kg	9370	12100	116	0.30R>S	25.7	20	X845077	19-Nov-18	M3,R2B
EPA 6010D	Aluminum	mg/kg	12700	12100	116	0.30R>S	4.9	20	X845077	19-Nov-18	
EPA 6010D	Barium	mg/kg	178	240	116	101	29.5	20	X845077	19-Nov-18	R2B
EPA 6010D	Barium	mg/kg	250	240	116	162	3.9	20	X845077	19-Nov-18	
EPA 6010D	Beryllium	mg/kg	115	115	116	98.7	0.3	20	X845077	19-Nov-18	M2
EPA 6010D	Cadmium	mg/kg	118	118	116	102	0.8	20	X845077	19-Nov-18	
EPA 6010D	Calcium	mg/kg	2710	3490	2310	85.4	25.2	20	X845077	19-Nov-18	M2,R2B
EPA 6010D	Calcium	mg/kg	3740	3490	2310	130	6.8	20	X845077	19-Nov-18	

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Project Name: North Fork 2018
Work Order: **X8K0030**
Reported: 20-Nov-18 14:19

Quality Control - MATRIX SPIKE DUPLICATE Data (Continued)

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	% Rec.	RPD	RPD Limit	Batch ID	Analyzed	Notes
Metals (Total) by EPA 6000/7000 Methods (Continued)											
EPA 6010D	Chromium	mg/kg	122	126	116	97.9	3.5	20	X845077	19-Nov-18	
EPA 6010D	Cobalt	mg/kg	125	128	116	102	2.1	20	X845077	19-Nov-18	
EPA 6010D	Copper	mg/kg	177	154	116	125	13.6	20	X845077	19-Nov-18	
EPA 6010D	Iron	mg/kg	35400	38900	1160	0.30R>S	9.3	20	X845077	19-Nov-18	M3
EPA 6010D	Iron	mg/kg	40900	38900	1160	0.30R>S	5.1	20	X845077	19-Nov-18	
EPA 6010D	Lead	mg/kg	332	315	116	111	5.3	20	X845077	19-Nov-18	
EPA 6010D	Magnesium	mg/kg	4570	9620	2310	55.6	71.3	20	X845077	19-Nov-18	M2,R2B
EPA 6010D	Magnesium	mg/kg	10200	9620	2310	300	5.9	20	X845077	19-Nov-18	
EPA 6010D	Manganese	mg/kg	461	565	116	102	20.1	20	X845077	19-Nov-18	R2B
EPA 6010D	Manganese	mg/kg	596	565	116	219	5.4	20	X845077	19-Nov-18	
EPA 6010D	Nickel	mg/kg	133	126	116	106	5.7	20	X845077	19-Nov-18	
EPA 6010D	Selenium	mg/kg	107	107	116	92.6	0.3	20	X845077	19-Nov-18	
EPA 6010D	Silver	mg/kg	5.93	5.93	5.78	103	0.0	20	X845077	19-Nov-18	
EPA 6010D	Vanadium	mg/kg	130	135	116	103	3.6	20	X845077	19-Nov-18	
EPA 6010D	Zinc	mg/kg	360	401	116	111	10.6	20	X845077	19-Nov-18	
EPA 6010D	Zinc	mg/kg	433	401	116	174	7.8	20	X845077	19-Nov-18	
EPA 7471B	Mercury	mg/kg	0.420	0.408	0.385	109	2.8	20	X845252	13-Nov-18	

Notes and Definitions

D1	Sample required dilution due to matrix.
M1	Matrix spike recovery was high, but the LCS recovery was acceptable.
M2	Matrix spike recovery was low, but the LCS recovery was acceptable.
M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to spike level. The LCS was acceptable.
M4	The analysis of the spiked sample required a dilution such that the spike recovery calculation does not provide useful information. The LCS recovery was acceptable.
R2B	RPD exceeded the laboratory acceptance limit.
LCS	Laboratory Control Sample (Blank Spike)
RPD	Relative Percent Difference
UDL	A result is less than the detection limit
0.30R>S	% recovery not applicable; spike level is less than 30% of the sample concentration
<RL	A result is less than the reporting limit
MRL	Method Reporting Limit
MDL	Method Detection Limit
N/A	Not Applicable

Appendix C. QA/QC Review

Alta Science & Engineering, Inc.

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INTERNAL PROJECT MEMORANDUM

To: Shelley Hicks, Project Manager, Kellogg
Susan Spalinger, Principal, Moscow

From: Mara Thorhaug, Quality Assurance Manager, Kellogg

Date: November 29, 2018

Job Code: IDEQ Contract K157 TO #33A 17838-50

Subject: QA/QC Review of the 2018 North Fork Coeur d'Alene River Preliminary Assessment and Site Investigation Sampling

Section 1 Introduction

This memorandum provides a summary of the data validation and data quality assessment performed for sampling conducted from October 29 through 31, 2018 for the North Fork Coeur d'Alene River Preliminary Assessment and Site Investigation (PA/SI). Sampling procedures and the quality assurance (QA)/ quality control (QC) review followed guidelines set forth in the following documents:

- North Fork Coeur d'Alene River Preliminary Assessment and Site Investigation (PA/SI) Sampling Analysis Plan (SAP) / Quality Assurance Project Plan (QAPP) (Alta 2018)
- National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA 2017)
- Guidance on Environmental Data Verification and Data Validation (USEPA 2002)
- Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use (USEPA 2009)

This memorandum discusses the data quality assessment and data validation performed for the Sample Delivery Groups (SDGs) listed in Table 1. Data qualifiers used in this review are defined in the *National Functional Guidelines for Inorganic Superfund Methods Data Review* (USEPA 2017).

Table 1. SDG Data Validation Summary

Laboratory	SDG	Matrix	Analyses	Data Validation Level (USEPA 2009)	Review Conducted by
SVL	X8K0030	Sediment	Total Metals[a]	Stage 2A	Alta
	X8K0029	Sediment			
	X8K0022	Water			

[a] aluminum (Al), antimony (Sb), arsenic (As), barium (Ba), beryllium (Be), cadmium (Cd), calcium (Ca), chromium (Cr), cobalt (Co), copper (Cu), iron (Fe), lead (Pb), magnesium (Ma), manganese (Mn), mercury (Hg), nickel (Ni), selenium (Se), silver (Ag), thallium (Tl), vanadium (V), and zinc (Zn).

SDG = sample delivery group

USEPA = U.S. Environmental Protection Agency

Section 2 Data Validation and Quality Review Summary

SVL Analytical, Inc. (SVL) submitted all required deliverables. Attachment A contains the final reports from SVL. Alta's review of the field data and Stage 2A validation of the analytical data are summarized in Table 2. Procedures/checks that require further discussion are explained below the table, as necessary.

Table 2. Alta's Data Quality Review Summary

Data Validation/Review Procedure or Check	Acceptable Frequency? [a]	Acceptable Performance? [b]	Data Qualified?	Discussion Item Number
Sample condition upon receipt at laboratory	-	Y	N	-
Preservation	-	Y	N	-
Holding times	-	Y	N	-
Specified analytical methods used	-	Y	N	-
Method Blanks	Y	Y	N	-
Laboratory Control Samples	Y	Y	N	-
Matrix Spikes	Y	N	Y	1
Laboratory Duplicates and Matrix Spike Duplicates	Y	N	N	2
Field Blanks (Table 3)	Y	Y	N	-
Rinsate Blanks (Table 3)	Y	Y	N	-
Field Duplicates (Table 4)	Y	N	Y	3

[a] Frequencies and criteria as defined in the SAP/QAPP (Alta 2018).

[b] As defined in the SAP/QAPP (Alta 2018), *National Functional Guidelines for Inorganic Superfund Data Review* (USEPA 2017), or based on professional judgment of the data validator.

-- = not applicable

Discussion Items

1. Matrix Spikes:
    a. For SDG X8K0030:
        i. The matrix spike (MS) results for aluminum and iron are not usable because the parent sample concentrations are more than four times the spike concentration. No aluminum or iron data were qualified due to MS results because the Laboratory Control Sample (LCS) results were acceptable.
        ii. The MS result for antimony (73.2%) was lower than the limit in the SAP/QAPP and no post-digestion spike was analyzed. All antimony results in this SDG were qualified as estimates, biased low (J-).
        iii. The MS results for arsenic (187%), barium (154%), magnesium (274%), manganese (192%), and zinc (146%) are above the limit specified in the SAP/QAPP and no post-digestion spike was analyzed. All arsenic, barium, magnesium, manganese, and zinc results in this SDG were qualified as estimates, biased high (J+).
    b. For SDG X8K0029:
        i. The MS results for aluminum, arsenic, and iron are not usable because the parent sample concentrations are more than four times the spike concentration. No aluminum, arsenic, or iron data were qualified due to MS results because the LCS results were acceptable.
        ii. The percent recovery for manganese (63.5%) was lower than the limits specified in the SAP/QAPP. All manganese results in this SDG were qualified as estimates, biased low (J-).
2. Matrix Spike Duplicates:
    a. For SDG X8K0030:
        i. The Matrix Spike Duplicate (MSD) results for aluminum and iron are not usable because the parent sample concentrations are more than four times the spike concentration; therefore, it is not possible to assess precision. No data were qualified based on MSD results.
        ii. Relative percent difference (RPD) for magnesium (71.3) was above the limit specified in the SAP/QAPP. Magnesium results were qualified due to MS results as described in 1; therefore, no additional qualifiers were applied.
    b. For SDG X8K0029:
        i. The MS/MSD results for aluminum, arsenic, and iron are not usable because the parent sample concentrations are more than four times the spike concentrations; therefore, it is not possible to assess precision. All other relative percent differences (RPDs) were within the limit specified in the QAPP. No data were qualified.
3. Field Duplicates: The RPDs for copper, iron, nickel, vanadium, and mercury were more than the limit specified in the SAP/QAPP for NF-SD-16 and NF-SD-17; therefore, those results for both samples were qualified as estimates (J).

Table 3. Field and Rinsate Blank Analysis

Sample Type:	Field Blank	Rinsate Blanks		
Site Name:	NF-SW18	NF-SW8	NF-SW16	NF-SW22
Sample Date:	10/30/2018	10/29/2018	10/30/2016	10/31/2018
Analyte	Concentration (mg/L)	Concentration (mg/L)	Concentration (mg/L)	Concentration (mg/L)
Silver	0.0050 U	0.0050 U	0.0050 U	0.0050 U
Aluminum	0.080 U	0.080 U	0.080 U	0.080 U
Arsenic	0.00021 U	0.00021 U	0.00021 U	0.00021 U
Barium	0.0020 U	0.0020 U	0.0020 U	0.0020 U
Beryllium	0.0020 U	0.0020 U	0.0020 U	0.0020 U
Calcium	0.10 U	0.10 U	0.10 U	0.10 U
Cadmium	0.0020 U	0.0020 U	0.0020 U	0.0020 U
Cobalt	0.0060 U	0.0060 U	0.0060 U	0.0060 U
Chromium	0.0060 U	0.0060 U	0.0060 U	0.0060 U
Copper	0.010 U	0.010 U	0.010 U	0.010 U
Iron	0.10 U	0.10 U	0.10 U	0.10 U
Mercury	0.00020 U	0.00020 U	0.00020 U	0.00020 U
Magnesium	0.50 U	0.50 U	0.50 U	0.50 U
Manganese	0.0080 U	0.0080 U	0.0080 U	0.0080 U
Nickel	0.010 U	0.010 U	0.010 U	0.010 U
Lead	0.0075 U	0.0075 U	0.0075 U	0.0075 U
Antimony	0.0030 U	0.0030 U	0.0030 U	0.0030 U
Selenium	0.040 U	0.040 U	0.040 U	0.040 U
Thallium	0.0010 U	0.0010 U	0.0010 U	0.0010 U
Vanadium	0.0050 U	0.0050 U	0.0050 U	0.0050 U
Zinc	0.010 U	0.010 U	0.010 U	0.010 U

mg/L = milligrams per liter

U = concentration was not detected

Table 4. Duplicate Sample Analysis

	Water				Sediment							
SampleID:	NF-SW-12		NF-SW-13		NF-SD-16		NF-SD-17			NF-SD-25		NF-SD-26		
Sample Type:	Original		Duplicate		Original		Duplicate			Original		Duplicate		
Analyte	Concentration (mg/L)		Concentration (mg/L)		Concentration (mg/kg)		Concentration (mg/kg)		RPD	Concentration (mg/kg)		Concentration (mg/kg)		RPD
Silver	0.00500	U	0.00500	U	NA	0.500	U	0.590	U	NA	0.670	U	0.690	U	NA
Aluminum	0.0800	U	0.0800	U	NA	6,530		4,650		21%	5,900		6,100		2%
Barium	0.0207		0.0203		1%	62.7		38.2		30%	59.8	J+	81.6	J+	22%
Beryllium	0.00200	U	0.00200	U	NA	0.390		0.240	U	29%	0.470		0.470		0%
Calcium	6.00		5.98		0%	599		541		7%	403		475		11%
Cadmium	0.00200	U	0.00200	U	NA	0.380		0.310		13%	0.680		0.620		6%
Cobalt	0.00600	U	0.00600	U	NA	6.93		4.03		32%	6.09		8.21		21%
Chromium	0.00600	U	0.00600	U	NA	6.69		5.35		14%	6.49		7.17		7%
Copper	0.0100	U	0.0100	U	NA	36.1		10.8		**61%**	33.3		36.0		5%
Iron	0.100	U	0.100	U	NA	28,600		14,200		**40%**	25,100		26,900		5%
Magnesium	2.68		2.69		0%	3,410		2,610		17%	2,420	J+	2,290	J+	4%
Manganese	0.00800	U	0.00800	U	NA	268	J-	219	J-	13%	350	J+	422	J+	13%
Nickel	0.0100	U	0.0100	U	NA	13.6		6.93		**39%**	10.1		10.5		3%
Lead	0.00750	U	0.00750	U	NA	88.1		58.6		25%	194		215		7%
Selenium	0.0400	U	0.0400	U	NA	4.00	U	4.70	U	NA	5.40	U	5.50	U	NA
Vanadium	0.00500	U	0.00500	U	NA	15.9		5.59		**55%**	8.16		8.98		6%
Zinc	0.0100	U	0.0100	U	NA	129		92.7		21%	196	J+	196	J+	0%
Arsenic	0.000210	U	0.000210	U	NA	7.81		10.7		22%	11.0	J+	13.4	J+	14%
Antimony	0.00300	U	0.00300	U	NA	0.862		0.870		1%	1.13	J-	0.864	J-	17%
Thallium	0.00100	U	0.00100	U	NA	0.100	U	0.100	U	NA	0.100	U	0.100	U	NA
Mercury	0.000200	U	0.000200	U	NA	0.0330	U	0.112		**89%**	0.0440	U	0.0460	U	NA

RPD = Relative Percent Difference = ABS(X1-X2)/((X1+X2)/2)
X1 = Original Concentration
X2 = Duplicate Concentration

mg/kg = milligrams per kilogram
NA = not applicable
RPD goal of 20% for water, 35% for sediment (Alta 2018): bold values exceed the RPD goal.

Section 3 Overall Assessment

Based on this data quality review, the laboratory and field data are determined to be of acceptable quality and meet the data quality objectives for representativeness and comparability. Accuracy and precision are also considered acceptable, with the exceptions discussed above. Final data and qualifiers are included in Attachment B. No laboratory or field data were rejected based on this data quality review. Completeness for this sampling event is calculated at 100% according to the method in the SAP/QAPP (Alta 2018).

Section 4 References

Alta Science & Engineering, Inc. (Alta), 2018. North Fork Coeur d'Alene River Preliminary Assessment and Site Investigation (PA/SI) Sampling Analysis Plan (SAP) / Quality Assurance Project Plan (QAPP). Prepared for the Idaho Department of Environmental Quality; October 22.

U.S. Environmental Protection Agency (USEPA), 2002. Guidance on Environmental Data Verification and Data Validation. USEPA QA/G-8; November.

USEPA, 2009. Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use. OSWER No. 9200.1-85, EPA 540-R-08-005 prepared by the Office of Solid Waste and Emergency Response; January.

USEPA, 2017. National Functional Guidelines for Inorganic Superfund Methods Data Review, EPA 540-R-2017-001. January.

Attachment A
Laboratory Reports

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www.svl.net

Alta Science and Engineering - Kellogg
108 W. Idaho Street
Kellogg, ID 83837

Project Name: North Fork 2018
Work Order: **X8K0022**
Reported: 19-Nov-18 14:48

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
NF-SW1	X8K0022-01	Surface Water	29-Oct-18 09:45	GM	01-Nov-2018	
NF-SW2	X8K0022-02	Surface Water	29-Oct-18 10:10	GM	01-Nov-2018	
NF-SW3	X8K0022-03	Surface Water	29-Oct-18 10:45	GM	01-Nov-2018	
NF-SW4	X8K0022-04	Surface Water	29-Oct-18 11:50	GM	01-Nov-2018	
NF-SW5	X8K0022-05	Surface Water	29-Oct-18 12:15	GM	01-Nov-2018	
NF-SW6	X8K0022-06	Surface Water	29-Oct-18 12:30	GM	01-Nov-2018	
NF-SW7	X8K0022-07	Surface Water	29-Oct-18 13:50	GM	01-Nov-2018	
NF-SW8	X8K0022-08	Rinsate	29-Oct-18 14:15	GM	01-Nov-2018	
NF-SW9	X8K0022-09	Surface Water	30-Oct-18 10:40	GM	01-Nov-2018	
NF-SW10	X8K0022-10	Surface Water	30-Oct-18 11:20	GM	01-Nov-2018	
NF-SW11	X8K0022-11	Surface Water	30-Oct-18 11:40	GM	01-Nov-2018	
NF-SW12	X8K0022-12	Surface Water	30-Oct-18 12:10	GM	01-Nov-2018	
NF-SW13	X8K0022-13	Surface Water	30-Oct-18 12:10	GM	01-Nov-2018	
NF-SW14	X8K0022-14	Surface Water	30-Oct-18 13:55	GM	01-Nov-2018	
NF-SW15	X8K0022-15	Surface Water	30-Oct-18 14:15	GM	01-Nov-2018	
NF-SW16	X8K0022-16	Rinsate	30-Oct-18 14:35	GM	01-Nov-2018	
NF-SW17	X8K0022-17	Surface Water	30-Oct-18 14:45	GM	01-Nov-2018	
NF-SW18	X8K0022-18	DI Water	30-Oct-18 15:15	GM	01-Nov-2018	
NF-SW19	X8K0022-19	Surface Water	31-Oct-18 10:30	GM	01-Nov-2018	
NF-SW20	X8K0022-20	Surface Water	31-Oct-18 11:20	GM	01-Nov-2018	
NF-SW21	X8K0022-21	Surface Water	31-Oct-18 11:40	GM	01-Nov-2018	
NF-SW22	X8K0022-22	Rinsate	31-Oct-18 12:15	GM	01-Nov-2018	

Solid samples are analyzed on an as-received, wet-weight basis, unless otherwise requested.
Sample preparation is defined by the client as per their Data Quality Objectives.
This report supercedes any previous reports for this Work Order. The complete report includes pages for each sample, a full QC report, and a notes section.
Analyses were performed in accordance with SVL standard operating procedures and calibrations were performed and met SVL internal QC criteria.
The results presented in this report relate only to the samples, and meet all requirements of the NELAC Standards unless otherwise noted.

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Alta Science and Engineering - Kellogg
108 W. Idaho Street
Kellogg, ID 83837

Project Name: North Fork 2018
Work Order: **X8K0022**
Reported: 19-Nov-18 14:48

Client Sample ID: **NF-SW1**
SVL Sample ID: **X8K0022-01 (Surface Water)**

Sampled: 29-Oct-18 09:45
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.00020	mg/L	0.00020	0.000093		X845226	DPW	11/16/18 13:05	
Metals (Total Recoverable)										
EPA 6010D	Aluminum	< 0.08	mg/L	0.08	0.05		X845054	DT	11/19/18 10:10	
EPA 6010D	**Barium**	0.0166	mg/L	0.0020	0.0019		X845054	DT	11/19/18 10:10	
EPA 6010D	Beryllium	< 0.0020	mg/L	0.0020	0.0017		X845054	DT	11/19/18 10:10	
EPA 6010D	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X845054	DT	11/19/18 10:10	
EPA 6010D	**Calcium**	4.86	mg/L	0.100	0.069		X845054	DT	11/19/18 10:10	
EPA 6010D	Chromium	< 0.0060	mg/L	0.0060	0.0020		X845054	DT	11/19/18 10:10	
EPA 6010D	Cobalt	< 0.0060	mg/L	0.0060	0.0016		X845054	DT	11/19/18 10:10	
EPA 6010D	Copper	< 0.0100	mg/L	0.0100	0.0027		X845054	DT	11/19/18 10:10	
EPA 6010D	Iron	< 0.100	mg/L	0.100	0.056		X845054	DT	11/19/18 10:10	
EPA 6010D	Lead	< 0.0075	mg/L	0.0075	0.0049		X845054	DT	11/19/18 10:10	
EPA 6010D	**Magnesium**	1.98	mg/L	0.50	0.32		X845054	DT	11/19/18 10:10	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0034		X845054	DT	11/19/18 10:10	
EPA 6010D	Nickel	< 0.0100	mg/L	0.0100	0.0023		X845054	DT	11/19/18 10:10	
EPA 6010D	Selenium	< 0.040	mg/L	0.040	0.012		X845054	DT	11/19/18 10:10	
EPA 6010D	Silver	< 0.0050	mg/L	0.0050	0.0019		X845054	DT	11/19/18 10:10	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X845054	DT	11/19/18 10:10	
EPA 6010D	Zinc	< 0.010	mg/L	0.010	0.005		X845054	DT	11/19/18 10:10	
EPA 6020B	Antimony	< 0.00300	mg/L	0.00300	0.00023		X845097	KWH	11/15/18 11:16	
EPA 6020B	Arsenic	< 0.00021	mg/L	0.00150	0.00021		X845097	KWH	11/15/18 11:16	U
EPA 6020B	Thallium	< 0.00100	mg/L	0.00100	0.00008		X845097	KWH	11/15/18 11:16	

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.



Sophie Milam
Project Manager

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Project Name: North Fork 2018
Work Order: **X8K0022**
Reported: 19-Nov-18 14:48

Client Sample ID: **NF-SW2**
SVL Sample ID: **X8K0022-02 (Surface Water)**

Sampled: 29-Oct-18 10:10
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.00020	mg/L	0.00020	0.000093		X845226	DPW	11/16/18 13:07	
Metals (Total Recoverable)										
EPA 6010D	Aluminum	< 0.08	mg/L	0.08	0.05		X845054	DT	11/19/18 10:13	
EPA 6010D	**Barium**	0.0124	mg/L	0.0020	0.0019		X845054	DT	11/19/18 10:13	
EPA 6010D	Beryllium	< 0.0020	mg/L	0.0020	0.0017		X845054	DT	11/19/18 10:13	
EPA 6010D	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X845054	DT	11/19/18 10:13	
EPA 6010D	**Calcium**	3.89	mg/L	0.100	0.069		X845054	DT	11/19/18 10:13	
EPA 6010D	Chromium	< 0.0060	mg/L	0.0060	0.0020		X845054	DT	11/19/18 10:13	
EPA 6010D	Cobalt	< 0.0060	mg/L	0.0060	0.0016		X845054	DT	11/19/18 10:13	
EPA 6010D	Copper	< 0.0100	mg/L	0.0100	0.0027		X845054	DT	11/19/18 10:13	
EPA 6010D	Iron	< 0.100	mg/L	0.100	0.056		X845054	DT	11/19/18 10:13	
EPA 6010D	Lead	< 0.0075	mg/L	0.0075	0.0049		X845054	DT	11/19/18 10:13	
EPA 6010D	**Magnesium**	1.44	mg/L	0.50	0.32		X845054	DT	11/19/18 10:13	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0034		X845054	DT	11/19/18 10:13	
EPA 6010D	Nickel	< 0.0100	mg/L	0.0100	0.0023		X845054	DT	11/19/18 10:13	
EPA 6010D	Selenium	< 0.040	mg/L	0.040	0.012		X845054	DT	11/19/18 10:13	
EPA 6010D	Silver	< 0.0050	mg/L	0.0050	0.0019		X845054	DT	11/19/18 10:13	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X845054	DT	11/19/18 10:13	
EPA 6010D	Zinc	< 0.010	mg/L	0.010	0.005		X845054	DT	11/19/18 10:13	
EPA 6020B	Antimony	< 0.00300	mg/L	0.00300	0.00023		X845097	KWH	11/15/18 11:19	
EPA 6020B	Arsenic	< 0.00021	mg/L	0.00150	0.00021		X845097	KWH	11/15/18 11:19	U
EPA 6020B	Thallium	< 0.00100	mg/L	0.00100	0.00008		X845097	KWH	11/15/18 11:19	

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.



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Project Name: North Fork 2018
Work Order: **X8K0022**
Reported: 19-Nov-18 14:48

Client Sample ID: **NF-SW3**
SVL Sample ID: **X8K0022-03 (Surface Water)**

Sampled: 29-Oct-18 10:45
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.00020	mg/L	0.00020	0.000093		X845226	DPW	11/16/18 13:09	
Metals (Total Recoverable)										
EPA 6010D	Aluminum	< 0.08	mg/L	0.08	0.05		X845054	DT	11/19/18 10:17	
EPA 6010D	**Barium**	0.0196	mg/L	0.0020	0.0019		X845054	DT	11/19/18 10:17	
EPA 6010D	Beryllium	< 0.0020	mg/L	0.0020	0.0017		X845054	DT	11/19/18 10:17	
EPA 6010D	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X845054	DT	11/19/18 10:17	
EPA 6010D	**Calcium**	5.74	mg/L	0.100	0.069		X845054	DT	11/19/18 10:17	
EPA 6010D	Chromium	< 0.0060	mg/L	0.0060	0.0020		X845054	DT	11/19/18 10:17	
EPA 6010D	Cobalt	< 0.0060	mg/L	0.0060	0.0016		X845054	DT	11/19/18 10:17	
EPA 6010D	Copper	< 0.0100	mg/L	0.0100	0.0027		X845054	DT	11/19/18 10:17	
EPA 6010D	Iron	< 0.100	mg/L	0.100	0.056		X845054	DT	11/19/18 10:17	
EPA 6010D	Lead	< 0.0075	mg/L	0.0075	0.0049		X845054	DT	11/19/18 10:17	
EPA 6010D	**Magnesium**	2.45	mg/L	0.50	0.32		X845054	DT	11/19/18 10:17	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0034		X845054	DT	11/19/18 10:17	
EPA 6010D	Nickel	< 0.0100	mg/L	0.0100	0.0023		X845054	DT	11/19/18 10:17	
EPA 6010D	Selenium	< 0.040	mg/L	0.040	0.012		X845054	DT	11/19/18 10:17	
EPA 6010D	Silver	< 0.0050	mg/L	0.0050	0.0019		X845054	DT	11/19/18 10:17	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X845054	DT	11/19/18 10:17	
EPA 6010D	**Zinc**	0.010	mg/L	0.010	0.005		X845054	DT	11/19/18 10:17	
EPA 6020B	Antimony	< 0.00300	mg/L	0.00300	0.00023		X845097	KWH	11/15/18 11:21	
EPA 6020B	Arsenic	< 0.00021	mg/L	0.00150	0.00021		X845097	KWH	11/15/18 11:21	U
EPA 6020B	Thallium	< 0.00100	mg/L	0.00100	0.00008		X845097	KWH	11/15/18 11:21	

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

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Project Name: North Fork 2018
Work Order: **X8K0022**
Reported: 19-Nov-18 14:48

Client Sample ID: **NF-SW4**
SVL Sample ID: **X8K0022-04 (Surface Water)**

Sampled: 29-Oct-18 11:50
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.00020	mg/L	0.00020	0.000093		X845226	DPW	11/16/18 13:10	
Metals (Total Recoverable)										
EPA 6010D	Aluminum	< 0.08	mg/L	0.08	0.05		X845054	DT	11/19/18 10:21	
EPA 6010D	**Barium**	0.0090	mg/L	0.0020	0.0019		X845054	DT	11/19/18 10:21	
EPA 6010D	Beryllium	< 0.0020	mg/L	0.0020	0.0017		X845054	DT	11/19/18 10:21	
EPA 6010D	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X845054	DT	11/19/18 10:21	
EPA 6010D	**Calcium**	1.66	mg/L	0.100	0.069		X845054	DT	11/19/18 10:21	
EPA 6010D	Chromium	< 0.0060	mg/L	0.0060	0.0020		X845054	DT	11/19/18 10:21	
EPA 6010D	Cobalt	< 0.0060	mg/L	0.0060	0.0016		X845054	DT	11/19/18 10:21	
EPA 6010D	Copper	< 0.0100	mg/L	0.0100	0.0027		X845054	DT	11/19/18 10:21	
EPA 6010D	Iron	< 0.100	mg/L	0.100	0.056		X845054	DT	11/19/18 10:21	
EPA 6010D	Lead	< 0.0075	mg/L	0.0075	0.0049		X845054	DT	11/19/18 10:21	
EPA 6010D	Magnesium	< 0.50	mg/L	0.50	0.32		X845054	DT	11/19/18 10:21	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0034		X845054	DT	11/19/18 10:21	
EPA 6010D	Nickel	< 0.0100	mg/L	0.0100	0.0023		X845054	DT	11/19/18 10:21	
EPA 6010D	Selenium	< 0.040	mg/L	0.040	0.012		X845054	DT	11/19/18 10:21	
EPA 6010D	Silver	< 0.0050	mg/L	0.0050	0.0019		X845054	DT	11/19/18 10:21	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X845054	DT	11/19/18 10:21	
EPA 6010D	Zinc	< 0.010	mg/L	0.010	0.005		X845054	DT	11/19/18 10:21	
EPA 6020B	Antimony	< 0.00300	mg/L	0.00300	0.00023		X845097	KWH	11/15/18 11:23	
EPA 6020B	Arsenic	< 0.00021	mg/L	0.00150	0.00021		X845097	KWH	11/15/18 11:23	U
EPA 6020B	Thallium	< 0.00100	mg/L	0.00100	0.00008		X845097	KWH	11/15/18 11:23	

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Project Name: North Fork 2018
Work Order: **X8K0022**
Reported: 19-Nov-18 14:48

Client Sample ID: **NF-SW5**
SVL Sample ID: **X8K0022-05 (Surface Water)**

Sampled: 29-Oct-18 12:15
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.00020	mg/L	0.00020	0.000093		X845226	DPW	11/16/18 13:12	
Metals (Total Recoverable)										
EPA 6010D	Aluminum	< 0.08	mg/L	0.08	0.05		X845054	DT	11/19/18 10:24	
EPA 6010D	**Barium**	0.0175	mg/L	0.0020	0.0019		X845054	DT	11/19/18 10:24	
EPA 6010D	Beryllium	< 0.0020	mg/L	0.0020	0.0017		X845054	DT	11/19/18 10:24	
EPA 6010D	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X845054	DT	11/19/18 10:24	
EPA 6010D	**Calcium**	5.40	mg/L	0.100	0.069		X845054	DT	11/19/18 10:24	
EPA 6010D	Chromium	< 0.0060	mg/L	0.0060	0.0020		X845054	DT	11/19/18 10:24	
EPA 6010D	Cobalt	< 0.0060	mg/L	0.0060	0.0016		X845054	DT	11/19/18 10:24	
EPA 6010D	Copper	< 0.0100	mg/L	0.0100	0.0027		X845054	DT	11/19/18 10:24	
EPA 6010D	Iron	< 0.100	mg/L	0.100	0.056		X845054	DT	11/19/18 10:24	
EPA 6010D	Lead	< 0.0075	mg/L	0.0075	0.0049		X845054	DT	11/19/18 10:24	
EPA 6010D	**Magnesium**	2.30	mg/L	0.50	0.32		X845054	DT	11/19/18 10:24	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0034		X845054	DT	11/19/18 10:24	
EPA 6010D	Nickel	< 0.0100	mg/L	0.0100	0.0023		X845054	DT	11/19/18 10:24	
EPA 6010D	Selenium	< 0.040	mg/L	0.040	0.012		X845054	DT	11/19/18 10:24	
EPA 6010D	Silver	< 0.0050	mg/L	0.0050	0.0019		X845054	DT	11/19/18 10:24	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X845054	DT	11/19/18 10:24	
EPA 6010D	Zinc	< 0.010	mg/L	0.010	0.005		X845054	DT	11/19/18 10:24	
EPA 6020B	Antimony	< 0.00300	mg/L	0.00300	0.00023		X845097	KWH	11/15/18 11:25	
EPA 6020B	Arsenic	< 0.00021	mg/L	0.00150	0.00021		X845097	KWH	11/15/18 11:25	U
EPA 6020B	Thallium	< 0.00100	mg/L	0.00100	0.00008		X845097	KWH	11/15/18 11:25	

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Project Name: North Fork 2018
Work Order: **X8K0022**
Reported: 19-Nov-18 14:48

Client Sample ID: **NF-SW6**
SVL Sample ID: **X8K0022-06 (Surface Water)**

Sampled: 29-Oct-18 12:30
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.00020	mg/L	0.00020	0.000093		X845226	DPW	11/16/18 13:14	
Metals (Total Recoverable)										
EPA 6010D	Aluminum	< 0.08	mg/L	0.08	0.05		X845054	DT	11/19/18 10:28	
EPA 6010D	**Barium**	0.0183	mg/L	0.0020	0.0019		X845054	DT	11/19/18 10:28	
EPA 6010D	Beryllium	< 0.0020	mg/L	0.0020	0.0017		X845054	DT	11/19/18 10:28	
EPA 6010D	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X845054	DT	11/19/18 10:28	
EPA 6010D	**Calcium**	5.75	mg/L	0.100	0.069		X845054	DT	11/19/18 10:28	
EPA 6010D	Chromium	< 0.0060	mg/L	0.0060	0.0020		X845054	DT	11/19/18 10:28	
EPA 6010D	Cobalt	< 0.0060	mg/L	0.0060	0.0016		X845054	DT	11/19/18 10:28	
EPA 6010D	Copper	< 0.0100	mg/L	0.0100	0.0027		X845054	DT	11/19/18 10:28	
EPA 6010D	Iron	< 0.100	mg/L	0.100	0.056		X845054	DT	11/19/18 10:28	
EPA 6010D	Lead	< 0.0075	mg/L	0.0075	0.0049		X845054	DT	11/19/18 10:28	
EPA 6010D	**Magnesium**	2.41	mg/L	0.50	0.32		X845054	DT	11/19/18 10:28	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0034		X845054	DT	11/19/18 10:28	
EPA 6010D	Nickel	< 0.0100	mg/L	0.0100	0.0023		X845054	DT	11/19/18 10:28	
EPA 6010D	Selenium	< 0.040	mg/L	0.040	0.012		X845054	DT	11/19/18 10:28	
EPA 6010D	Silver	< 0.0050	mg/L	0.0050	0.0019		X845054	DT	11/19/18 10:28	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X845054	DT	11/19/18 10:28	
EPA 6010D	Zinc	< 0.010	mg/L	0.010	0.005		X845054	DT	11/19/18 10:28	
EPA 6020B	Antimony	< 0.00300	mg/L	0.00300	0.00023		X845097	KWH	11/15/18 11:31	
EPA 6020B	Arsenic	< 0.00021	mg/L	0.00150	0.00021		X845097	KWH	11/15/18 11:31	U
EPA 6020B	Thallium	< 0.00100	mg/L	0.00100	0.00008		X845097	KWH	11/15/18 11:31	

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Project Name: North Fork 2018
Work Order: **X8K0022**
Reported: 19-Nov-18 14:48

Client Sample ID: **NF-SW7**
SVL Sample ID: **X8K0022-07 (Surface Water)**

Sampled: 29-Oct-18 13:50
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.00020	mg/L	0.00020	0.000093		X845226	DPW	11/16/18 13:16	
Metals (Total Recoverable)										
EPA 6010D	Aluminum	< 0.08	mg/L	0.08	0.05		X845054	DT	11/19/18 10:32	
EPA 6010D	**Barium**	0.0247	mg/L	0.0020	0.0019		X845054	DT	11/19/18 10:32	
EPA 6010D	Beryllium	< 0.0020	mg/L	0.0020	0.0017		X845054	DT	11/19/18 10:32	
EPA 6010D	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X845054	DT	11/19/18 10:32	
EPA 6010D	**Calcium**	6.07	mg/L	0.100	0.069		X845054	DT	11/19/18 10:32	
EPA 6010D	Chromium	< 0.0060	mg/L	0.0060	0.0020		X845054	DT	11/19/18 10:32	
EPA 6010D	Cobalt	< 0.0060	mg/L	0.0060	0.0016		X845054	DT	11/19/18 10:32	
EPA 6010D	Copper	< 0.0100	mg/L	0.0100	0.0027		X845054	DT	11/19/18 10:32	
EPA 6010D	Iron	< 0.100	mg/L	0.100	0.056		X845054	DT	11/19/18 10:32	
EPA 6010D	Lead	< 0.0075	mg/L	0.0075	0.0049		X845054	DT	11/19/18 10:32	
EPA 6010D	**Magnesium**	3.55	mg/L	0.50	0.32		X845054	DT	11/19/18 10:32	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0034		X845054	DT	11/19/18 10:32	
EPA 6010D	Nickel	< 0.0100	mg/L	0.0100	0.0023		X845054	DT	11/19/18 10:32	
EPA 6010D	Selenium	< 0.040	mg/L	0.040	0.012		X845054	DT	11/19/18 10:32	
EPA 6010D	Silver	< 0.0050	mg/L	0.0050	0.0019		X845054	DT	11/19/18 10:32	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X845054	DT	11/19/18 10:32	
EPA 6010D	Zinc	< 0.010	mg/L	0.010	0.005		X845054	DT	11/19/18 10:32	
EPA 6020B	Antimony	< 0.00300	mg/L	0.00300	0.00023		X845097	KWH	11/15/18 11:33	
EPA 6020B	Arsenic	< 0.00021	mg/L	0.00150	0.00021		X845097	KWH	11/15/18 11:33	U
EPA 6020B	Thallium	< 0.00100	mg/L	0.00100	0.00008		X845097	KWH	11/15/18 11:33	

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Project Name: North Fork 2018
Work Order: **X8K0022**
Reported: 19-Nov-18 14:48

Client Sample ID: **NF-SW8**
SVL Sample ID: **X8K0022-08 (Rinsate)**

Sampled: 29-Oct-18 14:15
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.00020	mg/L	0.00020	0.000093		X845226	DPW	11/16/18 13:21	
Metals (Total Recoverable)										
EPA 6010D	Aluminum	< 0.08	mg/L	0.08	0.05		X845054	DT	11/19/18 10:35	
EPA 6010D	Barium	< 0.0020	mg/L	0.0020	0.0019		X845054	DT	11/19/18 10:35	
EPA 6010D	Beryllium	< 0.0020	mg/L	0.0020	0.0017		X845054	DT	11/19/18 10:35	
EPA 6010D	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X845054	DT	11/19/18 10:35	
EPA 6010D	Calcium	< 0.100	mg/L	0.100	0.069		X845054	DT	11/19/18 10:35	
EPA 6010D	Chromium	< 0.0060	mg/L	0.0060	0.0020		X845054	DT	11/19/18 10:35	
EPA 6010D	Cobalt	< 0.0060	mg/L	0.0060	0.0016		X845054	DT	11/19/18 10:35	
EPA 6010D	Copper	< 0.0100	mg/L	0.0100	0.0027		X845054	DT	11/19/18 10:35	
EPA 6010D	Iron	< 0.100	mg/L	0.100	0.056		X845054	DT	11/19/18 10:35	
EPA 6010D	Lead	< 0.0075	mg/L	0.0075	0.0049		X845054	DT	11/19/18 10:35	
EPA 6010D	Magnesium	< 0.50	mg/L	0.50	0.32		X845054	DT	11/19/18 10:35	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0034		X845054	DT	11/19/18 10:35	
EPA 6010D	Nickel	< 0.0100	mg/L	0.0100	0.0023		X845054	DT	11/19/18 10:35	
EPA 6010D	Selenium	< 0.040	mg/L	0.040	0.012		X845054	DT	11/19/18 10:35	
EPA 6010D	Silver	< 0.0050	mg/L	0.0050	0.0019		X845054	DT	11/19/18 10:35	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X845054	DT	11/19/18 10:35	
EPA 6010D	Zinc	< 0.010	mg/L	0.010	0.005		X845054	DT	11/19/18 10:35	
EPA 6020B	Antimony	< 0.00300	mg/L	0.00300	0.00023		X845097	KWH	11/15/18 11:36	
EPA 6020B	Arsenic	< 0.00021	mg/L	0.00150	0.00021		X845097	KWH	11/15/18 11:36	U
EPA 6020B	Thallium	< 0.00100	mg/L	0.00100	0.00008		X845097	KWH	11/15/18 11:36	

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Project Name: North Fork 2018
Work Order: **X8K0022**
Reported: 19-Nov-18 14:48

Client Sample ID: **NF-SW9**
SVL Sample ID: **X8K0022-09 (Surface Water)**

Sampled: 30-Oct-18 10:40
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.00050	mg/L	0.00050	0.00023		X845226	DPW	11/16/18 13:23	D1
Metals (Total Recoverable)										
EPA 6010D	Aluminum	< 0.08	mg/L	0.08	0.05		X845054	DT	11/19/18 10:47	
EPA 6010D	**Barium**	0.0256	mg/L	0.0020	0.0019		X845054	DT	11/19/18 10:47	
EPA 6010D	Beryllium	< 0.0020	mg/L	0.0020	0.0017		X845054	DT	11/19/18 10:47	
EPA 6010D	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X845054	DT	11/19/18 10:47	
EPA 6010D	**Calcium**	17.5	mg/L	0.100	0.069		X845054	DT	11/19/18 10:47	
EPA 6010D	Chromium	< 0.0060	mg/L	0.0060	0.0020		X845054	DT	11/19/18 10:47	
EPA 6010D	Cobalt	< 0.0060	mg/L	0.0060	0.0016		X845054	DT	11/19/18 10:47	
EPA 6010D	Copper	< 0.0100	mg/L	0.0100	0.0027		X845054	DT	11/19/18 10:47	
EPA 6010D	Iron	< 0.100	mg/L	0.100	0.056		X845054	DT	11/19/18 10:47	
EPA 6010D	Lead	< 0.0075	mg/L	0.0075	0.0049		X845054	DT	11/19/18 10:47	
EPA 6010D	**Magnesium**	6.84	mg/L	0.50	0.32		X845054	DT	11/19/18 10:47	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0034		X845054	DT	11/19/18 10:47	
EPA 6010D	Nickel	< 0.0100	mg/L	0.0100	0.0023		X845054	DT	11/19/18 10:47	
EPA 6010D	Selenium	< 0.040	mg/L	0.040	0.012		X845054	DT	11/19/18 10:47	
EPA 6010D	Silver	< 0.0050	mg/L	0.0050	0.0019		X845054	DT	11/19/18 10:47	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X845054	DT	11/19/18 10:47	
EPA 6010D	Zinc	< 0.010	mg/L	0.010	0.005		X845054	DT	11/19/18 10:47	
EPA 6020B	Antimony	< 0.00300	mg/L	0.00300	0.00023		X845097	KWH	11/15/18 11:10	
EPA 6020B	**Arsenic**	0.00025	mg/L	0.00150	0.00021		X845097	KWH	11/15/18 11:10	J
EPA 6020B	Thallium	< 0.00100	mg/L	0.00100	0.00008		X845097	KWH	11/15/18 11:10	

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Project Name: North Fork 2018
Work Order: **X8K0022**
Reported: 19-Nov-18 14:48

Client Sample ID: **NF-SW10**
SVL Sample ID: **X8K0022-10 (Surface Water)**

Sampled: 30-Oct-18 11:20
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.00020	mg/L	0.00020	0.000093		X845226	DPW	11/16/18 13:25	
Metals (Total Recoverable)										
EPA 6010D	Aluminum	< 0.08	mg/L	0.08	0.05		X845054	DT	11/19/18 10:57	
EPA 6010D	**Barium**	0.0166	mg/L	0.0020	0.0019		X845054	DT	11/19/18 10:57	
EPA 6010D	Beryllium	< 0.0020	mg/L	0.0020	0.0017		X845054	DT	11/19/18 10:57	
EPA 6010D	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X845054	DT	11/19/18 10:57	
EPA 6010D	**Calcium**	8.43	mg/L	0.100	0.069		X845054	DT	11/19/18 10:57	
EPA 6010D	Chromium	< 0.0060	mg/L	0.0060	0.0020		X845054	DT	11/19/18 10:57	
EPA 6010D	Cobalt	< 0.0060	mg/L	0.0060	0.0016		X845054	DT	11/19/18 10:57	
EPA 6010D	Copper	< 0.0100	mg/L	0.0100	0.0027		X845054	DT	11/19/18 10:57	
EPA 6010D	Iron	< 0.100	mg/L	0.100	0.056		X845054	DT	11/19/18 10:57	
EPA 6010D	Lead	< 0.0075	mg/L	0.0075	0.0049		X845054	DT	11/19/18 10:57	
EPA 6010D	**Magnesium**	3.03	mg/L	0.50	0.32		X845054	DT	11/19/18 10:57	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0034		X845054	DT	11/19/18 10:57	
EPA 6010D	Nickel	< 0.0100	mg/L	0.0100	0.0023		X845054	DT	11/19/18 10:57	
EPA 6010D	Selenium	< 0.040	mg/L	0.040	0.012		X845054	DT	11/19/18 10:57	
EPA 6010D	Silver	< 0.0050	mg/L	0.0050	0.0019		X845054	DT	11/19/18 10:57	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X845054	DT	11/19/18 10:57	
EPA 6010D	**Zinc**	0.012	mg/L	0.010	0.005		X845054	DT	11/19/18 10:57	
EPA 6020B	Antimony	< 0.00300	mg/L	0.00300	0.00023		X845097	KWH	11/15/18 11:38	
EPA 6020B	**Arsenic**	0.00022	mg/L	0.00150	0.00021		X845097	KWH	11/15/18 11:38	J
EPA 6020B	Thallium	< 0.00100	mg/L	0.00100	0.00008		X845097	KWH	11/15/18 11:38	

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

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Project Name: North Fork 2018
Work Order: **X8K0022**
Reported: 19-Nov-18 14:48

Client Sample ID: **NF-SW11**
SVL Sample ID: **X8K0022-11 (Surface Water)**

Sampled: 30-Oct-18 11:40
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.00020	mg/L	0.00020	0.000093		X845226	DPW	11/16/18 13:30	
Metals (Total Recoverable)										
EPA 6010D	Aluminum	< 0.08	mg/L	0.08	0.05		X845054	DT	11/19/18 11:01	
EPA 6010D	**Barium**	0.0196	mg/L	0.0020	0.0019		X845054	DT	11/19/18 11:01	
EPA 6010D	Beryllium	< 0.0020	mg/L	0.0020	0.0017		X845054	DT	11/19/18 11:01	
EPA 6010D	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X845054	DT	11/19/18 11:01	
EPA 6010D	**Calcium**	6.80	mg/L	0.100	0.069		X845054	DT	11/19/18 11:01	
EPA 6010D	Chromium	< 0.0060	mg/L	0.0060	0.0020		X845054	DT	11/19/18 11:01	
EPA 6010D	Cobalt	< 0.0060	mg/L	0.0060	0.0016		X845054	DT	11/19/18 11:01	
EPA 6010D	Copper	< 0.0100	mg/L	0.0100	0.0027		X845054	DT	11/19/18 11:01	
EPA 6010D	Iron	< 0.100	mg/L	0.100	0.056		X845054	DT	11/19/18 11:01	
EPA 6010D	Lead	< 0.0075	mg/L	0.0075	0.0049		X845054	DT	11/19/18 11:01	
EPA 6010D	**Magnesium**	2.81	mg/L	0.50	0.32		X845054	DT	11/19/18 11:01	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0034		X845054	DT	11/19/18 11:01	
EPA 6010D	Nickel	< 0.0100	mg/L	0.0100	0.0023		X845054	DT	11/19/18 11:01	
EPA 6010D	Selenium	< 0.040	mg/L	0.040	0.012		X845054	DT	11/19/18 11:01	
EPA 6010D	Silver	< 0.0050	mg/L	0.0050	0.0019		X845054	DT	11/19/18 11:01	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X845054	DT	11/19/18 11:01	
EPA 6010D	Zinc	< 0.010	mg/L	0.010	0.005		X845054	DT	11/19/18 11:01	
EPA 6020B	Antimony	< 0.00300	mg/L	0.00300	0.00023		X845095	KWH	11/15/18 11:44	
EPA 6020B	Arsenic	< 0.00021	mg/L	0.00150	0.00021		X845095	KWH	11/15/18 11:44	U
EPA 6020B	Thallium	< 0.00100	mg/L	0.00100	0.00008		X845095	KWH	11/15/18 11:44	

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Project Name: North Fork 2018
Work Order: **X8K0022**
Reported: 19-Nov-18 14:48

Client Sample ID: **NF-SW12**
SVL Sample ID: **X8K0022-12 (Surface Water)**

Sampled: 30-Oct-18 12:10
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.00020	mg/L	0.00020	0.000093		X845226	DPW	11/16/18 13:32	
Metals (Total Recoverable)										
EPA 6010D	Aluminum	< 0.08	mg/L	0.08	0.05		X845054	DT	11/19/18 11:05	
EPA 6010D	**Barium**	0.0207	mg/L	0.0020	0.0019		X845054	DT	11/19/18 11:05	
EPA 6010D	Beryllium	< 0.0020	mg/L	0.0020	0.0017		X845054	DT	11/19/18 11:05	
EPA 6010D	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X845054	DT	11/19/18 11:05	
EPA 6010D	**Calcium**	6.00	mg/L	0.100	0.069		X845054	DT	11/19/18 11:05	
EPA 6010D	Chromium	< 0.0060	mg/L	0.0060	0.0020		X845054	DT	11/19/18 11:05	
EPA 6010D	Cobalt	< 0.0060	mg/L	0.0060	0.0016		X845054	DT	11/19/18 11:05	
EPA 6010D	Copper	< 0.0100	mg/L	0.0100	0.0027		X845054	DT	11/19/18 11:05	
EPA 6010D	Iron	< 0.100	mg/L	0.100	0.056		X845054	DT	11/19/18 11:05	
EPA 6010D	Lead	< 0.0075	mg/L	0.0075	0.0049		X845054	DT	11/19/18 11:05	
EPA 6010D	**Magnesium**	2.68	mg/L	0.50	0.32		X845054	DT	11/19/18 11:05	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0034		X845054	DT	11/19/18 11:05	
EPA 6010D	Nickel	< 0.0100	mg/L	0.0100	0.0023		X845054	DT	11/19/18 11:05	
EPA 6010D	Selenium	< 0.040	mg/L	0.040	0.012		X845054	DT	11/19/18 11:05	
EPA 6010D	Silver	< 0.0050	mg/L	0.0050	0.0019		X845054	DT	11/19/18 11:05	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X845054	DT	11/19/18 11:05	
EPA 6010D	Zinc	< 0.010	mg/L	0.010	0.005		X845054	DT	11/19/18 11:05	
EPA 6020B	Antimony	< 0.00300	mg/L	0.00300	0.00023		X845095	KWH	11/15/18 11:50	
EPA 6020B	Arsenic	< 0.00021	mg/L	0.00150	0.00021		X845095	KWH	11/15/18 11:50	U
EPA 6020B	Thallium	< 0.00100	mg/L	0.00100	0.00008		X845095	KWH	11/15/18 11:50	

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Project Name: North Fork 2018
Work Order: **X8K0022**
Reported: 19-Nov-18 14:48

Client Sample ID: **NF-SW13**
SVL Sample ID: **X8K0022-13 (Surface Water)**

Sampled: 30-Oct-18 12:10
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.00020	mg/L	0.00020	0.000093		X845226	DPW	11/16/18 13:34	
Metals (Total Recoverable)										
EPA 6010D	Aluminum	< 0.08	mg/L	0.08	0.05		X845054	DT	11/19/18 11:08	
EPA 6010D	**Barium**	0.0203	mg/L	0.0020	0.0019		X845054	DT	11/19/18 11:08	
EPA 6010D	Beryllium	< 0.0020	mg/L	0.0020	0.0017		X845054	DT	11/19/18 11:08	
EPA 6010D	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X845054	DT	11/19/18 11:08	
EPA 6010D	**Calcium**	5.98	mg/L	0.100	0.069		X845054	DT	11/19/18 11:08	
EPA 6010D	Chromium	< 0.0060	mg/L	0.0060	0.0020		X845054	DT	11/19/18 11:08	
EPA 6010D	Cobalt	< 0.0060	mg/L	0.0060	0.0016		X845054	DT	11/19/18 11:08	
EPA 6010D	Copper	< 0.0100	mg/L	0.0100	0.0027		X845054	DT	11/19/18 11:08	
EPA 6010D	Iron	< 0.100	mg/L	0.100	0.056		X845054	DT	11/19/18 11:08	
EPA 6010D	Lead	< 0.0075	mg/L	0.0075	0.0049		X845054	DT	11/19/18 11:08	
EPA 6010D	**Magnesium**	2.69	mg/L	0.50	0.32		X845054	DT	11/19/18 11:08	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0034		X845054	DT	11/19/18 11:08	
EPA 6010D	Nickel	< 0.0100	mg/L	0.0100	0.0023		X845054	DT	11/19/18 11:08	
EPA 6010D	Selenium	< 0.040	mg/L	0.040	0.012		X845054	DT	11/19/18 11:08	
EPA 6010D	Silver	< 0.0050	mg/L	0.0050	0.0019		X845054	DT	11/19/18 11:08	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X845054	DT	11/19/18 11:08	
EPA 6010D	Zinc	< 0.010	mg/L	0.010	0.005		X845054	DT	11/19/18 11:08	
EPA 6020B	Antimony	< 0.00300	mg/L	0.00300	0.00023		X845095	KWH	11/15/18 11:57	
EPA 6020B	Arsenic	< 0.00021	mg/L	0.00150	0.00021		X845095	KWH	11/15/18 11:57	U
EPA 6020B	Thallium	< 0.00100	mg/L	0.00100	0.00008		X845095	KWH	11/15/18 11:57	

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Project Name: North Fork 2018
Work Order: **X8K0022**
Reported: 19-Nov-18 14:48

Client Sample ID: **NF-SW14**
SVL Sample ID: **X8K0022-14 (Surface Water)**

Sampled: 30-Oct-18 13:55
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.00020	mg/L	0.00020	0.000093		X845226	DPW	11/16/18 13:36	
Metals (Total Recoverable)										
EPA 6010D	Aluminum	< 0.08	mg/L	0.08	0.05		X845054	DT	11/19/18 11:12	
EPA 6010D	**Barium**	0.0177	mg/L	0.0020	0.0019		X845054	DT	11/19/18 11:12	
EPA 6010D	Beryllium	< 0.0020	mg/L	0.0020	0.0017		X845054	DT	11/19/18 11:12	
EPA 6010D	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X845054	DT	11/19/18 11:12	
EPA 6010D	**Calcium**	3.20	mg/L	0.100	0.069		X845054	DT	11/19/18 11:12	
EPA 6010D	Chromium	< 0.0060	mg/L	0.0060	0.0020		X845054	DT	11/19/18 11:12	
EPA 6010D	Cobalt	< 0.0060	mg/L	0.0060	0.0016		X845054	DT	11/19/18 11:12	
EPA 6010D	Copper	< 0.0100	mg/L	0.0100	0.0027		X845054	DT	11/19/18 11:12	
EPA 6010D	Iron	< 0.100	mg/L	0.100	0.056		X845054	DT	11/19/18 11:12	
EPA 6010D	Lead	< 0.0075	mg/L	0.0075	0.0049		X845054	DT	11/19/18 11:12	
EPA 6010D	**Magnesium**	1.11	mg/L	0.50	0.32		X845054	DT	11/19/18 11:12	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0034		X845054	DT	11/19/18 11:12	
EPA 6010D	Nickel	< 0.0100	mg/L	0.0100	0.0023		X845054	DT	11/19/18 11:12	
EPA 6010D	Selenium	< 0.040	mg/L	0.040	0.012		X845054	DT	11/19/18 11:12	
EPA 6010D	Silver	< 0.0050	mg/L	0.0050	0.0019		X845054	DT	11/19/18 11:12	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X845054	DT	11/19/18 11:12	
EPA 6010D	**Zinc**	0.024	mg/L	0.010	0.005		X845054	DT	11/19/18 11:12	
EPA 6020B	Antimony	< 0.00300	mg/L	0.00300	0.00023		X845095	KWH	11/15/18 11:59	
EPA 6020B	**Arsenic**	0.00022	mg/L	0.00150	0.00021		X845095	KWH	11/15/18 11:59	J
EPA 6020B	Thallium	< 0.00100	mg/L	0.00100	0.00008		X845095	KWH	11/15/18 11:59	

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Project Name: North Fork 2018
Work Order: **X8K0022**
Reported: 19-Nov-18 14:48

Client Sample ID: **NF-SW15**
SVL Sample ID: **X8K0022-15 (Surface Water)**

Sampled: 30-Oct-18 14:15
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.00020	mg/L	0.00020	0.000093		X845226	DPW	11/16/18 13:37	
Metals (Total Recoverable)										
EPA 6010D	Aluminum	< 0.08	mg/L	0.08	0.05		X845054	DT	11/19/18 11:16	
EPA 6010D	**Barium**	0.0196	mg/L	0.0020	0.0019		X845054	DT	11/19/18 11:16	
EPA 6010D	Beryllium	< 0.0020	mg/L	0.0020	0.0017		X845054	DT	11/19/18 11:16	
EPA 6010D	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X845054	DT	11/19/18 11:16	
EPA 6010D	**Calcium**	5.37	mg/L	0.100	0.069		X845054	DT	11/19/18 11:16	
EPA 6010D	Chromium	< 0.0060	mg/L	0.0060	0.0020		X845054	DT	11/19/18 11:16	
EPA 6010D	Cobalt	< 0.0060	mg/L	0.0060	0.0016		X845054	DT	11/19/18 11:16	
EPA 6010D	Copper	< 0.0100	mg/L	0.0100	0.0027		X845054	DT	11/19/18 11:16	
EPA 6010D	Iron	< 0.100	mg/L	0.100	0.056		X845054	DT	11/19/18 11:16	
EPA 6010D	Lead	< 0.0075	mg/L	0.0075	0.0049		X845054	DT	11/19/18 11:16	
EPA 6010D	**Magnesium**	2.31	mg/L	0.50	0.32		X845054	DT	11/19/18 11:16	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0034		X845054	DT	11/19/18 11:16	
EPA 6010D	Nickel	< 0.0100	mg/L	0.0100	0.0023		X845054	DT	11/19/18 11:16	
EPA 6010D	Selenium	< 0.040	mg/L	0.040	0.012		X845054	DT	11/19/18 11:16	
EPA 6010D	Silver	< 0.0050	mg/L	0.0050	0.0019		X845054	DT	11/19/18 11:16	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X845054	DT	11/19/18 11:16	
EPA 6010D	Zinc	< 0.010	mg/L	0.010	0.005		X845054	DT	11/19/18 11:16	
EPA 6020B	Antimony	< 0.00300	mg/L	0.00300	0.00023		X845095	KWH	11/15/18 12:01	
EPA 6020B	Arsenic	< 0.00021	mg/L	0.00150	0.00021		X845095	KWH	11/15/18 12:01	U
EPA 6020B	Thallium	< 0.00100	mg/L	0.00100	0.00008		X845095	KWH	11/15/18 12:01	

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Project Name: North Fork 2018
Work Order: **X8K0022**
Reported: 19-Nov-18 14:48

Client Sample ID: **NF-SW16**
SVL Sample ID: **X8K0022-16 (Rinsate)**

Sampled: 30-Oct-18 14:35
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.00020	mg/L	0.00020	0.000093		X845228	DPW	11/16/18 12:31	
Metals (Total Recoverable)										
EPA 6010D	Aluminum	< 0.08	mg/L	0.08	0.05		X845055	DT	11/19/18 11:52	
EPA 6010D	Barium	< 0.0020	mg/L	0.0020	0.0019		X845055	DT	11/19/18 11:52	
EPA 6010D	Beryllium	< 0.0020	mg/L	0.0020	0.0017		X845055	DT	11/19/18 11:52	
EPA 6010D	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X845055	DT	11/19/18 11:52	
EPA 6010D	Calcium	< 0.100	mg/L	0.100	0.069		X845055	DT	11/19/18 11:52	
EPA 6010D	Chromium	< 0.0060	mg/L	0.0060	0.0020		X845055	DT	11/19/18 11:52	
EPA 6010D	Cobalt	< 0.0060	mg/L	0.0060	0.0016		X845055	DT	11/19/18 11:52	
EPA 6010D	Copper	< 0.0100	mg/L	0.0100	0.0027		X845055	DT	11/19/18 11:52	
EPA 6010D	Iron	< 0.100	mg/L	0.100	0.056		X845055	DT	11/19/18 11:52	
EPA 6010D	Lead	< 0.0075	mg/L	0.0075	0.0049		X845055	DT	11/19/18 11:52	
EPA 6010D	Magnesium	< 0.50	mg/L	0.50	0.32		X845055	DT	11/19/18 11:52	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0034		X845055	DT	11/19/18 11:52	
EPA 6010D	Nickel	< 0.0100	mg/L	0.0100	0.0023		X845055	DT	11/19/18 11:52	
EPA 6010D	Selenium	< 0.040	mg/L	0.040	0.012		X845055	DT	11/19/18 11:52	
EPA 6010D	Silver	< 0.0050	mg/L	0.0050	0.0019		X845055	DT	11/19/18 11:52	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X845055	DT	11/19/18 11:52	
EPA 6010D	Zinc	< 0.010	mg/L	0.010	0.005		X845055	DT	11/19/18 11:52	
EPA 6020B	Antimony	< 0.00300	mg/L	0.00300	0.00023		X845095	KWH	11/15/18 12:03	
EPA 6020B	Arsenic	< 0.00021	mg/L	0.00150	0.00021		X845095	KWH	11/15/18 12:03	U
EPA 6020B	Thallium	< 0.00100	mg/L	0.00100	0.00008		X845095	KWH	11/15/18 12:03	

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Project Name: North Fork 2018
Work Order: **X8K0022**
Reported: 19-Nov-18 14:48

Client Sample ID: **NF-SW17**
SVL Sample ID: **X8K0022-17 (Surface Water)**

Sampled: 30-Oct-18 14:45
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.00020	mg/L	0.00020	0.000093		X845228	DPW	11/16/18 12:32	
Metals (Total Recoverable)										
EPA 6010D	Aluminum	< 0.08	mg/L	0.08	0.05		X845055	DT	11/19/18 12:03	
EPA 6010D	**Barium**	0.0202	mg/L	0.0020	0.0019		X845055	DT	11/19/18 12:03	
EPA 6010D	Beryllium	< 0.0020	mg/L	0.0020	0.0017		X845055	DT	11/19/18 12:03	
EPA 6010D	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X845055	DT	11/19/18 12:03	
EPA 6010D	**Calcium**	6.23	mg/L	0.100	0.069		X845055	DT	11/19/18 12:03	
EPA 6010D	Chromium	< 0.0060	mg/L	0.0060	0.0020		X845055	DT	11/19/18 12:03	
EPA 6010D	Cobalt	< 0.0060	mg/L	0.0060	0.0016		X845055	DT	11/19/18 12:03	
EPA 6010D	Copper	< 0.0100	mg/L	0.0100	0.0027		X845055	DT	11/19/18 12:03	
EPA 6010D	Iron	< 0.100	mg/L	0.100	0.056		X845055	DT	11/19/18 12:03	
EPA 6010D	Lead	< 0.0075	mg/L	0.0075	0.0049		X845055	DT	11/19/18 12:03	
EPA 6010D	**Magnesium**	2.88	mg/L	0.50	0.32		X845055	DT	11/19/18 12:03	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0034		X845055	DT	11/19/18 12:03	
EPA 6010D	Nickel	< 0.0100	mg/L	0.0100	0.0023		X845055	DT	11/19/18 12:03	
EPA 6010D	Selenium	< 0.040	mg/L	0.040	0.012		X845055	DT	11/19/18 12:03	
EPA 6010D	Silver	< 0.0050	mg/L	0.0050	0.0019		X845055	DT	11/19/18 12:03	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X845055	DT	11/19/18 12:03	
EPA 6010D	Zinc	< 0.010	mg/L	0.010	0.005		X845055	DT	11/19/18 12:03	
EPA 6020B	Antimony	< 0.00300	mg/L	0.00300	0.00023		X845095	KWH	11/15/18 12:05	
EPA 6020B	Arsenic	< 0.00021	mg/L	0.00150	0.00021		X845095	KWH	11/15/18 12:05	U
EPA 6020B	Thallium	< 0.00100	mg/L	0.00100	0.00008		X845095	KWH	11/15/18 12:05	

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.



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Kellogg, ID 83837

Project Name: North Fork 2018
Work Order: **X8K0022**
Reported: 19-Nov-18 14:48

Client Sample ID: **NF-SW18**
SVL Sample ID: **X8K0022-18 (DI Water)**

Sampled: 30-Oct-18 15:15
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.00020	mg/L	0.00020	0.000093		X845228	DPW	11/16/18 12:34	
Metals (Total Recoverable)										
EPA 6010D	Aluminum	< 0.08	mg/L	0.08	0.05		X845055	DT	11/19/18 12:06	
EPA 6010D	Barium	< 0.0020	mg/L	0.0020	0.0019		X845055	DT	11/19/18 12:06	
EPA 6010D	Beryllium	< 0.0020	mg/L	0.0020	0.0017		X845055	DT	11/19/18 12:06	
EPA 6010D	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X845055	DT	11/19/18 12:06	
EPA 6010D	Calcium	< 0.100	mg/L	0.100	0.069		X845055	DT	11/19/18 12:06	
EPA 6010D	Chromium	< 0.0060	mg/L	0.0060	0.0020		X845055	DT	11/19/18 12:06	
EPA 6010D	Cobalt	< 0.0060	mg/L	0.0060	0.0016		X845055	DT	11/19/18 12:06	
EPA 6010D	Copper	< 0.0100	mg/L	0.0100	0.0027		X845055	DT	11/19/18 12:06	
EPA 6010D	Iron	< 0.100	mg/L	0.100	0.056		X845055	DT	11/19/18 12:06	
EPA 6010D	Lead	< 0.0075	mg/L	0.0075	0.0049		X845055	DT	11/19/18 12:06	
EPA 6010D	Magnesium	< 0.50	mg/L	0.50	0.32		X845055	DT	11/19/18 12:06	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0034		X845055	DT	11/19/18 12:06	
EPA 6010D	Nickel	< 0.0100	mg/L	0.0100	0.0023		X845055	DT	11/19/18 12:06	
EPA 6010D	Selenium	< 0.040	mg/L	0.040	0.012		X845055	DT	11/19/18 12:06	
EPA 6010D	Silver	< 0.0050	mg/L	0.0050	0.0019		X845055	DT	11/19/18 12:06	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X845055	DT	11/19/18 12:06	
EPA 6010D	Zinc	< 0.010	mg/L	0.010	0.005		X845055	DT	11/19/18 12:06	
EPA 6020B	Antimony	< 0.00300	mg/L	0.00300	0.00023		X845095	KWH	11/15/18 12:07	
EPA 6020B	Arsenic	< 0.00021	mg/L	0.00150	0.00021		X845095	KWH	11/15/18 12:07	U
EPA 6020B	Thallium	< 0.00100	mg/L	0.00100	0.00008		X845095	KWH	11/15/18 12:07	

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Project Name: North Fork 2018
Work Order: **X8K0022**
Reported: 19-Nov-18 14:48

Client Sample ID: **NF-SW19**
SVL Sample ID: **X8K0022-19 (Surface Water)**

Sampled: 31-Oct-18 10:30
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.00020	mg/L	0.00020	0.000093		X845228	DPW	11/16/18 12:36	
Metals (Total Recoverable)										
EPA 6010D	Aluminum	< 0.08	mg/L	0.08	0.05		X845055	DT	11/19/18 12:10	
EPA 6010D	**Barium**	0.0279	mg/L	0.0020	0.0019		X845055	DT	11/19/18 12:10	
EPA 6010D	Beryllium	< 0.0020	mg/L	0.0020	0.0017		X845055	DT	11/19/18 12:10	
EPA 6010D	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X845055	DT	11/19/18 12:10	
EPA 6010D	**Calcium**	4.67	mg/L	0.100	0.069		X845055	DT	11/19/18 12:10	
EPA 6010D	Chromium	< 0.0060	mg/L	0.0060	0.0020		X845055	DT	11/19/18 12:10	
EPA 6010D	Cobalt	< 0.0060	mg/L	0.0060	0.0016		X845055	DT	11/19/18 12:10	
EPA 6010D	Copper	< 0.0100	mg/L	0.0100	0.0027		X845055	DT	11/19/18 12:10	
EPA 6010D	**Iron**	0.104	mg/L	0.100	0.056		X845055	DT	11/19/18 12:10	
EPA 6010D	Lead	< 0.0075	mg/L	0.0075	0.0049		X845055	DT	11/19/18 12:10	
EPA 6010D	**Magnesium**	1.69	mg/L	0.50	0.32		X845055	DT	11/19/18 12:10	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0034		X845055	DT	11/19/18 12:10	
EPA 6010D	Nickel	< 0.0100	mg/L	0.0100	0.0023		X845055	DT	11/19/18 12:10	
EPA 6010D	Selenium	< 0.040	mg/L	0.040	0.012		X845055	DT	11/19/18 12:10	
EPA 6010D	Silver	< 0.0050	mg/L	0.0050	0.0019		X845055	DT	11/19/18 12:10	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X845055	DT	11/19/18 12:10	
EPA 6010D	**Zinc**	0.028	mg/L	0.010	0.005		X845055	DT	11/19/18 12:10	
EPA 6020B	Antimony	< 0.00300	mg/L	0.00300	0.00023		X845095	KWH	11/15/18 12:09	
EPA 6020B	Arsenic	< 0.00021	mg/L	0.00150	0.00021		X845095	KWH	11/15/18 12:09	U
EPA 6020B	Thallium	< 0.00100	mg/L	0.00100	0.00008		X845095	KWH	11/15/18 12:09	

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Project Name: North Fork 2018
Work Order: **X8K0022**
Reported: 19-Nov-18 14:48

Client Sample ID: **NF-SW20**
SVL Sample ID: **X8K0022-20 (Surface Water)**

Sampled: 31-Oct-18 11:20
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.00020	mg/L	0.00020	0.000093		X845228	DPW	11/16/18 12:41	
Metals (Total Recoverable)										
EPA 6010D	Aluminum	< 0.08	mg/L	0.08	0.05		X845055	DT	11/19/18 12:14	
EPA 6010D	**Barium**	0.0193	mg/L	0.0020	0.0019		X845055	DT	11/19/18 12:14	
EPA 6010D	Beryllium	< 0.0020	mg/L	0.0020	0.0017		X845055	DT	11/19/18 12:14	
EPA 6010D	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X845055	DT	11/19/18 12:14	
EPA 6010D	**Calcium**	3.73	mg/L	0.100	0.069		X845055	DT	11/19/18 12:14	
EPA 6010D	Chromium	< 0.0060	mg/L	0.0060	0.0020		X845055	DT	11/19/18 12:14	
EPA 6010D	Cobalt	< 0.0060	mg/L	0.0060	0.0016		X845055	DT	11/19/18 12:14	
EPA 6010D	Copper	< 0.0100	mg/L	0.0100	0.0027		X845055	DT	11/19/18 12:14	
EPA 6010D	Iron	< 0.100	mg/L	0.100	0.056		X845055	DT	11/19/18 12:14	
EPA 6010D	Lead	< 0.0075	mg/L	0.0075	0.0049		X845055	DT	11/19/18 12:14	
EPA 6010D	**Magnesium**	1.32	mg/L	0.50	0.32		X845055	DT	11/19/18 12:14	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0034		X845055	DT	11/19/18 12:14	
EPA 6010D	Nickel	< 0.0100	mg/L	0.0100	0.0023		X845055	DT	11/19/18 12:14	
EPA 6010D	Selenium	< 0.040	mg/L	0.040	0.012		X845055	DT	11/19/18 12:14	
EPA 6010D	Silver	< 0.0050	mg/L	0.0050	0.0019		X845055	DT	11/19/18 12:14	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X845055	DT	11/19/18 12:14	
EPA 6010D	**Zinc**	0.027	mg/L	0.010	0.005		X845055	DT	11/19/18 12:14	
EPA 6020B	Antimony	< 0.00300	mg/L	0.00300	0.00023		X845095	KWH	11/15/18 12:11	
EPA 6020B	**Arsenic**	0.00032	mg/L	0.00150	0.00021		X845095	KWH	11/15/18 12:11	J
EPA 6020B	Thallium	< 0.00100	mg/L	0.00100	0.00008		X845095	KWH	11/15/18 12:11	

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Project Name: North Fork 2018
Work Order: **X8K0022**
Reported: 19-Nov-18 14:48

Client Sample ID: **NF-SW21**
SVL Sample ID: **X8K0022-21 (Surface Water)**

Sampled: 31-Oct-18 11:40
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.00020	mg/L	0.00020	0.000093		X845228	DPW	11/16/18 12:43	
Metals (Total Recoverable)										
EPA 6010D	Aluminum	< 0.08	mg/L	0.08	0.05		X845055	DT	11/19/18 12:17	
EPA 6010D	**Barium**	0.0148	mg/L	0.0020	0.0019		X845055	DT	11/19/18 12:17	
EPA 6010D	Beryllium	< 0.0020	mg/L	0.0020	0.0017		X845055	DT	11/19/18 12:17	
EPA 6010D	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X845055	DT	11/19/18 12:17	
EPA 6010D	**Calcium**	3.30	mg/L	0.100	0.069		X845055	DT	11/19/18 12:17	
EPA 6010D	Chromium	< 0.0060	mg/L	0.0060	0.0020		X845055	DT	11/19/18 12:17	
EPA 6010D	Cobalt	< 0.0060	mg/L	0.0060	0.0016		X845055	DT	11/19/18 12:17	
EPA 6010D	Copper	< 0.0100	mg/L	0.0100	0.0027		X845055	DT	11/19/18 12:17	
EPA 6010D	Iron	< 0.100	mg/L	0.100	0.056		X845055	DT	11/19/18 12:17	
EPA 6010D	Lead	< 0.0075	mg/L	0.0075	0.0049		X845055	DT	11/19/18 12:17	
EPA 6010D	**Magnesium**	1.14	mg/L	0.50	0.32		X845055	DT	11/19/18 12:17	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0034		X845055	DT	11/19/18 12:17	
EPA 6010D	Nickel	< 0.0100	mg/L	0.0100	0.0023		X845055	DT	11/19/18 12:17	
EPA 6010D	Selenium	< 0.040	mg/L	0.040	0.012		X845055	DT	11/19/18 12:17	
EPA 6010D	Silver	< 0.0050	mg/L	0.0050	0.0019		X845055	DT	11/19/18 12:17	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X845055	DT	11/19/18 12:17	
EPA 6010D	**Zinc**	0.028	mg/L	0.010	0.005		X845055	DT	11/19/18 12:17	
EPA 6020B	Antimony	< 0.00300	mg/L	0.00300	0.00023		X845095	KWH	11/15/18 12:14	
EPA 6020B	**Arsenic**	0.00040	mg/L	0.00150	0.00021		X845095	KWH	11/15/18 12:14	J
EPA 6020B	Thallium	< 0.00100	mg/L	0.00100	0.00008		X845095	KWH	11/15/18 12:14	

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Project Name: North Fork 2018
Work Order: **X8K0022**
Reported: 19-Nov-18 14:48

Client Sample ID: **NF-SW22**
SVL Sample ID: **X8K0022-22 (Rinsate)**

Sampled: 31-Oct-18 12:15
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.00020	mg/L	0.00020	0.000093		X845228	DPW	11/16/18 13:00	
Metals (Total Recoverable)										
EPA 6010D	Aluminum	< 0.08	mg/L	0.08	0.05		X845055	DT	11/19/18 12:38	
EPA 6010D	Barium	< 0.0020	mg/L	0.0020	0.0019		X845055	DT	11/19/18 12:38	
EPA 6010D	Beryllium	< 0.0020	mg/L	0.0020	0.0017		X845055	DT	11/19/18 12:38	
EPA 6010D	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X845055	DT	11/19/18 12:38	
EPA 6010D	Calcium	< 0.100	mg/L	0.100	0.069		X845055	DT	11/19/18 12:38	
EPA 6010D	Chromium	< 0.0060	mg/L	0.0060	0.0020		X845055	DT	11/19/18 12:38	
EPA 6010D	Cobalt	< 0.0060	mg/L	0.0060	0.0016		X845055	DT	11/19/18 12:38	
EPA 6010D	Copper	< 0.0100	mg/L	0.0100	0.0027		X845055	DT	11/19/18 12:38	
EPA 6010D	Iron	< 0.100	mg/L	0.100	0.056		X845055	DT	11/19/18 12:38	
EPA 6010D	Lead	< 0.0075	mg/L	0.0075	0.0049		X845055	DT	11/19/18 12:38	
EPA 6010D	Magnesium	< 0.50	mg/L	0.50	0.32		X845055	DT	11/19/18 12:38	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0034		X845055	DT	11/19/18 12:38	
EPA 6010D	Nickel	< 0.0100	mg/L	0.0100	0.0023		X845055	DT	11/19/18 12:38	
EPA 6010D	Selenium	< 0.040	mg/L	0.040	0.012		X845055	DT	11/19/18 12:38	
EPA 6010D	Silver	< 0.0050	mg/L	0.0050	0.0019		X845055	DT	11/19/18 12:38	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X845055	DT	11/19/18 12:38	
EPA 6010D	Zinc	< 0.010	mg/L	0.010	0.005		X845055	DT	11/19/18 12:38	
EPA 6020B	Antimony	< 0.00300	mg/L	0.00300	0.00023		X845095	KWH	11/15/18 12:16	
EPA 6020B	Arsenic	< 0.00021	mg/L	0.00150	0.00021		X845095	KWH	11/15/18 12:16	U
EPA 6020B	Thallium	< 0.00100	mg/L	0.00100	0.00008		X845095	KWH	11/15/18 12:16	

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Kellogg, ID 83837

Project Name: North Fork 2018
Work Order: **X8K0022**
Reported: 19-Nov-18 14:48

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Metals (Total)								
EPA 7470A	Mercury	mg/L	<0.00020	0.000093	0.00020	X845226	16-Nov-18	
EPA 7470A	Mercury	mg/L	<0.00020	0.000093	0.00020	X845228	16-Nov-18	
Metals (Total Recoverable)								
EPA 6010D	Aluminum	mg/L	<0.08	0.05	0.08	X845054	19-Nov-18	
EPA 6010D	Aluminum	mg/L	<0.08	0.05	0.08	X845055	19-Nov-18	
EPA 6010D	Barium	mg/L	<0.0020	0.0019	0.0020	X845054	19-Nov-18	
EPA 6010D	Barium	mg/L	<0.0020	0.0019	0.0020	X845055	19-Nov-18	
EPA 6010D	Beryllium	mg/L	<0.0020	0.0017	0.0020	X845054	19-Nov-18	
EPA 6010D	Beryllium	mg/L	<0.0020	0.0017	0.0020	X845055	19-Nov-18	
EPA 6010D	Cadmium	mg/L	<0.0020	0.0016	0.0020	X845054	19-Nov-18	
EPA 6010D	Cadmium	mg/L	<0.0020	0.0016	0.0020	X845055	19-Nov-18	
EPA 6010D	Calcium	mg/L	<0.100	0.069	0.100	X845054	19-Nov-18	
EPA 6010D	Calcium	mg/L	<0.100	0.069	0.100	X845055	19-Nov-18	
EPA 6010D	Chromium	mg/L	<0.0060	0.0020	0.0060	X845054	19-Nov-18	
EPA 6010D	Chromium	mg/L	<0.0060	0.0020	0.0060	X845055	19-Nov-18	
EPA 6010D	Cobalt	mg/L	<0.0060	0.0016	0.0060	X845054	19-Nov-18	
EPA 6010D	Cobalt	mg/L	<0.0060	0.0016	0.0060	X845055	19-Nov-18	
EPA 6010D	Copper	mg/L	<0.0100	0.0027	0.0100	X845054	19-Nov-18	
EPA 6010D	Copper	mg/L	<0.0100	0.0027	0.0100	X845055	19-Nov-18	
EPA 6010D	Iron	mg/L	<0.100	0.056	0.100	X845054	19-Nov-18	
EPA 6010D	Iron	mg/L	<0.100	0.056	0.100	X845055	19-Nov-18	
EPA 6010D	Lead	mg/L	<0.0075	0.0049	0.0075	X845054	19-Nov-18	
EPA 6010D	Lead	mg/L	<0.0075	0.0049	0.0075	X845055	19-Nov-18	
EPA 6010D	Magnesium	mg/L	<0.50	0.32	0.50	X845054	19-Nov-18	
EPA 6010D	Magnesium	mg/L	<0.50	0.32	0.50	X845055	19-Nov-18	
EPA 6010D	Manganese	mg/L	<0.0080	0.0034	0.0080	X845054	19-Nov-18	
EPA 6010D	Manganese	mg/L	<0.0080	0.0034	0.0080	X845055	19-Nov-18	
EPA 6010D	Nickel	mg/L	<0.0100	0.0023	0.0100	X845054	19-Nov-18	
EPA 6010D	Nickel	mg/L	<0.0100	0.0023	0.0100	X845055	19-Nov-18	
EPA 6010D	Selenium	mg/L	<0.040	0.012	0.040	X845054	19-Nov-18	
EPA 6010D	Selenium	mg/L	<0.040	0.012	0.040	X845055	19-Nov-18	
EPA 6010D	Silver	mg/L	<0.0050	0.0019	0.0050	X845054	19-Nov-18	
EPA 6010D	Silver	mg/L	<0.0050	0.0019	0.0050	X845055	19-Nov-18	
EPA 6010D	Vanadium	mg/L	<0.0050	0.0019	0.0050	X845054	19-Nov-18	
EPA 6010D	Vanadium	mg/L	<0.0050	0.0019	0.0050	X845055	19-Nov-18	
EPA 6010D	Zinc	mg/L	<0.010	0.005	0.010	X845054	19-Nov-18	
EPA 6010D	Zinc	mg/L	<0.010	0.005	0.010	X845055	19-Nov-18	
EPA 6020B	Antimony	mg/L	<0.00300	0.00023	0.00300	X845095	15-Nov-18	
EPA 6020B	Antimony	mg/L	<0.00300	0.00023	0.00300	X845097	15-Nov-18	
EPA 6020B	Arsenic	mg/L	<0.00021	0.00021	0.00150	X845095	15-Nov-18	
EPA 6020B	Arsenic	mg/L	<0.00021	0.00021	0.00150	X845097	15-Nov-18	
EPA 6020B	Thallium	mg/L	<0.00100	0.00008	0.00100	X845095	15-Nov-18	
EPA 6020B	Thallium	mg/L	<0.00100	0.00008	0.00100	X845097	15-Nov-18	

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Total)									
EPA 7470A	Mercury	mg/L	0.00532	0.00500	106	80 - 120	X845228	16-Nov-18	
EPA 7470A	Mercury	mg/L	0.00519	0.00500	104	80 - 120	X845226	16-Nov-18	
Metals (Total Recoverable)									
EPA 6010D	Aluminum	mg/L	0.97	1.00	97.0	80 - 120	X845054	19-Nov-18	
EPA 6010D	Aluminum	mg/L	0.97	1.00	97.0	80 - 120	X845055	19-Nov-18	
EPA 6010D	Barium	mg/L	1.00	1.00	100	80 - 120	X845054	19-Nov-18	

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Project Name: North Fork 2018
Work Order: **X8K0022**
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Quality Control - LABORATORY CONTROL SAMPLE Data (Continued)

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Total Recoverable) (Continued)									
EPA 6010D	Barium	mg/L	1.01	1.00	101	80 - 120	X845055	19-Nov-18	
EPA 6010D	Beryllium	mg/L	0.994	1.00	99.4	80 - 120	X845054	19-Nov-18	
EPA 6010D	Beryllium	mg/L	0.994	1.00	99.4	80 - 120	X845055	19-Nov-18	
EPA 6010D	Cadmium	mg/L	1.04	1.00	104	80 - 120	X845054	19-Nov-18	
EPA 6010D	Cadmium	mg/L	1.04	1.00	104	80 - 120	X845055	19-Nov-18	
EPA 6010D	Calcium	mg/L	18.4	20.0	91.9	80 - 120	X845054	19-Nov-18	
EPA 6010D	Calcium	mg/L	18.5	20.0	92.5	80 - 120	X845055	19-Nov-18	
EPA 6010D	Chromium	mg/L	0.982	1.00	98.2	80 - 120	X845054	19-Nov-18	
EPA 6010D	Chromium	mg/L	0.990	1.00	99.0	80 - 120	X845055	19-Nov-18	
EPA 6010D	Cobalt	mg/L	1.03	1.00	103	80 - 120	X845054	19-Nov-18	
EPA 6010D	Cobalt	mg/L	1.03	1.00	103	80 - 120	X845055	19-Nov-18	
EPA 6010D	Copper	mg/L	0.986	1.00	98.6	80 - 120	X845054	19-Nov-18	
EPA 6010D	Copper	mg/L	0.982	1.00	98.2	80 - 120	X845055	19-Nov-18	
EPA 6010D	Iron	mg/L	9.82	10.0	98.2	80 - 120	X845054	19-Nov-18	
EPA 6010D	Iron	mg/L	9.73	10.0	97.3	80 - 120	X845055	19-Nov-18	
EPA 6010D	Lead	mg/L	0.983	1.00	98.3	80 - 120	X845054	19-Nov-18	
EPA 6010D	Lead	mg/L	0.993	1.00	99.3	80 - 120	X845055	19-Nov-18	
EPA 6010D	Magnesium	mg/L	20.1	20.0	100	80 - 120	X845054	19-Nov-18	
EPA 6010D	Magnesium	mg/L	19.9	20.0	99.7	80 - 120	X845055	19-Nov-18	
EPA 6010D	Manganese	mg/L	0.973	1.00	97.3	80 - 120	X845054	19-Nov-18	
EPA 6010D	Manganese	mg/L	0.974	1.00	97.4	80 - 120	X845055	19-Nov-18	
EPA 6010D	Nickel	mg/L	0.988	1.00	98.8	80 - 120	X845054	19-Nov-18	
EPA 6010D	Nickel	mg/L	0.996	1.00	99.6	80 - 120	X845055	19-Nov-18	
EPA 6010D	Selenium	mg/L	1.02	1.00	102	80 - 120	X845054	19-Nov-18	
EPA 6010D	Selenium	mg/L	1.03	1.00	103	80 - 120	X845055	19-Nov-18	
EPA 6010D	Silver	mg/L	0.0508	0.0500	102	80 - 120	X845054	19-Nov-18	
EPA 6010D	Silver	mg/L	0.0510	0.0500	102	80 - 120	X845055	19-Nov-18	
EPA 6010D	Vanadium	mg/L	1.03	1.00	103	80 - 120	X845054	19-Nov-18	
EPA 6010D	Vanadium	mg/L	1.03	1.00	103	80 - 120	X845055	19-Nov-18	
EPA 6010D	Zinc	mg/L	0.971	1.00	97.1	80 - 120	X845054	19-Nov-18	
EPA 6010D	Zinc	mg/L	0.986	1.00	98.6	80 - 120	X845055	19-Nov-18	
EPA 6020B	Antimony	mg/L	0.0260	0.0250	104	80 - 120	X845097	15-Nov-18	
EPA 6020B	Antimony	mg/L	0.0263	0.0250	105	80 - 120	X845095	15-Nov-18	
EPA 6020B	Arsenic	mg/L	0.0251	0.0250	100	80 - 120	X845097	15-Nov-18	
EPA 6020B	Arsenic	mg/L	0.0249	0.0250	99.6	80 - 120	X845095	15-Nov-18	
EPA 6020B	Thallium	mg/L	0.0248	0.0250	99.1	80 - 120	X845097	15-Nov-18	
EPA 6020B	Thallium	mg/L	0.0254	0.0250	101	80 - 120	X845095	15-Nov-18	

Quality Control - MATRIX SPIKE Data

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Recovery	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	mg/L	0.00108	<0.00020	0.00100	108	75 - 125	X845228	16-Nov-18	
EPA 7470A	Mercury	mg/L	0.00109	<0.00020	0.00100	109	75 - 125	X845226	16-Nov-18	
EPA 7470A	Mercury	mg/L	0.00109	<0.00020	0.00100	109	75 - 125	X845226	16-Nov-18	
Metals (Total Recoverable)										
EPA 6010D	Aluminum	mg/L	1.00	<0.08	1.00	99.8	75 - 125	X845054	19-Nov-18	
EPA 6010D	Aluminum	mg/L	0.96	<0.08	1.00	96.3	75 - 125	X845055	19-Nov-18	
EPA 6010D	Barium	mg/L	1.05	0.0256	1.00	102	75 - 125	X845054	19-Nov-18	
EPA 6010D	Barium	mg/L	0.998	<0.0020	1.00	99.8	75 - 125	X845055	19-Nov-18	
EPA 6010D	Beryllium	mg/L	1.01	<0.0020	1.00	101	75 - 125	X845054	19-Nov-18	
EPA 6010D	Beryllium	mg/L	0.984	<0.0020	1.00	98.4	75 - 125	X845055	19-Nov-18	

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Project Name: North Fork 2018
Work Order: **X8K0022**
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Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Recovery	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Total Recoverable) (Continued)										
EPA 6010D	Cadmium	mg/L	1.04	<0.0020	1.00	104	75 - 125	X845054	19-Nov-18	
EPA 6010D	Cadmium	mg/L	1.03	<0.0020	1.00	103	75 - 125	X845055	19-Nov-18	
EPA 6010D	Calcium	mg/L	36.0	17.5	20.0	92.7	75 - 125	X845054	19-Nov-18	
EPA 6010D	Calcium	mg/L	18.3	<0.100	20.0	91.4	75 - 125	X845055	19-Nov-18	
EPA 6010D	Chromium	mg/L	0.989	<0.0060	1.00	98.9	75 - 125	X845054	19-Nov-18	
EPA 6010D	Chromium	mg/L	0.987	<0.0060	1.00	98.7	75 - 125	X845055	19-Nov-18	
EPA 6010D	Cobalt	mg/L	1.03	<0.0060	1.00	103	75 - 125	X845054	19-Nov-18	
EPA 6010D	Cobalt	mg/L	1.02	<0.0060	1.00	102	75 - 125	X845055	19-Nov-18	
EPA 6010D	Copper	mg/L	0.985	<0.0100	1.00	98.5	75 - 125	X845054	19-Nov-18	
EPA 6010D	Copper	mg/L	0.979	<0.0100	1.00	97.9	75 - 125	X845055	19-Nov-18	
EPA 6010D	Iron	mg/L	9.82	<0.100	10.0	98.2	75 - 125	X845054	19-Nov-18	
EPA 6010D	Iron	mg/L	9.64	<0.100	10.0	96.4	75 - 125	X845055	19-Nov-18	
EPA 6010D	Lead	mg/L	0.991	<0.0075	1.00	99.1	75 - 125	X845054	19-Nov-18	
EPA 6010D	Lead	mg/L	0.979	<0.0075	1.00	97.9	75 - 125	X845055	19-Nov-18	
EPA 6010D	Magnesium	mg/L	27.0	6.84	20.0	101	75 - 125	X845054	19-Nov-18	
EPA 6010D	Magnesium	mg/L	19.7	<0.50	20.0	98.4	75 - 125	X845055	19-Nov-18	
EPA 6010D	Manganese	mg/L	0.983	<0.0080	1.00	98.3	75 - 125	X845054	19-Nov-18	
EPA 6010D	Manganese	mg/L	0.962	<0.0080	1.00	96.2	75 - 125	X845055	19-Nov-18	
EPA 6010D	Nickel	mg/L	0.992	<0.0100	1.00	99.2	75 - 125	X845054	19-Nov-18	
EPA 6010D	Nickel	mg/L	0.986	<0.0100	1.00	98.6	75 - 125	X845055	19-Nov-18	
EPA 6010D	Selenium	mg/L	1.03	<0.040	1.00	103	75 - 125	X845054	19-Nov-18	
EPA 6010D	Selenium	mg/L	1.01	<0.040	1.00	101	75 - 125	X845055	19-Nov-18	
EPA 6010D	Silver	mg/L	0.0505	<0.0050	0.0500	101	75 - 125	X845054	19-Nov-18	
EPA 6010D	Silver	mg/L	0.0510	<0.0050	0.0500	102	75 - 125	X845055	19-Nov-18	
EPA 6010D	Vanadium	mg/L	1.03	<0.0050	1.00	103	75 - 125	X845054	19-Nov-18	
EPA 6010D	Vanadium	mg/L	1.03	<0.0050	1.00	103	75 - 125	X845055	19-Nov-18	
EPA 6010D	Zinc	mg/L	0.978	<0.010	1.00	97.8	75 - 125	X845054	19-Nov-18	
EPA 6010D	Zinc	mg/L	0.972	<0.010	1.00	97.2	75 - 125	X845055	19-Nov-18	
EPA 6020B	Antimony	mg/L	0.0263	<0.00300	0.0250	105	75 - 125	X845097	15-Nov-18	
EPA 6020B	Antimony	mg/L	0.0260	<0.00300	0.0250	104	75 - 125	X845095	15-Nov-18	
EPA 6020B	Arsenic	mg/L	0.0255	0.00025	0.0250	101	75 - 125	X845097	15-Nov-18	
EPA 6020B	Arsenic	mg/L	0.0256	<0.00021	0.0250	102	75 - 125	X845095	15-Nov-18	
EPA 6020B	Thallium	mg/L	0.0247	<0.00100	0.0250	98.9	75 - 125	X845097	15-Nov-18	
EPA 6020B	Thallium	mg/L	0.0250	<0.00100	0.0250	100	75 - 125	X845095	15-Nov-18	

Quality Control - MATRIX SPIKE DUPLICATE Data

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	% Rec.	RPD	RPD Limit	Batch ID	Analyzed	Notes
Metals (Total)											
EPA 7470A	Mercury	mg/L	0.00113	0.00109	0.00100	113	3.6	20	X845226	16-Nov-18	
EPA 7470A	Mercury	mg/L	0.00110	0.00108	0.00100	110	1.9	20	X845228	16-Nov-18	
Metals (Total Recoverable)											
EPA 6010D	Aluminum	mg/L	0.98	1.00	1.00	97.6	2.3	20	X845054	19-Nov-18	
EPA 6010D	Aluminum	mg/L	0.97	0.96	1.00	97.4	1.1	20	X845055	19-Nov-18	
EPA 6010D	Barium	mg/L	1.03	1.05	1.00	100	2.2	20	X845054	19-Nov-18	
EPA 6010D	Barium	mg/L	1.01	0.998	1.00	101	1.5	20	X845055	19-Nov-18	
EPA 6010D	Beryllium	mg/L	0.987	1.01	1.00	98.7	2.3	20	X845054	19-Nov-18	
EPA 6010D	Beryllium	mg/L	0.998	0.984	1.00	99.8	1.5	20	X845055	19-Nov-18	
EPA 6010D	Cadmium	mg/L	1.02	1.04	1.00	102	2.0	20	X845054	19-Nov-18	
EPA 6010D	Cadmium	mg/L	1.05	1.03	1.00	105	2.1	20	X845055	19-Nov-18	
EPA 6010D	Calcium	mg/L	35.4	36.0	20.0	89.6	1.7	20	X845054	19-Nov-18	
EPA 6010D	Calcium	mg/L	18.6	18.3	20.0	93.0	1.7	20	X845055	19-Nov-18	

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Project Name: North Fork 2018
Work Order: **X8K0022**
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Quality Control - MATRIX SPIKE DUPLICATE Data (Continued)

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	% Rec.	RPD	RPD Limit	Batch ID	Analyzed	Notes
Metals (Total Recoverable) (Continued)											
EPA 6010D	Chromium	mg/L	0.976	0.989	1.00	97.6	1.4	20	X845054	19-Nov-18	
EPA 6010D	Chromium	mg/L	0.983	0.987	1.00	98.3	0.5	20	X845055	19-Nov-18	
EPA 6010D	Cobalt	mg/L	1.01	1.03	1.00	101	1.7	20	X845054	19-Nov-18	
EPA 6010D	Cobalt	mg/L	1.04	1.02	1.00	104	2.4	20	X845055	19-Nov-18	
EPA 6010D	Copper	mg/L	0.968	0.985	1.00	96.8	1.8	20	X845054	19-Nov-18	
EPA 6010D	Copper	mg/L	0.974	0.979	1.00	97.4	0.5	20	X845055	19-Nov-18	
EPA 6010D	Iron	mg/L	9.66	9.82	10.0	96.6	1.6	20	X845054	19-Nov-18	
EPA 6010D	Iron	mg/L	9.81	9.64	10.0	98.1	1.8	20	X845055	19-Nov-18	
EPA 6010D	Lead	mg/L	0.971	0.991	1.00	97.1	2.0	20	X845054	19-Nov-18	
EPA 6010D	Lead	mg/L	1.00	0.979	1.00	100	2.3	20	X845055	19-Nov-18	
EPA 6010D	Magnesium	mg/L	26.5	27.0	20.0	98.4	1.9	20	X845054	19-Nov-18	
EPA 6010D	Magnesium	mg/L	20.1	19.7	20.0	100	2.1	20	X845055	19-Nov-18	
EPA 6010D	Manganese	mg/L	0.967	0.983	1.00	96.7	1.6	20	X845054	19-Nov-18	
EPA 6010D	Manganese	mg/L	0.982	0.962	1.00	98.2	2.1	20	X845055	19-Nov-18	
EPA 6010D	Nickel	mg/L	0.974	0.992	1.00	97.4	1.8	20	X845054	19-Nov-18	
EPA 6010D	Nickel	mg/L	1.01	0.986	1.00	101	2.2	20	X845055	19-Nov-18	
EPA 6010D	Selenium	mg/L	1.00	1.03	1.00	100	2.3	20	X845054	19-Nov-18	
EPA 6010D	Selenium	mg/L	1.04	1.01	1.00	104	2.0	20	X845055	19-Nov-18	
EPA 6010D	Silver	mg/L	0.0504	0.0505	0.0500	101	0.2	20	X845054	19-Nov-18	
EPA 6010D	Silver	mg/L	0.0502	0.0510	0.0500	100	1.5	20	X845055	19-Nov-18	
EPA 6010D	Vanadium	mg/L	1.02	1.03	1.00	102	1.5	20	X845054	19-Nov-18	
EPA 6010D	Vanadium	mg/L	1.02	1.03	1.00	102	0.6	20	X845055	19-Nov-18	
EPA 6010D	Zinc	mg/L	0.964	0.978	1.00	96.4	1.4	20	X845054	19-Nov-18	
EPA 6010D	Zinc	mg/L	0.994	0.972	1.00	99.4	2.2	20	X845055	19-Nov-18	
EPA 6020B	Antimony	mg/L	0.0257	0.0260	0.0250	103	1.4	20	X845095	15-Nov-18	
EPA 6020B	Antimony	mg/L	0.0266	0.0263	0.0250	106	1.1	20	X845097	15-Nov-18	
EPA 6020B	Arsenic	mg/L	0.0251	0.0256	0.0250	101	1.7	20	X845095	15-Nov-18	
EPA 6020B	Arsenic	mg/L	0.0255	0.0255	0.0250	101	0.0	20	X845097	15-Nov-18	
EPA 6020B	Thallium	mg/L	0.0250	0.0250	0.0250	100	0.1	20	X845095	15-Nov-18	
EPA 6020B	Thallium	mg/L	0.0249	0.0247	0.0250	99.5	0.6	20	X845097	15-Nov-18	

Notes and Definitions

D1	Sample required dilution due to matrix.
LCS	Laboratory Control Sample (Blank Spike)
RPD	Relative Percent Difference
UDL	A result is less than the detection limit
0.30R>S	% recovery not applicable; spike level is less than 30% of the sample concentration
<RL	A result is less than the reporting limit
MRL	Method Reporting Limit
MDL	Method Detection Limit
N/A	Not Applicable

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Project Name: North Fork 2018
Work Order: **X8K0029**
Reported: 20-Nov-18 13:38

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
NF-SD1	X8K0029-01	Sediment	29-Oct-18 09:25	GM	01-Nov-2018	
NF-SD2	X8K0029-02	Sediment	29-Oct-18 09:35	GM	01-Nov-2018	
NF-SD3	X8K0029-03	Sediment	29-Oct-18 09:40	GM	01-Nov-2018	
NF-SD4	X8K0029-04	Sediment	29-Oct-18 10:15	GM	01-Nov-2018	
NF-SD5	X8K0029-05	Sediment	29-Oct-18 10:50	GM	01-Nov-2018	
NF-SD6	X8K0029-06	Sediment	29-Oct-18 11:25	GM	01-Nov-2018	
NF-SD7	X8K0029-07	Sediment	29-Oct-18 11:30	GM	01-Nov-2018	
NF-SD8	X8K0029-08	Sediment	29-Oct-18 11:55	GM	01-Nov-2018	
NF-SD9	X8K0029-09	Sediment	29-Oct-18 12:20	GM	01-Nov-2018	
NF-SD10	X8K0029-10	Sediment	29-Oct-18 12:35	GM	01-Nov-2018	
NF-SD11	X8K0029-11	Sediment	29-Oct-18 13:55	GM	01-Nov-2018	
NF-SD12	X8K0029-12	Sediment	30-Oct-18 10:45	GM	01-Nov-2018	
NF-SD13	X8K0029-13	Sediment	30-Oct-18 11:25	GM	01-Nov-2018	
NF-SD14	X8K0029-14	Sediment	30-Oct-18 11:45	GM	01-Nov-2018	
NF-SD15	X8K0029-15	Sediment	30-Oct-18 12:15	GM	01-Nov-2018	
NF-SD16	X8K0029-16	Sediment	30-Oct-18 12:40	GM	01-Nov-2018	
NF-SD17	X8K0029-17	Sediment	30-Oct-18 12:40	GM	01-Nov-2018	
NF-SD18	X8K0029-18	Sediment	30-Oct-18 13:00	GM	01-Nov-2018	
NF-SD19	X8K0029-19	Sediment	30-Oct-18 13:05	GM	01-Nov-2018	
NF-SD20	X8K0029-20	Sediment	30-Oct-18 13:25	GM	01-Nov-2018	

Solid samples are analyzed on an as-received, wet-weight basis, unless otherwise requested.
Sample preparation is defined by the client as per their Data Quality Objectives.
This report supercedes any previous reports for this Work Order. The complete report includes pages for each sample, a full QC report, and a notes section.
Analyses were performed in accordance with SVL standard operating procedures and calibrations were performed and met SVL internal QC criteria.
The results presented in this report relate only to the samples, and meet all requirements of the NELAC Standards unless otherwise noted.

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Project Name: North Fork 2018
Work Order: **X8K0029**
Reported: 20-Nov-18 13:38

Client Sample ID: **NF-SD1**
SVL Sample ID: **X8K0029-01 (Sediment)**

Sampled: 29-Oct-18 09:25
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 6020B	**Antimony**	0.900	mg/kg dry wt. dry	0.300	0.071	2	X845075	KWH	11/16/18 07:10	D1
EPA 6020B	**Arsenic**	5.96	mg/kg dry wt. dry	0.367	0.161	2	X845073	KWH	11/15/18 12:33	D1
EPA 6020B	Thallium	< 0.100	mg/kg dry wt. dry	0.100	0.0130	2	X845073	KWH	11/15/18 12:33	D1
Metals (Total) by EPA 6000/7000 Methods										
EPA 6010D	**Aluminum**	5890	mg/kg dry wt. dry	9.8	6.1		X845068	DT	11/19/18 07:51	
EPA 6010D	**Barium**	68.9	mg/kg dry wt. dry	0.24	0.22		X845068	DT	11/19/18 07:51	
EPA 6010D	**Beryllium**	0.27	mg/kg dry wt. dry	0.24	0.10		X845068	DT	11/19/18 07:51	
EPA 6010D	**Cadmium**	0.25	mg/kg dry wt. dry	0.24	0.07		X845068	DT	11/19/18 07:51	
EPA 6010D	**Calcium**	1630	mg/kg dry wt. dry	12.2	6.0		X845068	DT	11/19/18 07:51	
EPA 6010D	**Chromium**	8.92	mg/kg dry wt. dry	0.73	0.24		X845068	DT	11/19/18 07:51	
EPA 6010D	**Cobalt**	8.31	mg/kg dry wt. dry	0.73	0.09		X845068	DT	11/19/18 07:51	
EPA 6010D	**Copper**	19.2	mg/kg dry wt. dry	1.22	0.20		X845068	DT	11/19/18 07:51	
EPA 6010D	**Iron**	14500	mg/kg dry wt. dry	12.2	8.1		X845068	DT	11/19/18 07:51	
EPA 6010D	**Lead**	45.4	mg/kg dry wt. dry	0.9	0.4		X845068	DT	11/19/18 07:51	
EPA 6010D	**Magnesium**	3100	mg/kg dry wt. dry	24.4	14.7		X845068	DT	11/19/18 07:51	
EPA 6010D	**Manganese**	331	mg/kg dry wt. dry	0.98	0.34		X845068	DT	11/19/18 07:51	
EPA 6010D	**Nickel**	7.19	mg/kg dry wt. dry	1.22	0.29		X845068	DT	11/19/18 07:51	
EPA 6010D	Selenium	< 4.9	mg/kg dry wt. dry	4.9	1.3		X845068	DT	11/19/18 07:51	
EPA 6010D	Silver	< 0.61	mg/kg dry wt. dry	0.61	0.24		X845068	DT	11/19/18 07:51	
EPA 6010D	**Vanadium**	7.37	mg/kg dry wt. dry	0.61	0.20		X845068	DT	11/19/18 07:51	
EPA 6010D	**Zinc**	382	mg/kg dry wt. dry	1.2	0.4		X845068	DT	11/19/18 07:51	
EPA 7471B	Mercury	< 0.040	mg/kg dry wt. dry	0.040	0.013		X845251	MWD	11/16/18 11:40	
Percent Solids / Percent Moisture										
Percent Solids	**% Solids**	81.8	%	0.1			X845076	JAA	11/07/18 08:45	

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

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Project Name: North Fork 2018
Work Order: **X8K0029**
Reported: 20-Nov-18 13:38

Client Sample ID: **NF-SD2**
SVL Sample ID: **X8K0029-02 (Sediment)**

Sampled: 29-Oct-18 09:35
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 6020B	**Antimony**	0.573	mg/kg dry wt. dry	0.300	0.069	2	X845075	KWH	11/16/18 07:13	D1
EPA 6020B	**Arsenic**	4.85	mg/kg dry wt. dry	0.358	0.158	2	X845073	KWH	11/15/18 12:35	D1
EPA 6020B	Thallium	< 0.100	mg/kg dry wt. dry	0.100	0.0127	2	X845073	KWH	11/15/18 12:35	D1
Metals (Total) by EPA 6000/7000 Methods										
EPA 6010D	**Aluminum**	6060	mg/kg dry wt. dry	9.6	6.0		X845068	DT	11/19/18 07:54	
EPA 6010D	**Barium**	57.4	mg/kg dry wt. dry	0.24	0.22		X845068	DT	11/19/18 07:54	
EPA 6010D	**Beryllium**	0.37	mg/kg dry wt. dry	0.24	0.10		X845068	DT	11/19/18 07:54	
EPA 6010D	Cadmium	< 0.24	mg/kg dry wt. dry	0.24	0.07		X845068	DT	11/19/18 07:54	
EPA 6010D	**Calcium**	745	mg/kg dry wt. dry	11.9	5.9		X845068	DT	11/19/18 07:54	
EPA 6010D	**Chromium**	7.36	mg/kg dry wt. dry	0.72	0.24		X845068	DT	11/19/18 07:54	
EPA 6010D	**Cobalt**	5.10	mg/kg dry wt. dry	0.72	0.09		X845068	DT	11/19/18 07:54	
EPA 6010D	**Copper**	12.3	mg/kg dry wt. dry	1.19	0.19		X845068	DT	11/19/18 07:54	
EPA 6010D	**Iron**	11300	mg/kg dry wt. dry	11.9	7.9		X845068	DT	11/19/18 07:54	
EPA 6010D	**Lead**	20.1	mg/kg dry wt. dry	0.9	0.4		X845068	DT	11/19/18 07:54	
EPA 6010D	**Magnesium**	3040	mg/kg dry wt. dry	23.9	14.3		X845068	DT	11/19/18 07:54	
EPA 6010D	**Manganese**	274	mg/kg dry wt. dry	0.96	0.33		X845068	DT	11/19/18 07:54	
EPA 6010D	**Nickel**	7.78	mg/kg dry wt. dry	1.19	0.29		X845068	DT	11/19/18 07:54	
EPA 6010D	Selenium	< 4.8	mg/kg dry wt. dry	4.8	1.3		X845068	DT	11/19/18 07:54	
EPA 6010D	Silver	< 0.60	mg/kg dry wt. dry	0.60	0.24		X845068	DT	11/19/18 07:54	
EPA 6010D	**Vanadium**	8.50	mg/kg dry wt. dry	0.60	0.19		X845068	DT	11/19/18 07:54	
EPA 6010D	**Zinc**	65.5	mg/kg dry wt. dry	1.2	0.4		X845068	DT	11/19/18 07:54	
EPA 7471B	Mercury	< 0.039	mg/kg dry wt. dry	0.039	0.013		X845251	MWD	11/16/18 11:42	
Percent Solids / Percent Moisture										
Percent Solids	**% Solids**	83.7	%	0.1			X845076	JAA	11/07/18 08:45	

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Project Name: North Fork 2018
Work Order: **X8K0029**
Reported: 20-Nov-18 13:38

Client Sample ID: **NF-SD3**
SVL Sample ID: **X8K0029-03 (Sediment)**

Sampled: 29-Oct-18 09:40
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 6020B	**Antimony**	0.641	mg/kg dry wt. dry	0.300	0.066	2	X845075	KWH	11/16/18 07:15	D1
EPA 6020B	**Arsenic**	6.08	mg/kg dry wt. dry	0.341	0.150	2	X845073	KWH	11/15/18 12:37	D1
EPA 6020B	Thallium	< 0.100	mg/kg dry wt. dry	0.100	0.0120	2	X845073	KWH	11/15/18 12:37	D1
Metals (Total) by EPA 6000/7000 Methods										
EPA 6010D	**Aluminum**	6330	mg/kg dry wt. dry	9.1	5.7		X845068	DT	11/19/18 07:58	
EPA 6010D	**Barium**	33.0	mg/kg dry wt. dry	0.23	0.20		X845068	DT	11/19/18 07:58	
EPA 6010D	**Beryllium**	0.36	mg/kg dry wt. dry	0.23	0.09		X845068	DT	11/19/18 07:58	
EPA 6010D	Cadmium	< 0.23	mg/kg dry wt. dry	0.23	0.06		X845068	DT	11/19/18 07:58	
EPA 6010D	**Calcium**	615	mg/kg dry wt. dry	11.4	5.6		X845068	DT	11/19/18 07:58	
EPA 6010D	**Chromium**	10.8	mg/kg dry wt. dry	0.68	0.23		X845068	DT	11/19/18 07:58	
EPA 6010D	**Cobalt**	3.67	mg/kg dry wt. dry	0.68	0.08		X845068	DT	11/19/18 07:58	
EPA 6010D	**Copper**	9.47	mg/kg dry wt. dry	1.14	0.18		X845068	DT	11/19/18 07:58	
EPA 6010D	**Iron**	13900	mg/kg dry wt. dry	11.4	7.5		X845068	DT	11/19/18 07:58	
EPA 6010D	**Lead**	17.3	mg/kg dry wt. dry	0.9	0.4		X845068	DT	11/19/18 07:58	
EPA 6010D	**Magnesium**	4630	mg/kg dry wt. dry	22.7	13.6		X845068	DT	11/19/18 07:58	
EPA 6010D	**Manganese**	160	mg/kg dry wt. dry	0.91	0.32		X845068	DT	11/19/18 07:58	
EPA 6010D	**Nickel**	8.39	mg/kg dry wt. dry	1.14	0.27		X845068	DT	11/19/18 07:58	
EPA 6010D	Selenium	< 4.5	mg/kg dry wt. dry	4.5	1.2		X845068	DT	11/19/18 07:58	
EPA 6010D	Silver	< 0.57	mg/kg dry wt. dry	0.57	0.23		X845068	DT	11/19/18 07:58	
EPA 6010D	**Vanadium**	11.4	mg/kg dry wt. dry	0.57	0.18		X845068	DT	11/19/18 07:58	
EPA 6010D	**Zinc**	46.6	mg/kg dry wt. dry	1.1	0.4		X845068	DT	11/19/18 07:58	
EPA 7471B	Mercury	< 0.037	mg/kg dry wt. dry	0.037	0.012		X845251	MWD	11/16/18 11:44	
Percent Solids / Percent Moisture										
Percent Solids	**% Solids**	88.1	%	0.1			X845076	JAA	11/07/18 08:45	

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Project Name: North Fork 2018
Work Order: **X8K0029**
Reported: 20-Nov-18 13:38

Client Sample ID: **NF-SD4**
SVL Sample ID: **X8K0029-04 (Sediment)**

Sampled: 29-Oct-18 10:15
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 6020B	**Antimony**	0.394	mg/kg dry wt. dry	0.300	0.063	2	X845075	KWH	11/16/18 07:17	D1
EPA 6020B	**Arsenic**	4.31	mg/kg dry wt. dry	0.328	0.144	2	X845073	KWH	11/15/18 12:39	D1
EPA 6020B	Thallium	< 0.100	mg/kg dry wt. dry	0.100	0.0116	2	X845073	KWH	11/15/18 12:39	D1
Metals (Total) by EPA 6000/7000 Methods										
EPA 6010D	**Aluminum**	3990	mg/kg dry wt. dry	8.7	5.5		X845068	DT	11/19/18 08:02	
EPA 6010D	**Barium**	31.2	mg/kg dry wt. dry	0.22	0.20		X845068	DT	11/19/18 08:02	
EPA 6010D	**Beryllium**	0.27	mg/kg dry wt. dry	0.22	0.09		X845068	DT	11/19/18 08:02	
EPA 6010D	Cadmium	< 0.22	mg/kg dry wt. dry	0.22	0.06		X845068	DT	11/19/18 08:02	
EPA 6010D	**Calcium**	452	mg/kg dry wt. dry	10.9	5.4		X845068	DT	11/19/18 08:02	
EPA 6010D	**Chromium**	4.83	mg/kg dry wt. dry	0.66	0.22		X845068	DT	11/19/18 08:02	
EPA 6010D	**Cobalt**	2.63	mg/kg dry wt. dry	0.66	0.08		X845068	DT	11/19/18 08:02	
EPA 6010D	**Copper**	6.87	mg/kg dry wt. dry	1.09	0.17		X845068	DT	11/19/18 08:02	
EPA 6010D	**Iron**	9660	mg/kg dry wt. dry	10.9	7.2		X845068	DT	11/19/18 08:02	
EPA 6010D	**Lead**	5.0	mg/kg dry wt. dry	0.8	0.4		X845068	DT	11/19/18 08:02	
EPA 6010D	**Magnesium**	2010	mg/kg dry wt. dry	21.8	13.1		X845068	DT	11/19/18 08:02	
EPA 6010D	**Manganese**	157	mg/kg dry wt. dry	0.87	0.31		X845068	DT	11/19/18 08:02	
EPA 6010D	**Nickel**	3.67	mg/kg dry wt. dry	1.09	0.26		X845068	DT	11/19/18 08:02	
EPA 6010D	Selenium	< 4.4	mg/kg dry wt. dry	4.4	1.2		X845068	DT	11/19/18 08:02	
EPA 6010D	Silver	< 0.55	mg/kg dry wt. dry	0.55	0.22		X845068	DT	11/19/18 08:02	
EPA 6010D	**Vanadium**	5.97	mg/kg dry wt. dry	0.55	0.17		X845068	DT	11/19/18 08:02	
EPA 6010D	**Zinc**	27.0	mg/kg dry wt. dry	1.1	0.4		X845068	DT	11/19/18 08:02	
EPA 7471B	Mercury	< 0.036	mg/kg dry wt. dry	0.036	0.012		X845251	MWD	11/16/18 11:47	
Percent Solids / Percent Moisture										
Percent Solids	**% Solids**	91.5	%	0.1			X845076	JAA	11/07/18 08:45	

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Kellogg, ID 83837

Project Name: North Fork 2018
Work Order: **X8K0029**
Reported: 20-Nov-18 13:38

Client Sample ID: **NF-SD5**
SVL Sample ID: **X8K0029-05 (Sediment)**

Sampled: 29-Oct-18 10:50
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 6020B	**Antimony**	0.574	mg/kg dry wt. dry	0.300	0.080	2	X845075	KWH	11/16/18 07:19	D1
EPA 6020B	**Arsenic**	9.05	mg/kg dry wt. dry	0.411	0.181	2	X845073	KWH	11/15/18 12:41	D1
EPA 6020B	Thallium	< 0.100	mg/kg dry wt. dry	0.100	0.0145	2	X845073	KWH	11/15/18 12:41	D1
Metals (Total) by EPA 6000/7000 Methods										
EPA 6010D	**Aluminum**	8150	mg/kg dry wt. dry	11.0	6.9		X845068	DT	11/19/18 08:05	
EPA 6010D	**Barium**	80.8	mg/kg dry wt. dry	0.27	0.25		X845068	DT	11/19/18 08:05	
EPA 6010D	**Beryllium**	0.43	mg/kg dry wt. dry	0.27	0.11		X845068	DT	11/19/18 08:05	
EPA 6010D	**Cadmium**	0.64	mg/kg dry wt. dry	0.27	0.08		X845068	DT	11/19/18 08:05	
EPA 6010D	**Calcium**	1310	mg/kg dry wt. dry	13.7	6.7		X845068	DT	11/19/18 08:05	
EPA 6010D	**Chromium**	8.97	mg/kg dry wt. dry	0.82	0.27		X845068	DT	11/19/18 08:05	
EPA 6010D	**Cobalt**	6.09	mg/kg dry wt. dry	0.82	0.10		X845068	DT	11/19/18 08:05	
EPA 6010D	**Copper**	16.3	mg/kg dry wt. dry	1.37	0.22		X845068	DT	11/19/18 08:05	
EPA 6010D	**Iron**	16100	mg/kg dry wt. dry	13.7	9.1		X845068	DT	11/19/18 08:05	
EPA 6010D	**Lead**	92.1	mg/kg dry wt. dry	1.0	0.5		X845068	DT	11/19/18 08:05	
EPA 6010D	**Magnesium**	3680	mg/kg dry wt. dry	27.4	16.5		X845068	DT	11/19/18 08:05	
EPA 6010D	**Manganese**	320	mg/kg dry wt. dry	1.10	0.38		X845068	DT	11/19/18 08:05	
EPA 6010D	**Nickel**	9.81	mg/kg dry wt. dry	1.37	0.33		X845068	DT	11/19/18 08:05	
EPA 6010D	Selenium	< 5.5	mg/kg dry wt. dry	5.5	1.5		X845068	DT	11/19/18 08:05	
EPA 6010D	Silver	< 0.69	mg/kg dry wt. dry	0.69	0.27		X845068	DT	11/19/18 08:05	
EPA 6010D	**Vanadium**	9.75	mg/kg dry wt. dry	0.69	0.22		X845068	DT	11/19/18 08:05	
EPA 6010D	**Zinc**	156	mg/kg dry wt. dry	1.4	0.5		X845068	DT	11/19/18 08:05	
EPA 7471B	Mercury	< 0.045	mg/kg dry wt. dry	0.045	0.015		X845251	MWD	11/16/18 11:49	
Percent Solids / Percent Moisture										
Percent Solids	**% Solids**	72.9	%	0.1			X845076	JAA	11/07/18 08:45	

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Project Name: North Fork 2018
Work Order: **X8K0029**
Reported: 20-Nov-18 13:38

Client Sample ID: **NF-SD6**
SVL Sample ID: **X8K0029-06 (Sediment)**

Sampled: 29-Oct-18 11:25
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 6020B	**Antimony**	0.637	mg/kg dry wt. dry	0.300	0.070	2	X845075	KWH	11/16/18 07:25	D1
EPA 6020B	**Arsenic**	7.91	mg/kg dry wt. dry	0.361	0.159	2	X845073	KWH	11/15/18 12:47	D1
EPA 6020B	Thallium	< 0.100	mg/kg dry wt. dry	0.100	0.0127	2	X845073	KWH	11/15/18 12:47	D1
Metals (Total) by EPA 6000/7000 Methods										
EPA 6010D	**Aluminum**	7230	mg/kg dry wt. dry	9.6	6.0		X845068	DT	11/19/18 08:09	
EPA 6010D	**Barium**	55.3	mg/kg dry wt. dry	0.24	0.22		X845068	DT	11/19/18 08:09	
EPA 6010D	**Beryllium**	0.35	mg/kg dry wt. dry	0.24	0.10		X845068	DT	11/19/18 08:09	
EPA 6010D	**Cadmium**	0.27	mg/kg dry wt. dry	0.24	0.07		X845068	DT	11/19/18 08:09	
EPA 6010D	**Calcium**	822	mg/kg dry wt. dry	12.0	5.9		X845068	DT	11/19/18 08:09	
EPA 6010D	**Chromium**	7.77	mg/kg dry wt. dry	0.72	0.24		X845068	DT	11/19/18 08:09	
EPA 6010D	**Cobalt**	4.89	mg/kg dry wt. dry	0.72	0.09		X845068	DT	11/19/18 08:09	
EPA 6010D	**Copper**	12.5	mg/kg dry wt. dry	1.20	0.19		X845068	DT	11/19/18 08:09	
EPA 6010D	**Iron**	15200	mg/kg dry wt. dry	12.0	7.9		X845068	DT	11/19/18 08:09	
EPA 6010D	**Lead**	64.0	mg/kg dry wt. dry	0.9	0.4		X845068	DT	11/19/18 08:09	
EPA 6010D	**Magnesium**	4030	mg/kg dry wt. dry	24.0	14.4		X845068	DT	11/19/18 08:09	
EPA 6010D	**Manganese**	249	mg/kg dry wt. dry	0.96	0.34		X845068	DT	11/19/18 08:09	
EPA 6010D	**Nickel**	8.62	mg/kg dry wt. dry	1.20	0.29		X845068	DT	11/19/18 08:09	
EPA 6010D	Selenium	< 4.8	mg/kg dry wt. dry	4.8	1.3		X845068	DT	11/19/18 08:09	
EPA 6010D	Silver	< 0.60	mg/kg dry wt. dry	0.60	0.24		X845068	DT	11/19/18 08:09	
EPA 6010D	**Vanadium**	8.42	mg/kg dry wt. dry	0.60	0.19		X845068	DT	11/19/18 08:09	
EPA 6010D	**Zinc**	80.7	mg/kg dry wt. dry	1.2	0.4		X845068	DT	11/19/18 08:09	
EPA 7471B	Mercury	< 0.040	mg/kg dry wt. dry	0.040	0.013		X845251	MWD	11/16/18 11:51	
Percent Solids / Percent Moisture										
Percent Solids	**% Solids**	83.2	%	0.1			X845076	JAA	11/07/18 08:45	

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

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108 W. Idaho Street
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Project Name: North Fork 2018
Work Order: **X8K0029**
Reported: 20-Nov-18 13:38

Client Sample ID: **NF-SD7**
SVL Sample ID: **X8K0029-07 (Sediment)**

Sampled: 29-Oct-18 11:30
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 6020B	**Antimony**	0.869	mg/kg dry wt. dry	0.300	0.065	2	X845075	KWH	11/16/18 07:27	D1
EPA 6020B	**Arsenic**	9.32	mg/kg dry wt. dry	0.336	0.148	2	X845073	KWH	11/15/18 12:49	D1
EPA 6020B	Thallium	< 0.100	mg/kg dry wt. dry	0.100	0.0119	2	X845073	KWH	11/15/18 12:49	D1
Metals (Total) by EPA 6000/7000 Methods										
EPA 6010D	**Aluminum**	5650	mg/kg dry wt. dry	9.0	5.6		X845068	DT	11/19/18 08:12	
EPA 6010D	**Barium**	36.9	mg/kg dry wt. dry	0.22	0.20		X845068	DT	11/19/18 08:12	
EPA 6010D	Beryllium	< 0.22	mg/kg dry wt. dry	0.22	0.09		X845068	DT	11/19/18 08:12	
EPA 6010D	Cadmium	< 0.22	mg/kg dry wt. dry	0.22	0.06		X845068	DT	11/19/18 08:12	
EPA 6010D	**Calcium**	486	mg/kg dry wt. dry	11.2	5.5		X845068	DT	11/19/18 08:12	
EPA 6010D	**Chromium**	6.89	mg/kg dry wt. dry	0.67	0.22		X845068	DT	11/19/18 08:12	
EPA 6010D	**Cobalt**	4.64	mg/kg dry wt. dry	0.67	0.08		X845068	DT	11/19/18 08:12	
EPA 6010D	**Copper**	10.9	mg/kg dry wt. dry	1.12	0.18		X845068	DT	11/19/18 08:12	
EPA 6010D	**Iron**	15500	mg/kg dry wt. dry	11.2	7.4		X845068	DT	11/19/18 08:12	
EPA 6010D	**Lead**	35.9	mg/kg dry wt. dry	0.8	0.4		X845068	DT	11/19/18 08:12	
EPA 6010D	**Magnesium**	3600	mg/kg dry wt. dry	22.4	13.5		X845068	DT	11/19/18 08:12	
EPA 6010D	**Manganese**	253	mg/kg dry wt. dry	0.90	0.31		X845068	DT	11/19/18 08:12	
EPA 6010D	**Nickel**	8.18	mg/kg dry wt. dry	1.12	0.27		X845068	DT	11/19/18 08:12	
EPA 6010D	Selenium	< 4.5	mg/kg dry wt. dry	4.5	1.2		X845068	DT	11/19/18 08:12	
EPA 6010D	Silver	< 0.56	mg/kg dry wt. dry	0.56	0.22		X845068	DT	11/19/18 08:12	
EPA 6010D	**Vanadium**	6.73	mg/kg dry wt. dry	0.56	0.18		X845068	DT	11/19/18 08:12	
EPA 6010D	**Zinc**	54.9	mg/kg dry wt. dry	1.1	0.4		X845068	DT	11/19/18 08:12	
EPA 7471B	Mercury	< 0.037	mg/kg dry wt. dry	0.037	0.012		X845251	MWD	11/16/18 11:53	
Percent Solids / Percent Moisture										
Percent Solids	**% Solids**	89.2	%	0.1			X845076	JAA	11/07/18 08:45	

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

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Project Name: North Fork 2018
Work Order: **X8K0029**
Reported: 20-Nov-18 13:38

Client Sample ID: **NF-SD8**
SVL Sample ID: **X8K0029-08 (Sediment)**

Sampled: 29-Oct-18 11:55
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 6020B	**Antimony**	0.350	mg/kg dry wt. dry	0.300	0.065	2	X845075	KWH	11/16/18 07:29	D1
EPA 6020B	**Arsenic**	1.53	mg/kg dry wt. dry	0.335	0.147	2	X845073	KWH	11/15/18 12:52	D1
EPA 6020B	Thallium	< 0.100	mg/kg dry wt. dry	0.100	0.0118	2	X845073	KWH	11/15/18 12:52	D1
Metals (Total) by EPA 6000/7000 Methods										
EPA 6010D	**Aluminum**	2470	mg/kg dry wt. dry	8.9	5.6		X845068	DT	11/19/18 08:16	
EPA 6010D	**Barium**	47.6	mg/kg dry wt. dry	0.22	0.20		X845068	DT	11/19/18 08:16	
EPA 6010D	Beryllium	< 0.22	mg/kg dry wt. dry	0.22	0.09		X845068	DT	11/19/18 08:16	
EPA 6010D	Cadmium	< 0.22	mg/kg dry wt. dry	0.22	0.06		X845068	DT	11/19/18 08:16	
EPA 6010D	**Calcium**	648	mg/kg dry wt. dry	11.2	5.5		X845068	DT	11/19/18 08:16	
EPA 6010D	**Chromium**	2.01	mg/kg dry wt. dry	0.67	0.22		X845068	DT	11/19/18 08:16	
EPA 6010D	**Cobalt**	1.66	mg/kg dry wt. dry	0.67	0.08		X845068	DT	11/19/18 08:16	
EPA 6010D	**Copper**	6.02	mg/kg dry wt. dry	1.12	0.18		X845068	DT	11/19/18 08:16	
EPA 6010D	**Iron**	3970	mg/kg dry wt. dry	11.2	7.4		X845068	DT	11/19/18 08:16	
EPA 6010D	**Lead**	6.7	mg/kg dry wt. dry	0.8	0.4		X845068	DT	11/19/18 08:16	
EPA 6010D	**Magnesium**	603	mg/kg dry wt. dry	22.3	13.4		X845068	DT	11/19/18 08:16	
EPA 6010D	**Manganese**	271	mg/kg dry wt. dry	0.89	0.31		X845068	DT	11/19/18 08:16	
EPA 6010D	**Nickel**	1.88	mg/kg dry wt. dry	1.12	0.27		X845068	DT	11/19/18 08:16	
EPA 6010D	Selenium	< 4.5	mg/kg dry wt. dry	4.5	1.2		X845068	DT	11/19/18 08:16	
EPA 6010D	Silver	< 0.56	mg/kg dry wt. dry	0.56	0.22		X845068	DT	11/19/18 08:16	
EPA 6010D	**Vanadium**	2.88	mg/kg dry wt. dry	0.56	0.18		X845068	DT	11/19/18 08:16	
EPA 6010D	**Zinc**	15.0	mg/kg dry wt. dry	1.1	0.4		X845068	DT	11/19/18 08:16	
EPA 7471B	Mercury	< 0.037	mg/kg dry wt. dry	0.037	0.012		X845251	MWD	11/16/18 11:55	
Percent Solids / Percent Moisture										
Percent Solids	**% Solids**	89.7	%	0.1			X845076	JAA	11/07/18 08:45	

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Project Name: North Fork 2018
Work Order: **X8K0029**
Reported: 20-Nov-18 13:38

Client Sample ID: **NF-SD9**
SVL Sample ID: **X8K0029-09 (Sediment)**

Sampled: 29-Oct-18 12:20
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 6020B	**Antimony**	1.05	mg/kg dry wt. dry	0.300	0.077	2	X845075	KWH	11/16/18 07:32	D1
EPA 6020B	**Arsenic**	9.21	mg/kg dry wt. dry	0.398	0.175	2	X845073	KWH	11/15/18 12:54	D1
EPA 6020B	Thallium	< 0.100	mg/kg dry wt. dry	0.100	0.0141	2	X845073	KWH	11/15/18 12:54	D1
Metals (Total) by EPA 6000/7000 Methods										
EPA 6010D	**Aluminum**	7240	mg/kg dry wt. dry	10.6	6.6		X845068	DT	11/19/18 08:27	M3
EPA 6010D	**Barium**	81.9	mg/kg dry wt. dry	0.27	0.24		X845068	DT	11/19/18 08:27	
EPA 6010D	**Beryllium**	0.35	mg/kg dry wt. dry	0.27	0.11		X845068	DT	11/19/18 08:27	
EPA 6010D	**Cadmium**	0.31	mg/kg dry wt. dry	0.27	0.08		X845068	DT	11/19/18 08:27	
EPA 6010D	**Calcium**	1540	mg/kg dry wt. dry	13.3	6.5		X845068	DT	11/19/18 08:27	
EPA 6010D	**Chromium**	8.77	mg/kg dry wt. dry	0.80	0.27		X845068	DT	11/19/18 08:27	
EPA 6010D	**Cobalt**	8.09	mg/kg dry wt. dry	0.80	0.10		X845068	DT	11/19/18 08:27	
EPA 6010D	**Copper**	20.1	mg/kg dry wt. dry	1.33	0.21		X845068	DT	11/19/18 08:27	
EPA 6010D	**Iron**	16500	mg/kg dry wt. dry	13.3	8.8		X845068	DT	11/19/18 08:27	M3
EPA 6010D	**Lead**	68.4	mg/kg dry wt. dry	1.0	0.4		X845068	DT	11/19/18 08:27	
EPA 6010D	**Magnesium**	3020	mg/kg dry wt. dry	26.6	15.9		X845068	DT	11/19/18 08:27	
EPA 6010D	**Manganese**	455	mg/kg dry wt. dry	1.06	0.37		X845068	DT	11/19/18 08:27	M3
EPA 6010D	**Nickel**	8.69	mg/kg dry wt. dry	1.33	0.32		X845068	DT	11/19/18 08:27	
EPA 6010D	Selenium	< 5.3	mg/kg dry wt. dry	5.3	1.5		X845068	DT	11/19/18 08:27	
EPA 6010D	Silver	< 0.66	mg/kg dry wt. dry	0.66	0.27		X845068	DT	11/19/18 08:27	
EPA 6010D	**Vanadium**	9.61	mg/kg dry wt. dry	0.66	0.21		X845068	DT	11/19/18 08:27	
EPA 6010D	**Zinc**	343	mg/kg dry wt. dry	1.3	0.5		X845068	DT	11/19/18 08:27	
EPA 7471B	Mercury	< 0.044	mg/kg dry wt. dry	0.044	0.015		X845251	MWD	11/16/18 12:02	
Percent Solids / Percent Moisture										
Percent Solids	**% Solids**	75.3	%	0.1			X845076	JAA	11/07/18 08:45	

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

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Project Name: North Fork 2018
Work Order: **X8K0029**
Reported: 20-Nov-18 13:38

Client Sample ID: **NF-SD10**
SVL Sample ID: **X8K0029-10 (Sediment)**

Sampled: 29-Oct-18 12:35
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 6020B	**Antimony**	1.46	mg/kg dry wt. dry	0.300	0.076	2	X845075	KWH	11/16/18 07:34	D1
EPA 6020B	**Arsenic**	11.5	mg/kg dry wt. dry	0.391	0.172	2	X845073	KWH	11/15/18 12:56	D1
EPA 6020B	Thallium	< 0.100	mg/kg dry wt. dry	0.100	0.0138	2	X845073	KWH	11/15/18 12:56	D1
Metals (Total) by EPA 6000/7000 Methods										
EPA 6010D	**Aluminum**	9210	mg/kg dry wt. dry	10.4	6.5		X845068	DT	11/19/18 08:31	
EPA 6010D	**Barium**	119	mg/kg dry wt. dry	0.26	0.23		X845068	DT	11/19/18 08:31	
EPA 6010D	**Beryllium**	0.43	mg/kg dry wt. dry	0.26	0.11		X845068	DT	11/19/18 08:31	
EPA 6010D	**Cadmium**	0.73	mg/kg dry wt. dry	0.26	0.07		X845068	DT	11/19/18 08:31	
EPA 6010D	**Calcium**	4430	mg/kg dry wt. dry	13.0	6.4		X845068	DT	11/19/18 08:31	
EPA 6010D	**Chromium**	18.7	mg/kg dry wt. dry	0.78	0.26		X845068	DT	11/19/18 08:31	
EPA 6010D	**Cobalt**	13.5	mg/kg dry wt. dry	0.78	0.10		X845068	DT	11/19/18 08:31	
EPA 6010D	**Copper**	46.0	mg/kg dry wt. dry	1.30	0.21		X845068	DT	11/19/18 08:31	
EPA 6010D	**Iron**	24000	mg/kg dry wt. dry	13.0	8.6		X845068	DT	11/19/18 08:31	
EPA 6010D	**Lead**	154	mg/kg dry wt. dry	1.0	0.4		X845068	DT	11/19/18 08:31	
EPA 6010D	**Magnesium**	3570	mg/kg dry wt. dry	26.1	15.7		X845068	DT	11/19/18 08:31	
EPA 6010D	**Manganese**	778	mg/kg dry wt. dry	1.04	0.37		X845068	DT	11/19/18 08:31	
EPA 6010D	**Nickel**	9.87	mg/kg dry wt. dry	1.30	0.31		X845068	DT	11/19/18 08:31	
EPA 6010D	Selenium	< 5.2	mg/kg dry wt. dry	5.2	1.4		X845068	DT	11/19/18 08:31	
EPA 6010D	Silver	< 0.65	mg/kg dry wt. dry	0.65	0.26		X845068	DT	11/19/18 08:31	
EPA 6010D	**Vanadium**	12.6	mg/kg dry wt. dry	0.65	0.21		X845068	DT	11/19/18 08:31	
EPA 6010D	**Zinc**	382	mg/kg dry wt. dry	1.3	0.4		X845068	DT	11/19/18 08:31	
EPA 7471B	**Mercury**	0.057	mg/kg dry wt. dry	0.043	0.014		X845251	MWD	11/16/18 12:04	
Percent Solids / Percent Moisture										
Percent Solids	**% Solids**	76.7	%	0.1			X845076	JAA	11/07/18 08:45	

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

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Project Name: North Fork 2018
Work Order: **X8K0029**
Reported: 20-Nov-18 13:38

Client Sample ID: **NF-SD11**
SVL Sample ID: **X8K0029-11 (Sediment)**

Sampled: 29-Oct-18 13:55
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 6020B	**Antimony**	0.722	mg/kg dry wt. dry	0.300	0.071	2	X845075	KWH	11/16/18 07:36	D1
EPA 6020B	**Arsenic**	6.36	mg/kg dry wt. dry	0.367	0.161	2	X845073	KWH	11/15/18 12:58	D1
EPA 6020B	Thallium	< 0.100	mg/kg dry wt. dry	0.100	0.0130	2	X845073	KWH	11/15/18 12:58	D1
Metals (Total) by EPA 6000/7000 Methods										
EPA 6010D	**Aluminum**	11800	mg/kg dry wt. dry	9.8	6.1		X845068	DT	11/19/18 08:35	
EPA 6010D	**Barium**	79.7	mg/kg dry wt. dry	0.24	0.22		X845068	DT	11/19/18 08:35	
EPA 6010D	**Beryllium**	0.62	mg/kg dry wt. dry	0.24	0.10		X845068	DT	11/19/18 08:35	
EPA 6010D	Cadmium	< 0.24	mg/kg dry wt. dry	0.24	0.07		X845068	DT	11/19/18 08:35	
EPA 6010D	**Calcium**	891	mg/kg dry wt. dry	12.2	6.0		X845068	DT	11/19/18 08:35	
EPA 6010D	**Chromium**	12.2	mg/kg dry wt. dry	0.73	0.24		X845068	DT	11/19/18 08:35	
EPA 6010D	**Cobalt**	10.9	mg/kg dry wt. dry	0.73	0.09		X845068	DT	11/19/18 08:35	
EPA 6010D	**Copper**	6.46	mg/kg dry wt. dry	1.22	0.20		X845068	DT	11/19/18 08:35	
EPA 6010D	**Iron**	23400	mg/kg dry wt. dry	12.2	8.1		X845068	DT	11/19/18 08:35	
EPA 6010D	**Lead**	5.1	mg/kg dry wt. dry	0.9	0.4		X845068	DT	11/19/18 08:35	
EPA 6010D	**Magnesium**	9910	mg/kg dry wt. dry	24.5	14.7		X845068	DT	11/19/18 08:35	
EPA 6010D	**Manganese**	402	mg/kg dry wt. dry	0.98	0.34		X845068	DT	11/19/18 08:35	
EPA 6010D	**Nickel**	15.8	mg/kg dry wt. dry	1.22	0.29		X845068	DT	11/19/18 08:35	
EPA 6010D	Selenium	< 4.9	mg/kg dry wt. dry	4.9	1.3		X845068	DT	11/19/18 08:35	
EPA 6010D	Silver	< 0.61	mg/kg dry wt. dry	0.61	0.24		X845068	DT	11/19/18 08:35	
EPA 6010D	**Vanadium**	9.20	mg/kg dry wt. dry	0.61	0.20		X845068	DT	11/19/18 08:35	
EPA 6010D	**Zinc**	35.8	mg/kg dry wt. dry	1.2	0.4		X845068	DT	11/19/18 08:35	
EPA 7471B	Mercury	< 0.040	mg/kg dry wt. dry	0.040	0.013		X845251	MWD	11/16/18 12:06	
Percent Solids / Percent Moisture										
Percent Solids	**% Solids**	81.8	%	0.1			X845076	JAA	11/07/18 08:45	

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

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Project Name: North Fork 2018
Work Order: **X8K0029**
Reported: 20-Nov-18 13:38

Client Sample ID: **NF-SD12**
SVL Sample ID: **X8K0029-12 (Sediment)**

Sampled: 30-Oct-18 10:45
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 6020B	**Antimony**	1.14	mg/kg dry wt. dry	0.300	0.067	2	X845075	KWH	11/16/18 07:38	D1
EPA 6020B	**Arsenic**	14.2	mg/kg dry wt. dry	0.347	0.152	2	X845073	KWH	11/15/18 13:00	D1
EPA 6020B	Thallium	< 0.100	mg/kg dry wt. dry	0.100	0.0122	2	X845073	KWH	11/15/18 13:00	D1
Metals (Total) by EPA 6000/7000 Methods										
EPA 6010D	**Aluminum**	5470	mg/kg dry wt. dry	9.2	5.8		X845068	DT	11/19/18 08:38	
EPA 6010D	**Barium**	53.9	mg/kg dry wt. dry	0.23	0.21		X845068	DT	11/19/18 08:38	
EPA 6010D	**Beryllium**	0.52	mg/kg dry wt. dry	0.23	0.10		X845068	DT	11/19/18 08:38	
EPA 6010D	Cadmium	< 0.23	mg/kg dry wt. dry	0.23	0.07		X845068	DT	11/19/18 08:38	
EPA 6010D	**Calcium**	943	mg/kg dry wt. dry	11.6	5.7		X845068	DT	11/19/18 08:38	
EPA 6010D	**Chromium**	5.28	mg/kg dry wt. dry	0.69	0.23		X845068	DT	11/19/18 08:38	
EPA 6010D	**Cobalt**	6.37	mg/kg dry wt. dry	0.69	0.08		X845068	DT	11/19/18 08:38	
EPA 6010D	**Copper**	22.9	mg/kg dry wt. dry	1.16	0.18		X845068	DT	11/19/18 08:38	
EPA 6010D	**Iron**	33400	mg/kg dry wt. dry	11.6	7.6		X845068	DT	11/19/18 08:38	
EPA 6010D	**Lead**	28.0	mg/kg dry wt. dry	0.9	0.4		X845068	DT	11/19/18 08:38	
EPA 6010D	**Magnesium**	1670	mg/kg dry wt. dry	23.1	13.9		X845068	DT	11/19/18 08:38	
EPA 6010D	**Manganese**	364	mg/kg dry wt. dry	0.92	0.32		X845068	DT	11/19/18 08:38	
EPA 6010D	**Nickel**	12.0	mg/kg dry wt. dry	1.16	0.28		X845068	DT	11/19/18 08:38	
EPA 6010D	Selenium	< 4.6	mg/kg dry wt. dry	4.6	1.3		X845068	DT	11/19/18 08:38	
EPA 6010D	Silver	< 0.58	mg/kg dry wt. dry	0.58	0.23		X845068	DT	11/19/18 08:38	
EPA 6010D	**Vanadium**	7.51	mg/kg dry wt. dry	0.58	0.18		X845068	DT	11/19/18 08:38	
EPA 6010D	**Zinc**	101	mg/kg dry wt. dry	1.2	0.4		X845068	DT	11/19/18 08:38	
EPA 7471B	Mercury	< 0.038	mg/kg dry wt. dry	0.038	0.013		X845251	MWD	11/16/18 12:08	
Percent Solids / Percent Moisture										
Percent Solids	**% Solids**	86.6	%	0.1			X845076	JAA	11/07/18 08:45	

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

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Project Name: North Fork 2018
Work Order: **X8K0029**
Reported: 20-Nov-18 13:38

Client Sample ID: **NF-SD13**
SVL Sample ID: **X8K0029-13 (Sediment)**

Sampled: 30-Oct-18 11:25
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 6020B	**Antimony**	1.15	mg/kg dry wt. dry	0.300	0.066	2	X845075	KWH	11/16/18 07:04	D1
EPA 6020B	**Arsenic**	14.5	mg/kg dry wt. dry	0.343	0.151	2	X845073	KWH	11/15/18 12:26	D1,M4
EPA 6020B	Thallium	< 0.100	mg/kg dry wt. dry	0.100	0.0121	2	X845073	KWH	11/15/18 12:26	D1
Metals (Total) by EPA 6000/7000 Methods										
EPA 6010D	**Aluminum**	5120	mg/kg dry wt. dry	9.2	5.7		X845068	DT	11/19/18 08:42	
EPA 6010D	**Barium**	51.6	mg/kg dry wt. dry	0.23	0.21		X845068	DT	11/19/18 08:42	
EPA 6010D	**Beryllium**	0.32	mg/kg dry wt. dry	0.23	0.09		X845068	DT	11/19/18 08:42	
EPA 6010D	**Cadmium**	0.71	mg/kg dry wt. dry	0.23	0.07		X845068	DT	11/19/18 08:42	
EPA 6010D	**Calcium**	729	mg/kg dry wt. dry	11.4	5.6		X845068	DT	11/19/18 08:42	
EPA 6010D	**Chromium**	5.04	mg/kg dry wt. dry	0.69	0.23		X845068	DT	11/19/18 08:42	
EPA 6010D	**Cobalt**	6.07	mg/kg dry wt. dry	0.69	0.08		X845068	DT	11/19/18 08:42	
EPA 6010D	**Copper**	14.1	mg/kg dry wt. dry	1.14	0.18		X845068	DT	11/19/18 08:42	
EPA 6010D	**Iron**	15800	mg/kg dry wt. dry	11.4	7.5		X845068	DT	11/19/18 08:42	
EPA 6010D	**Lead**	82.9	mg/kg dry wt. dry	0.9	0.4		X845068	DT	11/19/18 08:42	
EPA 6010D	**Magnesium**	1650	mg/kg dry wt. dry	22.9	13.7		X845068	DT	11/19/18 08:42	
EPA 6010D	**Manganese**	361	mg/kg dry wt. dry	0.92	0.32		X845068	DT	11/19/18 08:42	
EPA 6010D	**Nickel**	7.70	mg/kg dry wt. dry	1.14	0.27		X845068	DT	11/19/18 08:42	
EPA 6010D	Selenium	< 4.6	mg/kg dry wt. dry	4.6	1.3		X845068	DT	11/19/18 08:42	
EPA 6010D	Silver	< 0.57	mg/kg dry wt. dry	0.57	0.23		X845068	DT	11/19/18 08:42	
EPA 6010D	**Vanadium**	7.27	mg/kg dry wt. dry	0.57	0.18		X845068	DT	11/19/18 08:42	
EPA 6010D	**Zinc**	184	mg/kg dry wt. dry	1.1	0.4		X845068	DT	11/19/18 08:42	
EPA 7471B	Mercury	< 0.038	mg/kg dry wt. dry	0.038	0.013		X845251	MWD	11/16/18 12:10	
Percent Solids / Percent Moisture										
Percent Solids	**% Solids**	87.4	%	0.1			X845076	JAA	11/07/18 08:45	

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Project Name: North Fork 2018
Work Order: **X8K0029**
Reported: 20-Nov-18 13:38

Client Sample ID: **NF-SD14**
SVL Sample ID: **X8K0029-14 (Sediment)**

Sampled: 30-Oct-18 11:45
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 6020B	**Antimony**	1.91	mg/kg dry wt. dry	0.300	0.063	2	X845075	KWH	11/16/18 07:40	D1
EPA 6020B	**Arsenic**	11.0	mg/kg dry wt. dry	0.327	0.144	2	X845073	KWH	11/15/18 13:02	D1
EPA 6020B	Thallium	< 0.100	mg/kg dry wt. dry	0.100	0.0115	2	X845073	KWH	11/15/18 13:02	D1
Metals (Total) by EPA 6000/7000 Methods										
EPA 6010D	**Aluminum**	4840	mg/kg dry wt. dry	8.7	5.4		X845068	DT	11/19/18 08:52	
EPA 6010D	**Barium**	47.0	mg/kg dry wt. dry	0.22	0.20		X845068	DT	11/19/18 08:52	
EPA 6010D	**Beryllium**	0.35	mg/kg dry wt. dry	0.22	0.09		X845068	DT	11/19/18 08:52	
EPA 6010D	**Cadmium**	0.62	mg/kg dry wt. dry	0.22	0.06		X845068	DT	11/19/18 08:52	
EPA 6010D	**Calcium**	522	mg/kg dry wt. dry	10.9	5.3		X845068	DT	11/19/18 08:52	
EPA 6010D	**Chromium**	5.02	mg/kg dry wt. dry	0.65	0.22		X845068	DT	11/19/18 08:52	
EPA 6010D	**Cobalt**	6.03	mg/kg dry wt. dry	0.65	0.08		X845068	DT	11/19/18 08:52	
EPA 6010D	**Copper**	13.6	mg/kg dry wt. dry	1.09	0.17		X845068	DT	11/19/18 08:52	
EPA 6010D	**Iron**	19500	mg/kg dry wt. dry	10.9	7.2		X845068	DT	11/19/18 08:52	
EPA 6010D	**Lead**	70.1	mg/kg dry wt. dry	0.8	0.4		X845068	DT	11/19/18 08:52	
EPA 6010D	**Magnesium**	1600	mg/kg dry wt. dry	21.8	13.1		X845068	DT	11/19/18 08:52	
EPA 6010D	**Manganese**	372	mg/kg dry wt. dry	0.87	0.30		X845068	DT	11/19/18 08:52	
EPA 6010D	**Nickel**	7.76	mg/kg dry wt. dry	1.09	0.26		X845068	DT	11/19/18 08:52	
EPA 6010D	Selenium	< 4.4	mg/kg dry wt. dry	4.4	1.2		X845068	DT	11/19/18 08:52	
EPA 6010D	Silver	< 0.54	mg/kg dry wt. dry	0.54	0.22		X845068	DT	11/19/18 08:52	
EPA 6010D	**Vanadium**	7.78	mg/kg dry wt. dry	0.54	0.17		X845068	DT	11/19/18 08:52	
EPA 6010D	**Zinc**	190	mg/kg dry wt. dry	1.1	0.4		X845068	DT	11/19/18 08:52	
EPA 7471B	Mercury	< 0.036	mg/kg dry wt. dry	0.036	0.012		X845251	MWD	11/16/18 12:17	
Percent Solids / Percent Moisture										
Percent Solids	**% Solids**	91.8	%	0.1			X845076	JAA	11/07/18 08:45	

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Project Name: North Fork 2018
Work Order: **X8K0029**
Reported: 20-Nov-18 13:38

Client Sample ID: **NF-SD15**
SVL Sample ID: **X8K0029-15 (Sediment)**

Sampled: 30-Oct-18 12:15
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 6020B	**Antimony**	0.895	mg/kg dry wt. dry	0.300	0.080	2	X845075	KWH	11/16/18 07:42	D1
EPA 6020B	**Arsenic**	13.4	mg/kg dry wt. dry	0.414	0.182	2	X845073	KWH	11/15/18 13:04	D1
EPA 6020B	Thallium	< 0.100	mg/kg dry wt. dry	0.100	0.0146	2	X845073	KWH	11/15/18 13:04	D1
Metals (Total) by EPA 6000/7000 Methods										
EPA 6010D	**Aluminum**	7390	mg/kg dry wt. dry	11.1	6.9		X845068	DT	11/19/18 08:56	
EPA 6010D	**Barium**	57.0	mg/kg dry wt. dry	0.28	0.25		X845068	DT	11/19/18 08:56	
EPA 6010D	**Beryllium**	0.38	mg/kg dry wt. dry	0.28	0.11		X845068	DT	11/19/18 08:56	
EPA 6010D	**Cadmium**	0.59	mg/kg dry wt. dry	0.28	0.08		X845068	DT	11/19/18 08:56	
EPA 6010D	**Calcium**	988	mg/kg dry wt. dry	13.8	6.8		X845068	DT	11/19/18 08:56	
EPA 6010D	**Chromium**	8.32	mg/kg dry wt. dry	0.83	0.28		X845068	DT	11/19/18 08:56	
EPA 6010D	**Cobalt**	6.45	mg/kg dry wt. dry	0.83	0.10		X845068	DT	11/19/18 08:56	
EPA 6010D	**Copper**	26.3	mg/kg dry wt. dry	1.38	0.22		X845068	DT	11/19/18 08:56	
EPA 6010D	**Iron**	18100	mg/kg dry wt. dry	13.8	9.1		X845068	DT	11/19/18 08:56	
EPA 6010D	**Lead**	130	mg/kg dry wt. dry	1.0	0.5		X845068	DT	11/19/18 08:56	
EPA 6010D	**Magnesium**	3300	mg/kg dry wt. dry	27.6	16.6		X845068	DT	11/19/18 08:56	
EPA 6010D	**Manganese**	161	mg/kg dry wt. dry	1.11	0.39		X845068	DT	11/19/18 08:56	
EPA 6010D	**Nickel**	9.24	mg/kg dry wt. dry	1.38	0.33		X845068	DT	11/19/18 08:56	
EPA 6010D	Selenium	< 5.5	mg/kg dry wt. dry	5.5	1.5		X845068	DT	11/19/18 08:56	
EPA 6010D	Silver	< 0.69	mg/kg dry wt. dry	0.69	0.28		X845068	DT	11/19/18 08:56	
EPA 6010D	**Vanadium**	9.43	mg/kg dry wt. dry	0.69	0.22		X845068	DT	11/19/18 08:56	
EPA 6010D	**Zinc**	182	mg/kg dry wt. dry	1.4	0.5		X845068	DT	11/19/18 08:56	
EPA 7471B	Mercury	< 0.046	mg/kg dry wt. dry	0.046	0.015		X845251	MWD	11/16/18 12:19	
Percent Solids / Percent Moisture										
Percent Solids	**% Solids**	72.4	%	0.1			X845076	JAA	11/07/18 08:45	

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Project Name: North Fork 2018
Work Order: **X8K0029**
Reported: 20-Nov-18 13:38

Client Sample ID: **NF-SD16**
SVL Sample ID: **X8K0029-16 (Sediment)**

Sampled: 30-Oct-18 12:40
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 6020B	**Antimony**	0.862	mg/kg dry wt. dry	0.300	0.058	2	X845075	KWH	11/16/18 07:44	D1
EPA 6020B	**Arsenic**	7.81	mg/kg dry wt. dry	0.300	0.132	2	X845073	KWH	11/15/18 13:06	D1
EPA 6020B	Thallium	< 0.100	mg/kg dry wt. dry	0.100	0.0106	2	X845073	KWH	11/15/18 13:06	D1
Metals (Total) by EPA 6000/7000 Methods										
EPA 6010D	**Aluminum**	6530	mg/kg dry wt. dry	8.0	5.0		X845068	DT	11/19/18 08:59	
EPA 6010D	**Barium**	62.7	mg/kg dry wt. dry	0.20	0.18		X845068	DT	11/19/18 08:59	
EPA 6010D	**Beryllium**	0.39	mg/kg dry wt. dry	0.20	0.08		X845068	DT	11/19/18 08:59	
EPA 6010D	**Cadmium**	0.38	mg/kg dry wt. dry	0.20	0.06		X845068	DT	11/19/18 08:59	
EPA 6010D	**Calcium**	599	mg/kg dry wt. dry	10.0	4.9		X845068	DT	11/19/18 08:59	
EPA 6010D	**Chromium**	6.69	mg/kg dry wt. dry	0.60	0.20		X845068	DT	11/19/18 08:59	
EPA 6010D	**Cobalt**	6.93	mg/kg dry wt. dry	0.60	0.07		X845068	DT	11/19/18 08:59	
EPA 6010D	**Copper**	36.1	mg/kg dry wt. dry	1.00	0.16		X845068	DT	11/19/18 08:59	
EPA 6010D	**Iron**	28600	mg/kg dry wt. dry	10.0	6.6		X845068	DT	11/19/18 08:59	
EPA 6010D	**Lead**	88.1	mg/kg dry wt. dry	0.8	0.3		X845068	DT	11/19/18 08:59	
EPA 6010D	**Magnesium**	3410	mg/kg dry wt. dry	20.0	12.0		X845068	DT	11/19/18 08:59	
EPA 6010D	**Manganese**	268	mg/kg dry wt. dry	0.80	0.28		X845068	DT	11/19/18 08:59	
EPA 6010D	**Nickel**	13.6	mg/kg dry wt. dry	1.00	0.24		X845068	DT	11/19/18 08:59	
EPA 6010D	Selenium	< 4.0	mg/kg dry wt. dry	4.0	1.1		X845068	DT	11/19/18 08:59	
EPA 6010D	Silver	< 0.50	mg/kg dry wt. dry	0.50	0.20		X845068	DT	11/19/18 08:59	
EPA 6010D	**Vanadium**	15.9	mg/kg dry wt. dry	0.50	0.16		X845068	DT	11/19/18 08:59	
EPA 6010D	**Zinc**	129	mg/kg dry wt. dry	1.0	0.3		X845068	DT	11/19/18 08:59	
EPA 7471B	Mercury	< 0.033	mg/kg dry wt. dry	0.033	0.011		X845251	MWD	11/16/18 12:21	
Percent Solids / Percent Moisture										
Percent Solids	**% Solids**	100	%	0.1			X845076	JAA	11/07/18 08:45	

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

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Project Name: North Fork 2018
Work Order: **X8K0029**
Reported: 20-Nov-18 13:38

Client Sample ID: **NF-SD17**
SVL Sample ID: **X8K0029-17 (Sediment)**

Sampled: 30-Oct-18 12:40
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 6020B	**Antimony**	0.870	mg/kg dry wt. dry	0.300	0.068	2	X845075	KWH	11/16/18 07:51	D1
EPA 6020B	**Arsenic**	10.7	mg/kg dry wt. dry	0.354	0.156	2	X845073	KWH	11/15/18 13:13	D1
EPA 6020B	Thallium	< 0.100	mg/kg dry wt. dry	0.100	0.0125	2	X845073	KWH	11/15/18 13:13	D1
Metals (Total) by EPA 6000/7000 Methods										
EPA 6010D	**Aluminum**	4650	mg/kg dry wt. dry	9.4	5.9		X845068	DT	11/19/18 09:10	
EPA 6010D	**Barium**	38.2	mg/kg dry wt. dry	0.24	0.21		X845068	DT	11/19/18 09:10	
EPA 6010D	Beryllium	< 0.24	mg/kg dry wt. dry	0.24	0.10		X845068	DT	11/19/18 09:10	
EPA 6010D	**Cadmium**	0.31	mg/kg dry wt. dry	0.24	0.07		X845068	DT	11/19/18 09:10	
EPA 6010D	**Calcium**	541	mg/kg dry wt. dry	11.8	5.8		X845068	DT	11/19/18 09:10	
EPA 6010D	**Chromium**	5.35	mg/kg dry wt. dry	0.71	0.24		X845068	DT	11/19/18 09:10	
EPA 6010D	**Cobalt**	4.03	mg/kg dry wt. dry	0.71	0.09		X845068	DT	11/19/18 09:10	
EPA 6010D	**Copper**	10.8	mg/kg dry wt. dry	1.18	0.19		X845068	DT	11/19/18 09:10	
EPA 6010D	**Iron**	14200	mg/kg dry wt. dry	11.8	7.8		X845068	DT	11/19/18 09:10	
EPA 6010D	**Lead**	58.6	mg/kg dry wt. dry	0.9	0.4		X845068	DT	11/19/18 09:10	
EPA 6010D	**Magnesium**	2610	mg/kg dry wt. dry	23.6	14.1		X845068	DT	11/19/18 09:10	
EPA 6010D	**Manganese**	219	mg/kg dry wt. dry	0.94	0.33		X845068	DT	11/19/18 09:10	
EPA 6010D	**Nickel**	6.93	mg/kg dry wt. dry	1.18	0.28		X845068	DT	11/19/18 09:10	
EPA 6010D	Selenium	< 4.7	mg/kg dry wt. dry	4.7	1.3		X845068	DT	11/19/18 09:10	
EPA 6010D	Silver	< 0.59	mg/kg dry wt. dry	0.59	0.24		X845068	DT	11/19/18 09:10	
EPA 6010D	**Vanadium**	5.59	mg/kg dry wt. dry	0.59	0.19		X845068	DT	11/19/18 09:10	
EPA 6010D	**Zinc**	92.7	mg/kg dry wt. dry	1.2	0.4		X845068	DT	11/19/18 09:10	
EPA 7471B	**Mercury**	0.112	mg/kg dry wt. dry	0.039	0.013		X845251	MWD	11/16/18 12:27	
Percent Solids / Percent Moisture										
Percent Solids	**% Solids**	84.9	%	0.1			X845076	JAA	11/07/18 08:45	

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

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Project Name: North Fork 2018
Work Order: **X8K0029**
Reported: 20-Nov-18 13:38

Client Sample ID: **NF-SD18**
SVL Sample ID: **X8K0029-18 (Sediment)**

Sampled: 30-Oct-18 13:00
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 6020B	**Antimony**	0.713	mg/kg dry wt. dry	0.300	0.071	2	X845075	KWH	11/16/18 07:53	D1
EPA 6020B	**Arsenic**	7.47	mg/kg dry wt. dry	0.365	0.161	2	X845073	KWH	11/15/18 13:15	D1
EPA 6020B	Thallium	< 0.100	mg/kg dry wt. dry	0.100	0.0129	2	X845073	KWH	11/15/18 13:15	D1
Metals (Total) by EPA 6000/7000 Methods										
EPA 6010D	**Aluminum**	9840	mg/kg dry wt. dry	9.7	6.1		X845068	DT	11/19/18 09:14	
EPA 6010D	**Barium**	90.9	mg/kg dry wt. dry	0.24	0.22		X845068	DT	11/19/18 09:14	
EPA 6010D	**Beryllium**	0.50	mg/kg dry wt. dry	0.24	0.10		X845068	DT	11/19/18 09:14	
EPA 6010D	Cadmium	< 0.24	mg/kg dry wt. dry	0.24	0.07		X845068	DT	11/19/18 09:14	
EPA 6010D	**Calcium**	1030	mg/kg dry wt. dry	12.2	6.0		X845068	DT	11/19/18 09:14	
EPA 6010D	**Chromium**	9.25	mg/kg dry wt. dry	0.73	0.24		X845068	DT	11/19/18 09:14	
EPA 6010D	**Cobalt**	6.17	mg/kg dry wt. dry	0.73	0.09		X845068	DT	11/19/18 09:14	
EPA 6010D	**Copper**	15.7	mg/kg dry wt. dry	1.22	0.19		X845068	DT	11/19/18 09:14	
EPA 6010D	**Iron**	17000	mg/kg dry wt. dry	12.2	8.0		X845068	DT	11/19/18 09:14	
EPA 6010D	**Lead**	44.8	mg/kg dry wt. dry	0.9	0.4		X845068	DT	11/19/18 09:14	
EPA 6010D	**Magnesium**	3880	mg/kg dry wt. dry	24.4	14.6		X845068	DT	11/19/18 09:14	
EPA 6010D	**Manganese**	338	mg/kg dry wt. dry	0.97	0.34		X845068	DT	11/19/18 09:14	
EPA 6010D	**Nickel**	9.88	mg/kg dry wt. dry	1.22	0.29		X845068	DT	11/19/18 09:14	
EPA 6010D	Selenium	< 4.9	mg/kg dry wt. dry	4.9	1.3		X845068	DT	11/19/18 09:14	
EPA 6010D	Silver	< 0.61	mg/kg dry wt. dry	0.61	0.24		X845068	DT	11/19/18 09:14	
EPA 6010D	**Vanadium**	11.1	mg/kg dry wt. dry	0.61	0.19		X845068	DT	11/19/18 09:14	
EPA 6010D	**Zinc**	68.6	mg/kg dry wt. dry	1.2	0.4		X845068	DT	11/19/18 09:14	
EPA 7471B	Mercury	< 0.040	mg/kg dry wt. dry	0.040	0.013		X845251	MWD	11/16/18 12:30	
Percent Solids / Percent Moisture										
Percent Solids	**% Solids**	82.1	%	0.1			X845076	JAA	11/07/18 08:45	

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

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Alta Science and Engineering - Kellogg
108 W. Idaho Street
Kellogg, ID 83837

Project Name: North Fork 2018
Work Order: **X8K0029**
Reported: 20-Nov-18 13:38

Client Sample ID: **NF-SD19**
SVL Sample ID: **X8K0029-19 (Sediment)**

Sampled: 30-Oct-18 13:05
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 6020B	**Antimony**	0.391	mg/kg dry wt. dry	0.300	0.069	2	X845075	KWH	11/16/18 07:55	D1
EPA 6020B	**Arsenic**	4.38	mg/kg dry wt. dry	0.357	0.157	2	X845073	KWH	11/15/18 13:17	D1
EPA 6020B	Thallium	< 0.100	mg/kg dry wt. dry	0.100	0.0126	2	X845073	KWH	11/15/18 13:17	D1
Metals (Total) by EPA 6000/7000 Methods										
EPA 6010D	**Aluminum**	3240	mg/kg dry wt. dry	9.5	6.0		X845068	DT	11/19/18 09:18	
EPA 6010D	**Barium**	40.3	mg/kg dry wt. dry	0.24	0.21		X845068	DT	11/19/18 09:18	
EPA 6010D	Beryllium	< 0.24	mg/kg dry wt. dry	0.24	0.10		X845068	DT	11/19/18 09:18	
EPA 6010D	Cadmium	< 0.24	mg/kg dry wt. dry	0.24	0.07		X845068	DT	11/19/18 09:18	
EPA 6010D	**Calcium**	577	mg/kg dry wt. dry	11.9	5.8		X845068	DT	11/19/18 09:18	
EPA 6010D	**Chromium**	3.58	mg/kg dry wt. dry	0.71	0.24		X845068	DT	11/19/18 09:18	
EPA 6010D	**Cobalt**	3.66	mg/kg dry wt. dry	0.71	0.09		X845068	DT	11/19/18 09:18	
EPA 6010D	**Copper**	6.26	mg/kg dry wt. dry	1.19	0.19		X845068	DT	11/19/18 09:18	
EPA 6010D	**Iron**	10200	mg/kg dry wt. dry	11.9	7.9		X845068	DT	11/19/18 09:18	
EPA 6010D	**Lead**	34.1	mg/kg dry wt. dry	0.9	0.4		X845068	DT	11/19/18 09:18	
EPA 6010D	**Magnesium**	1060	mg/kg dry wt. dry	23.8	14.3		X845068	DT	11/19/18 09:18	
EPA 6010D	**Manganese**	295	mg/kg dry wt. dry	0.95	0.33		X845068	DT	11/19/18 09:18	
EPA 6010D	**Nickel**	3.75	mg/kg dry wt. dry	1.19	0.29		X845068	DT	11/19/18 09:18	
EPA 6010D	Selenium	< 4.8	mg/kg dry wt. dry	4.8	1.3		X845068	DT	11/19/18 09:18	
EPA 6010D	Silver	< 0.60	mg/kg dry wt. dry	0.60	0.24		X845068	DT	11/19/18 09:18	
EPA 6010D	**Vanadium**	5.21	mg/kg dry wt. dry	0.60	0.19		X845068	DT	11/19/18 09:18	
EPA 6010D	**Zinc**	50.1	mg/kg dry wt. dry	1.2	0.4		X845068	DT	11/19/18 09:18	
EPA 7471B	Mercury	< 0.039	mg/kg dry wt. dry	0.039	0.013		X845251	MWD	11/16/18 12:32	
Percent Solids / Percent Moisture										
Percent Solids	**% Solids**	84.0	%	0.1			X845076	JAA	11/07/18 08:45	

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Alta Science and Engineering - Kellogg
108 W. Idaho Street
Kellogg, ID 83837

Project Name: North Fork 2018
Work Order: **X8K0029**
Reported: 20-Nov-18 13:38

Client Sample ID: **NF-SD20**
SVL Sample ID: **X8K0029-20 (Sediment)**

Sampled: 30-Oct-18 13:25
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 6020B	**Antimony**	1.04	mg/kg dry wt. dry	0.300	0.062	2	X845075	KWH	11/16/18 07:57	D1
EPA 6020B	**Arsenic**	12.6	mg/kg dry wt. dry	0.322	0.142	2	X845073	KWH	11/15/18 13:19	D1
EPA 6020B	Thallium	< 0.100	mg/kg dry wt. dry	0.100	0.0114	2	X845073	KWH	11/15/18 13:19	D1
Metals (Total) by EPA 6000/7000 Methods										
EPA 6010D	**Aluminum**	7160	mg/kg dry wt. dry	8.6	5.4		X845068	DT	11/19/18 09:21	
EPA 6010D	**Barium**	51.8	mg/kg dry wt. dry	0.21	0.19		X845068	DT	11/19/18 09:21	
EPA 6010D	**Beryllium**	0.37	mg/kg dry wt. dry	0.21	0.09		X845068	DT	11/19/18 09:21	
EPA 6010D	**Cadmium**	0.33	mg/kg dry wt. dry	0.21	0.06		X845068	DT	11/19/18 09:21	
EPA 6010D	**Calcium**	483	mg/kg dry wt. dry	10.7	5.3		X845068	DT	11/19/18 09:21	
EPA 6010D	**Chromium**	8.76	mg/kg dry wt. dry	0.64	0.21		X845068	DT	11/19/18 09:21	
EPA 6010D	**Cobalt**	6.12	mg/kg dry wt. dry	0.64	0.08		X845068	DT	11/19/18 09:21	
EPA 6010D	**Copper**	18.7	mg/kg dry wt. dry	1.07	0.17		X845068	DT	11/19/18 09:21	
EPA 6010D	**Iron**	23400	mg/kg dry wt. dry	10.7	7.1		X845068	DT	11/19/18 09:21	
EPA 6010D	**Lead**	136	mg/kg dry wt. dry	0.8	0.4		X845068	DT	11/19/18 09:21	
EPA 6010D	**Magnesium**	4040	mg/kg dry wt. dry	21.5	12.9		X845068	DT	11/19/18 09:21	
EPA 6010D	**Manganese**	347	mg/kg dry wt. dry	0.86	0.30		X845068	DT	11/19/18 09:21	
EPA 6010D	**Nickel**	11.1	mg/kg dry wt. dry	1.07	0.26		X845068	DT	11/19/18 09:21	
EPA 6010D	Selenium	< 4.3	mg/kg dry wt. dry	4.3	1.2		X845068	DT	11/19/18 09:21	
EPA 6010D	Silver	< 0.54	mg/kg dry wt. dry	0.54	0.21		X845068	DT	11/19/18 09:21	
EPA 6010D	**Vanadium**	8.86	mg/kg dry wt. dry	0.54	0.17		X845068	DT	11/19/18 09:21	
EPA 6010D	**Zinc**	146	mg/kg dry wt. dry	1.1	0.4		X845068	DT	11/19/18 09:21	
EPA 7471B	Mercury	< 0.035	mg/kg dry wt. dry	0.035	0.012		X845251	MWD	11/16/18 12:34	
Percent Solids / Percent Moisture										
Percent Solids	**% Solids**	93.1	%	0.1			X845076	JAA	11/07/18 08:45	

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Alta Science and Engineering - Kellogg
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Kellogg, ID 83837

Project Name: North Fork 2018
Work Order: **X8K0029**
Reported: 20-Nov-18 13:38

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Metals (Total)								
EPA 6020B	Antimony	mg/kg	<0.300	0.058	0.300	X845075	16-Nov-18	D1
EPA 6020B	Arsenic	mg/kg	<0.300	0.132	0.300	X845073	15-Nov-18	D1
EPA 6020B	Thallium	mg/kg	<0.100	0.0106	0.100	X845073	15-Nov-18	D1
Metals (Total) by EPA 6000/7000 Methods								
EPA 6010D	Aluminum	mg/kg	<8.0	5.0	8.0	X845068	19-Nov-18	
EPA 6010D	Barium	mg/kg	<0.20	0.18	0.20	X845068	19-Nov-18	
EPA 6010D	Beryllium	mg/kg	<0.20	0.08	0.20	X845068	19-Nov-18	
EPA 6010D	Cadmium	mg/kg	<0.20	0.06	0.20	X845068	19-Nov-18	
EPA 6010D	Calcium	mg/kg	<10.0	4.9	10.0	X845068	19-Nov-18	
EPA 6010D	Chromium	mg/kg	<0.60	0.20	0.60	X845068	19-Nov-18	
EPA 6010D	Cobalt	mg/kg	<0.60	0.07	0.60	X845068	19-Nov-18	
EPA 6010D	Copper	mg/kg	<1.00	0.16	1.00	X845068	19-Nov-18	
EPA 6010D	Iron	mg/kg	<10.0	6.6	10.0	X845068	19-Nov-18	
EPA 6010D	Lead	mg/kg	<0.8	0.3	0.8	X845068	19-Nov-18	
EPA 6010D	Magnesium	mg/kg	<20.0	12.0	20.0	X845068	19-Nov-18	
EPA 6010D	Manganese	mg/kg	<0.80	0.28	0.80	X845068	19-Nov-18	
EPA 6010D	Nickel	mg/kg	<1.00	0.24	1.00	X845068	19-Nov-18	
EPA 6010D	Selenium	mg/kg	<4.0	1.1	4.0	X845068	19-Nov-18	
EPA 6010D	Silver	mg/kg	<0.50	0.20	0.50	X845068	19-Nov-18	
EPA 6010D	Vanadium	mg/kg	<0.50	0.16	0.50	X845068	19-Nov-18	
EPA 6010D	Zinc	mg/kg	<1.0	0.3	1.0	X845068	19-Nov-18	
EPA 7471B	Mercury	mg/kg	<0.033	0.011	0.033	X845251	16-Nov-18	

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Total)									
EPA 6020B	Antimony	mg/kg	2.66	2.50	106	80 - 120	X845075	16-Nov-18	D1
EPA 6020B	Arsenic	mg/kg	2.46	2.50	98.6	80 - 120	X845073	15-Nov-18	D1
EPA 6020B	Thallium	mg/kg	2.41	2.50	96.6	80 - 120	X845073	15-Nov-18	D1
Metals (Total) by EPA 6000/7000 Methods									
EPA 6010D	Aluminum	mg/kg	98.6	100	98.6	80 - 120	X845068	19-Nov-18	
EPA 6010D	Barium	mg/kg	98.5	100	98.5	80 - 120	X845068	19-Nov-18	
EPA 6010D	Beryllium	mg/kg	98.2	100	98.2	80 - 120	X845068	19-Nov-18	
EPA 6010D	Cadmium	mg/kg	99.4	100	99.4	80 - 120	X845068	19-Nov-18	
EPA 6010D	Calcium	mg/kg	1830	2000	91.5	80 - 120	X845068	19-Nov-18	
EPA 6010D	Chromium	mg/kg	98.0	100	98.0	80 - 120	X845068	19-Nov-18	
EPA 6010D	Cobalt	mg/kg	100	100	100	80 - 120	X845068	19-Nov-18	
EPA 6010D	Copper	mg/kg	97.6	100	97.6	80 - 120	X845068	19-Nov-18	
EPA 6010D	Iron	mg/kg	968	1000	96.8	80 - 120	X845068	19-Nov-18	
EPA 6010D	Lead	mg/kg	95.6	100	95.6	80 - 120	X845068	19-Nov-18	
EPA 6010D	Magnesium	mg/kg	1960	2000	98.2	80 - 120	X845068	19-Nov-18	
EPA 6010D	Manganese	mg/kg	97.3	100	97.3	80 - 120	X845068	19-Nov-18	
EPA 6010D	Nickel	mg/kg	96.4	100	96.4	80 - 120	X845068	19-Nov-18	
EPA 6010D	Selenium	mg/kg	95.1	100	95.1	80 - 120	X845068	19-Nov-18	
EPA 6010D	Silver	mg/kg	4.96	5.00	99.1	80 - 120	X845068	19-Nov-18	
EPA 6010D	Vanadium	mg/kg	102	100	102	80 - 120	X845068	19-Nov-18	
EPA 6010D	Zinc	mg/kg	94.3	100	94.3	80 - 120	X845068	19-Nov-18	
EPA 7471B	Mercury	mg/kg	0.822	0.833	98.6	80 - 120	X845251	16-Nov-18	

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Project Name: North Fork 2018
Work Order: **X8K0029**
Reported: 20-Nov-18 13:38

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch ID	Analyzed	Notes
Percent Solids / Percent Moisture									
Percent Solids	% Solids	%	90.2	87.4	3.1	20	X845076	07-Nov-18	

Quality Control - MATRIX SPIKE Data

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Recovery	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Total)										
EPA 6020B	Antimony	mg/kg	4.26	1.15	2.86	109	75 - 125	X845075	16-Nov-18	D1
EPA 6020B	Arsenic	mg/kg	14.1	14.5	2.86	0.30R>S	75 - 125	X845073	15-Nov-18	D1,M4
EPA 6020B	Thallium	mg/kg	2.67	<0.100	2.86	91.4	75 - 125	X845073	15-Nov-18	D1
Metals (Total) by EPA 6000/7000 Methods										
EPA 6010D	Aluminum	mg/kg	9040	5120	114	0.30R>S	75 - 125	X845068	19-Nov-18	M3
EPA 6010D	Barium	mg/kg	175	51.6	114	108	75 - 125	X845068	19-Nov-18	
EPA 6010D	Beryllium	mg/kg	111	0.32	114	97.0	75 - 125	X845068	19-Nov-18	
EPA 6010D	Cadmium	mg/kg	115	0.71	114	100	75 - 125	X845068	19-Nov-18	
EPA 6010D	Calcium	mg/kg	2910	729	2290	95.1	75 - 125	X845068	19-Nov-18	
EPA 6010D	Chromium	mg/kg	116	5.04	114	97.1	75 - 125	X845068	19-Nov-18	
EPA 6010D	Cobalt	mg/kg	120	6.07	114	99.9	75 - 125	X845068	19-Nov-18	
EPA 6010D	Copper	mg/kg	127	14.1	114	98.5	75 - 125	X845068	19-Nov-18	
EPA 6010D	Iron	mg/kg	18700	15800	1140	0.30R>S	75 - 125	X845068	19-Nov-18	M3
EPA 6010D	Lead	mg/kg	199	82.9	114	102	75 - 125	X845068	19-Nov-18	
EPA 6010D	Magnesium	mg/kg	4250	1650	2290	114	75 - 125	X845068	19-Nov-18	
EPA 6010D	Manganese	mg/kg	433	361	114	63.5	75 - 125	X845068	19-Nov-18	M3
EPA 6010D	Nickel	mg/kg	117	7.70	114	95.7	75 - 125	X845068	19-Nov-18	
EPA 6010D	Selenium	mg/kg	109	<4.6	114	95.0	75 - 125	X845068	19-Nov-18	
EPA 6010D	Silver	mg/kg	5.79	<0.57	5.72	101	75 - 125	X845068	19-Nov-18	
EPA 6010D	Vanadium	mg/kg	125	7.27	114	103	75 - 125	X845068	19-Nov-18	
EPA 6010D	Zinc	mg/kg	285	184	114	87.8	75 - 125	X845068	19-Nov-18	
EPA 7471B	Mercury	mg/kg	0.395	<0.038	0.381	97.0	75 - 125	X845251	16-Nov-18	
EPA 7471B	Mercury	mg/kg	0.399	<0.035	0.358	112	75 - 125	X845251	16-Nov-18	

Quality Control - MATRIX SPIKE DUPLICATE Data

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	% Rec.	RPD	RPD Limit	Batch ID	Analyzed	Notes
Metals (Total)											
EPA 6020B	Antimony	mg/kg	4.07	4.26	2.86	102	4.6	20	X845075	16-Nov-18	D1
EPA 6020B	Arsenic	mg/kg	15.8	14.1	2.86	0.30R>S	11.0	20	X845073	15-Nov-18	D1,M4
EPA 6020B	Thallium	mg/kg	2.72	2.67	2.86	93.2	1.8	20	X845073	15-Nov-18	D1
Metals (Total) by EPA 6000/7000 Methods											
EPA 6010D	Aluminum	mg/kg	8640	9040	114	0.30R>S	4.5	20	X845068	19-Nov-18	M3
EPA 6010D	Aluminum	mg/kg	9130	9040	114	0.30R>S	1.0	20	X845068	19-Nov-18	
EPA 6010D	Barium	mg/kg	173	175	114	106	1.0	20	X845068	19-Nov-18	
EPA 6010D	Beryllium	mg/kg	114	111	114	99.1	2.2	20	X845068	19-Nov-18	
EPA 6010D	Cadmium	mg/kg	117	115	114	102	1.6	20	X845068	19-Nov-18	
EPA 6010D	Calcium	mg/kg	2990	2910	2290	98.9	2.9	20	X845068	19-Nov-18	
EPA 6010D	Chromium	mg/kg	117	116	114	98.1	1.0	20	X845068	19-Nov-18	
EPA 6010D	Cobalt	mg/kg	122	120	114	101	1.5	20	X845068	19-Nov-18	
EPA 6010D	Copper	mg/kg	131	127	114	102	3.3	20	X845068	19-Nov-18	

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Project Name: North Fork 2018
Work Order: **X8K0029**
Reported: 20-Nov-18 13:38

Quality Control - MATRIX SPIKE DUPLICATE Data (Continued)

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	% Rec.	RPD	RPD Limit	Batch ID	Analyzed	Notes
Metals (Total) by EPA 6000/7000 Methods (Continued)											
EPA 6010D	Iron	mg/kg	18600	18700	1140	0.30R>S	0.1	20	X845068	19-Nov-18	M3
EPA 6010D	Iron	mg/kg	19100	18700	1140	0.30R>S	2.1	20	X845068	19-Nov-18	
EPA 6010D	Lead	mg/kg	204	199	114	106	2.2	20	X845068	19-Nov-18	
EPA 6010D	Magnesium	mg/kg	4440	4250	2290	122	4.4	20	X845068	19-Nov-18	
EPA 6010D	Manganese	mg/kg	448	433	114	76.5	3.4	20	X845068	19-Nov-18	
EPA 6010D	Manganese	mg/kg	437	433	114	67.1	0.9	20	X845068	19-Nov-18	
EPA 6010D	Nickel	mg/kg	120	117	114	98.4	2.7	20	X845068	19-Nov-18	
EPA 6010D	Selenium	mg/kg	110	109	114	96.2	1.2	20	X845068	19-Nov-18	
EPA 6010D	Silver	mg/kg	5.79	5.79	5.72	101	0.1	20	X845068	19-Nov-18	
EPA 6010D	Vanadium	mg/kg	126	125	114	104	0.7	20	X845068	19-Nov-18	
EPA 6010D	Zinc	mg/kg	280	285	114	83.5	1.8	20	X845068	19-Nov-18	
EPA 7471B	Mercury	mg/kg	0.391	0.395	0.381	96.0	1.0	20	X845251	16-Nov-18	

Notes and Definitions

D1	Sample required dilution due to matrix.
M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to spike level. The LCS was acceptable.
M4	The analysis of the spiked sample required a dilution such that the spike recovery calculation does not provide useful information. The LCS recovery was acceptable.
LCS	Laboratory Control Sample (Blank Spike)
RPD	Relative Percent Difference
UDL	A result is less than the detection limit
0.30R>S	% recovery not applicable; spike level is less than 30% of the sample concentration
<RL	A result is less than the reporting limit
MRL	Method Reporting Limit
MDL	Method Detection Limit
N/A	Not Applicable

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Project Name: North Fork 2018
Work Order: **X8K0030**
Reported: 20-Nov-18 14:19

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
NF-SD21	X8K0030-01	Sediment	30-Oct-18 14:00	GM	01-Nov-2018	
NF-SD22	X8K0030-02	Sediment	30-Oct-18 14:20	GM	01-Nov-2018	
NF-SD23	X8K0030-03	Sediment	30-Oct-18 15:15	GM	01-Nov-2018	
NF-SD24	X8K0030-04	Sediment	30-Oct-18 15:20	GM	01-Nov-2018	
NF-SD25	X8K0030-05	Sediment	31-Oct-18 10:35	GM	01-Nov-2018	
NF-SD26	X8K0030-06	Sediment	31-Oct-18 10:35	GM	01-Nov-2018	
NF-SD27	X8K0030-07	Sediment	31-Oct-18 11:25	GM	01-Nov-2018	
NF-SD28	X8K0030-08	Sediment	31-Oct-18 11:45	GM	01-Nov-2018	

Solid samples are analyzed on an as-received, wet-weight basis, unless otherwise requested.
Sample preparation is defined by the client as per their Data Quality Objectives.
This report supercedes any previous reports for this Work Order. The complete report includes pages for each sample, a full QC report, and a notes section.
Analyses were performed in accordance with SVL standard operating procedures and calibrations were performed and met SVL internal QC criteria.
The results presented in this report relate only to the samples, and meet all requirements of the NELAC Standards unless otherwise noted.

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Project Name: North Fork 2018
Work Order: **X8K0030**
Reported: 20-Nov-18 14:19

Client Sample ID: **NF-SD21**
SVL Sample ID: **X8K0030-01 (Sediment)**

Sampled: 30-Oct-18 14:00
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 6020B	**Antimony**	0.893	mg/kg dry wt. dry	0.300	0.061	2	X845079	KWH	11/16/18 08:09	D1
EPA 6020B	**Arsenic**	12.3	mg/kg dry wt. dry	0.318	0.140	2	X845078	KWH	11/15/18 13:32	D1,M4
EPA 6020B	Thallium	< 0.100	mg/kg dry wt. dry	0.100	0.0112	2	X845078	KWH	11/15/18 13:32	D1
Metals (Total) by EPA 6000/7000 Methods										
EPA 6010D	**Aluminum**	5900	mg/kg dry wt. dry	8.5	5.3		X845077	DT	11/19/18 13:28	
EPA 6010D	**Barium**	61.6	mg/kg dry wt. dry	0.21	0.19		X845077	DT	11/19/18 13:28	
EPA 6010D	**Beryllium**	0.41	mg/kg dry wt. dry	0.21	0.09		X845077	DT	11/19/18 13:28	
EPA 6010D	**Cadmium**	0.52	mg/kg dry wt. dry	0.21	0.06		X845077	DT	11/19/18 13:28	
EPA 6010D	**Calcium**	518	mg/kg dry wt. dry	10.6	5.2		X845077	DT	11/19/18 13:28	
EPA 6010D	**Chromium**	6.81	mg/kg dry wt. dry	0.64	0.21		X845077	DT	11/19/18 13:28	
EPA 6010D	**Cobalt**	6.62	mg/kg dry wt. dry	0.64	0.08		X845077	DT	11/19/18 13:28	
EPA 6010D	**Copper**	23.0	mg/kg dry wt. dry	1.06	0.17		X845077	DT	11/19/18 13:28	
EPA 6010D	**Iron**	26200	mg/kg dry wt. dry	10.6	7.0		X845077	DT	11/19/18 13:28	
EPA 6010D	**Lead**	154	mg/kg dry wt. dry	0.8	0.3		X845077	DT	11/19/18 13:28	
EPA 6010D	**Magnesium**	2600	mg/kg dry wt. dry	21.2	12.7		X845077	DT	11/19/18 13:28	
EPA 6010D	**Manganese**	350	mg/kg dry wt. dry	0.85	0.30		X845077	DT	11/19/18 13:28	
EPA 6010D	**Nickel**	8.75	mg/kg dry wt. dry	1.06	0.25		X845077	DT	11/19/18 13:28	
EPA 6010D	Selenium	< 4.2	mg/kg dry wt. dry	4.2	1.2		X845077	DT	11/19/18 13:28	
EPA 6010D	Silver	< 0.53	mg/kg dry wt. dry	0.53	0.21		X845077	DT	11/19/18 13:28	
EPA 6010D	**Vanadium**	7.89	mg/kg dry wt. dry	0.53	0.17		X845077	DT	11/19/18 13:28	
EPA 6010D	**Zinc**	197	mg/kg dry wt. dry	1.1	0.4		X845077	DT	11/19/18 13:28	
EPA 7471B	Mercury	< 0.035	mg/kg dry wt. dry	0.035	0.012		X845252	MWD	11/13/18 11:42	
Percent Solids / Percent Moisture										
Percent Solids	**% Solids**	94.5	%	0.1			X845080	JAA	11/12/18 12:15	

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

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Project Name: North Fork 2018
Work Order: **X8K0030**
Reported: 20-Nov-18 14:19

Client Sample ID: **NF-SD22**
SVL Sample ID: **X8K0030-02 (Sediment)**

Sampled: 30-Oct-18 14:20
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 6020B	**Antimony**	2.77	mg/kg dry wt. dry	0.300	0.071	2	X845079	KWH	11/16/18 08:16	D1
EPA 6020B	**Arsenic**	14.4	mg/kg dry wt. dry	0.368	0.162	2	X845078	KWH	11/15/18 13:38	D1
EPA 6020B	Thallium	< 0.100	mg/kg dry wt. dry	0.100	0.0130	2	X845078	KWH	11/15/18 13:38	D1
Metals (Total) by EPA 6000/7000 Methods										
EPA 6010D	**Aluminum**	5670	mg/kg dry wt. dry	9.8	6.1		X845077	DT	11/19/18 13:32	
EPA 6010D	**Barium**	54.7	mg/kg dry wt. dry	0.25	0.22		X845077	DT	11/19/18 13:32	
EPA 6010D	**Beryllium**	0.45	mg/kg dry wt. dry	0.25	0.10		X845077	DT	11/19/18 13:32	
EPA 6010D	**Cadmium**	0.61	mg/kg dry wt. dry	0.25	0.07		X845077	DT	11/19/18 13:32	
EPA 6010D	**Calcium**	359	mg/kg dry wt. dry	12.3	6.0		X845077	DT	11/19/18 13:32	
EPA 6010D	**Chromium**	7.40	mg/kg dry wt. dry	0.74	0.25		X845077	DT	11/19/18 13:32	
EPA 6010D	**Cobalt**	6.65	mg/kg dry wt. dry	0.74	0.09		X845077	DT	11/19/18 13:32	
EPA 6010D	**Copper**	24.6	mg/kg dry wt. dry	1.23	0.20		X845077	DT	11/19/18 13:32	
EPA 6010D	**Iron**	27700	mg/kg dry wt. dry	12.3	8.1		X845077	DT	11/19/18 13:32	
EPA 6010D	**Lead**	194	mg/kg dry wt. dry	0.9	0.4		X845077	DT	11/19/18 13:32	
EPA 6010D	**Magnesium**	2410	mg/kg dry wt. dry	24.5	14.7		X845077	DT	11/19/18 13:32	
EPA 6010D	**Manganese**	486	mg/kg dry wt. dry	0.98	0.34		X845077	DT	11/19/18 13:32	
EPA 6010D	**Nickel**	11.2	mg/kg dry wt. dry	1.23	0.29		X845077	DT	11/19/18 13:32	
EPA 6010D	Selenium	< 4.9	mg/kg dry wt. dry	4.9	1.3		X845077	DT	11/19/18 13:32	
EPA 6010D	Silver	< 0.61	mg/kg dry wt. dry	0.61	0.25		X845077	DT	11/19/18 13:32	
EPA 6010D	**Vanadium**	9.76	mg/kg dry wt. dry	0.61	0.20		X845077	DT	11/19/18 13:32	
EPA 6010D	**Zinc**	190	mg/kg dry wt. dry	1.2	0.4		X845077	DT	11/19/18 13:32	
EPA 7471B	Mercury	< 0.040	mg/kg dry wt. dry	0.040	0.013		X845252	MWD	11/13/18 11:44	
Percent Solids / Percent Moisture										
Percent Solids	**% Solids**	81.5	%	0.1			X845080	JAA	11/12/18 12:15	

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Project Name: North Fork 2018
Work Order: **X8K0030**
Reported: 20-Nov-18 14:19

Client Sample ID: **NF-SD23**
SVL Sample ID: **X8K0030-03 (Sediment)**

Sampled: 30-Oct-18 15:15
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 6020B	**Antimony**	1.07	mg/kg dry wt. dry	0.300	0.077	2	X845079	KWH	11/16/18 08:18	D1
EPA 6020B	**Arsenic**	13.6	mg/kg dry wt. dry	0.400	0.176	2	X845078	KWH	11/15/18 13:40	D1
EPA 6020B	Thallium	< 0.100	mg/kg dry wt. dry	0.100	0.0141	2	X845078	KWH	11/15/18 13:40	D1
Metals (Total) by EPA 6000/7000 Methods										
EPA 6010D	**Aluminum**	7630	mg/kg dry wt. dry	10.7	6.7		X845077	DT	11/19/18 13:35	
EPA 6010D	**Barium**	72.8	mg/kg dry wt. dry	0.27	0.24		X845077	DT	11/19/18 13:35	
EPA 6010D	**Beryllium**	0.38	mg/kg dry wt. dry	0.27	0.11		X845077	DT	11/19/18 13:35	
EPA 6010D	**Cadmium**	0.57	mg/kg dry wt. dry	0.27	0.08		X845077	DT	11/19/18 13:35	
EPA 6010D	**Calcium**	730	mg/kg dry wt. dry	13.3	6.5		X845077	DT	11/19/18 13:35	
EPA 6010D	**Chromium**	7.23	mg/kg dry wt. dry	0.80	0.27		X845077	DT	11/19/18 13:35	
EPA 6010D	**Cobalt**	5.51	mg/kg dry wt. dry	0.80	0.10		X845077	DT	11/19/18 13:35	
EPA 6010D	**Copper**	29.2	mg/kg dry wt. dry	1.33	0.21		X845077	DT	11/19/18 13:35	
EPA 6010D	**Iron**	16700	mg/kg dry wt. dry	13.3	8.8		X845077	DT	11/19/18 13:35	
EPA 6010D	**Lead**	236	mg/kg dry wt. dry	1.0	0.4		X845077	DT	11/19/18 13:35	
EPA 6010D	**Magnesium**	3660	mg/kg dry wt. dry	26.6	16.0		X845077	DT	11/19/18 13:35	
EPA 6010D	**Manganese**	285	mg/kg dry wt. dry	1.07	0.37		X845077	DT	11/19/18 13:35	
EPA 6010D	**Nickel**	9.86	mg/kg dry wt. dry	1.33	0.32		X845077	DT	11/19/18 13:35	
EPA 6010D	Selenium	< 5.3	mg/kg dry wt. dry	5.3	1.5		X845077	DT	11/19/18 13:35	
EPA 6010D	Silver	< 0.67	mg/kg dry wt. dry	0.67	0.27		X845077	DT	11/19/18 13:35	
EPA 6010D	**Vanadium**	9.15	mg/kg dry wt. dry	0.67	0.21		X845077	DT	11/19/18 13:35	
EPA 6010D	**Zinc**	178	mg/kg dry wt. dry	1.3	0.5		X845077	DT	11/19/18 13:35	
EPA 7471B	Mercury	< 0.044	mg/kg dry wt. dry	0.044	0.015		X845252	MWD	11/13/18 11:46	
Percent Solids / Percent Moisture										
Percent Solids	**% Solids**	75.1	%	0.1			X845080	JAA	11/12/18 12:15	

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

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Project Name: North Fork 2018
Work Order: **X8K0030**
Reported: 20-Nov-18 14:19

Client Sample ID: **NF-SD24**
SVL Sample ID: **X8K0030-04 (Sediment)**

Sampled: 30-Oct-18 15:20
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 6020B	**Antimony**	0.867	mg/kg dry wt. dry	0.300	0.065	2	X845079	KWH	11/16/18 08:20	D1
EPA 6020B	**Arsenic**	18.2	mg/kg dry wt. dry	0.338	0.149	2	X845078	KWH	11/15/18 13:42	D1
EPA 6020B	**Thallium**	0.127	mg/kg dry wt. dry	0.100	0.0119	2	X845078	KWH	11/15/18 13:42	D1
Metals (Total) by EPA 6000/7000 Methods										
EPA 6010D	**Aluminum**	6940	mg/kg dry wt. dry	9.0	5.6		X845077	DT	11/19/18 13:39	
EPA 6010D	**Barium**	71.2	mg/kg dry wt. dry	0.23	0.20		X845077	DT	11/19/18 13:39	
EPA 6010D	**Beryllium**	0.40	mg/kg dry wt. dry	0.23	0.09		X845077	DT	11/19/18 13:39	
EPA 6010D	**Cadmium**	0.69	mg/kg dry wt. dry	0.23	0.06		X845077	DT	11/19/18 13:39	
EPA 6010D	**Calcium**	693	mg/kg dry wt. dry	11.3	5.5		X845077	DT	11/19/18 13:39	
EPA 6010D	**Chromium**	6.97	mg/kg dry wt. dry	0.68	0.23		X845077	DT	11/19/18 13:39	
EPA 6010D	**Cobalt**	8.20	mg/kg dry wt. dry	0.68	0.08		X845077	DT	11/19/18 13:39	
EPA 6010D	**Copper**	26.2	mg/kg dry wt. dry	1.13	0.18		X845077	DT	11/19/18 13:39	
EPA 6010D	**Iron**	21600	mg/kg dry wt. dry	11.3	7.4		X845077	DT	11/19/18 13:39	
EPA 6010D	**Lead**	205	mg/kg dry wt. dry	0.8	0.4		X845077	DT	11/19/18 13:39	
EPA 6010D	**Magnesium**	2600	mg/kg dry wt. dry	22.5	13.5		X845077	DT	11/19/18 13:39	
EPA 6010D	**Manganese**	444	mg/kg dry wt. dry	0.90	0.32		X845077	DT	11/19/18 13:39	
EPA 6010D	**Nickel**	10.2	mg/kg dry wt. dry	1.13	0.27		X845077	DT	11/19/18 13:39	
EPA 6010D	Selenium	< 4.5	mg/kg dry wt. dry	4.5	1.2		X845077	DT	11/19/18 13:39	
EPA 6010D	Silver	< 0.56	mg/kg dry wt. dry	0.56	0.23		X845077	DT	11/19/18 13:39	
EPA 6010D	**Vanadium**	10.2	mg/kg dry wt. dry	0.56	0.18		X845077	DT	11/19/18 13:39	
EPA 6010D	**Zinc**	237	mg/kg dry wt. dry	1.1	0.4		X845077	DT	11/19/18 13:39	
EPA 7471B	Mercury	< 0.037	mg/kg dry wt. dry	0.037	0.012		X845252	MWD	11/13/18 11:49	
Percent Solids / Percent Moisture										
Percent Solids	**% Solids**	88.7	%	0.1			X845080	JAA	11/12/18 12:15	

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

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Kellogg, ID 83837

Project Name: North Fork 2018
Work Order: **X8K0030**
Reported: 20-Nov-18 14:19

Client Sample ID: **NF-SD25**
SVL Sample ID: **X8K0030-05 (Sediment)**

Sampled: 31-Oct-18 10:35
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 6020B	**Antimony**	1.13	mg/kg dry wt. dry	0.300	0.078	2	X845079	KWH	11/16/18 08:22	D1
EPA 6020B	**Arsenic**	11.0	mg/kg dry wt. dry	0.402	0.177	2	X845078	KWH	11/15/18 13:44	D1
EPA 6020B	Thallium	< 0.100	mg/kg dry wt. dry	0.100	0.0142	2	X845078	KWH	11/15/18 13:44	D1
Metals (Total) by EPA 6000/7000 Methods										
EPA 6010D	**Aluminum**	5900	mg/kg dry wt. dry	10.7	6.7		X845077	DT	11/19/18 13:42	
EPA 6010D	**Barium**	59.8	mg/kg dry wt. dry	0.27	0.24		X845077	DT	11/19/18 13:42	
EPA 6010D	**Beryllium**	0.47	mg/kg dry wt. dry	0.27	0.11		X845077	DT	11/19/18 13:42	
EPA 6010D	**Cadmium**	0.68	mg/kg dry wt. dry	0.27	0.08		X845077	DT	11/19/18 13:42	
EPA 6010D	**Calcium**	403	mg/kg dry wt. dry	13.4	6.6		X845077	DT	11/19/18 13:42	
EPA 6010D	**Chromium**	6.49	mg/kg dry wt. dry	0.80	0.27		X845077	DT	11/19/18 13:42	
EPA 6010D	**Cobalt**	6.09	mg/kg dry wt. dry	0.80	0.10		X845077	DT	11/19/18 13:42	
EPA 6010D	**Copper**	33.3	mg/kg dry wt. dry	1.34	0.21		X845077	DT	11/19/18 13:42	
EPA 6010D	**Iron**	25100	mg/kg dry wt. dry	13.4	8.8		X845077	DT	11/19/18 13:42	
EPA 6010D	**Lead**	194	mg/kg dry wt. dry	1.0	0.4		X845077	DT	11/19/18 13:42	
EPA 6010D	**Magnesium**	2420	mg/kg dry wt. dry	26.8	16.1		X845077	DT	11/19/18 13:42	
EPA 6010D	**Manganese**	350	mg/kg dry wt. dry	1.07	0.37		X845077	DT	11/19/18 13:42	
EPA 6010D	**Nickel**	10.1	mg/kg dry wt. dry	1.34	0.32		X845077	DT	11/19/18 13:42	
EPA 6010D	Selenium	< 5.4	mg/kg dry wt. dry	5.4	1.5		X845077	DT	11/19/18 13:42	
EPA 6010D	Silver	< 0.67	mg/kg dry wt. dry	0.67	0.27		X845077	DT	11/19/18 13:42	
EPA 6010D	**Vanadium**	8.16	mg/kg dry wt. dry	0.67	0.21		X845077	DT	11/19/18 13:42	
EPA 6010D	**Zinc**	196	mg/kg dry wt. dry	1.3	0.5		X845077	DT	11/19/18 13:42	
EPA 7471B	Mercury	< 0.044	mg/kg dry wt. dry	0.044	0.015		X845252	MWD	11/13/18 11:51	
Percent Solids / Percent Moisture										
Percent Solids	**% Solids**	74.7	%	0.1			X845080	JAA	11/12/18 12:15	

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

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Project Name: North Fork 2018
Work Order: **X8K0030**
Reported: 20-Nov-18 14:19

Client Sample ID: **NF-SD26**
SVL Sample ID: **X8K0030-06 (Sediment)**

Sampled: 31-Oct-18 10:35
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 6020B	**Antimony**	0.864	mg/kg dry wt. dry	0.300	0.080	2	X845079	KWH	11/16/18 08:24	D1
EPA 6020B	**Arsenic**	13.4	mg/kg dry wt. dry	0.416	0.183	2	X845078	KWH	11/15/18 13:46	D1
EPA 6020B	Thallium	< 0.100	mg/kg dry wt. dry	0.100	0.0147	2	X845078	KWH	11/15/18 13:46	D1
Metals (Total) by EPA 6000/7000 Methods										
EPA 6010D	**Aluminum**	6100	mg/kg dry wt. dry	11.1	6.9		X845077	DT	11/19/18 13:46	
EPA 6010D	**Barium**	81.6	mg/kg dry wt. dry	0.28	0.25		X845077	DT	11/19/18 13:46	
EPA 6010D	**Beryllium**	0.47	mg/kg dry wt. dry	0.28	0.12		X845077	DT	11/19/18 13:46	
EPA 6010D	**Cadmium**	0.62	mg/kg dry wt. dry	0.28	0.08		X845077	DT	11/19/18 13:46	
EPA 6010D	**Calcium**	475	mg/kg dry wt. dry	13.9	6.8		X845077	DT	11/19/18 13:46	
EPA 6010D	**Chromium**	7.17	mg/kg dry wt. dry	0.83	0.28		X845077	DT	11/19/18 13:46	
EPA 6010D	**Cobalt**	8.21	mg/kg dry wt. dry	0.83	0.10		X845077	DT	11/19/18 13:46	
EPA 6010D	**Copper**	36.0	mg/kg dry wt. dry	1.39	0.22		X845077	DT	11/19/18 13:46	
EPA 6010D	**Iron**	26900	mg/kg dry wt. dry	13.9	9.1		X845077	DT	11/19/18 13:46	
EPA 6010D	**Lead**	215	mg/kg dry wt. dry	1.0	0.5		X845077	DT	11/19/18 13:46	
EPA 6010D	**Magnesium**	2290	mg/kg dry wt. dry	27.7	16.6		X845077	DT	11/19/18 13:46	
EPA 6010D	**Manganese**	422	mg/kg dry wt. dry	1.11	0.39		X845077	DT	11/19/18 13:46	
EPA 6010D	**Nickel**	10.5	mg/kg dry wt. dry	1.39	0.33		X845077	DT	11/19/18 13:46	
EPA 6010D	Selenium	< 5.5	mg/kg dry wt. dry	5.5	1.5		X845077	DT	11/19/18 13:46	
EPA 6010D	Silver	< 0.69	mg/kg dry wt. dry	0.69	0.28		X845077	DT	11/19/18 13:46	
EPA 6010D	**Vanadium**	8.98	mg/kg dry wt. dry	0.69	0.22		X845077	DT	11/19/18 13:46	
EPA 6010D	**Zinc**	196	mg/kg dry wt. dry	1.4	0.5		X845077	DT	11/19/18 13:46	
EPA 7471B	Mercury	< 0.046	mg/kg dry wt. dry	0.046	0.015		X845252	MWD	11/13/18 11:53	
Percent Solids / Percent Moisture										
Percent Solids	**% Solids**	72.2	%	0.1			X845080	JAA	11/12/18 12:15	

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

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Alta Science and Engineering - Kellogg
108 W. Idaho Street
Kellogg, ID 83837

Project Name: North Fork 2018
Work Order: **X8K0030**
Reported: 20-Nov-18 14:19

Client Sample ID: **NF-SD27**
SVL Sample ID: **X8K0030-07 (Sediment)**

Sampled: 31-Oct-18 11:25
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 6020B	**Antimony**	1.78	mg/kg dry wt. dry	0.300	0.067	2	X845079	KWH	11/16/18 08:03	D1,M4
EPA 6020B	**Arsenic**	9.18	mg/kg dry wt. dry	0.347	0.153	2	X845078	KWH	11/15/18 13:25	D1
EPA 6020B	Thallium	< 0.100	mg/kg dry wt. dry	0.100	0.0123	2	X845078	KWH	11/15/18 13:25	D1
Metals (Total) by EPA 6000/7000 Methods										
EPA 6010D	**Aluminum**	7200	mg/kg dry wt. dry	9.2	5.8		X845077	DT	11/19/18 13:50	M3
EPA 6010D	**Barium**	62.1	mg/kg dry wt. dry	0.23	0.21		X845077	DT	11/19/18 13:50	M1
EPA 6010D	**Beryllium**	0.50	mg/kg dry wt. dry	0.23	0.10		X845077	DT	11/19/18 13:50	
EPA 6010D	**Cadmium**	0.84	mg/kg dry wt. dry	0.23	0.07		X845077	DT	11/19/18 13:50	
EPA 6010D	**Calcium**	736	mg/kg dry wt. dry	11.6	5.7		X845077	DT	11/19/18 13:50	M2
EPA 6010D	**Chromium**	8.51	mg/kg dry wt. dry	0.69	0.23		X845077	DT	11/19/18 13:50	
EPA 6010D	**Cobalt**	6.49	mg/kg dry wt. dry	0.69	0.08		X845077	DT	11/19/18 13:50	
EPA 6010D	**Copper**	32.6	mg/kg dry wt. dry	1.16	0.18		X845077	DT	11/19/18 13:50	
EPA 6010D	**Iron**	27300	mg/kg dry wt. dry	11.6	7.6		X845077	DT	11/19/18 13:50	M3
EPA 6010D	**Lead**	204	mg/kg dry wt. dry	0.9	0.4		X845077	DT	11/19/18 13:50	
EPA 6010D	**Magnesium**	3280	mg/kg dry wt. dry	23.1	13.9		X845077	DT	11/19/18 13:50	M1,M2
EPA 6010D	**Manganese**	343	mg/kg dry wt. dry	0.92	0.32		X845077	DT	11/19/18 13:50	M1
EPA 6010D	**Nickel**	10.9	mg/kg dry wt. dry	1.16	0.28		X845077	DT	11/19/18 13:50	
EPA 6010D	Selenium	< 4.6	mg/kg dry wt. dry	4.6	1.3		X845077	DT	11/19/18 13:50	
EPA 6010D	Silver	< 0.58	mg/kg dry wt. dry	0.58	0.23		X845077	DT	11/19/18 13:50	
EPA 6010D	**Vanadium**	11.3	mg/kg dry wt. dry	0.58	0.18		X845077	DT	11/19/18 13:50	
EPA 6010D	**Zinc**	232	mg/kg dry wt. dry	1.2	0.4		X845077	DT	11/19/18 13:50	M1
EPA 7471B	Mercury	< 0.038	mg/kg dry wt. dry	0.038	0.013		X845252	MWD	11/13/18 11:55	
Percent Solids / Percent Moisture										
Percent Solids	**% Solids**	86.5	%	0.1			X845080	JAA	11/12/18 12:15	

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Alta Science and Engineering - Kellogg
108 W. Idaho Street
Kellogg, ID 83837

Project Name: North Fork 2018
Work Order: **X8K0030**
Reported: 20-Nov-18 14:19

Client Sample ID: **NF-SD28**
SVL Sample ID: **X8K0030-08 (Sediment)**

Sampled: 31-Oct-18 11:45
Received: 01-Nov-18
Sampled By: GM

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 6020B	**Antimony**	0.938	mg/kg dry wt. dry	0.300	0.075	2	X845079	KWH	11/16/18 08:26	D1
EPA 6020B	**Arsenic**	33.8	mg/kg dry wt. dry	0.389	0.171	2	X845078	KWH	11/15/18 13:48	D1
EPA 6020B	Thallium	< 0.100	mg/kg dry wt. dry	0.100	0.0137	2	X845078	KWH	11/15/18 13:48	D1
Metals (Total) by EPA 6000/7000 Methods										
EPA 6010D	**Aluminum**	7370	mg/kg dry wt. dry	10.4	6.5		X845077	DT	11/19/18 14:08	
EPA 6010D	**Barium**	64.9	mg/kg dry wt. dry	0.26	0.23		X845077	DT	11/19/18 14:08	
EPA 6010D	**Beryllium**	0.46	mg/kg dry wt. dry	0.26	0.11		X845077	DT	11/19/18 14:08	
EPA 6010D	**Cadmium**	0.63	mg/kg dry wt. dry	0.26	0.07		X845077	DT	11/19/18 14:08	
EPA 6010D	**Calcium**	708	mg/kg dry wt. dry	13.0	6.3		X845077	DT	11/19/18 14:08	
EPA 6010D	**Chromium**	7.50	mg/kg dry wt. dry	0.78	0.26		X845077	DT	11/19/18 14:08	
EPA 6010D	**Cobalt**	9.59	mg/kg dry wt. dry	0.78	0.09		X845077	DT	11/19/18 14:08	
EPA 6010D	**Copper**	22.2	mg/kg dry wt. dry	1.30	0.21		X845077	DT	11/19/18 14:08	
EPA 6010D	**Iron**	23700	mg/kg dry wt. dry	13.0	8.6		X845077	DT	11/19/18 14:08	
EPA 6010D	**Lead**	274	mg/kg dry wt. dry	1.0	0.4		X845077	DT	11/19/18 14:08	
EPA 6010D	**Magnesium**	2870	mg/kg dry wt. dry	25.9	15.6		X845077	DT	11/19/18 14:08	
EPA 6010D	**Manganese**	445	mg/kg dry wt. dry	1.04	0.36		X845077	DT	11/19/18 14:08	
EPA 6010D	**Nickel**	11.4	mg/kg dry wt. dry	1.30	0.31		X845077	DT	11/19/18 14:08	
EPA 6010D	Selenium	< 5.2	mg/kg dry wt. dry	5.2	1.4		X845077	DT	11/19/18 14:08	
EPA 6010D	Silver	< 0.65	mg/kg dry wt. dry	0.65	0.26		X845077	DT	11/19/18 14:08	
EPA 6010D	**Vanadium**	11.6	mg/kg dry wt. dry	0.65	0.21		X845077	DT	11/19/18 14:08	
EPA 6010D	**Zinc**	217	mg/kg dry wt. dry	1.3	0.4		X845077	DT	11/19/18 14:08	
EPA 7471B	Mercury	< 0.043	mg/kg dry wt. dry	0.043	0.014		X845252	MWD	11/13/18 12:02	
Percent Solids / Percent Moisture										
Percent Solids	**% Solids**	77.2	%	0.1			X845080	JAA	11/12/18 12:15	

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Alta Science and Engineering - Kellogg
108 W. Idaho Street
Kellogg, ID 83837

Project Name: North Fork 2018
Work Order: **X8K0030**
Reported: 20-Nov-18 14:19

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Metals (Total)								
EPA 6020B	Antimony	mg/kg	<0.300	0.058	0.300	X845079	16-Nov-18	D1
EPA 6020B	Arsenic	mg/kg	<0.300	0.132	0.300	X845078	15-Nov-18	D1
EPA 6020B	Thallium	mg/kg	<0.100	0.0106	0.100	X845078	15-Nov-18	D1
Metals (Total) by EPA 6000/7000 Methods								
EPA 6010D	Aluminum	mg/kg	<8.0	5.0	8.0	X845077	19-Nov-18	
EPA 6010D	Barium	mg/kg	<0.20	0.18	0.20	X845077	19-Nov-18	
EPA 6010D	Beryllium	mg/kg	<0.20	0.08	0.20	X845077	19-Nov-18	
EPA 6010D	Cadmium	mg/kg	<0.20	0.06	0.20	X845077	19-Nov-18	
EPA 6010D	Calcium	mg/kg	<10.0	4.9	10.0	X845077	19-Nov-18	
EPA 6010D	Chromium	mg/kg	<0.60	0.20	0.60	X845077	19-Nov-18	
EPA 6010D	Cobalt	mg/kg	<0.60	0.07	0.60	X845077	19-Nov-18	
EPA 6010D	Copper	mg/kg	<1.00	0.16	1.00	X845077	19-Nov-18	
EPA 6010D	Iron	mg/kg	<10.0	6.6	10.0	X845077	19-Nov-18	
EPA 6010D	Lead	mg/kg	<0.8	0.3	0.8	X845077	19-Nov-18	
EPA 6010D	Magnesium	mg/kg	<20.0	12.0	20.0	X845077	19-Nov-18	
EPA 6010D	Manganese	mg/kg	<0.80	0.28	0.80	X845077	19-Nov-18	
EPA 6010D	Nickel	mg/kg	<1.00	0.24	1.00	X845077	19-Nov-18	
EPA 6010D	Selenium	mg/kg	<4.0	1.1	4.0	X845077	19-Nov-18	
EPA 6010D	Silver	mg/kg	<0.50	0.20	0.50	X845077	19-Nov-18	
EPA 6010D	Vanadium	mg/kg	<0.50	0.16	0.50	X845077	19-Nov-18	
EPA 6010D	Zinc	mg/kg	<1.0	0.3	1.0	X845077	19-Nov-18	
EPA 7471B	Mercury	mg/kg	<0.033	0.011	0.033	X845252	13-Nov-18	

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Total)									
EPA 6020B	Antimony	mg/kg	2.72	2.50	109	80 - 120	X845079	16-Nov-18	D1
EPA 6020B	Arsenic	mg/kg	2.50	2.50	100	80 - 120	X845078	15-Nov-18	D1
EPA 6020B	Thallium	mg/kg	2.42	2.50	96.9	80 - 120	X845078	15-Nov-18	D1
Metals (Total) by EPA 6000/7000 Methods									
EPA 6010D	Aluminum	mg/kg	100	100	100	80 - 120	X845077	19-Nov-18	
EPA 6010D	Barium	mg/kg	98.8	100	98.8	80 - 120	X845077	19-Nov-18	
EPA 6010D	Beryllium	mg/kg	97.8	100	97.8	80 - 120	X845077	19-Nov-18	
EPA 6010D	Cadmium	mg/kg	99.0	100	99.0	80 - 120	X845077	19-Nov-18	
EPA 6010D	Calcium	mg/kg	1820	2000	91.2	80 - 120	X845077	19-Nov-18	
EPA 6010D	Chromium	mg/kg	97.4	100	97.4	80 - 120	X845077	19-Nov-18	
EPA 6010D	Cobalt	mg/kg	99.8	100	99.8	80 - 120	X845077	19-Nov-18	
EPA 6010D	Copper	mg/kg	99.6	100	99.6	80 - 120	X845077	19-Nov-18	
EPA 6010D	Iron	mg/kg	966	1000	96.6	80 - 120	X845077	19-Nov-18	
EPA 6010D	Lead	mg/kg	96.0	100	96.0	80 - 120	X845077	19-Nov-18	
EPA 6010D	Magnesium	mg/kg	1960	2000	98.0	80 - 120	X845077	19-Nov-18	
EPA 6010D	Manganese	mg/kg	97.1	100	97.1	80 - 120	X845077	19-Nov-18	
EPA 6010D	Nickel	mg/kg	96.1	100	96.1	80 - 120	X845077	19-Nov-18	
EPA 6010D	Selenium	mg/kg	94.3	100	94.3	80 - 120	X845077	19-Nov-18	
EPA 6010D	Silver	mg/kg	4.88	5.00	97.6	80 - 120	X845077	19-Nov-18	
EPA 6010D	Vanadium	mg/kg	102	100	102	80 - 120	X845077	19-Nov-18	
EPA 6010D	Zinc	mg/kg	97.2	100	97.2	80 - 120	X845077	19-Nov-18	
EPA 7471B	Mercury	mg/kg	0.873	0.833	105	80 - 120	X845252	13-Nov-18	

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Project Name: North Fork 2018
Work Order: **X8K0030**
Reported: 20-Nov-18 14:19

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch ID	Analyzed	Notes
Percent Solids / Percent Moisture									
Percent Solids	% Solids	%	85.5	86.5	1.1	20	X845080	12-Nov-18	

Quality Control - MATRIX SPIKE Data

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Recovery	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Total)										
EPA 6020B	Antimony	mg/kg	3.89	1.78	2.89	73.2	75 - 125	X845079	16-Nov-18	D1,M4
EPA 6020B	Arsenic	mg/kg	14.6	9.18	2.89	187	75 - 125	X845078	15-Nov-18	D1,M4,R2B
EPA 6020B	Thallium	mg/kg	2.80	<0.100	2.89	95.0	75 - 125	X845078	15-Nov-18	D1
Metals (Total) by EPA 6000/7000 Methods										
EPA 6010D	Aluminum	mg/kg	12100	7200	116	0.30R>S	75 - 125	X845077	19-Nov-18	M3
EPA 6010D	Barium	mg/kg	240	62.1	116	154	75 - 125	X845077	19-Nov-18	M1,R2B
EPA 6010D	Beryllium	mg/kg	115	0.50	116	99.0	75 - 125	X845077	19-Nov-18	
EPA 6010D	Cadmium	mg/kg	118	0.84	116	101	75 - 125	X845077	19-Nov-18	
EPA 6010D	Calcium	mg/kg	3490	736	2310	119	75 - 125	X845077	19-Nov-18	R2B
EPA 6010D	Chromium	mg/kg	126	8.51	116	102	75 - 125	X845077	19-Nov-18	
EPA 6010D	Cobalt	mg/kg	128	6.49	116	105	75 - 125	X845077	19-Nov-18	
EPA 6010D	Copper	mg/kg	154	32.6	116	105	75 - 125	X845077	19-Nov-18	
EPA 6010D	Iron	mg/kg	38900	27300	1160	0.30R>S	75 - 125	X845077	19-Nov-18	M3
EPA 6010D	Lead	mg/kg	315	204	116	96.2	75 - 125	X845077	19-Nov-18	
EPA 6010D	Magnesium	mg/kg	9620	3280	2310	274	75 - 125	X845077	19-Nov-18	M1,R2B
EPA 6010D	Manganese	mg/kg	565	343	116	192	75 - 125	X845077	19-Nov-18	M1,R2B
EPA 6010D	Nickel	mg/kg	126	10.9	116	99.3	75 - 125	X845077	19-Nov-18	
EPA 6010D	Selenium	mg/kg	107	<4.6	116	92.9	75 - 125	X845077	19-Nov-18	
EPA 6010D	Silver	mg/kg	5.93	<0.58	5.78	103	75 - 125	X845077	19-Nov-18	
EPA 6010D	Vanadium	mg/kg	135	11.3	116	107	75 - 125	X845077	19-Nov-18	
EPA 6010D	Zinc	mg/kg	401	232	116	146	75 - 125	X845077	19-Nov-18	M1
EPA 7471B	Mercury	mg/kg	0.408	<0.038	0.385	106	75 - 125	X845252	13-Nov-18	

Quality Control - MATRIX SPIKE DUPLICATE Data

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	% Rec.	RPD	RPD Limit	Batch ID	Analyzed	Notes
Metals (Total)											
EPA 6020B	Antimony	mg/kg	3.91	3.89	2.89	73.7	0.4	20	X845079	16-Nov-18	D1,M4
EPA 6020B	Antimony	mg/kg	3.76	3.89	2.89	68.6	3.5	20	X845079	16-Nov-18	D1
EPA 6020B	Arsenic	mg/kg	18.0	14.6	2.89	307	21.2	20	X845078	15-Nov-18	D1,M4,R2B
EPA 6020B	Arsenic	mg/kg	16.6	14.6	0.00116	0.30R>S	12.7	20	X845078	15-Nov-18	D1
EPA 6020B	Thallium	mg/kg	2.76	2.80	2.89	93.6	1.5	20	X845078	15-Nov-18	D1
Metals (Total) by EPA 6000/7000 Methods											
EPA 6010D	Aluminum	mg/kg	9370	12100	116	0.30R>S	25.7	20	X845077	19-Nov-18	M3,R2B
EPA 6010D	Aluminum	mg/kg	12700	12100	116	0.30R>S	4.9	20	X845077	19-Nov-18	
EPA 6010D	Barium	mg/kg	178	240	116	101	29.5	20	X845077	19-Nov-18	R2B
EPA 6010D	Barium	mg/kg	250	240	116	162	3.9	20	X845077	19-Nov-18	
EPA 6010D	Beryllium	mg/kg	115	115	116	98.7	0.3	20	X845077	19-Nov-18	M2
EPA 6010D	Cadmium	mg/kg	118	118	116	102	0.8	20	X845077	19-Nov-18	
EPA 6010D	Calcium	mg/kg	2710	3490	2310	85.4	25.2	20	X845077	19-Nov-18	M2,R2B
EPA 6010D	Calcium	mg/kg	3740	3490	2310	130	6.8	20	X845077	19-Nov-18	

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Project Name: North Fork 2018
Work Order: **X8K0030**
Reported: 20-Nov-18 14:19

Quality Control - MATRIX SPIKE DUPLICATE Data (Continued)

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	% Rec.	RPD	RPD Limit	Batch ID	Analyzed	Notes
Metals (Total) by EPA 6000/7000 Methods (Continued)											
EPA 6010D	Chromium	mg/kg	122	126	116	97.9	3.5	20	X845077	19-Nov-18	
EPA 6010D	Cobalt	mg/kg	125	128	116	102	2.1	20	X845077	19-Nov-18	
EPA 6010D	Copper	mg/kg	177	154	116	125	13.6	20	X845077	19-Nov-18	
EPA 6010D	Iron	mg/kg	35400	38900	1160	0.30R>S	9.3	20	X845077	19-Nov-18	M3
EPA 6010D	Iron	mg/kg	40900	38900	1160	0.30R>S	5.1	20	X845077	19-Nov-18	
EPA 6010D	Lead	mg/kg	332	315	116	111	5.3	20	X845077	19-Nov-18	
EPA 6010D	Magnesium	mg/kg	4570	9620	2310	55.6	71.3	20	X845077	19-Nov-18	M2,R2B
EPA 6010D	Magnesium	mg/kg	10200	9620	2310	300	5.9	20	X845077	19-Nov-18	
EPA 6010D	Manganese	mg/kg	461	565	116	102	20.1	20	X845077	19-Nov-18	R2B
EPA 6010D	Manganese	mg/kg	596	565	116	219	5.4	20	X845077	19-Nov-18	
EPA 6010D	Nickel	mg/kg	133	126	116	106	5.7	20	X845077	19-Nov-18	
EPA 6010D	Selenium	mg/kg	107	107	116	92.6	0.3	20	X845077	19-Nov-18	
EPA 6010D	Silver	mg/kg	5.93	5.93	5.78	103	0.0	20	X845077	19-Nov-18	
EPA 6010D	Vanadium	mg/kg	130	135	116	103	3.6	20	X845077	19-Nov-18	
EPA 6010D	Zinc	mg/kg	360	401	116	111	10.6	20	X845077	19-Nov-18	
EPA 6010D	Zinc	mg/kg	433	401	116	174	7.8	20	X845077	19-Nov-18	
EPA 7471B	Mercury	mg/kg	0.420	0.408	0.385	109	2.8	20	X845252	13-Nov-18	

Notes and Definitions

D1	Sample required dilution due to matrix.
M1	Matrix spike recovery was high, but the LCS recovery was acceptable.
M2	Matrix spike recovery was low, but the LCS recovery was acceptable.
M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to spike level. The LCS was acceptable.
M4	The analysis of the spiked sample required a dilution such that the spike recovery calculation does not provide useful information. The LCS recovery was acceptable.
R2B	RPD exceeded the laboratory acceptance limit.
LCS	Laboratory Control Sample (Blank Spike)
RPD	Relative Percent Difference
UDL	A result is less than the detection limit
0.30R>S	% recovery not applicable; spike level is less than 30% of the sample concentration
<RL	A result is less than the reporting limit
MRL	Method Reporting Limit
MDL	Method Detection Limit
N/A	Not Applicable

Attachment B
Final Laboratory Data

CASE NUMBER	SAMPLE DELIVERY GROUP	SAMPLE ID	CASNUM	ANALYTE	CONC	RESULT UNITS	MDL	FINAL VALIDATION QUALIFIER	IDEQ QUAL	COMB QUAL	STATLOC
X845054	X8K0022	PBW	7440224	AG	0.005	mg/L	0.0019	U		U	Blank
X845054	X8K0022	PBW	7429905	AL	0.08	mg/L	0.05	U		U	Blank
X845054	X8K0022	PBW	7440393	BA	0.002	mg/L	0.0019	U		U	Blank
X845054	X8K0022	PBW	7440417	BE	0.002	mg/L	0.0017	U		U	Blank
X845054	X8K0022	PBW	7440702	CA	0.1	mg/L	0.069	U		U	Blank
X845054	X8K0022	PBW	7440439	CD	0.002	mg/L	0.0016	U		U	Blank
X845054	X8K0022	PBW	7440484	CO	0.006	mg/L	0.0016	U		U	Blank
X845054	X8K0022	PBW	7440473	CR	0.006	mg/L	0.002	U		U	Blank
X845054	X8K0022	PBW	7440508	CU	0.01	mg/L	0.0027	U		U	Blank
X845054	X8K0022	PBW	7439896	FE	0.1	mg/L	0.056	U		U	Blank
X845054	X8K0022	PBW	7439954	MG	0.5	mg/L	0.32	U		U	Blank
X845054	X8K0022	PBW	7439965	MN	0.008	mg/L	0.0034	U		U	Blank
X845054	X8K0022	PBW	7440020	NI	0.01	mg/L	0.0023	U		U	Blank
X845054	X8K0022	PBW	7439921	PB	0.0075	mg/L	0.0049	U		U	Blank
X845054	X8K0022	PBW	7782492	SE	0.04	mg/L	0.012	U		U	Blank
X845054	X8K0022	PBW	7440622	V	0.005	mg/L	0.0019	U		U	Blank
X845054	X8K0022	PBW	7440666	ZN	0.01	mg/L	0.005	U		U	Blank
X845054	X8K0022	LCSW	7440224	AG	0.0508	mg/L	0.0019	.			LCS
X845054	X8K0022	LCSW	7429905	AL	0.97	mg/L	0.05	.			LCS
X845054	X8K0022	LCSW	7440393	BA	1	mg/L	0.0019	.			LCS
X845054	X8K0022	LCSW	7440417	BE	0.994	mg/L	0.0017	.			LCS
X845054	X8K0022	LCSW	7440702	CA	18.4	mg/L	0.069	.			LCS
X845054	X8K0022	LCSW	7440439	CD	1.04	mg/L	0.0016	.			LCS
X845054	X8K0022	LCSW	7440484	CO	1.03	mg/L	0.0016	.			LCS
X845054	X8K0022	LCSW	7440473	CR	0.982	mg/L	0.002	.			LCS
X845054	X8K0022	LCSW	7440508	CU	0.986	mg/L	0.0027	.			LCS
X845054	X8K0022	LCSW	7439896	FE	9.82	mg/L	0.056	.			LCS
X845054	X8K0022	LCSW	7439954	MG	20.1	mg/L	0.32	.			LCS
X845054	X8K0022	LCSW	7439965	MN	0.973	mg/L	0.0034	.			LCS
X845054	X8K0022	LCSW	7440020	NI	0.988	mg/L	0.0023	.			LCS
X845054	X8K0022	LCSW	7439921	PB	0.983	mg/L	0.0049	.			LCS
X845054	X8K0022	LCSW	7782492	SE	1.02	mg/L	0.012	.			LCS
X845054	X8K0022	LCSW	7440622	V	1.03	mg/L	0.0019	.			LCS
X845054	X8K0022	LCSW	7440666	ZN	0.971	mg/L	0.005	.			LCS
X845054	X8K0022	NF-SW9MS1	7440224	AG	0.0505	mg/L	0.0019	.			NF-SW9
X845054	X8K0022	NF-SW9MS1	7429905	AL	1	mg/L	0.05	.			NF-SW9
X845054	X8K0022	NF-SW9MS1	7440393	BA	1.05	mg/L	0.0019	.			NF-SW9
X845054	X8K0022	NF-SW9MS1	7440417	BE	1.01	mg/L	0.0017	.			NF-SW9
X845054	X8K0022	NF-SW9MS1	7440702	CA	36	mg/L	0.069	.			NF-SW9
X845054	X8K0022	NF-SW9MS1	7440439	CD	1.04	mg/L	0.0016	.			NF-SW9
X845054	X8K0022	NF-SW9MS1	7440484	CO	1.03	mg/L	0.0016	.			NF-SW9
X845054	X8K0022	NF-SW9MS1	7440473	CR	0.989	mg/L	0.002	.			NF-SW9
X845054	X8K0022	NF-SW9MS1	7440508	CU	0.985	mg/L	0.0027	.			NF-SW9
X845054	X8K0022	NF-SW9MS1	7439896	FE	9.82	mg/L	0.056	.			NF-SW9
X845054	X8K0022	NF-SW9MS1	7439954	MG	27	mg/L	0.32	.			NF-SW9
X845054	X8K0022	NF-SW9MS1	7439965	MN	0.983	mg/L	0.0034	.			NF-SW9
X845054	X8K0022	NF-SW9MS1	7440020	NI	0.992	mg/L	0.0023	.			NF-SW9
X845054	X8K0022	NF-SW9MS1	7439921	PB	0.991	mg/L	0.0049	.			NF-SW9
X845054	X8K0022	NF-SW9MS1	7782492	SE	1.03	mg/L	0.012	.			NF-SW9
X845054	X8K0022	NF-SW9MS1	7440622	V	1.03	mg/L	0.0019	.			NF-SW9
X845054	X8K0022	NF-SW9MS1	7440666	ZN	0.978	mg/L	0.005	.			NF-SW9
X845054	X8K0022	NF-SW9MSD1	7440224	AG	0.0504	mg/L	0.0019	.			NF-SW9
X845054	X8K0022	NF-SW9MSD1	7429905	AL	0.98	mg/L	0.05	.			NF-SW9
X845054	X8K0022	NF-SW9MSD1	7440393	BA	1.03	mg/L	0.0019	.			NF-SW9
X845054	X8K0022	NF-SW9MSD1	7440417	BE	0.987	mg/L	0.0017	.			NF-SW9
X845054	X8K0022	NF-SW9MSD1	7440702	CA	35.4	mg/L	0.069	.			NF-SW9
X845054	X8K0022	NF-SW9MSD1	7440439	CD	1.02	mg/L	0.0016	.			NF-SW9
X845054	X8K0022	NF-SW9MSD1	7440484	CO	1.01	mg/L	0.0016	.			NF-SW9
X845054	X8K0022	NF-SW9MSD1	7440473	CR	0.976	mg/L	0.002	.			NF-SW9
X845054	X8K0022	NF-SW9MSD1	7440508	CU	0.968	mg/L	0.0027	.			NF-SW9
X845054	X8K0022	NF-SW9MSD1	7439896	FE	9.66	mg/L	0.056	.			NF-SW9
X845054	X8K0022	NF-SW9MSD1	7439954	MG	26.5	mg/L	0.32	.			NF-SW9
X845054	X8K0022	NF-SW9MSD1	7439965	MN	0.967	mg/L	0.0034	.			NF-SW9
X845054	X8K0022	NF-SW9MSD1	7440020	NI	0.974	mg/L	0.0023	.			NF-SW9
X845054	X8K0022	NF-SW9MSD1	7439921	PB	0.971	mg/L	0.0049	.			NF-SW9
X845054	X8K0022	NF-SW9MSD1	7782492	SE	1	mg/L	0.012	.			NF-SW9
X845054	X8K0022	NF-SW9MSD1	7440622	V	1.02	mg/L	0.0019	.			NF-SW9
X845054	X8K0022	NF-SW9MSD1	7440666	ZN	0.964	mg/L	0.005	.			NF-SW9

CASE NUMBER	SAMPLE DELIVERY GROUP	SAMPLE ID	CASNUM	ANALYTE	CONC	RESULT UNITS	MDL	FINAL VALIDATION QUALIFIER	IDEQ QUAL	COMB QUAL	STATLOC
X845055	X8K0022	PBW	7440224	AG	0.005	mg/L	0.0019	U		U	Blank
X845055	X8K0022	PBW	7429905	AL	0.08	mg/L	0.05	U		U	Blank
X845055	X8K0022	PBW	7440393	BA	0.002	mg/L	0.0019	U		U	Blank
X845055	X8K0022	PBW	7440417	BE	0.002	mg/L	0.0017	U		U	Blank
X845055	X8K0022	PBW	7440702	CA	0.1	mg/L	0.069	U		U	Blank
X845055	X8K0022	PBW	7440439	CD	0.002	mg/L	0.0016	U		U	Blank
X845055	X8K0022	PBW	7440484	CO	0.006	mg/L	0.0016	U		U	Blank
X845055	X8K0022	PBW	7440473	CR	0.006	mg/L	0.002	U		U	Blank
X845055	X8K0022	PBW	7440508	CU	0.01	mg/L	0.0027	U		U	Blank
X845055	X8K0022	PBW	7439896	FE	0.1	mg/L	0.056	U		U	Blank
X845055	X8K0022	PBW	7439954	MG	0.5	mg/L	0.32	U		U	Blank
X845055	X8K0022	PBW	7439965	MN	0.008	mg/L	0.0034	U		U	Blank
X845055	X8K0022	PBW	7440020	NI	0.01	mg/L	0.0023	U		U	Blank
X845055	X8K0022	PBW	7439921	PB	0.0075	mg/L	0.0049	U		U	Blank
X845055	X8K0022	PBW	7782492	SE	0.04	mg/L	0.012	U		U	Blank
X845055	X8K0022	PBW	7440622	V	0.005	mg/L	0.0019	U		U	Blank
X845055	X8K0022	PBW	7440666	ZN	0.01	mg/L	0.005	U		U	Blank
X845055	X8K0022	LCSW	7440224	AG	0.051	mg/L	0.0019	.			LCS
X845055	X8K0022	LCSW	7429905	AL	0.97	mg/L	0.05	.			LCS
X845055	X8K0022	LCSW	7440393	BA	1.01	mg/L	0.0019	.			LCS
X845055	X8K0022	LCSW	7440417	BE	0.994	mg/L	0.0017	.			LCS
X845055	X8K0022	LCSW	7440702	CA	18.5	mg/L	0.069	.			LCS
X845055	X8K0022	LCSW	7440439	CD	1.04	mg/L	0.0016	.			LCS
X845055	X8K0022	LCSW	7440484	CO	1.03	mg/L	0.0016	.			LCS
X845055	X8K0022	LCSW	7440473	CR	0.99	mg/L	0.002	.			LCS
X845055	X8K0022	LCSW	7440508	CU	0.982	mg/L	0.0027	.			LCS
X845055	X8K0022	LCSW	7439896	FE	9.73	mg/L	0.056	.			LCS
X845055	X8K0022	LCSW	7439954	MG	19.9	mg/L	0.32	.			LCS
X845055	X8K0022	LCSW	7439965	MN	0.974	mg/L	0.0034	.			LCS
X845055	X8K0022	LCSW	7440020	NI	0.996	mg/L	0.0023	.			LCS
X845055	X8K0022	LCSW	7439921	PB	0.993	mg/L	0.0049	.			LCS
X845055	X8K0022	LCSW	7782492	SE	1.03	mg/L	0.012	.			LCS
X845055	X8K0022	LCSW	7440622	V	1.03	mg/L	0.0019	.			LCS
X845055	X8K0022	LCSW	7440666	ZN	0.986	mg/L	0.005	.			LCS
X845055	X8K0022	NF-SW16MS1	7440224	AG	0.051	mg/L	0.0019	.			NF-SW16
X845055	X8K0022	NF-SW16MS1	7429905	AL	0.96	mg/L	0.05	.			NF-SW16
X845055	X8K0022	NF-SW16MS1	7440393	BA	0.998	mg/L	0.0019	.			NF-SW16
X845055	X8K0022	NF-SW16MS1	7440417	BE	0.984	mg/L	0.0017	.			NF-SW16
X845055	X8K0022	NF-SW16MS1	7440702	CA	18.3	mg/L	0.069	.			NF-SW16
X845055	X8K0022	NF-SW16MS1	7440439	CD	1.03	mg/L	0.0016	.			NF-SW16
X845055	X8K0022	NF-SW16MS1	7440484	CO	1.02	mg/L	0.0016	.			NF-SW16
X845055	X8K0022	NF-SW16MS1	7440473	CR	0.987	mg/L	0.002	.			NF-SW16
X845055	X8K0022	NF-SW16MS1	7440508	CU	0.979	mg/L	0.0027	.			NF-SW16
X845055	X8K0022	NF-SW16MS1	7439896	FE	9.64	mg/L	0.056	.			NF-SW16
X845055	X8K0022	NF-SW16MS1	7439954	MG	19.7	mg/L	0.32	.			NF-SW16
X845055	X8K0022	NF-SW16MS1	7439965	MN	0.962	mg/L	0.0034	.			NF-SW16
X845055	X8K0022	NF-SW16MS1	7440020	NI	0.986	mg/L	0.0023	.			NF-SW16
X845055	X8K0022	NF-SW16MS1	7439921	PB	0.979	mg/L	0.0049	.			NF-SW16
X845055	X8K0022	NF-SW16MS1	7782492	SE	1.01	mg/L	0.012	.			NF-SW16
X845055	X8K0022	NF-SW16MS1	7440622	V	1.03	mg/L	0.0019	.			NF-SW16
X845055	X8K0022	NF-SW16MS1	7440666	ZN	0.972	mg/L	0.005	.			NF-SW16
X845055	X8K0022	NF-SW16MSD1	7440224	AG	0.0502	mg/L	0.0019	.			NF-SW16
X845055	X8K0022	NF-SW16MSD1	7429905	AL	0.97	mg/L	0.05	.			NF-SW16
X845055	X8K0022	NF-SW16MSD1	7440393	BA	1.01	mg/L	0.0019	.			NF-SW16
X845055	X8K0022	NF-SW16MSD1	7440417	BE	0.998	mg/L	0.0017	.			NF-SW16
X845055	X8K0022	NF-SW16MSD1	7440702	CA	18.6	mg/L	0.069	.			NF-SW16
X845055	X8K0022	NF-SW16MSD1	7440439	CD	1.05	mg/L	0.0016	.			NF-SW16
X845055	X8K0022	NF-SW16MSD1	7440484	CO	1.04	mg/L	0.0016	.			NF-SW16
X845055	X8K0022	NF-SW16MSD1	7440473	CR	0.983	mg/L	0.002	.			NF-SW16
X845055	X8K0022	NF-SW16MSD1	7440508	CU	0.974	mg/L	0.0027	.			NF-SW16
X845055	X8K0022	NF-SW16MSD1	7439896	FE	9.81	mg/L	0.056	.			NF-SW16
X845055	X8K0022	NF-SW16MSD1	7439954	MG	20.1	mg/L	0.32	.			NF-SW16
X845055	X8K0022	NF-SW16MSD1	7439965	MN	0.982	mg/L	0.0034	.			NF-SW16
X845055	X8K0022	NF-SW16MSD1	7440020	NI	1.01	mg/L	0.0023	.			NF-SW16
X845055	X8K0022	NF-SW16MSD1	7439921	PB	1	mg/L	0.0049	.			NF-SW16
X845055	X8K0022	NF-SW16MSD1	7782492	SE	1.04	mg/L	0.012	.			NF-SW16
X845055	X8K0022	NF-SW16MSD1	7440622	V	1.02	mg/L	0.0019	.			NF-SW16
X845055	X8K0022	NF-SW16MSD1	7440666	ZN	0.994	mg/L	0.005	.			NF-SW16

CASE NUMBER	SAMPLE DELIVERY GROUP	SAMPLE ID	CASNUM	ANALYTE	CONC	RESULT UNITS	MDL	FINAL VALIDATION QUALIFIER	IDEQ QUAL	COMB QUAL	STATLOC
X845095	X8K0022	PBW	7440382	AS	0.00021	mg/L	0.00021	U		U	Blank
X845095	X8K0022	PBW	7440360	SB	0.003	mg/L	0.00023	U		U	Blank
X845095	X8K0022	PBW	7440280	TL	0.001	mg/L	0.00008	U		U	Blank
X845095	X8K0022	LCSW	7440382	AS	0.0249	mg/L	0.00021	.			LCS
X845095	X8K0022	LCSW	7440360	SB	0.0263	mg/L	0.00023	.			LCS
X845095	X8K0022	LCSW	7440280	TL	0.0254	mg/L	0.00008	.			LCS
X845095	X8K0022	NF-SW11MS1	7440382	AS	0.0256	mg/L	0.00021	.			NF-SW11
X845095	X8K0022	NF-SW11MS1	7440360	SB	0.026	mg/L	0.00023	.			NF-SW11
X845095	X8K0022	NF-SW11MS1	7440280	TL	0.025	mg/L	0.00008	.			NF-SW11
X845095	X8K0022	NF-SW11MSD1	7440382	AS	0.0251	mg/L	0.00021	.			NF-SW11
X845095	X8K0022	NF-SW11MSD1	7440360	SB	0.0257	mg/L	0.00023	.			NF-SW11
X845095	X8K0022	NF-SW11MSD1	7440280	TL	0.025	mg/L	0.00008	.			NF-SW11
X845097	X8K0022	PBW	7440382	AS	0.00021	mg/L	0.00021	U		U	Blank
X845097	X8K0022	PBW	7440360	SB	0.003	mg/L	0.00023	U		U	Blank
X845097	X8K0022	PBW	7440280	TL	0.001	mg/L	0.00008	U		U	Blank
X845097	X8K0022	LCSW	7440382	AS	0.0251	mg/L	0.00021	.			LCS
X845097	X8K0022	LCSW	7440360	SB	0.026	mg/L	0.00023	.			LCS
X845097	X8K0022	LCSW	7440280	TL	0.0248	mg/L	0.00008	.			LCS
X845097	X8K0022	NF-SW9MS1	7440382	AS	0.0255	mg/L	0.00021	.			NF-SW9
X845097	X8K0022	NF-SW9MS1	7440360	SB	0.0263	mg/L	0.00023	.			NF-SW9
X845097	X8K0022	NF-SW9MS1	7440280	TL	0.0247	mg/L	0.00008	.			NF-SW9
X845097	X8K0022	NF-SW9MSD1	7440382	AS	0.0255	mg/L	0.00021	.			NF-SW9
X845097	X8K0022	NF-SW9MSD1	7440360	SB	0.0266	mg/L	0.00023	.			NF-SW9
X845097	X8K0022	NF-SW9MSD1	7440280	TL	0.0249	mg/L	0.00008	.			NF-SW9
X845226	X8K0022	PBW	7439976	HG	0.0002	mg/L	0.000093	U		U	Blank
X845226	X8K0022	LCSW	7439976	HG	0.00519	mg/L	0.000093	.			LCS
X845226	X8K0022	NF-SW10MS1	7439976	HG	0.00109	mg/L	0.000093	.			NF-SW10
X845226	X8K0022	NF-SW15MS2	7439976	HG	0.00109	mg/L	0.000093	.			NF-SW15
X845226	X8K0022	NF-SW10MSD1	7439976	HG	0.00113	mg/L	0.000093	.			NF-SW10
X845228	X8K0022	PBW	7439976	HG	0.0002	mg/L	0.000093	U		U	Blank
X845228	X8K0022	LCSW	7439976	HG	0.00532	mg/L	0.000093	.			LCS
X845228	X8K0022	NF-SW19MS1	7439976	HG	0.00108	mg/L	0.000093	.			NF-SW19
X845228	X8K0022	NF-SW19MSD1	7439976	HG	0.0011	mg/L	0.000093	.			NF-SW19
X845054	X8K0022	NF-SW1	7440224	AG	0.005	mg/L	0.0019	U		U	NF-SW1
X845054	X8K0022	NF-SW1	7429905	AL	0.08	mg/L	0.05	U		U	NF-SW1
X845054	X8K0022	NF-SW1	7440393	BA	0.0166	mg/L	0.0019	.			NF-SW1
X845054	X8K0022	NF-SW1	7440417	BE	0.002	mg/L	0.0017	U		U	NF-SW1
X845054	X8K0022	NF-SW1	7440702	CA	4.86	mg/L	0.069	.			NF-SW1
X845054	X8K0022	NF-SW1	7440439	CD	0.002	mg/L	0.0016	U		U	NF-SW1
X845054	X8K0022	NF-SW1	7440484	CO	0.006	mg/L	0.0016	U		U	NF-SW1
X845054	X8K0022	NF-SW1	7440473	CR	0.006	mg/L	0.002	U		U	NF-SW1
X845054	X8K0022	NF-SW1	7440508	CU	0.01	mg/L	0.0027	U		U	NF-SW1
X845054	X8K0022	NF-SW1	7439896	FE	0.1	mg/L	0.056	U		U	NF-SW1
X845054	X8K0022	NF-SW1	7439954	MG	1.98	mg/L	0.32	.			NF-SW1
X845054	X8K0022	NF-SW1	7439965	MN	0.008	mg/L	0.0034	U		U	NF-SW1
X845054	X8K0022	NF-SW1	7440020	NI	0.01	mg/L	0.0023	U		U	NF-SW1
X845054	X8K0022	NF-SW1	7439921	PB	0.0075	mg/L	0.0049	U		U	NF-SW1
X845054	X8K0022	NF-SW1	7782492	SE	0.04	mg/L	0.012	U		U	NF-SW1
X845054	X8K0022	NF-SW1	7440622	V	0.005	mg/L	0.0019	U		U	NF-SW1
X845054	X8K0022	NF-SW1	7440666	ZN	0.01	mg/L	0.005	U		U	NF-SW1
X845097	X8K0022	NF-SW1	7440382	AS	0.00021	mg/L	0.00021	U		U	NF-SW1
X845097	X8K0022	NF-SW1	7440360	SB	0.003	mg/L	0.00023	U		U	NF-SW1
X845097	X8K0022	NF-SW1	7440280	TL	0.001	mg/L	0.00008	U		U	NF-SW1
X845226	X8K0022	NF-SW1	7439976	HG	0.0002	mg/L	0.000093	U		U	NF-SW1
X845054	X8K0022	NF-SW2	7440224	AG	0.005	mg/L	0.0019	U		U	NF-SW2
X845054	X8K0022	NF-SW2	7429905	AL	0.08	mg/L	0.05	U		U	NF-SW2
X845054	X8K0022	NF-SW2	7440393	BA	0.0124	mg/L	0.0019	.			NF-SW2
X845054	X8K0022	NF-SW2	7440417	BE	0.002	mg/L	0.0017	U		U	NF-SW2
X845054	X8K0022	NF-SW2	7440702	CA	3.89	mg/L	0.069	.			NF-SW2
X845054	X8K0022	NF-SW2	7440439	CD	0.002	mg/L	0.0016	U		U	NF-SW2
X845054	X8K0022	NF-SW2	7440484	CO	0.006	mg/L	0.0016	U		U	NF-SW2
X845054	X8K0022	NF-SW2	7440473	CR	0.006	mg/L	0.002	U		U	NF-SW2
X845054	X8K0022	NF-SW2	7440508	CU	0.01	mg/L	0.0027	U		U	NF-SW2
X845054	X8K0022	NF-SW2	7439896	FE	0.1	mg/L	0.056	U		U	NF-SW2
X845054	X8K0022	NF-SW2	7439954	MG	1.44	mg/L	0.32	.			NF-SW2
X845054	X8K0022	NF-SW2	7439965	MN	0.008	mg/L	0.0034	U		U	NF-SW2
X845054	X8K0022	NF-SW2	7440020	NI	0.01	mg/L	0.0023	U		U	NF-SW2
X845054	X8K0022	NF-SW2	7439921	PB	0.0075	mg/L	0.0049	U		U	NF-SW2

CASE NUMBER	SAMPLE DELIVERY GROUP	SAMPLE ID	CASNUM	ANALYTE	CONC	RESULT UNITS	MDL	FINAL VALIDATION QUALIFIER	IDEQ QUAL	COMB QUAL	STATLOC
X845054	X8K0022	NF-SW2	7782492	SE	0.04	mg/L	0.012	U		U	NF-SW2
X845054	X8K0022	NF-SW2	7440622	V	0.005	mg/L	0.0019	U		U	NF-SW2
X845054	X8K0022	NF-SW2	7440666	ZN	0.01	mg/L	0.005	U		U	NF-SW2
X845097	X8K0022	NF-SW2	7440382	AS	0.00021	mg/L	0.00021	U		U	NF-SW2
X845097	X8K0022	NF-SW2	7440360	SB	0.003	mg/L	0.00023	U		U	NF-SW2
X845097	X8K0022	NF-SW2	7440280	TL	0.001	mg/L	0.00008	U		U	NF-SW2
X845226	X8K0022	NF-SW2	7439976	HG	0.0002	mg/L	0.000093	U		U	NF-SW2
X845054	X8K0022	NF-SW3	7440224	AG	0.005	mg/L	0.0019	U		U	NF-SW3
X845054	X8K0022	NF-SW3	7429905	AL	0.08	mg/L	0.05	U		U	NF-SW3
X845054	X8K0022	NF-SW3	7440393	BA	0.0196	mg/L	0.0019	.			NF-SW3
X845054	X8K0022	NF-SW3	7440417	BE	0.002	mg/L	0.0017	U		U	NF-SW3
X845054	X8K0022	NF-SW3	7440702	CA	5.74	mg/L	0.069	.			NF-SW3
X845054	X8K0022	NF-SW3	7440439	CD	0.002	mg/L	0.0016	U		U	NF-SW3
X845054	X8K0022	NF-SW3	7440484	CO	0.006	mg/L	0.0016	U		U	NF-SW3
X845054	X8K0022	NF-SW3	7440473	CR	0.006	mg/L	0.002	U		U	NF-SW3
X845054	X8K0022	NF-SW3	7440508	CU	0.01	mg/L	0.0027	U		U	NF-SW3
X845054	X8K0022	NF-SW3	7439896	FE	0.1	mg/L	0.056	U		U	NF-SW3
X845054	X8K0022	NF-SW3	7439954	MG	2.45	mg/L	0.32	.			NF-SW3
X845054	X8K0022	NF-SW3	7439965	MN	0.008	mg/L	0.0034	U		U	NF-SW3
X845054	X8K0022	NF-SW3	7440020	NI	0.01	mg/L	0.0023	U		U	NF-SW3
X845054	X8K0022	NF-SW3	7439921	PB	0.0075	mg/L	0.0049	U		U	NF-SW3
X845054	X8K0022	NF-SW3	7782492	SE	0.04	mg/L	0.012	U		U	NF-SW3
X845054	X8K0022	NF-SW3	7440622	V	0.005	mg/L	0.0019	U		U	NF-SW3
X845054	X8K0022	NF-SW3	7440666	ZN	0.01	mg/L	0.005	.			NF-SW3
X845097	X8K0022	NF-SW3	7440382	AS	0.00021	mg/L	0.00021	U		U	NF-SW3
X845097	X8K0022	NF-SW3	7440360	SB	0.003	mg/L	0.00023	U		U	NF-SW3
X845097	X8K0022	NF-SW3	7440280	TL	0.001	mg/L	0.00008	U		U	NF-SW3
X845226	X8K0022	NF-SW3	7439976	HG	0.0002	mg/L	0.000093	U		U	NF-SW3
X845054	X8K0022	NF-SW4	7440224	AG	0.005	mg/L	0.0019	U		U	NF-SW4
X845054	X8K0022	NF-SW4	7429905	AL	0.08	mg/L	0.05	U		U	NF-SW4
X845054	X8K0022	NF-SW4	7440393	BA	0.009	mg/L	0.0019	.			NF-SW4
X845054	X8K0022	NF-SW4	7440417	BE	0.002	mg/L	0.0017	U		U	NF-SW4
X845054	X8K0022	NF-SW4	7440702	CA	1.66	mg/L	0.069	.			NF-SW4
X845054	X8K0022	NF-SW4	7440439	CD	0.002	mg/L	0.0016	U		U	NF-SW4
X845054	X8K0022	NF-SW4	7440484	CO	0.006	mg/L	0.0016	U		U	NF-SW4
X845054	X8K0022	NF-SW4	7440473	CR	0.006	mg/L	0.002	U		U	NF-SW4
X845054	X8K0022	NF-SW4	7440508	CU	0.01	mg/L	0.0027	U		U	NF-SW4
X845054	X8K0022	NF-SW4	7439896	FE	0.1	mg/L	0.056	U		U	NF-SW4
X845054	X8K0022	NF-SW4	7439954	MG	0.5	mg/L	0.32	U		U	NF-SW4
X845054	X8K0022	NF-SW4	7439965	MN	0.008	mg/L	0.0034	U		U	NF-SW4
X845054	X8K0022	NF-SW4	7440020	NI	0.01	mg/L	0.0023	U		U	NF-SW4
X845054	X8K0022	NF-SW4	7439921	PB	0.0075	mg/L	0.0049	U		U	NF-SW4
X845054	X8K0022	NF-SW4	7782492	SE	0.04	mg/L	0.012	U		U	NF-SW4
X845054	X8K0022	NF-SW4	7440622	V	0.005	mg/L	0.0019	U		U	NF-SW4
X845054	X8K0022	NF-SW4	7440666	ZN	0.01	mg/L	0.005	U		U	NF-SW4
X845097	X8K0022	NF-SW4	7440382	AS	0.00021	mg/L	0.00021	U		U	NF-SW4
X845097	X8K0022	NF-SW4	7440360	SB	0.003	mg/L	0.00023	U		U	NF-SW4
X845097	X8K0022	NF-SW4	7440280	TL	0.001	mg/L	0.00008	U		U	NF-SW4
X845226	X8K0022	NF-SW4	7439976	HG	0.0002	mg/L	0.000093	U		U	NF-SW4
X845054	X8K0022	NF-SW5	7440224	AG	0.005	mg/L	0.0019	U		U	NF-SW5
X845054	X8K0022	NF-SW5	7429905	AL	0.08	mg/L	0.05	U		U	NF-SW5
X845054	X8K0022	NF-SW5	7440393	BA	0.0175	mg/L	0.0019	.			NF-SW5
X845054	X8K0022	NF-SW5	7440417	BE	0.002	mg/L	0.0017	U		U	NF-SW5
X845054	X8K0022	NF-SW5	7440702	CA	5.4	mg/L	0.069	.			NF-SW5
X845054	X8K0022	NF-SW5	7440439	CD	0.002	mg/L	0.0016	U		U	NF-SW5
X845054	X8K0022	NF-SW5	7440484	CO	0.006	mg/L	0.0016	U		U	NF-SW5
X845054	X8K0022	NF-SW5	7440473	CR	0.006	mg/L	0.002	U		U	NF-SW5
X845054	X8K0022	NF-SW5	7440508	CU	0.01	mg/L	0.0027	U		U	NF-SW5
X845054	X8K0022	NF-SW5	7439896	FE	0.1	mg/L	0.056	U		U	NF-SW5
X845054	X8K0022	NF-SW5	7439954	MG	2.3	mg/L	0.32	.			NF-SW5
X845054	X8K0022	NF-SW5	7439965	MN	0.008	mg/L	0.0034	U		U	NF-SW5
X845054	X8K0022	NF-SW5	7440020	NI	0.01	mg/L	0.0023	U		U	NF-SW5
X845054	X8K0022	NF-SW5	7439921	PB	0.0075	mg/L	0.0049	U		U	NF-SW5
X845054	X8K0022	NF-SW5	7782492	SE	0.04	mg/L	0.012	U		U	NF-SW5
X845054	X8K0022	NF-SW5	7440622	V	0.005	mg/L	0.0019	U		U	NF-SW5
X845054	X8K0022	NF-SW5	7440666	ZN	0.01	mg/L	0.005	U		U	NF-SW5
X845097	X8K0022	NF-SW5	7440382	AS	0.00021	mg/L	0.00021	U		U	NF-SW5
X845097	X8K0022	NF-SW5	7440360	SB	0.003	mg/L	0.00023	U		U	NF-SW5

CASE NUMBER	SAMPLE DELIVERY GROUP	SAMPLE ID	CASNUM	ANALYTE	CONC	RESULT UNITS	MDL	FINAL VALIDATION QUALIFIER	IDEQ QUAL	COMB QUAL	STATLOC
X845097	X8K0022	NF-SW5	7440280	TL	0.001	mg/L	0.00008	U		U	NF-SW5
X845226	X8K0022	NF-SW5	7439976	HG	0.0002	mg/L	0.000093	U		U	NF-SW5
X845054	X8K0022	NF-SW6	7440224	AG	0.005	mg/L	0.0019	U		U	NF-SW6
X845054	X8K0022	NF-SW6	7429905	AL	0.08	mg/L	0.05	U		U	NF-SW6
X845054	X8K0022	NF-SW6	7440393	BA	0.0183	mg/L	0.0019	.			NF-SW6
X845054	X8K0022	NF-SW6	7440417	BE	0.002	mg/L	0.0017	U		U	NF-SW6
X845054	X8K0022	NF-SW6	7440702	CA	5.75	mg/L	0.069	.			NF-SW6
X845054	X8K0022	NF-SW6	7440439	CD	0.002	mg/L	0.0016	U		U	NF-SW6
X845054	X8K0022	NF-SW6	7440484	CO	0.006	mg/L	0.0016	U		U	NF-SW6
X845054	X8K0022	NF-SW6	7440473	CR	0.006	mg/L	0.002	U		U	NF-SW6
X845054	X8K0022	NF-SW6	7440508	CU	0.01	mg/L	0.0027	U		U	NF-SW6
X845054	X8K0022	NF-SW6	7439896	FE	0.1	mg/L	0.056	U		U	NF-SW6
X845054	X8K0022	NF-SW6	7439954	MG	2.41	mg/L	0.32	.			NF-SW6
X845054	X8K0022	NF-SW6	7439965	MN	0.008	mg/L	0.0034	U		U	NF-SW6
X845054	X8K0022	NF-SW6	7440020	NI	0.01	mg/L	0.0023	U		U	NF-SW6
X845054	X8K0022	NF-SW6	7439921	PB	0.0075	mg/L	0.0049	U		U	NF-SW6
X845054	X8K0022	NF-SW6	7782492	SE	0.04	mg/L	0.012	U		U	NF-SW6
X845054	X8K0022	NF-SW6	7440622	V	0.005	mg/L	0.0019	U		U	NF-SW6
X845054	X8K0022	NF-SW6	7440666	ZN	0.01	mg/L	0.005	U		U	NF-SW6
X845097	X8K0022	NF-SW6	7440382	AS	0.00021	mg/L	0.00021	U		U	NF-SW6
X845097	X8K0022	NF-SW6	7440360	SB	0.003	mg/L	0.00023	U		U	NF-SW6
X845097	X8K0022	NF-SW6	7440280	TL	0.001	mg/L	0.00008	U		U	NF-SW6
X845226	X8K0022	NF-SW6	7439976	HG	0.0002	mg/L	0.000093	U		U	NF-SW6
X845054	X8K0022	NF-SW7	7440224	AG	0.005	mg/L	0.0019	U		U	NF-SW7
X845054	X8K0022	NF-SW7	7429905	AL	0.08	mg/L	0.05	U		U	NF-SW7
X845054	X8K0022	NF-SW7	7440393	BA	0.0247	mg/L	0.0019	.			NF-SW7
X845054	X8K0022	NF-SW7	7440417	BE	0.002	mg/L	0.0017	U		U	NF-SW7
X845054	X8K0022	NF-SW7	7440702	CA	6.07	mg/L	0.069	.			NF-SW7
X845054	X8K0022	NF-SW7	7440439	CD	0.002	mg/L	0.0016	U		U	NF-SW7
X845054	X8K0022	NF-SW7	7440484	CO	0.006	mg/L	0.0016	U		U	NF-SW7
X845054	X8K0022	NF-SW7	7440473	CR	0.006	mg/L	0.002	U		U	NF-SW7
X845054	X8K0022	NF-SW7	7440508	CU	0.01	mg/L	0.0027	U		U	NF-SW7
X845054	X8K0022	NF-SW7	7439896	FE	0.1	mg/L	0.056	U		U	NF-SW7
X845054	X8K0022	NF-SW7	7439954	MG	3.55	mg/L	0.32	.			NF-SW7
X845054	X8K0022	NF-SW7	7439965	MN	0.008	mg/L	0.0034	U		U	NF-SW7
X845054	X8K0022	NF-SW7	7440020	NI	0.01	mg/L	0.0023	U		U	NF-SW7
X845054	X8K0022	NF-SW7	7439921	PB	0.0075	mg/L	0.0049	U		U	NF-SW7
X845054	X8K0022	NF-SW7	7782492	SE	0.04	mg/L	0.012	U		U	NF-SW7
X845054	X8K0022	NF-SW7	7440622	V	0.005	mg/L	0.0019	U		U	NF-SW7
X845054	X8K0022	NF-SW7	7440666	ZN	0.01	mg/L	0.005	U		U	NF-SW7
X845097	X8K0022	NF-SW7	7440382	AS	0.00021	mg/L	0.00021	U		U	NF-SW7
X845097	X8K0022	NF-SW7	7440360	SB	0.003	mg/L	0.00023	U		U	NF-SW7
X845097	X8K0022	NF-SW7	7440280	TL	0.001	mg/L	0.00008	U		U	NF-SW7
X845226	X8K0022	NF-SW7	7439976	HG	0.0002	mg/L	0.000093	U		U	NF-SW7
X845054	X8K0022	NF-SW8	7440224	AG	0.005	mg/L	0.0019	U		U	NF-SW8
X845054	X8K0022	NF-SW8	7429905	AL	0.08	mg/L	0.05	U		U	NF-SW8
X845054	X8K0022	NF-SW8	7440393	BA	0.002	mg/L	0.0019	U		U	NF-SW8
X845054	X8K0022	NF-SW8	7440417	BE	0.002	mg/L	0.0017	U		U	NF-SW8
X845054	X8K0022	NF-SW8	7440702	CA	0.1	mg/L	0.069	U		U	NF-SW8
X845054	X8K0022	NF-SW8	7440439	CD	0.002	mg/L	0.0016	U		U	NF-SW8
X845054	X8K0022	NF-SW8	7440484	CO	0.006	mg/L	0.0016	U		U	NF-SW8
X845054	X8K0022	NF-SW8	7440473	CR	0.006	mg/L	0.002	U		U	NF-SW8
X845054	X8K0022	NF-SW8	7440508	CU	0.01	mg/L	0.0027	U		U	NF-SW8
X845054	X8K0022	NF-SW8	7439896	FE	0.1	mg/L	0.056	U		U	NF-SW8
X845054	X8K0022	NF-SW8	7439954	MG	0.5	mg/L	0.32	U		U	NF-SW8
X845054	X8K0022	NF-SW8	7439965	MN	0.008	mg/L	0.0034	U		U	NF-SW8
X845054	X8K0022	NF-SW8	7440020	NI	0.01	mg/L	0.0023	U		U	NF-SW8
X845054	X8K0022	NF-SW8	7439921	PB	0.0075	mg/L	0.0049	U		U	NF-SW8
X845054	X8K0022	NF-SW8	7782492	SE	0.04	mg/L	0.012	U		U	NF-SW8
X845054	X8K0022	NF-SW8	7440622	V	0.005	mg/L	0.0019	U		U	NF-SW8
X845054	X8K0022	NF-SW8	7440666	ZN	0.01	mg/L	0.005	U		U	NF-SW8
X845097	X8K0022	NF-SW8	7440382	AS	0.00021	mg/L	0.00021	U		U	NF-SW8
X845097	X8K0022	NF-SW8	7440360	SB	0.003	mg/L	0.00023	U		U	NF-SW8
X845097	X8K0022	NF-SW8	7440280	TL	0.001	mg/L	0.00008	U		U	NF-SW8
X845226	X8K0022	NF-SW8	7439976	HG	0.0002	mg/L	0.000093	U		U	NF-SW8
X845054	X8K0022	NF-SW9	7440224	AG	0.005	mg/L	0.0019	U		U	NF-SW9
X845054	X8K0022	NF-SW9	7429905	AL	0.08	mg/L	0.05	U		U	NF-SW9
X845054	X8K0022	NF-SW9	7440393	BA	0.0256	mg/L	0.0019	.			NF-SW9

CASE NUMBER	SAMPLE DELIVERY GROUP	SAMPLE ID	CASNUM	ANALYTE	CONC	RESULT UNITS	MDL	FINAL VALIDATION QUALIFIER	IDEQ QUAL	COMB QUAL	STATLOC
X845054	X8K0022	NF-SW9	7440417	BE	0.002	mg/L	0.0017	U		U	NF-SW9
X845054	X8K0022	NF-SW9	7440702	CA	17.5	mg/L	0.069	.			NF-SW9
X845054	X8K0022	NF-SW9	7440439	CD	0.002	mg/L	0.0016	U		U	NF-SW9
X845054	X8K0022	NF-SW9	7440484	CO	0.006	mg/L	0.0016	U		U	NF-SW9
X845054	X8K0022	NF-SW9	7440473	CR	0.006	mg/L	0.002	U		U	NF-SW9
X845054	X8K0022	NF-SW9	7440508	CU	0.01	mg/L	0.0027	U		U	NF-SW9
X845054	X8K0022	NF-SW9	7439896	FE	0.1	mg/L	0.056	U		U	NF-SW9
X845054	X8K0022	NF-SW9	7439954	MG	6.84	mg/L	0.32	.			NF-SW9
X845054	X8K0022	NF-SW9	7439965	MN	0.008	mg/L	0.0034	U		U	NF-SW9
X845054	X8K0022	NF-SW9	7440020	NI	0.01	mg/L	0.0023	U		U	NF-SW9
X845054	X8K0022	NF-SW9	7439921	PB	0.0075	mg/L	0.0049	U		U	NF-SW9
X845054	X8K0022	NF-SW9	7782492	SE	0.04	mg/L	0.012	U		U	NF-SW9
X845054	X8K0022	NF-SW9	7440622	V	0.005	mg/L	0.0019	U		U	NF-SW9
X845054	X8K0022	NF-SW9	7440666	ZN	0.01	mg/L	0.005	U		U	NF-SW9
X845097	X8K0022	NF-SW9	7440382	AS	0.00025	mg/L	0.00021	J		J	NF-SW9
X845097	X8K0022	NF-SW9	7440360	SB	0.003	mg/L	0.00023	U		U	NF-SW9
X845097	X8K0022	NF-SW9	7440280	TL	0.001	mg/L	0.00008	U		U	NF-SW9
X845226	X8K0022	NF-SW9	7439976	HG	0.0005	mg/L	0.00023	U		U	NF-SW9
X845054	X8K0022	NF-SW10	7440224	AG	0.005	mg/L	0.0019	U		U	NF-SW10
X845054	X8K0022	NF-SW10	7429905	AL	0.08	mg/L	0.05	U		U	NF-SW10
X845054	X8K0022	NF-SW10	7440393	BA	0.0166	mg/L	0.0019	.			NF-SW10
X845054	X8K0022	NF-SW10	7440417	BE	0.002	mg/L	0.0017	U		U	NF-SW10
X845054	X8K0022	NF-SW10	7440702	CA	8.43	mg/L	0.069	.			NF-SW10
X845054	X8K0022	NF-SW10	7440439	CD	0.002	mg/L	0.0016	U		U	NF-SW10
X845054	X8K0022	NF-SW10	7440484	CO	0.006	mg/L	0.0016	U		U	NF-SW10
X845054	X8K0022	NF-SW10	7440473	CR	0.006	mg/L	0.002	U		U	NF-SW10
X845054	X8K0022	NF-SW10	7440508	CU	0.01	mg/L	0.0027	U		U	NF-SW10
X845054	X8K0022	NF-SW10	7439896	FE	0.1	mg/L	0.056	U		U	NF-SW10
X845054	X8K0022	NF-SW10	7439954	MG	3.03	mg/L	0.32	.			NF-SW10
X845054	X8K0022	NF-SW10	7439965	MN	0.008	mg/L	0.0034	U		U	NF-SW10
X845054	X8K0022	NF-SW10	7440020	NI	0.01	mg/L	0.0023	U		U	NF-SW10
X845054	X8K0022	NF-SW10	7439921	PB	0.0075	mg/L	0.0049	U		U	NF-SW10
X845054	X8K0022	NF-SW10	7782492	SE	0.04	mg/L	0.012	U		U	NF-SW10
X845054	X8K0022	NF-SW10	7440622	V	0.005	mg/L	0.0019	U		U	NF-SW10
X845054	X8K0022	NF-SW10	7440666	ZN	0.012	mg/L	0.005	.			NF-SW10
X845097	X8K0022	NF-SW10	7440382	AS	0.00022	mg/L	0.00021	J		J	NF-SW10
X845097	X8K0022	NF-SW10	7440360	SB	0.003	mg/L	0.00023	U		U	NF-SW10
X845097	X8K0022	NF-SW10	7440280	TL	0.001	mg/L	0.00008	U		U	NF-SW10
X845226	X8K0022	NF-SW10	7439976	HG	0.0002	mg/L	0.000093	U		U	NF-SW10
X845054	X8K0022	NF-SW11	7440224	AG	0.005	mg/L	0.0019	U		U	NF-SW11
X845054	X8K0022	NF-SW11	7429905	AL	0.08	mg/L	0.05	U		U	NF-SW11
X845054	X8K0022	NF-SW11	7440393	BA	0.0196	mg/L	0.0019	.			NF-SW11
X845054	X8K0022	NF-SW11	7440417	BE	0.002	mg/L	0.0017	U		U	NF-SW11
X845054	X8K0022	NF-SW11	7440702	CA	6.8	mg/L	0.069	.			NF-SW11
X845054	X8K0022	NF-SW11	7440439	CD	0.002	mg/L	0.0016	U		U	NF-SW11
X845054	X8K0022	NF-SW11	7440484	CO	0.006	mg/L	0.0016	U		U	NF-SW11
X845054	X8K0022	NF-SW11	7440473	CR	0.006	mg/L	0.002	U		U	NF-SW11
X845054	X8K0022	NF-SW11	7440508	CU	0.01	mg/L	0.0027	U		U	NF-SW11
X845054	X8K0022	NF-SW11	7439896	FE	0.1	mg/L	0.056	U		U	NF-SW11
X845054	X8K0022	NF-SW11	7439954	MG	2.81	mg/L	0.32	.			NF-SW11
X845054	X8K0022	NF-SW11	7439965	MN	0.008	mg/L	0.0034	U		U	NF-SW11
X845054	X8K0022	NF-SW11	7440020	NI	0.01	mg/L	0.0023	U		U	NF-SW11
X845054	X8K0022	NF-SW11	7439921	PB	0.0075	mg/L	0.0049	U		U	NF-SW11
X845054	X8K0022	NF-SW11	7782492	SE	0.04	mg/L	0.012	U		U	NF-SW11
X845054	X8K0022	NF-SW11	7440622	V	0.005	mg/L	0.0019	U		U	NF-SW11
X845054	X8K0022	NF-SW11	7440666	ZN	0.01	mg/L	0.005	U		U	NF-SW11
X845095	X8K0022	NF-SW11	7440382	AS	0.00021	mg/L	0.00021	U		U	NF-SW11
X845095	X8K0022	NF-SW11	7440360	SB	0.003	mg/L	0.00023	U		U	NF-SW11
X845095	X8K0022	NF-SW11	7440280	TL	0.001	mg/L	0.00008	U		U	NF-SW11
X845226	X8K0022	NF-SW11	7439976	HG	0.0002	mg/L	0.000093	U		U	NF-SW11
X845054	X8K0022	NF-SW12	7440224	AG	0.005	mg/L	0.0019	U		U	NF-SW12
X845054	X8K0022	NF-SW12	7429905	AL	0.08	mg/L	0.05	U		U	NF-SW12
X845054	X8K0022	NF-SW12	7440393	BA	0.0207	mg/L	0.0019	.			NF-SW12
X845054	X8K0022	NF-SW12	7440417	BE	0.002	mg/L	0.0017	U		U	NF-SW12
X845054	X8K0022	NF-SW12	7440702	CA	6	mg/L	0.069	.			NF-SW12
X845054	X8K0022	NF-SW12	7440439	CD	0.002	mg/L	0.0016	U		U	NF-SW12
X845054	X8K0022	NF-SW12	7440484	CO	0.006	mg/L	0.0016	U		U	NF-SW12
X845054	X8K0022	NF-SW12	7440473	CR	0.006	mg/L	0.002	U		U	NF-SW12

CASE NUMBER	SAMPLE DELIVERY GROUP	SAMPLE ID	CASNUM	ANALYTE	CONC	RESULT UNITS	MDL	FINAL VALIDATION QUALIFIER	IDEQ QUAL	COMB QUAL	STATLOC
X845054	X8K0022	NF-SW12	7440508	CU	0.01	mg/L	0.0027	U		U	NF-SW12
X845054	X8K0022	NF-SW12	7439896	FE	0.1	mg/L	0.056	U		U	NF-SW12
X845054	X8K0022	NF-SW12	7439954	MG	2.68	mg/L	0.32	.			NF-SW12
X845054	X8K0022	NF-SW12	7439965	MN	0.008	mg/L	0.0034	U		U	NF-SW12
X845054	X8K0022	NF-SW12	7440020	NI	0.01	mg/L	0.0023	U		U	NF-SW12
X845054	X8K0022	NF-SW12	7439921	PB	0.0075	mg/L	0.0049	U		U	NF-SW12
X845054	X8K0022	NF-SW12	7782492	SE	0.04	mg/L	0.012	U		U	NF-SW12
X845054	X8K0022	NF-SW12	7440622	V	0.005	mg/L	0.0019	U		U	NF-SW12
X845054	X8K0022	NF-SW12	7440666	ZN	0.01	mg/L	0.005	U		U	NF-SW12
X845095	X8K0022	NF-SW12	7440382	AS	0.00021	mg/L	0.00021	U		U	NF-SW12
X845095	X8K0022	NF-SW12	7440360	SB	0.003	mg/L	0.00023	U		U	NF-SW12
X845095	X8K0022	NF-SW12	7440280	TL	0.001	mg/L	0.00008	U		U	NF-SW12
X845226	X8K0022	NF-SW12	7439976	HG	0.0002	mg/L	0.000093	U		U	NF-SW12
X845054	X8K0022	NF-SW13	7440224	AG	0.005	mg/L	0.0019	U		U	NF-SW13
X845054	X8K0022	NF-SW13	7429905	AL	0.08	mg/L	0.05	U		U	NF-SW13
X845054	X8K0022	NF-SW13	7440393	BA	0.0203	mg/L	0.0019	.			NF-SW13
X845054	X8K0022	NF-SW13	7440417	BE	0.002	mg/L	0.0017	U		U	NF-SW13
X845054	X8K0022	NF-SW13	7440702	CA	5.98	mg/L	0.069	.			NF-SW13
X845054	X8K0022	NF-SW13	7440439	CD	0.002	mg/L	0.0016	U		U	NF-SW13
X845054	X8K0022	NF-SW13	7440484	CO	0.006	mg/L	0.0016	U		U	NF-SW13
X845054	X8K0022	NF-SW13	7440473	CR	0.006	mg/L	0.002	U		U	NF-SW13
X845054	X8K0022	NF-SW13	7440508	CU	0.01	mg/L	0.0027	U		U	NF-SW13
X845054	X8K0022	NF-SW13	7439896	FE	0.1	mg/L	0.056	U		U	NF-SW13
X845054	X8K0022	NF-SW13	7439954	MG	2.69	mg/L	0.32	.			NF-SW13
X845054	X8K0022	NF-SW13	7439965	MN	0.008	mg/L	0.0034	U		U	NF-SW13
X845054	X8K0022	NF-SW13	7440020	NI	0.01	mg/L	0.0023	U		U	NF-SW13
X845054	X8K0022	NF-SW13	7439921	PB	0.0075	mg/L	0.0049	U		U	NF-SW13
X845054	X8K0022	NF-SW13	7782492	SE	0.04	mg/L	0.012	U		U	NF-SW13
X845054	X8K0022	NF-SW13	7440622	V	0.005	mg/L	0.0019	U		U	NF-SW13
X845054	X8K0022	NF-SW13	7440666	ZN	0.01	mg/L	0.005	U		U	NF-SW13
X845095	X8K0022	NF-SW13	7440382	AS	0.00021	mg/L	0.00021	U		U	NF-SW13
X845095	X8K0022	NF-SW13	7440360	SB	0.003	mg/L	0.00023	U		U	NF-SW13
X845095	X8K0022	NF-SW13	7440280	TL	0.001	mg/L	0.00008	U		U	NF-SW13
X845226	X8K0022	NF-SW13	7439976	HG	0.0002	mg/L	0.000093	U		U	NF-SW13
X845054	X8K0022	NF-SW14	7440224	AG	0.005	mg/L	0.0019	U		U	NF-SW14
X845054	X8K0022	NF-SW14	7429905	AL	0.08	mg/L	0.05	U		U	NF-SW14
X845054	X8K0022	NF-SW14	7440393	BA	0.0177	mg/L	0.0019	.			NF-SW14
X845054	X8K0022	NF-SW14	7440417	BE	0.002	mg/L	0.0017	U		U	NF-SW14
X845054	X8K0022	NF-SW14	7440702	CA	3.2	mg/L	0.069	.			NF-SW14
X845054	X8K0022	NF-SW14	7440439	CD	0.002	mg/L	0.0016	U		U	NF-SW14
X845054	X8K0022	NF-SW14	7440484	CO	0.006	mg/L	0.0016	U		U	NF-SW14
X845054	X8K0022	NF-SW14	7440473	CR	0.006	mg/L	0.002	U		U	NF-SW14
X845054	X8K0022	NF-SW14	7440508	CU	0.01	mg/L	0.0027	U		U	NF-SW14
X845054	X8K0022	NF-SW14	7439896	FE	0.1	mg/L	0.056	U		U	NF-SW14
X845054	X8K0022	NF-SW14	7439954	MG	1.11	mg/L	0.32	.			NF-SW14
X845054	X8K0022	NF-SW14	7439965	MN	0.008	mg/L	0.0034	U		U	NF-SW14
X845054	X8K0022	NF-SW14	7440020	NI	0.01	mg/L	0.0023	U		U	NF-SW14
X845054	X8K0022	NF-SW14	7439921	PB	0.0075	mg/L	0.0049	U		U	NF-SW14
X845054	X8K0022	NF-SW14	7782492	SE	0.04	mg/L	0.012	U		U	NF-SW14
X845054	X8K0022	NF-SW14	7440622	V	0.005	mg/L	0.0019	U		U	NF-SW14
X845054	X8K0022	NF-SW14	7440666	ZN	0.024	mg/L	0.005	.			NF-SW14
X845095	X8K0022	NF-SW14	7440382	AS	0.00022	mg/L	0.00021	J		J	NF-SW14
X845095	X8K0022	NF-SW14	7440360	SB	0.003	mg/L	0.00023	U		U	NF-SW14
X845095	X8K0022	NF-SW14	7440280	TL	0.001	mg/L	0.00008	U		U	NF-SW14
X845226	X8K0022	NF-SW14	7439976	HG	0.0002	mg/L	0.000093	U		U	NF-SW14
X845054	X8K0022	NF-SW15	7440224	AG	0.005	mg/L	0.0019	U		U	NF-SW15
X845054	X8K0022	NF-SW15	7429905	AL	0.08	mg/L	0.05	U		U	NF-SW15
X845054	X8K0022	NF-SW15	7440393	BA	0.0196	mg/L	0.0019	.			NF-SW15
X845054	X8K0022	NF-SW15	7440417	BE	0.002	mg/L	0.0017	U		U	NF-SW15
X845054	X8K0022	NF-SW15	7440702	CA	5.37	mg/L	0.069	.			NF-SW15
X845054	X8K0022	NF-SW15	7440439	CD	0.002	mg/L	0.0016	U		U	NF-SW15
X845054	X8K0022	NF-SW15	7440484	CO	0.006	mg/L	0.0016	U		U	NF-SW15
X845054	X8K0022	NF-SW15	7440473	CR	0.006	mg/L	0.002	U		U	NF-SW15
X845054	X8K0022	NF-SW15	7440508	CU	0.01	mg/L	0.0027	U		U	NF-SW15
X845054	X8K0022	NF-SW15	7439896	FE	0.1	mg/L	0.056	U		U	NF-SW15
X845054	X8K0022	NF-SW15	7439954	MG	2.31	mg/L	0.32	.			NF-SW15
X845054	X8K0022	NF-SW15	7439965	MN	0.008	mg/L	0.0034	U		U	NF-SW15
X845054	X8K0022	NF-SW15	7440020	NI	0.01	mg/L	0.0023	U		U	NF-SW15

CASE NUMBER	SAMPLE DELIVERY GROUP	SAMPLE ID	CASNUM	ANALYTE	CONC	RESULT UNITS	MDL	FINAL VALIDATION QUALIFIER	IDEQ QUAL	COMB QUAL	STATLOC
X845054	X8K0022	NF-SW15	7439921	PB	0.0075	mg/L	0.0049	U		U	NF-SW15
X845054	X8K0022	NF-SW15	7782492	SE	0.04	mg/L	0.012	U		U	NF-SW15
X845054	X8K0022	NF-SW15	7440622	V	0.005	mg/L	0.0019	U		U	NF-SW15
X845054	X8K0022	NF-SW15	7440666	ZN	0.01	mg/L	0.005	U		U	NF-SW15
X845095	X8K0022	NF-SW15	7440382	AS	0.00021	mg/L	0.00021	U		U	NF-SW15
X845095	X8K0022	NF-SW15	7440360	SB	0.003	mg/L	0.00023	U		U	NF-SW15
X845095	X8K0022	NF-SW15	7440280	TL	0.001	mg/L	0.00008	U		U	NF-SW15
X845226	X8K0022	NF-SW15	7439976	HG	0.0002	mg/L	0.000093	U		U	NF-SW15
X845055	X8K0022	NF-SW16	7440224	AG	0.005	mg/L	0.0019	U		U	NF-SW16
X845055	X8K0022	NF-SW16	7429905	AL	0.08	mg/L	0.05	U		U	NF-SW16
X845055	X8K0022	NF-SW16	7440393	BA	0.002	mg/L	0.0019	U		U	NF-SW16
X845055	X8K0022	NF-SW16	7440417	BE	0.002	mg/L	0.0017	U		U	NF-SW16
X845055	X8K0022	NF-SW16	7440702	CA	0.1	mg/L	0.069	U		U	NF-SW16
X845055	X8K0022	NF-SW16	7440439	CD	0.002	mg/L	0.0016	U		U	NF-SW16
X845055	X8K0022	NF-SW16	7440484	CO	0.006	mg/L	0.0016	U		U	NF-SW16
X845055	X8K0022	NF-SW16	7440473	CR	0.006	mg/L	0.002	U		U	NF-SW16
X845055	X8K0022	NF-SW16	7440508	CU	0.01	mg/L	0.0027	U		U	NF-SW16
X845055	X8K0022	NF-SW16	7439896	FE	0.1	mg/L	0.056	U		U	NF-SW16
X845055	X8K0022	NF-SW16	7439954	MG	0.5	mg/L	0.32	U		U	NF-SW16
X845055	X8K0022	NF-SW16	7439965	MN	0.008	mg/L	0.0034	U		U	NF-SW16
X845055	X8K0022	NF-SW16	7440020	NI	0.01	mg/L	0.0023	U		U	NF-SW16
X845055	X8K0022	NF-SW16	7439921	PB	0.0075	mg/L	0.0049	U		U	NF-SW16
X845055	X8K0022	NF-SW16	7782492	SE	0.04	mg/L	0.012	U		U	NF-SW16
X845055	X8K0022	NF-SW16	7440622	V	0.005	mg/L	0.0019	U		U	NF-SW16
X845055	X8K0022	NF-SW16	7440666	ZN	0.01	mg/L	0.005	U		U	NF-SW16
X845095	X8K0022	NF-SW16	7440382	AS	0.00021	mg/L	0.00021	U		U	NF-SW16
X845095	X8K0022	NF-SW16	7440360	SB	0.003	mg/L	0.00023	U		U	NF-SW16
X845095	X8K0022	NF-SW16	7440280	TL	0.001	mg/L	0.00008	U		U	NF-SW16
X845228	X8K0022	NF-SW16	7439976	HG	0.0002	mg/L	0.000093	U		U	NF-SW16
X845055	X8K0022	NF-SW17	7440224	AG	0.005	mg/L	0.0019	U		U	NF-SW17
X845055	X8K0022	NF-SW17	7429905	AL	0.08	mg/L	0.05	U		U	NF-SW17
X845055	X8K0022	NF-SW17	7440393	BA	0.0202	mg/L	0.0019	.			NF-SW17
X845055	X8K0022	NF-SW17	7440417	BE	0.002	mg/L	0.0017	U		U	NF-SW17
X845055	X8K0022	NF-SW17	7440702	CA	6.23	mg/L	0.069	.			NF-SW17
X845055	X8K0022	NF-SW17	7440439	CD	0.002	mg/L	0.0016	U		U	NF-SW17
X845055	X8K0022	NF-SW17	7440484	CO	0.006	mg/L	0.0016	U		U	NF-SW17
X845055	X8K0022	NF-SW17	7440473	CR	0.006	mg/L	0.002	U		U	NF-SW17
X845055	X8K0022	NF-SW17	7440508	CU	0.01	mg/L	0.0027	U		U	NF-SW17
X845055	X8K0022	NF-SW17	7439896	FE	0.1	mg/L	0.056	U		U	NF-SW17
X845055	X8K0022	NF-SW17	7439954	MG	2.88	mg/L	0.32	.			NF-SW17
X845055	X8K0022	NF-SW17	7439965	MN	0.008	mg/L	0.0034	U		U	NF-SW17
X845055	X8K0022	NF-SW17	7440020	NI	0.01	mg/L	0.0023	U		U	NF-SW17
X845055	X8K0022	NF-SW17	7439921	PB	0.0075	mg/L	0.0049	U		U	NF-SW17
X845055	X8K0022	NF-SW17	7782492	SE	0.04	mg/L	0.012	U		U	NF-SW17
X845055	X8K0022	NF-SW17	7440622	V	0.005	mg/L	0.0019	U		U	NF-SW17
X845055	X8K0022	NF-SW17	7440666	ZN	0.01	mg/L	0.005	U		U	NF-SW17
X845095	X8K0022	NF-SW17	7440382	AS	0.00021	mg/L	0.00021	U		U	NF-SW17
X845095	X8K0022	NF-SW17	7440360	SB	0.003	mg/L	0.00023	U		U	NF-SW17
X845095	X8K0022	NF-SW17	7440280	TL	0.001	mg/L	0.00008	U		U	NF-SW17
X845228	X8K0022	NF-SW17	7439976	HG	0.0002	mg/L	0.000093	U		U	NF-SW17
X845055	X8K0022	NF-SW18	7440224	AG	0.005	mg/L	0.0019	U		U	NF-SW18
X845055	X8K0022	NF-SW18	7429905	AL	0.08	mg/L	0.05	U		U	NF-SW18
X845055	X8K0022	NF-SW18	7440393	BA	0.002	mg/L	0.0019	U		U	NF-SW18
X845055	X8K0022	NF-SW18	7440417	BE	0.002	mg/L	0.0017	U		U	NF-SW18
X845055	X8K0022	NF-SW18	7440702	CA	0.1	mg/L	0.069	U		U	NF-SW18
X845055	X8K0022	NF-SW18	7440439	CD	0.002	mg/L	0.0016	U		U	NF-SW18
X845055	X8K0022	NF-SW18	7440484	CO	0.006	mg/L	0.0016	U		U	NF-SW18
X845055	X8K0022	NF-SW18	7440473	CR	0.006	mg/L	0.002	U		U	NF-SW18
X845055	X8K0022	NF-SW18	7440508	CU	0.01	mg/L	0.0027	U		U	NF-SW18
X845055	X8K0022	NF-SW18	7439896	FE	0.1	mg/L	0.056	U		U	NF-SW18
X845055	X8K0022	NF-SW18	7439954	MG	0.5	mg/L	0.32	U		U	NF-SW18
X845055	X8K0022	NF-SW18	7439965	MN	0.008	mg/L	0.0034	U		U	NF-SW18
X845055	X8K0022	NF-SW18	7440020	NI	0.01	mg/L	0.0023	U		U	NF-SW18
X845055	X8K0022	NF-SW18	7439921	PB	0.0075	mg/L	0.0049	U		U	NF-SW18
X845055	X8K0022	NF-SW18	7782492	SE	0.04	mg/L	0.012	U		U	NF-SW18
X845055	X8K0022	NF-SW18	7440622	V	0.005	mg/L	0.0019	U		U	NF-SW18
X845055	X8K0022	NF-SW18	7440666	ZN	0.01	mg/L	0.005	U		U	NF-SW18
X845095	X8K0022	NF-SW18	7440382	AS	0.00021	mg/L	0.00021	U		U	NF-SW18

CASE NUMBER	SAMPLE DELIVERY GROUP	SAMPLE ID	CASNUM	ANALYTE	CONC	RESULT UNITS	MDL	FINAL VALIDATION QUALIFIER	IDEQ QUAL	COMB QUAL	STATLOC
X845095	X8K0022	NF-SW18	7440360	SB	0.003	mg/L	0.00023	U		U	NF-SW18
X845095	X8K0022	NF-SW18	7440280	TL	0.001	mg/L	0.00008	U		U	NF-SW18
X845228	X8K0022	NF-SW18	7439976	HG	0.0002	mg/L	0.000093	U		U	NF-SW18
X845055	X8K0022	NF-SW19	7440224	AG	0.005	mg/L	0.0019	U		U	NF-SW19
X845055	X8K0022	NF-SW19	7429905	AL	0.08	mg/L	0.05	U		U	NF-SW19
X845055	X8K0022	NF-SW19	7440393	BA	0.0279	mg/L	0.0019	.			NF-SW19
X845055	X8K0022	NF-SW19	7440417	BE	0.002	mg/L	0.0017	U		U	NF-SW19
X845055	X8K0022	NF-SW19	7440702	CA	4.67	mg/L	0.069	.			NF-SW19
X845055	X8K0022	NF-SW19	7440439	CD	0.002	mg/L	0.0016	U		U	NF-SW19
X845055	X8K0022	NF-SW19	7440484	CO	0.006	mg/L	0.0016	U		U	NF-SW19
X845055	X8K0022	NF-SW19	7440473	CR	0.006	mg/L	0.002	U		U	NF-SW19
X845055	X8K0022	NF-SW19	7440508	CU	0.01	mg/L	0.0027	U		U	NF-SW19
X845055	X8K0022	NF-SW19	7439896	FE	0.104	mg/L	0.056	.			NF-SW19
X845055	X8K0022	NF-SW19	7439954	MG	1.69	mg/L	0.32	.			NF-SW19
X845055	X8K0022	NF-SW19	7439965	MN	0.008	mg/L	0.0034	U		U	NF-SW19
X845055	X8K0022	NF-SW19	7440020	NI	0.01	mg/L	0.0023	U		U	NF-SW19
X845055	X8K0022	NF-SW19	7439921	PB	0.0075	mg/L	0.0049	U		U	NF-SW19
X845055	X8K0022	NF-SW19	7782492	SE	0.04	mg/L	0.012	U		U	NF-SW19
X845055	X8K0022	NF-SW19	7440622	V	0.005	mg/L	0.0019	U		U	NF-SW19
X845055	X8K0022	NF-SW19	7440666	ZN	0.028	mg/L	0.005	.			NF-SW19
X845095	X8K0022	NF-SW19	7440382	AS	0.00021	mg/L	0.00021	U		U	NF-SW19
X845095	X8K0022	NF-SW19	7440360	SB	0.003	mg/L	0.00023	U		U	NF-SW19
X845095	X8K0022	NF-SW19	7440280	TL	0.001	mg/L	0.00008	U		U	NF-SW19
X845228	X8K0022	NF-SW19	7439976	HG	0.0002	mg/L	0.000093	U		U	NF-SW19
X845055	X8K0022	NF-SW20	7440224	AG	0.005	mg/L	0.0019	U		U	NF-SW20
X845055	X8K0022	NF-SW20	7429905	AL	0.08	mg/L	0.05	U		U	NF-SW20
X845055	X8K0022	NF-SW20	7440393	BA	0.0193	mg/L	0.0019	.			NF-SW20
X845055	X8K0022	NF-SW20	7440417	BE	0.002	mg/L	0.0017	U		U	NF-SW20
X845055	X8K0022	NF-SW20	7440702	CA	3.73	mg/L	0.069	.			NF-SW20
X845055	X8K0022	NF-SW20	7440439	CD	0.002	mg/L	0.0016	U		U	NF-SW20
X845055	X8K0022	NF-SW20	7440484	CO	0.006	mg/L	0.0016	U		U	NF-SW20
X845055	X8K0022	NF-SW20	7440473	CR	0.006	mg/L	0.002	U		U	NF-SW20
X845055	X8K0022	NF-SW20	7440508	CU	0.01	mg/L	0.0027	U		U	NF-SW20
X845055	X8K0022	NF-SW20	7439896	FE	0.1	mg/L	0.056	U		U	NF-SW20
X845055	X8K0022	NF-SW20	7439954	MG	1.32	mg/L	0.32	.			NF-SW20
X845055	X8K0022	NF-SW20	7439965	MN	0.008	mg/L	0.0034	U		U	NF-SW20
X845055	X8K0022	NF-SW20	7440020	NI	0.01	mg/L	0.0023	U		U	NF-SW20
X845055	X8K0022	NF-SW20	7439921	PB	0.0075	mg/L	0.0049	U		U	NF-SW20
X845055	X8K0022	NF-SW20	7782492	SE	0.04	mg/L	0.012	U		U	NF-SW20
X845055	X8K0022	NF-SW20	7440622	V	0.005	mg/L	0.0019	U		U	NF-SW20
X845055	X8K0022	NF-SW20	7440666	ZN	0.027	mg/L	0.005	.			NF-SW20
X845095	X8K0022	NF-SW20	7440382	AS	0.00032	mg/L	0.00021	J		J	NF-SW20
X845095	X8K0022	NF-SW20	7440360	SB	0.003	mg/L	0.00023	U		U	NF-SW20
X845095	X8K0022	NF-SW20	7440280	TL	0.001	mg/L	0.00008	U		U	NF-SW20
X845228	X8K0022	NF-SW20	7439976	HG	0.0002	mg/L	0.000093	U		U	NF-SW20
X845055	X8K0022	NF-SW21	7440224	AG	0.005	mg/L	0.0019	U		U	NF-SW21
X845055	X8K0022	NF-SW21	7429905	AL	0.08	mg/L	0.05	U		U	NF-SW21
X845055	X8K0022	NF-SW21	7440393	BA	0.0148	mg/L	0.0019	.			NF-SW21
X845055	X8K0022	NF-SW21	7440417	BE	0.002	mg/L	0.0017	U		U	NF-SW21
X845055	X8K0022	NF-SW21	7440702	CA	3.3	mg/L	0.069	.			NF-SW21
X845055	X8K0022	NF-SW21	7440439	CD	0.002	mg/L	0.0016	U		U	NF-SW21
X845055	X8K0022	NF-SW21	7440484	CO	0.006	mg/L	0.0016	U		U	NF-SW21
X845055	X8K0022	NF-SW21	7440473	CR	0.006	mg/L	0.002	U		U	NF-SW21
X845055	X8K0022	NF-SW21	7440508	CU	0.01	mg/L	0.0027	U		U	NF-SW21
X845055	X8K0022	NF-SW21	7439896	FE	0.1	mg/L	0.056	U		U	NF-SW21
X845055	X8K0022	NF-SW21	7439954	MG	1.14	mg/L	0.32	.			NF-SW21
X845055	X8K0022	NF-SW21	7439965	MN	0.008	mg/L	0.0034	U		U	NF-SW21
X845055	X8K0022	NF-SW21	7440020	NI	0.01	mg/L	0.0023	U		U	NF-SW21
X845055	X8K0022	NF-SW21	7439921	PB	0.0075	mg/L	0.0049	U		U	NF-SW21
X845055	X8K0022	NF-SW21	7782492	SE	0.04	mg/L	0.012	U		U	NF-SW21
X845055	X8K0022	NF-SW21	7440622	V	0.005	mg/L	0.0019	U		U	NF-SW21
X845055	X8K0022	NF-SW21	7440666	ZN	0.028	mg/L	0.005	.			NF-SW21
X845095	X8K0022	NF-SW21	7440382	AS	0.0004	mg/L	0.00021	J		J	NF-SW21
X845095	X8K0022	NF-SW21	7440360	SB	0.003	mg/L	0.00023	U		U	NF-SW21
X845095	X8K0022	NF-SW21	7440280	TL	0.001	mg/L	0.00008	U		U	NF-SW21
X845228	X8K0022	NF-SW21	7439976	HG	0.0002	mg/L	0.000093	U		U	NF-SW21
X845055	X8K0022	NF-SW22	7440224	AG	0.005	mg/L	0.0019	U		U	NF-SW22
X845055	X8K0022	NF-SW22	7429905	AL	0.08	mg/L	0.05	U		U	NF-SW22

CASE NUMBER	SAMPLE DELIVERY GROUP	SAMPLE ID	CASNUM	ANALYTE	CONC	RESULT UNITS	MDL	FINAL VALIDATION QUALIFIER	IDEQ QUAL	COMB QUAL	STATLOC
X845055	X8K0022	NF-SW22	7440393	BA	0.002	mg/L	0.0019	U		U	NF-SW22
X845055	X8K0022	NF-SW22	7440417	BE	0.002	mg/L	0.0017	U		U	NF-SW22
X845055	X8K0022	NF-SW22	7440702	CA	0.1	mg/L	0.069	U		U	NF-SW22
X845055	X8K0022	NF-SW22	7440439	CD	0.002	mg/L	0.0016	U		U	NF-SW22
X845055	X8K0022	NF-SW22	7440484	CO	0.006	mg/L	0.0016	U		U	NF-SW22
X845055	X8K0022	NF-SW22	7440473	CR	0.006	mg/L	0.002	U		U	NF-SW22
X845055	X8K0022	NF-SW22	7440508	CU	0.01	mg/L	0.0027	U		U	NF-SW22
X845055	X8K0022	NF-SW22	7439896	FE	0.1	mg/L	0.056	U		U	NF-SW22
X845055	X8K0022	NF-SW22	7439954	MG	0.5	mg/L	0.32	U		U	NF-SW22
X845055	X8K0022	NF-SW22	7439965	MN	0.008	mg/L	0.0034	U		U	NF-SW22
X845055	X8K0022	NF-SW22	7440020	NI	0.01	mg/L	0.0023	U		U	NF-SW22
X845055	X8K0022	NF-SW22	7439921	PB	0.0075	mg/L	0.0049	U		U	NF-SW22
X845055	X8K0022	NF-SW22	7782492	SE	0.04	mg/L	0.012	U		U	NF-SW22
X845055	X8K0022	NF-SW22	7440622	V	0.005	mg/L	0.0019	U		U	NF-SW22
X845055	X8K0022	NF-SW22	7440666	ZN	0.01	mg/L	0.005	U		U	NF-SW22
X845095	X8K0022	NF-SW22	7440382	AS	0.00021	mg/L	0.00021	U		U	NF-SW22
X845095	X8K0022	NF-SW22	7440360	SB	0.003	mg/L	0.00023	U		U	NF-SW22
X845095	X8K0022	NF-SW22	7440280	TL	0.001	mg/L	0.00008	U		U	NF-SW22
X845228	X8K0022	NF-SW22	7439976	HG	0.0002	mg/L	0.000093	U		U	NF-SW22
X845068	X8K0029	PBS	7440224	AG	0.5	mg/kg	0.2	U		U	Blank
X845068	X8K0029	PBS	7429905	AL	8	mg/kg	5	U		U	Blank
X845068	X8K0029	PBS	7440393	BA	0.2	mg/kg	0.18	U		U	Blank
X845068	X8K0029	PBS	7440417	BE	0.2	mg/kg	0.08	U		U	Blank
X845068	X8K0029	PBS	7440702	CA	10	mg/kg	4.9	U		U	Blank
X845068	X8K0029	PBS	7440439	CD	0.2	mg/kg	0.06	U		U	Blank
X845068	X8K0029	PBS	7440484	CO	0.6	mg/kg	0.07	U		U	Blank
X845068	X8K0029	PBS	7440473	CR	0.6	mg/kg	0.2	U		U	Blank
X845068	X8K0029	PBS	7440508	CU	1	mg/kg	0.16	U		U	Blank
X845068	X8K0029	PBS	7439896	FE	10	mg/kg	6.6	U		U	Blank
X845068	X8K0029	PBS	7439954	MG	20	mg/kg	12	U		U	Blank
X845068	X8K0029	PBS	7439965	MN	0.8	mg/kg	0.28	U		U	Blank
X845068	X8K0029	PBS	7440020	NI	1	mg/kg	0.24	U		U	Blank
X845068	X8K0029	PBS	7439921	PB	0.8	mg/kg	0.3	U		U	Blank
X845068	X8K0029	PBS	7782492	SE	4	mg/kg	1.1	U		U	Blank
X845068	X8K0029	PBS	7440622	V	0.5	mg/kg	0.16	U		U	Blank
X845068	X8K0029	PBS	7440666	ZN	1	mg/kg	0.3	U		U	Blank
X845068	X8K0029	LCSS	7440224	AG	4.96	mg/kg	0.2	.			LCS
X845068	X8K0029	LCSS	7429905	AL	98.6	mg/kg	5	.			LCS
X845068	X8K0029	LCSS	7440393	BA	98.5	mg/kg	0.18	.			LCS
X845068	X8K0029	LCSS	7440417	BE	98.2	mg/kg	0.08	.			LCS
X845068	X8K0029	LCSS	7440702	CA	1830	mg/kg	4.9	.			LCS
X845068	X8K0029	LCSS	7440439	CD	99.4	mg/kg	0.06	.			LCS
X845068	X8K0029	LCSS	7440484	CO	100	mg/kg	0.07	.			LCS
X845068	X8K0029	LCSS	7440473	CR	98	mg/kg	0.2	.			LCS
X845068	X8K0029	LCSS	7440508	CU	97.6	mg/kg	0.16	.			LCS
X845068	X8K0029	LCSS	7439896	FE	968	mg/kg	6.6	.			LCS
X845068	X8K0029	LCSS	7439954	MG	1960	mg/kg	12	.			LCS
X845068	X8K0029	LCSS	7439965	MN	97.3	mg/kg	0.28	.			LCS
X845068	X8K0029	LCSS	7440020	NI	96.4	mg/kg	0.24	.			LCS
X845068	X8K0029	LCSS	7439921	PB	95.6	mg/kg	0.3	.			LCS
X845068	X8K0029	LCSS	7782492	SE	95.1	mg/kg	1.1	.			LCS
X845068	X8K0029	LCSS	7440622	V	102	mg/kg	0.16	.			LCS
X845068	X8K0029	LCSS	7440666	ZN	94.3	mg/kg	0.3	.			LCS
X845068	X8K0029	NF-SD13MS1	7440224	AG	5.79	mg/kg	0.23	.			NF-SD13
X845068	X8K0029	NF-SD13MS1	7429905	AL	9040	mg/kg	5.7	.			NF-SD13
X845068	X8K0029	NF-SD13MS1	7440393	BA	175	mg/kg	0.21	.			NF-SD13
X845068	X8K0029	NF-SD13MS1	7440417	BE	111	mg/kg	0.09	.			NF-SD13
X845068	X8K0029	NF-SD13MS1	7440702	CA	2910	mg/kg	5.6	.			NF-SD13
X845068	X8K0029	NF-SD13MS1	7440439	CD	115	mg/kg	0.07	.			NF-SD13
X845068	X8K0029	NF-SD13MS1	7440484	CO	120	mg/kg	0.08	.			NF-SD13
X845068	X8K0029	NF-SD13MS1	7440473	CR	116	mg/kg	0.23	.			NF-SD13
X845068	X8K0029	NF-SD13MS1	7440508	CU	127	mg/kg	0.18	.			NF-SD13
X845068	X8K0029	NF-SD13MS1	7439896	FE	18700	mg/kg	7.5	.			NF-SD13
X845068	X8K0029	NF-SD13MS1	7439954	MG	4250	mg/kg	13.7	.			NF-SD13
X845068	X8K0029	NF-SD13MS1	7439965	MN	433	mg/kg	0.32	.			NF-SD13
X845068	X8K0029	NF-SD13MS1	7440020	NI	117	mg/kg	0.27	.			NF-SD13
X845068	X8K0029	NF-SD13MS1	7439921	PB	199	mg/kg	0.4	.			NF-SD13
X845068	X8K0029	NF-SD13MS1	7782492	SE	109	mg/kg	1.3	.			NF-SD13

CASE NUMBER	SAMPLE DELIVERY GROUP	SAMPLE ID	CASNUM	ANALYTE	CONC	RESULT UNITS	MDL	FINAL VALIDATION QUALIFIER	IDEQ QUAL	COMB QUAL	STATLOC
X845068	X8K0029	NF-SD13MS1	7440622	V	125	mg/kg	0.18	.			NF-SD13
X845068	X8K0029	NF-SD13MS1	7440666	ZN	285	mg/kg	0.4	.			NF-SD13
X845068	X8K0029	NF-SD13MSD1	7440224	AG	5.79	mg/kg	0.23	.			NF-SD13
X845068	X8K0029	NF-SD13MSD1	7429905	AL	8640	mg/kg	5.7	.			NF-SD13
X845068	X8K0029	NF-SD13MSD1	7440393	BA	173	mg/kg	0.21	.			NF-SD13
X845068	X8K0029	NF-SD13MSD1	7440417	BE	114	mg/kg	0.09	.			NF-SD13
X845068	X8K0029	NF-SD13MSD1	7440702	CA	2990	mg/kg	5.6	.			NF-SD13
X845068	X8K0029	NF-SD13MSD1	7440439	CD	117	mg/kg	0.07	.			NF-SD13
X845068	X8K0029	NF-SD13MSD1	7440484	CO	122	mg/kg	0.08	.			NF-SD13
X845068	X8K0029	NF-SD13MSD1	7440473	CR	117	mg/kg	0.23	.			NF-SD13
X845068	X8K0029	NF-SD13MSD1	7440508	CU	131	mg/kg	0.18	.			NF-SD13
X845068	X8K0029	NF-SD13MSD1	7439896	FE	18600	mg/kg	7.5	.			NF-SD13
X845068	X8K0029	NF-SD13MSD1	7439954	MG	4440	mg/kg	13.7	.			NF-SD13
X845068	X8K0029	NF-SD13MSD1	7439965	MN	448	mg/kg	0.32	.			NF-SD13
X845068	X8K0029	NF-SD13MSD1	7440020	NI	120	mg/kg	0.27	.			NF-SD13
X845068	X8K0029	NF-SD13MSD1	7439921	PB	204	mg/kg	0.4	.			NF-SD13
X845068	X8K0029	NF-SD13MSD1	7782492	SE	110	mg/kg	1.3	.			NF-SD13
X845068	X8K0029	NF-SD13MSD1	7440622	V	126	mg/kg	0.18	.			NF-SD13
X845068	X8K0029	NF-SD13MSD1	7440666	ZN	280	mg/kg	0.4	.			NF-SD13
X845068	X8K0029	NF-SD13MSD2	7429905	AL	9130	mg/kg	28.6	.			NF-SD13
X845068	X8K0029	NF-SD13MSD2	7439896	FE	19100	mg/kg	37.7	.			NF-SD13
X845068	X8K0029	NF-SD13MSD2	7439965	MN	437	mg/kg	1.6	.			NF-SD13
X845073	X8K0029	PBS	7440382	AS	0.3	mg/kg	0.132	U		U	Blank
X845073	X8K0029	PBS	7440280	TL	0.1	mg/kg	0.0106	U		U	Blank
X845073	X8K0029	LCSS	7440382	AS	2.46	mg/kg	0.132	.			LCS
X845073	X8K0029	LCSS	7440280	TL	2.41	mg/kg	0.0106	.			LCS
X845073	X8K0029	NF-SD13MS1	7440382	AS	14.1	mg/kg	0.151	.			NF-SD13
X845073	X8K0029	NF-SD13MS1	7440280	TL	2.67	mg/kg	0.0121	.			NF-SD13
X845073	X8K0029	NF-SD13MSD1	7440382	AS	15.8	mg/kg	0.151	.			NF-SD13
X845073	X8K0029	NF-SD13MSD1	7440280	TL	2.72	mg/kg	0.0121	.			NF-SD13
X845075	X8K0029	PBS	7440360	SB	0.3	mg/kg	0.058	U		U	Blank
X845075	X8K0029	LCSS	7440360	SB	2.66	mg/kg	0.058	.			LCS
X845075	X8K0029	NF-SD13MS1	7440360	SB	4.26	mg/kg	0.066	.			NF-SD13
X845075	X8K0029	NF-SD13MSD1	7440360	SB	4.07	mg/kg	0.066	.			NF-SD13
X845076	X8K0029	NF-SD13DUP1	NA	%Solids	90.2	%	.	.			NF-SD13
X845251	X8K0029	PBS	7439976	HG	0.033	mg/kg	0.011	U		U	Blank
X845251	X8K0029	LCSS	7439976	HG	0.822	mg/kg	0.011	.			LCS
X845251	X8K0029	NF-SD13MS1	7439976	HG	0.395	mg/kg	0.013	.			NF-SD13
X845251	X8K0029	NF-SD20MS2	7439976	HG	0.399	mg/kg	0.012	.			NF-SD20
X845251	X8K0029	NF-SD13MSD1	7439976	HG	0.391	mg/kg	0.013	.			NF-SD13
X845068	X8K0029	NF-SD1	7440224	AG	0.61	mg/kg	0.24	U		U	NF-SD1
X845068	X8K0029	NF-SD1	7429905	AL	5890	mg/kg	6.1	.			NF-SD1
X845068	X8K0029	NF-SD1	7440393	BA	68.9	mg/kg	0.22	.			NF-SD1
X845068	X8K0029	NF-SD1	7440417	BE	0.27	mg/kg	0.1	.			NF-SD1
X845068	X8K0029	NF-SD1	7440702	CA	1630	mg/kg	6	.			NF-SD1
X845068	X8K0029	NF-SD1	7440439	CD	0.25	mg/kg	0.07	.			NF-SD1
X845068	X8K0029	NF-SD1	7440484	CO	8.31	mg/kg	0.09	.			NF-SD1
X845068	X8K0029	NF-SD1	7440473	CR	8.92	mg/kg	0.24	.			NF-SD1
X845068	X8K0029	NF-SD1	7440508	CU	19.2	mg/kg	0.2	.			NF-SD1
X845068	X8K0029	NF-SD1	7439896	FE	14500	mg/kg	8.1	.			NF-SD1
X845068	X8K0029	NF-SD1	7439954	MG	3100	mg/kg	14.7	.			NF-SD1
X845068	X8K0029	NF-SD1	7439965	MN	331	mg/kg	0.34	.	J-	J-	NF-SD1
X845068	X8K0029	NF-SD1	7440020	NI	7.19	mg/kg	0.29	.			NF-SD1
X845068	X8K0029	NF-SD1	7439921	PB	45.4	mg/kg	0.4	.			NF-SD1
X845068	X8K0029	NF-SD1	7782492	SE	4.9	mg/kg	1.3	U		U	NF-SD1
X845068	X8K0029	NF-SD1	7440622	V	7.37	mg/kg	0.2	.			NF-SD1
X845068	X8K0029	NF-SD1	7440666	ZN	382	mg/kg	0.4	.			NF-SD1
X845073	X8K0029	NF-SD1	7440382	AS	5.96	mg/kg	0.161	.			NF-SD1
X845075	X8K0029	NF-SD1	7440360	SB	0.9	mg/kg	0.071	.			NF-SD1
X845073	X8K0029	NF-SD1	7440280	TL	0.1	mg/kg	0.013	U		U	NF-SD1
X845251	X8K0029	NF-SD1	7439976	HG	0.04	mg/kg	0.013	U		U	NF-SD1
X845076	X8K0029	NF-SD1	NA	%Solids	81.8	%	.	.			NF-SD1
X845068	X8K0029	NF-SD2	7440224	AG	0.6	mg/kg	0.24	U		U	NF-SD2
X845068	X8K0029	NF-SD2	7429905	AL	6060	mg/kg	6	.			NF-SD2
X845068	X8K0029	NF-SD2	7440393	BA	57.4	mg/kg	0.22	.			NF-SD2
X845068	X8K0029	NF-SD2	7440417	BE	0.37	mg/kg	0.1	.			NF-SD2
X845068	X8K0029	NF-SD2	7440702	CA	745	mg/kg	5.9	.			NF-SD2
X845068	X8K0029	NF-SD2	7440439	CD	0.24	mg/kg	0.07	U		U	NF-SD2

CASE NUMBER	SAMPLE DELIVERY GROUP	SAMPLE ID	CASNUM	ANALYTE	CONC	RESULT UNITS	MDL	FINAL VALIDATION QUALIFIER	IDEQ QUAL	COMB QUAL	STATLOC
X845068	X8K0029	NF-SD2	7440484	CO	5.1	mg/kg	0.09	.			NF-SD2
X845068	X8K0029	NF-SD2	7440473	CR	7.36	mg/kg	0.24	.			NF-SD2
X845068	X8K0029	NF-SD2	7440508	CU	12.3	mg/kg	0.19	.			NF-SD2
X845068	X8K0029	NF-SD2	7439896	FE	11300	mg/kg	7.9	.			NF-SD2
X845068	X8K0029	NF-SD2	7439954	MG	3040	mg/kg	14.3	.			NF-SD2
X845068	X8K0029	NF-SD2	7439965	MN	274	mg/kg	0.33	.	J-	J-	NF-SD2
X845068	X8K0029	NF-SD2	7440020	NI	7.78	mg/kg	0.29	.			NF-SD2
X845068	X8K0029	NF-SD2	7439921	PB	20.1	mg/kg	0.4	.			NF-SD2
X845068	X8K0029	NF-SD2	7782492	SE	4.8	mg/kg	1.3	U		U	NF-SD2
X845068	X8K0029	NF-SD2	7440622	V	8.5	mg/kg	0.19	.			NF-SD2
X845068	X8K0029	NF-SD2	7440666	ZN	65.5	mg/kg	0.4	.			NF-SD2
X845073	X8K0029	NF-SD2	7440382	AS	4.85	mg/kg	0.158	.			NF-SD2
X845075	X8K0029	NF-SD2	7440360	SB	0.573	mg/kg	0.069	.			NF-SD2
X845073	X8K0029	NF-SD2	7440280	TL	0.1	mg/kg	0.0127	U		U	NF-SD2
X845251	X8K0029	NF-SD2	7439976	HG	0.039	mg/kg	0.013	U		U	NF-SD2
X845076	X8K0029	NF-SD2	NA	%Solids	83.7	%	.	.			NF-SD2
X845068	X8K0029	NF-SD3	7440224	AG	0.57	mg/kg	0.23	U		U	NF-SD3
X845068	X8K0029	NF-SD3	7429905	AL	6330	mg/kg	5.7	.			NF-SD3
X845068	X8K0029	NF-SD3	7440393	BA	33	mg/kg	0.2	.			NF-SD3
X845068	X8K0029	NF-SD3	7440417	BE	0.36	mg/kg	0.09	.			NF-SD3
X845068	X8K0029	NF-SD3	7440702	CA	615	mg/kg	5.6	.			NF-SD3
X845068	X8K0029	NF-SD3	7440439	CD	0.23	mg/kg	0.06	U		U	NF-SD3
X845068	X8K0029	NF-SD3	7440484	CO	3.67	mg/kg	0.08	.			NF-SD3
X845068	X8K0029	NF-SD3	7440473	CR	10.8	mg/kg	0.23	.			NF-SD3
X845068	X8K0029	NF-SD3	7440508	CU	9.47	mg/kg	0.18	.			NF-SD3
X845068	X8K0029	NF-SD3	7439896	FE	13900	mg/kg	7.5	.			NF-SD3
X845068	X8K0029	NF-SD3	7439954	MG	4630	mg/kg	13.6	.			NF-SD3
X845068	X8K0029	NF-SD3	7439965	MN	160	mg/kg	0.32	.	J-	J-	NF-SD3
X845068	X8K0029	NF-SD3	7440020	NI	8.39	mg/kg	0.27	.			NF-SD3
X845068	X8K0029	NF-SD3	7439921	PB	17.3	mg/kg	0.4	.			NF-SD3
X845068	X8K0029	NF-SD3	7782492	SE	4.5	mg/kg	1.2	U		U	NF-SD3
X845068	X8K0029	NF-SD3	7440622	V	11.4	mg/kg	0.18	.			NF-SD3
X845068	X8K0029	NF-SD3	7440666	ZN	46.6	mg/kg	0.4	.			NF-SD3
X845073	X8K0029	NF-SD3	7440382	AS	6.08	mg/kg	0.15	.			NF-SD3
X845075	X8K0029	NF-SD3	7440360	SB	0.641	mg/kg	0.066	.			NF-SD3
X845073	X8K0029	NF-SD3	7440280	TL	0.1	mg/kg	0.012	U		U	NF-SD3
X845251	X8K0029	NF-SD3	7439976	HG	0.037	mg/kg	0.012	U		U	NF-SD3
X845076	X8K0029	NF-SD3	NA	%Solids	88.1	%	.	.			NF-SD3
X845068	X8K0029	NF-SD4	7440224	AG	0.55	mg/kg	0.22	U		U	NF-SD4
X845068	X8K0029	NF-SD4	7429905	AL	3990	mg/kg	5.5	.			NF-SD4
X845068	X8K0029	NF-SD4	7440393	BA	31.2	mg/kg	0.2	.			NF-SD4
X845068	X8K0029	NF-SD4	7440417	BE	0.27	mg/kg	0.09	.			NF-SD4
X845068	X8K0029	NF-SD4	7440702	CA	452	mg/kg	5.4	.			NF-SD4
X845068	X8K0029	NF-SD4	7440439	CD	0.22	mg/kg	0.06	U		U	NF-SD4
X845068	X8K0029	NF-SD4	7440484	CO	2.63	mg/kg	0.08	.			NF-SD4
X845068	X8K0029	NF-SD4	7440473	CR	4.83	mg/kg	0.22	.			NF-SD4
X845068	X8K0029	NF-SD4	7440508	CU	6.87	mg/kg	0.17	.			NF-SD4
X845068	X8K0029	NF-SD4	7439896	FE	9660	mg/kg	7.2	.			NF-SD4
X845068	X8K0029	NF-SD4	7439954	MG	2010	mg/kg	13.1	.			NF-SD4
X845068	X8K0029	NF-SD4	7439965	MN	157	mg/kg	0.31	.	J-	J-	NF-SD4
X845068	X8K0029	NF-SD4	7440020	NI	3.67	mg/kg	0.26	.			NF-SD4
X845068	X8K0029	NF-SD4	7439921	PB	5	mg/kg	0.4	.			NF-SD4
X845068	X8K0029	NF-SD4	7782492	SE	4.4	mg/kg	1.2	U		U	NF-SD4
X845068	X8K0029	NF-SD4	7440622	V	5.97	mg/kg	0.17	.			NF-SD4
X845068	X8K0029	NF-SD4	7440666	ZN	27	mg/kg	0.4	.			NF-SD4
X845073	X8K0029	NF-SD4	7440382	AS	4.31	mg/kg	0.144	.			NF-SD4
X845075	X8K0029	NF-SD4	7440360	SB	0.394	mg/kg	0.063	.			NF-SD4
X845073	X8K0029	NF-SD4	7440280	TL	0.1	mg/kg	0.0116	U		U	NF-SD4
X845251	X8K0029	NF-SD4	7439976	HG	0.036	mg/kg	0.012	U		U	NF-SD4
X845076	X8K0029	NF-SD4	NA	%Solids	91.5	%	.	.			NF-SD4
X845068	X8K0029	NF-SD5	7440224	AG	0.69	mg/kg	0.27	U		U	NF-SD5
X845068	X8K0029	NF-SD5	7429905	AL	8150	mg/kg	6.9	.			NF-SD5
X845068	X8K0029	NF-SD5	7440393	BA	80.8	mg/kg	0.25	.			NF-SD5
X845068	X8K0029	NF-SD5	7440417	BE	0.43	mg/kg	0.11	.			NF-SD5
X845068	X8K0029	NF-SD5	7440702	CA	1310	mg/kg	6.7	.			NF-SD5
X845068	X8K0029	NF-SD5	7440439	CD	0.64	mg/kg	0.08	.			NF-SD5
X845068	X8K0029	NF-SD5	7440484	CO	6.09	mg/kg	0.1	.			NF-SD5
X845068	X8K0029	NF-SD5	7440473	CR	8.97	mg/kg	0.27	.			NF-SD5

CASE NUMBER	SAMPLE DELIVERY GROUP	SAMPLE ID	CASNUM	ANALYTE	CONC	RESULT UNITS	MDL	FINAL VALIDATION QUALIFIER	IDEQ QUAL	COMB QUAL	STATLOC
X845068	X8K0029	NF-SD5	7440508	CU	16.3	mg/kg	0.22	.			NF-SD5
X845068	X8K0029	NF-SD5	7439896	FE	16100	mg/kg	9.1	.			NF-SD5
X845068	X8K0029	NF-SD5	7439954	MG	3680	mg/kg	16.5	.			NF-SD5
X845068	X8K0029	NF-SD5	7439965	MN	320	mg/kg	0.38	.	J-	J-	NF-SD5
X845068	X8K0029	NF-SD5	7440020	NI	9.81	mg/kg	0.33	.			NF-SD5
X845068	X8K0029	NF-SD5	7439921	PB	92.1	mg/kg	0.5	.			NF-SD5
X845068	X8K0029	NF-SD5	7782492	SE	5.5	mg/kg	1.5	U		U	NF-SD5
X845068	X8K0029	NF-SD5	7440622	V	9.75	mg/kg	0.22	.			NF-SD5
X845068	X8K0029	NF-SD5	7440666	ZN	156	mg/kg	0.5	.			NF-SD5
X845073	X8K0029	NF-SD5	7440382	AS	9.05	mg/kg	0.181	.			NF-SD5
X845075	X8K0029	NF-SD5	7440360	SB	0.574	mg/kg	0.08	.			NF-SD5
X845073	X8K0029	NF-SD5	7440280	TL	0.1	mg/kg	0.0145	U		U	NF-SD5
X845251	X8K0029	NF-SD5	7439976	HG	0.045	mg/kg	0.015	U		U	NF-SD5
X845076	X8K0029	NF-SD5	NA	%Solids	72.9	%	.	.			NF-SD5
X845068	X8K0029	NF-SD6	7440224	AG	0.6	mg/kg	0.24	U		U	NF-SD6
X845068	X8K0029	NF-SD6	7429905	AL	7230	mg/kg	6	.			NF-SD6
X845068	X8K0029	NF-SD6	7440393	BA	55.3	mg/kg	0.22	.			NF-SD6
X845068	X8K0029	NF-SD6	7440417	BE	0.35	mg/kg	0.1	.			NF-SD6
X845068	X8K0029	NF-SD6	7440702	CA	822	mg/kg	5.9	.			NF-SD6
X845068	X8K0029	NF-SD6	7440439	CD	0.27	mg/kg	0.07	.			NF-SD6
X845068	X8K0029	NF-SD6	7440484	CO	4.89	mg/kg	0.09	.			NF-SD6
X845068	X8K0029	NF-SD6	7440473	CR	7.77	mg/kg	0.24	.			NF-SD6
X845068	X8K0029	NF-SD6	7440508	CU	12.5	mg/kg	0.19	.			NF-SD6
X845068	X8K0029	NF-SD6	7439896	FE	15200	mg/kg	7.9	.			NF-SD6
X845068	X8K0029	NF-SD6	7439954	MG	4030	mg/kg	14.4	.			NF-SD6
X845068	X8K0029	NF-SD6	7439965	MN	249	mg/kg	0.34	.	J-	J-	NF-SD6
X845068	X8K0029	NF-SD6	7440020	NI	8.62	mg/kg	0.29	.			NF-SD6
X845068	X8K0029	NF-SD6	7439921	PB	64	mg/kg	0.4	.			NF-SD6
X845068	X8K0029	NF-SD6	7782492	SE	4.8	mg/kg	1.3	U		U	NF-SD6
X845068	X8K0029	NF-SD6	7440622	V	8.42	mg/kg	0.19	.			NF-SD6
X845068	X8K0029	NF-SD6	7440666	ZN	80.7	mg/kg	0.4	.			NF-SD6
X845073	X8K0029	NF-SD6	7440382	AS	7.91	mg/kg	0.159	.			NF-SD6
X845075	X8K0029	NF-SD6	7440360	SB	0.637	mg/kg	0.07	.			NF-SD6
X845073	X8K0029	NF-SD6	7440280	TL	0.1	mg/kg	0.0127	U		U	NF-SD6
X845251	X8K0029	NF-SD6	7439976	HG	0.04	mg/kg	0.013	U		U	NF-SD6
X845076	X8K0029	NF-SD6	NA	%Solids	83.2	%	.	.			NF-SD6
X845068	X8K0029	NF-SD7	7440224	AG	0.56	mg/kg	0.22	U		U	NF-SD7
X845068	X8K0029	NF-SD7	7429905	AL	5650	mg/kg	5.6	.			NF-SD7
X845068	X8K0029	NF-SD7	7440393	BA	36.9	mg/kg	0.2	.			NF-SD7
X845068	X8K0029	NF-SD7	7440417	BE	0.22	mg/kg	0.09	U		U	NF-SD7
X845068	X8K0029	NF-SD7	7440702	CA	486	mg/kg	5.5	.			NF-SD7
X845068	X8K0029	NF-SD7	7440439	CD	0.22	mg/kg	0.06	U		U	NF-SD7
X845068	X8K0029	NF-SD7	7440484	CO	4.64	mg/kg	0.08	.			NF-SD7
X845068	X8K0029	NF-SD7	7440473	CR	6.89	mg/kg	0.22	.			NF-SD7
X845068	X8K0029	NF-SD7	7440508	CU	10.9	mg/kg	0.18	.			NF-SD7
X845068	X8K0029	NF-SD7	7439896	FE	15500	mg/kg	7.4	.			NF-SD7
X845068	X8K0029	NF-SD7	7439954	MG	3600	mg/kg	13.5	.			NF-SD7
X845068	X8K0029	NF-SD7	7439965	MN	253	mg/kg	0.31	.	J-	J-	NF-SD7
X845068	X8K0029	NF-SD7	7440020	NI	8.18	mg/kg	0.27	.			NF-SD7
X845068	X8K0029	NF-SD7	7439921	PB	35.9	mg/kg	0.4	.			NF-SD7
X845068	X8K0029	NF-SD7	7782492	SE	4.5	mg/kg	1.2	U		U	NF-SD7
X845068	X8K0029	NF-SD7	7440622	V	6.73	mg/kg	0.18	.			NF-SD7
X845068	X8K0029	NF-SD7	7440666	ZN	54.9	mg/kg	0.4	.			NF-SD7
X845073	X8K0029	NF-SD7	7440382	AS	9.32	mg/kg	0.148	.			NF-SD7
X845075	X8K0029	NF-SD7	7440360	SB	0.869	mg/kg	0.065	.			NF-SD7
X845073	X8K0029	NF-SD7	7440280	TL	0.1	mg/kg	0.0119	U		U	NF-SD7
X845251	X8K0029	NF-SD7	7439976	HG	0.037	mg/kg	0.012	U		U	NF-SD7
X845076	X8K0029	NF-SD7	NA	%Solids	89.2	%	.	.			NF-SD7
X845068	X8K0029	NF-SD8	7440224	AG	0.56	mg/kg	0.22	U		U	NF-SD8
X845068	X8K0029	NF-SD8	7429905	AL	2470	mg/kg	5.6	.			NF-SD8
X845068	X8K0029	NF-SD8	7440393	BA	47.6	mg/kg	0.2	.			NF-SD8
X845068	X8K0029	NF-SD8	7440417	BE	0.22	mg/kg	0.09	U		U	NF-SD8
X845068	X8K0029	NF-SD8	7440702	CA	648	mg/kg	5.5	.			NF-SD8
X845068	X8K0029	NF-SD8	7440439	CD	0.22	mg/kg	0.06	U		U	NF-SD8
X845068	X8K0029	NF-SD8	7440484	CO	1.66	mg/kg	0.08	.			NF-SD8
X845068	X8K0029	NF-SD8	7440473	CR	2.01	mg/kg	0.22	.			NF-SD8
X845068	X8K0029	NF-SD8	7440508	CU	6.02	mg/kg	0.18	.			NF-SD8
X845068	X8K0029	NF-SD8	7439896	FE	3970	mg/kg	7.4	.			NF-SD8

CASE NUMBER	SAMPLE DELIVERY GROUP	SAMPLE ID	CASNUM	ANALYTE	CONC	RESULT UNITS	MDL	FINAL VALIDATION QUALIFIER	IDEQ QUAL	COMB QUAL	STATLOC
X845068	X8K0029	NF-SD8	7439954	MG	603	mg/kg	13.4	.			NF-SD8
X845068	X8K0029	NF-SD8	7439965	MN	271	mg/kg	0.31	.	J-	J-	NF-SD8
X845068	X8K0029	NF-SD8	7440020	NI	1.88	mg/kg	0.27	.			NF-SD8
X845068	X8K0029	NF-SD8	7439921	PB	6.7	mg/kg	0.4	.			NF-SD8
X845068	X8K0029	NF-SD8	7782492	SE	4.5	mg/kg	1.2	U		U	NF-SD8
X845068	X8K0029	NF-SD8	7440622	V	2.88	mg/kg	0.18	.			NF-SD8
X845068	X8K0029	NF-SD8	7440666	ZN	15	mg/kg	0.4	.			NF-SD8
X845073	X8K0029	NF-SD8	7440382	AS	1.53	mg/kg	0.147	.			NF-SD8
X845075	X8K0029	NF-SD8	7440360	SB	0.35	mg/kg	0.065	.			NF-SD8
X845073	X8K0029	NF-SD8	7440280	TL	0.1	mg/kg	0.0118	U		U	NF-SD8
X845251	X8K0029	NF-SD8	7439976	HG	0.037	mg/kg	0.012	U		U	NF-SD8
X845076	X8K0029	NF-SD8	NA	%Solids	89.7	%	.	.			NF-SD8
X845068	X8K0029	NF-SD9	7440224	AG	0.66	mg/kg	0.27	U		U	NF-SD9
X845068	X8K0029	NF-SD9	7429905	AL	7240	mg/kg	6.6	.			NF-SD9
X845068	X8K0029	NF-SD9	7440393	BA	81.9	mg/kg	0.24	.			NF-SD9
X845068	X8K0029	NF-SD9	7440417	BE	0.35	mg/kg	0.11	.			NF-SD9
X845068	X8K0029	NF-SD9	7440702	CA	1540	mg/kg	6.5	.			NF-SD9
X845068	X8K0029	NF-SD9	7440439	CD	0.31	mg/kg	0.08	.			NF-SD9
X845068	X8K0029	NF-SD9	7440484	CO	8.09	mg/kg	0.1	.			NF-SD9
X845068	X8K0029	NF-SD9	7440473	CR	8.77	mg/kg	0.27	.			NF-SD9
X845068	X8K0029	NF-SD9	7440508	CU	20.1	mg/kg	0.21	.			NF-SD9
X845068	X8K0029	NF-SD9	7439896	FE	16500	mg/kg	8.8	.			NF-SD9
X845068	X8K0029	NF-SD9	7439954	MG	3020	mg/kg	15.9	.			NF-SD9
X845068	X8K0029	NF-SD9	7439965	MN	455	mg/kg	0.37	.	J-	J-	NF-SD9
X845068	X8K0029	NF-SD9	7440020	NI	8.69	mg/kg	0.32	.			NF-SD9
X845068	X8K0029	NF-SD9	7439921	PB	68.4	mg/kg	0.4	.			NF-SD9
X845068	X8K0029	NF-SD9	7782492	SE	5.3	mg/kg	1.5	U		U	NF-SD9
X845068	X8K0029	NF-SD9	7440622	V	9.61	mg/kg	0.21	.			NF-SD9
X845068	X8K0029	NF-SD9	7440666	ZN	343	mg/kg	0.5	.			NF-SD9
X845073	X8K0029	NF-SD9	7440382	AS	9.21	mg/kg	0.175	.			NF-SD9
X845075	X8K0029	NF-SD9	7440360	SB	1.05	mg/kg	0.077	.			NF-SD9
X845073	X8K0029	NF-SD9	7440280	TL	0.1	mg/kg	0.0141	U		U	NF-SD9
X845251	X8K0029	NF-SD9	7439976	HG	0.044	mg/kg	0.015	U		U	NF-SD9
X845076	X8K0029	NF-SD9	NA	%Solids	75.3	%	.	.			NF-SD9
X845068	X8K0029	NF-SD10	7440224	AG	0.65	mg/kg	0.26	U		U	NF-SD10
X845068	X8K0029	NF-SD10	7429905	AL	9210	mg/kg	6.5	.			NF-SD10
X845068	X8K0029	NF-SD10	7440393	BA	119	mg/kg	0.23	.			NF-SD10
X845068	X8K0029	NF-SD10	7440417	BE	0.43	mg/kg	0.11	.			NF-SD10
X845068	X8K0029	NF-SD10	7440702	CA	4430	mg/kg	6.4	.			NF-SD10
X845068	X8K0029	NF-SD10	7440439	CD	0.73	mg/kg	0.07	.			NF-SD10
X845068	X8K0029	NF-SD10	7440484	CO	13.5	mg/kg	0.1	.			NF-SD10
X845068	X8K0029	NF-SD10	7440473	CR	18.7	mg/kg	0.26	.			NF-SD10
X845068	X8K0029	NF-SD10	7440508	CU	46	mg/kg	0.21	.			NF-SD10
X845068	X8K0029	NF-SD10	7439896	FE	24000	mg/kg	8.6	.			NF-SD10
X845068	X8K0029	NF-SD10	7439954	MG	3570	mg/kg	15.7	.			NF-SD10
X845068	X8K0029	NF-SD10	7439965	MN	778	mg/kg	0.37	.	J-	J-	NF-SD10
X845068	X8K0029	NF-SD10	7440020	NI	9.87	mg/kg	0.31	.			NF-SD10
X845068	X8K0029	NF-SD10	7439921	PB	154	mg/kg	0.4	.			NF-SD10
X845068	X8K0029	NF-SD10	7782492	SE	5.2	mg/kg	1.4	U		U	NF-SD10
X845068	X8K0029	NF-SD10	7440622	V	12.6	mg/kg	0.21	.			NF-SD10
X845068	X8K0029	NF-SD10	7440666	ZN	382	mg/kg	0.4	.			NF-SD10
X845073	X8K0029	NF-SD10	7440382	AS	11.5	mg/kg	0.172	.			NF-SD10
X845075	X8K0029	NF-SD10	7440360	SB	1.46	mg/kg	0.076	.			NF-SD10
X845073	X8K0029	NF-SD10	7440280	TL	0.1	mg/kg	0.0138	U		U	NF-SD10
X845251	X8K0029	NF-SD10	7439976	HG	0.057	mg/kg	0.014	.			NF-SD10
X845076	X8K0029	NF-SD10	NA	%Solids	76.7	%	.	.			NF-SD10
X845068	X8K0029	NF-SD11	7440224	AG	0.61	mg/kg	0.24	U		U	NF-SD11
X845068	X8K0029	NF-SD11	7429905	AL	11800	mg/kg	6.1	.			NF-SD11
X845068	X8K0029	NF-SD11	7440393	BA	79.7	mg/kg	0.22	.			NF-SD11
X845068	X8K0029	NF-SD11	7440417	BE	0.62	mg/kg	0.1	.			NF-SD11
X845068	X8K0029	NF-SD11	7440702	CA	891	mg/kg	6	.			NF-SD11
X845068	X8K0029	NF-SD11	7440439	CD	0.24	mg/kg	0.07	U		U	NF-SD11
X845068	X8K0029	NF-SD11	7440484	CO	10.9	mg/kg	0.09	.			NF-SD11
X845068	X8K0029	NF-SD11	7440473	CR	12.2	mg/kg	0.24	.			NF-SD11
X845068	X8K0029	NF-SD11	7440508	CU	6.46	mg/kg	0.2	.			NF-SD11
X845068	X8K0029	NF-SD11	7439896	FE	23400	mg/kg	8.1	.			NF-SD11
X845068	X8K0029	NF-SD11	7439954	MG	9910	mg/kg	14.7	.			NF-SD11
X845068	X8K0029	NF-SD11	7439965	MN	402	mg/kg	0.34	.	J-	J-	NF-SD11

CASE NUMBER	SAMPLE DELIVERY GROUP	SAMPLE ID	CASNUM	ANALYTE	CONC	RESULT UNITS	MDL	FINAL VALIDATION QUALIFIER	IDEQ QUAL	COMB QUAL	STATLOC
X845068	X8K0029	NF-SD11	7440020	NI	15.8	mg/kg	0.29	.			NF-SD11
X845068	X8K0029	NF-SD11	7439921	PB	5.1	mg/kg	0.4	.			NF-SD11
X845068	X8K0029	NF-SD11	7782492	SE	4.9	mg/kg	1.3	U		U	NF-SD11
X845068	X8K0029	NF-SD11	7440622	V	9.2	mg/kg	0.2	.			NF-SD11
X845068	X8K0029	NF-SD11	7440666	ZN	35.8	mg/kg	0.4	.			NF-SD11
X845073	X8K0029	NF-SD11	7440382	AS	6.36	mg/kg	0.161	.			NF-SD11
X845075	X8K0029	NF-SD11	7440360	SB	0.722	mg/kg	0.071	.			NF-SD11
X845073	X8K0029	NF-SD11	7440280	TL	0.1	mg/kg	0.013	U		U	NF-SD11
X845251	X8K0029	NF-SD11	7439976	HG	0.04	mg/kg	0.013	U		U	NF-SD11
X845076	X8K0029	NF-SD11	NA	%Solids	81.8	%	.	.			NF-SD11
X845068	X8K0029	NF-SD12	7440224	AG	0.58	mg/kg	0.23	U		U	NF-SD12
X845068	X8K0029	NF-SD12	7429905	AL	5470	mg/kg	5.8	.			NF-SD12
X845068	X8K0029	NF-SD12	7440393	BA	53.9	mg/kg	0.21	.			NF-SD12
X845068	X8K0029	NF-SD12	7440417	BE	0.52	mg/kg	0.1	.			NF-SD12
X845068	X8K0029	NF-SD12	7440702	CA	943	mg/kg	5.7	.			NF-SD12
X845068	X8K0029	NF-SD12	7440439	CD	0.23	mg/kg	0.07	U		U	NF-SD12
X845068	X8K0029	NF-SD12	7440484	CO	6.37	mg/kg	0.08	.			NF-SD12
X845068	X8K0029	NF-SD12	7440473	CR	5.28	mg/kg	0.23	.			NF-SD12
X845068	X8K0029	NF-SD12	7440508	CU	22.9	mg/kg	0.18	.			NF-SD12
X845068	X8K0029	NF-SD12	7439896	FE	33400	mg/kg	7.6	.			NF-SD12
X845068	X8K0029	NF-SD12	7439954	MG	1670	mg/kg	13.9	.			NF-SD12
X845068	X8K0029	NF-SD12	7439965	MN	364	mg/kg	0.32	.	J-	J-	NF-SD12
X845068	X8K0029	NF-SD12	7440020	NI	12	mg/kg	0.28	.			NF-SD12
X845068	X8K0029	NF-SD12	7439921	PB	28	mg/kg	0.4	.			NF-SD12
X845068	X8K0029	NF-SD12	7782492	SE	4.6	mg/kg	1.3	U		U	NF-SD12
X845068	X8K0029	NF-SD12	7440622	V	7.51	mg/kg	0.18	.			NF-SD12
X845068	X8K0029	NF-SD12	7440666	ZN	101	mg/kg	0.4	.			NF-SD12
X845073	X8K0029	NF-SD12	7440382	AS	14.2	mg/kg	0.152	.			NF-SD12
X845075	X8K0029	NF-SD12	7440360	SB	1.14	mg/kg	0.067	.			NF-SD12
X845073	X8K0029	NF-SD12	7440280	TL	0.1	mg/kg	0.0122	U		U	NF-SD12
X845251	X8K0029	NF-SD12	7439976	HG	0.038	mg/kg	0.013	U		U	NF-SD12
X845076	X8K0029	NF-SD12	NA	%Solids	86.6	%	.	.			NF-SD12
X845068	X8K0029	NF-SD13	7440224	AG	0.57	mg/kg	0.23	U		U	NF-SD13
X845068	X8K0029	NF-SD13	7429905	AL	5120	mg/kg	5.7	.			NF-SD13
X845068	X8K0029	NF-SD13	7440393	BA	51.6	mg/kg	0.21	.			NF-SD13
X845068	X8K0029	NF-SD13	7440417	BE	0.32	mg/kg	0.09	.			NF-SD13
X845068	X8K0029	NF-SD13	7440702	CA	729	mg/kg	5.6	.			NF-SD13
X845068	X8K0029	NF-SD13	7440439	CD	0.71	mg/kg	0.07	.			NF-SD13
X845068	X8K0029	NF-SD13	7440484	CO	6.07	mg/kg	0.08	.			NF-SD13
X845068	X8K0029	NF-SD13	7440473	CR	5.04	mg/kg	0.23	.			NF-SD13
X845068	X8K0029	NF-SD13	7440508	CU	14.1	mg/kg	0.18	.			NF-SD13
X845068	X8K0029	NF-SD13	7439896	FE	15800	mg/kg	7.5	.			NF-SD13
X845068	X8K0029	NF-SD13	7439954	MG	1650	mg/kg	13.7	.			NF-SD13
X845068	X8K0029	NF-SD13	7439965	MN	361	mg/kg	0.32	.	J-	J-	NF-SD13
X845068	X8K0029	NF-SD13	7440020	NI	7.7	mg/kg	0.27	.			NF-SD13
X845068	X8K0029	NF-SD13	7439921	PB	82.9	mg/kg	0.4	.			NF-SD13
X845068	X8K0029	NF-SD13	7782492	SE	4.6	mg/kg	1.3	U		U	NF-SD13
X845068	X8K0029	NF-SD13	7440622	V	7.27	mg/kg	0.18	.			NF-SD13
X845068	X8K0029	NF-SD13	7440666	ZN	184	mg/kg	0.4	.			NF-SD13
X845073	X8K0029	NF-SD13	7440382	AS	14.5	mg/kg	0.151	.			NF-SD13
X845075	X8K0029	NF-SD13	7440360	SB	1.15	mg/kg	0.066	.			NF-SD13
X845073	X8K0029	NF-SD13	7440280	TL	0.1	mg/kg	0.0121	U		U	NF-SD13
X845251	X8K0029	NF-SD13	7439976	HG	0.038	mg/kg	0.013	U		U	NF-SD13
X845076	X8K0029	NF-SD13	NA	%Solids	87.4	%	.	.			NF-SD13
X845068	X8K0029	NF-SD14	7440224	AG	0.54	mg/kg	0.22	U		U	NF-SD14
X845068	X8K0029	NF-SD14	7429905	AL	4840	mg/kg	5.4	.			NF-SD14
X845068	X8K0029	NF-SD14	7440393	BA	47	mg/kg	0.2	.			NF-SD14
X845068	X8K0029	NF-SD14	7440417	BE	0.35	mg/kg	0.09	.			NF-SD14
X845068	X8K0029	NF-SD14	7440702	CA	522	mg/kg	5.3	.			NF-SD14
X845068	X8K0029	NF-SD14	7440439	CD	0.62	mg/kg	0.06	.			NF-SD14
X845068	X8K0029	NF-SD14	7440484	CO	6.03	mg/kg	0.08	.			NF-SD14
X845068	X8K0029	NF-SD14	7440473	CR	5.02	mg/kg	0.22	.			NF-SD14
X845068	X8K0029	NF-SD14	7440508	CU	13.6	mg/kg	0.17	.			NF-SD14
X845068	X8K0029	NF-SD14	7439896	FE	19500	mg/kg	7.2	.			NF-SD14
X845068	X8K0029	NF-SD14	7439954	MG	1600	mg/kg	13.1	.			NF-SD14
X845068	X8K0029	NF-SD14	7439965	MN	372	mg/kg	0.3	.	J-	J-	NF-SD14
X845068	X8K0029	NF-SD14	7440020	NI	7.76	mg/kg	0.26	.			NF-SD14
X845068	X8K0029	NF-SD14	7439921	PB	70.1	mg/kg	0.4	.			NF-SD14

CASE NUMBER	SAMPLE DELIVERY GROUP	SAMPLE ID	CASNUM	ANALYTE	CONC	RESULT UNITS	MDL	FINAL VALIDATION QUALIFIER	IDEQ QUAL	COMB QUAL	STATLOC
X845068	X8K0029	NF-SD14	7782492	SE	4.4	mg/kg	1.2	U		U	NF-SD14
X845068	X8K0029	NF-SD14	7440622	V	7.78	mg/kg	0.17	.			NF-SD14
X845068	X8K0029	NF-SD14	7440666	ZN	190	mg/kg	0.4	.			NF-SD14
X845073	X8K0029	NF-SD14	7440382	AS	11	mg/kg	0.144	.			NF-SD14
X845075	X8K0029	NF-SD14	7440360	SB	1.91	mg/kg	0.063	.			NF-SD14
X845073	X8K0029	NF-SD14	7440280	TL	0.1	mg/kg	0.0115	U		U	NF-SD14
X845251	X8K0029	NF-SD14	7439976	HG	0.036	mg/kg	0.012	U		U	NF-SD14
X845076	X8K0029	NF-SD14	NA	%Solids	91.8	%	.	.			NF-SD14
X845068	X8K0029	NF-SD15	7440224	AG	0.69	mg/kg	0.28	U		U	NF-SD15
X845068	X8K0029	NF-SD15	7429905	AL	7390	mg/kg	6.9	.			NF-SD15
X845068	X8K0029	NF-SD15	7440393	BA	57	mg/kg	0.25	.			NF-SD15
X845068	X8K0029	NF-SD15	7440417	BE	0.38	mg/kg	0.11	.			NF-SD15
X845068	X8K0029	NF-SD15	7440702	CA	988	mg/kg	6.8	.			NF-SD15
X845068	X8K0029	NF-SD15	7440439	CD	0.59	mg/kg	0.08	.			NF-SD15
X845068	X8K0029	NF-SD15	7440484	CO	6.45	mg/kg	0.1	.			NF-SD15
X845068	X8K0029	NF-SD15	7440473	CR	8.32	mg/kg	0.28	.			NF-SD15
X845068	X8K0029	NF-SD15	7440508	CU	26.3	mg/kg	0.22	.			NF-SD15
X845068	X8K0029	NF-SD15	7439896	FE	18100	mg/kg	9.1	.			NF-SD15
X845068	X8K0029	NF-SD15	7439954	MG	3300	mg/kg	16.6	.			NF-SD15
X845068	X8K0029	NF-SD15	7439965	MN	161	mg/kg	0.39	.	J-	J-	NF-SD15
X845068	X8K0029	NF-SD15	7440020	NI	9.24	mg/kg	0.33	.			NF-SD15
X845068	X8K0029	NF-SD15	7439921	PB	130	mg/kg	0.5	.			NF-SD15
X845068	X8K0029	NF-SD15	7782492	SE	5.5	mg/kg	1.5	U		U	NF-SD15
X845068	X8K0029	NF-SD15	7440622	V	9.43	mg/kg	0.22	.			NF-SD15
X845068	X8K0029	NF-SD15	7440666	ZN	182	mg/kg	0.5	.			NF-SD15
X845073	X8K0029	NF-SD15	7440382	AS	13.4	mg/kg	0.182	.			NF-SD15
X845075	X8K0029	NF-SD15	7440360	SB	0.895	mg/kg	0.08	.			NF-SD15
X845073	X8K0029	NF-SD15	7440280	TL	0.1	mg/kg	0.0146	U		U	NF-SD15
X845251	X8K0029	NF-SD15	7439976	HG	0.046	mg/kg	0.015	U		U	NF-SD15
X845076	X8K0029	NF-SD15	NA	%Solids	72.4	%	.	.			NF-SD15
X845068	X8K0029	NF-SD16	7440224	AG	0.5	mg/kg	0.2	U		U	NF-SD16
X845068	X8K0029	NF-SD16	7429905	AL	6530	mg/kg	5	.			NF-SD16
X845068	X8K0029	NF-SD16	7440393	BA	62.7	mg/kg	0.18	.			NF-SD16
X845068	X8K0029	NF-SD16	7440417	BE	0.39	mg/kg	0.08	.			NF-SD16
X845068	X8K0029	NF-SD16	7440702	CA	599	mg/kg	4.9	.			NF-SD16
X845068	X8K0029	NF-SD16	7440439	CD	0.38	mg/kg	0.06	.			NF-SD16
X845068	X8K0029	NF-SD16	7440484	CO	6.93	mg/kg	0.07	.			NF-SD16
X845068	X8K0029	NF-SD16	7440473	CR	6.69	mg/kg	0.2	.			NF-SD16
X845068	X8K0029	NF-SD16	7440508	CU	36.1	mg/kg	0.16	.	J	J	NF-SD16
X845068	X8K0029	NF-SD16	7439896	FE	28600	mg/kg	6.6	.	J	J	NF-SD16
X845068	X8K0029	NF-SD16	7439954	MG	3410	mg/kg	12	.			NF-SD16
X845068	X8K0029	NF-SD16	7439965	MN	268	mg/kg	0.28	.	J-	J-	NF-SD16
X845068	X8K0029	NF-SD16	7440020	NI	13.6	mg/kg	0.24	.	J	J	NF-SD16
X845068	X8K0029	NF-SD16	7439921	PB	88.1	mg/kg	0.3	.			NF-SD16
X845068	X8K0029	NF-SD16	7782492	SE	4	mg/kg	1.1	U		U	NF-SD16
X845068	X8K0029	NF-SD16	7440622	V	15.9	mg/kg	0.16	.	J	J	NF-SD16
X845068	X8K0029	NF-SD16	7440666	ZN	129	mg/kg	0.3	.			NF-SD16
X845073	X8K0029	NF-SD16	7440382	AS	7.81	mg/kg	0.132	.			NF-SD16
X845075	X8K0029	NF-SD16	7440360	SB	0.862	mg/kg	0.058	.			NF-SD16
X845073	X8K0029	NF-SD16	7440280	TL	0.1	mg/kg	0.0106	U		U	NF-SD16
X845251	X8K0029	NF-SD16	7439976	HG	0.033	mg/kg	0.011	U	J	UJ	NF-SD16
X845076	X8K0029	NF-SD16	NA	%Solids	100	%	.	.			NF-SD16
X845068	X8K0029	NF-SD17	7440224	AG	0.59	mg/kg	0.24	U		U	NF-SD17
X845068	X8K0029	NF-SD17	7429905	AL	4650	mg/kg	5.9	.			NF-SD17
X845068	X8K0029	NF-SD17	7440393	BA	38.2	mg/kg	0.21	.			NF-SD17
X845068	X8K0029	NF-SD17	7440417	BE	0.24	mg/kg	0.1	U		U	NF-SD17
X845068	X8K0029	NF-SD17	7440702	CA	541	mg/kg	5.8	.			NF-SD17
X845068	X8K0029	NF-SD17	7440439	CD	0.31	mg/kg	0.07	.			NF-SD17
X845068	X8K0029	NF-SD17	7440484	CO	4.03	mg/kg	0.09	.			NF-SD17
X845068	X8K0029	NF-SD17	7440473	CR	5.35	mg/kg	0.24	.			NF-SD17
X845068	X8K0029	NF-SD17	7440508	CU	10.8	mg/kg	0.19	.	J	J	NF-SD17
X845068	X8K0029	NF-SD17	7439896	FE	14200	mg/kg	7.8	.	J	J	NF-SD17
X845068	X8K0029	NF-SD17	7439954	MG	2610	mg/kg	14.1	.			NF-SD17
X845068	X8K0029	NF-SD17	7439965	MN	219	mg/kg	0.33	.	J-	J-	NF-SD17
X845068	X8K0029	NF-SD17	7440020	NI	6.93	mg/kg	0.28	.	J	J	NF-SD17
X845068	X8K0029	NF-SD17	7439921	PB	58.6	mg/kg	0.4	.			NF-SD17
X845068	X8K0029	NF-SD17	7782492	SE	4.7	mg/kg	1.3	U		U	NF-SD17
X845068	X8K0029	NF-SD17	7440622	V	5.59	mg/kg	0.19	.	J	J	NF-SD17

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X845068	X8K0029	NF-SD17	7440666	ZN	92.7	mg/kg	0.4	.			NF-SD17
X845073	X8K0029	NF-SD17	7440382	AS	10.7	mg/kg	0.156	.			NF-SD17
X845075	X8K0029	NF-SD17	7440360	SB	0.87	mg/kg	0.068	.			NF-SD17
X845073	X8K0029	NF-SD17	7440280	TL	0.1	mg/kg	0.0125	U		U	NF-SD17
X845251	X8K0029	NF-SD17	7439976	HG	0.112	mg/kg	0.013	.	J	J	NF-SD17
X845076	X8K0029	NF-SD17	NA	%Solids	84.9	%	.	.			NF-SD17
X845068	X8K0029	NF-SD18	7440224	AG	0.61	mg/kg	0.24	U		U	NF-SD18
X845068	X8K0029	NF-SD18	7429905	AL	9840	mg/kg	6.1	.			NF-SD18
X845068	X8K0029	NF-SD18	7440393	BA	90.9	mg/kg	0.22	.			NF-SD18
X845068	X8K0029	NF-SD18	7440417	BE	0.5	mg/kg	0.1	.			NF-SD18
X845068	X8K0029	NF-SD18	7440702	CA	1030	mg/kg	6	.			NF-SD18
X845068	X8K0029	NF-SD18	7440439	CD	0.24	mg/kg	0.07	U		U	NF-SD18
X845068	X8K0029	NF-SD18	7440484	CO	6.17	mg/kg	0.09	.			NF-SD18
X845068	X8K0029	NF-SD18	7440473	CR	9.25	mg/kg	0.24	.			NF-SD18
X845068	X8K0029	NF-SD18	7440508	CU	15.7	mg/kg	0.19	.			NF-SD18
X845068	X8K0029	NF-SD18	7439896	FE	17000	mg/kg	8	.			NF-SD18
X845068	X8K0029	NF-SD18	7439954	MG	3880	mg/kg	14.6	.			NF-SD18
X845068	X8K0029	NF-SD18	7439965	MN	338	mg/kg	0.34	.	J-	J-	NF-SD18
X845068	X8K0029	NF-SD18	7440020	NI	9.88	mg/kg	0.29	.			NF-SD18
X845068	X8K0029	NF-SD18	7439921	PB	44.8	mg/kg	0.4	.			NF-SD18
X845068	X8K0029	NF-SD18	7782492	SE	4.9	mg/kg	1.3	U		U	NF-SD18
X845068	X8K0029	NF-SD18	7440622	V	11.1	mg/kg	0.19	.			NF-SD18
X845068	X8K0029	NF-SD18	7440666	ZN	68.6	mg/kg	0.4	.			NF-SD18
X845073	X8K0029	NF-SD18	7440382	AS	7.47	mg/kg	0.161	.			NF-SD18
X845075	X8K0029	NF-SD18	7440360	SB	0.713	mg/kg	0.071	.			NF-SD18
X845073	X8K0029	NF-SD18	7440280	TL	0.1	mg/kg	0.0129	U		U	NF-SD18
X845251	X8K0029	NF-SD18	7439976	HG	0.04	mg/kg	0.013	U		U	NF-SD18
X845076	X8K0029	NF-SD18	NA	%Solids	82.1	%	.	.			NF-SD18
X845068	X8K0029	NF-SD19	7440224	AG	0.6	mg/kg	0.24	U		U	NF-SD19
X845068	X8K0029	NF-SD19	7429905	AL	3240	mg/kg	6	.			NF-SD19
X845068	X8K0029	NF-SD19	7440393	BA	40.3	mg/kg	0.21	.			NF-SD19
X845068	X8K0029	NF-SD19	7440417	BE	0.24	mg/kg	0.1	U		U	NF-SD19
X845068	X8K0029	NF-SD19	7440702	CA	577	mg/kg	5.8	.			NF-SD19
X845068	X8K0029	NF-SD19	7440439	CD	0.24	mg/kg	0.07	U		U	NF-SD19
X845068	X8K0029	NF-SD19	7440484	CO	3.66	mg/kg	0.09	.			NF-SD19
X845068	X8K0029	NF-SD19	7440473	CR	3.58	mg/kg	0.24	.			NF-SD19
X845068	X8K0029	NF-SD19	7440508	CU	6.26	mg/kg	0.19	.			NF-SD19
X845068	X8K0029	NF-SD19	7439896	FE	10200	mg/kg	7.9	.			NF-SD19
X845068	X8K0029	NF-SD19	7439954	MG	1060	mg/kg	14.3	.			NF-SD19
X845068	X8K0029	NF-SD19	7439965	MN	295	mg/kg	0.33	.	J-	J-	NF-SD19
X845068	X8K0029	NF-SD19	7440020	NI	3.75	mg/kg	0.29	.			NF-SD19
X845068	X8K0029	NF-SD19	7439921	PB	34.1	mg/kg	0.4	.			NF-SD19
X845068	X8K0029	NF-SD19	7782492	SE	4.8	mg/kg	1.3	U		U	NF-SD19
X845068	X8K0029	NF-SD19	7440622	V	5.21	mg/kg	0.19	.			NF-SD19
X845068	X8K0029	NF-SD19	7440666	ZN	50.1	mg/kg	0.4	.			NF-SD19
X845073	X8K0029	NF-SD19	7440382	AS	4.38	mg/kg	0.157	.			NF-SD19
X845075	X8K0029	NF-SD19	7440360	SB	0.391	mg/kg	0.069	.			NF-SD19
X845073	X8K0029	NF-SD19	7440280	TL	0.1	mg/kg	0.0126	U		U	NF-SD19
X845251	X8K0029	NF-SD19	7439976	HG	0.039	mg/kg	0.013	U		U	NF-SD19
X845076	X8K0029	NF-SD19	NA	%Solids	84	%	.	.			NF-SD19
X845068	X8K0029	NF-SD20	7440224	AG	0.54	mg/kg	0.21	U		U	NF-SD20
X845068	X8K0029	NF-SD20	7429905	AL	7160	mg/kg	5.4	.			NF-SD20
X845068	X8K0029	NF-SD20	7440393	BA	51.8	mg/kg	0.19	.			NF-SD20
X845068	X8K0029	NF-SD20	7440417	BE	0.37	mg/kg	0.09	.			NF-SD20
X845068	X8K0029	NF-SD20	7440702	CA	483	mg/kg	5.3	.			NF-SD20
X845068	X8K0029	NF-SD20	7440439	CD	0.33	mg/kg	0.06	.			NF-SD20
X845068	X8K0029	NF-SD20	7440484	CO	6.12	mg/kg	0.08	.			NF-SD20
X845068	X8K0029	NF-SD20	7440473	CR	8.76	mg/kg	0.21	.			NF-SD20
X845068	X8K0029	NF-SD20	7440508	CU	18.7	mg/kg	0.17	.			NF-SD20
X845068	X8K0029	NF-SD20	7439896	FE	23400	mg/kg	7.1	.			NF-SD20
X845068	X8K0029	NF-SD20	7439954	MG	4040	mg/kg	12.9	.			NF-SD20
X845068	X8K0029	NF-SD20	7439965	MN	347	mg/kg	0.3	.	J-	J-	NF-SD20
X845068	X8K0029	NF-SD20	7440020	NI	11.1	mg/kg	0.26	.			NF-SD20
X845068	X8K0029	NF-SD20	7439921	PB	136	mg/kg	0.4	.			NF-SD20
X845068	X8K0029	NF-SD20	7782492	SE	4.3	mg/kg	1.2	U		U	NF-SD20
X845068	X8K0029	NF-SD20	7440622	V	8.86	mg/kg	0.17	.			NF-SD20
X845068	X8K0029	NF-SD20	7440666	ZN	146	mg/kg	0.4	.			NF-SD20
X845073	X8K0029	NF-SD20	7440382	AS	12.6	mg/kg	0.142	.			NF-SD20

CASE NUMBER	SAMPLE DELIVERY GROUP	SAMPLE ID	CASNUM	ANALYTE	CONC	RESULT UNITS	MDL	FINAL VALIDATION QUALIFIER	IDEQ QUAL	COMB QUAL	STATLOC
X845075	X8K0029	NF-SD20	7440360	SB	1.04	mg/kg	0.062	.			NF-SD20
X845073	X8K0029	NF-SD20	7440280	TL	0.1	mg/kg	0.0114	U		U	NF-SD20
X845251	X8K0029	NF-SD20	7439976	HG	0.035	mg/kg	0.012	U		U	NF-SD20
X845076	X8K0029	NF-SD20	NA	%Solids	93.1	%	.	.			NF-SD20
X845077	X8K0030	PBS	7440224	AG	0.5	mg/kg	0.2	U		U	Blank
X845077	X8K0030	PBS	7429905	AL	8	mg/kg	5	U		U	Blank
X845077	X8K0030	PBS	7440393	BA	0.2	mg/kg	0.18	U		U	Blank
X845077	X8K0030	PBS	7440417	BE	0.2	mg/kg	0.08	U		U	Blank
X845077	X8K0030	PBS	7440702	CA	10	mg/kg	4.9	U		U	Blank
X845077	X8K0030	PBS	7440439	CD	0.2	mg/kg	0.06	U		U	Blank
X845077	X8K0030	PBS	7440484	CO	0.6	mg/kg	0.07	U		U	Blank
X845077	X8K0030	PBS	7440473	CR	0.6	mg/kg	0.2	U		U	Blank
X845077	X8K0030	PBS	7440508	CU	1	mg/kg	0.16	U		U	Blank
X845077	X8K0030	PBS	7439896	FE	10	mg/kg	6.6	U		U	Blank
X845077	X8K0030	PBS	7439954	MG	20	mg/kg	12	U		U	Blank
X845077	X8K0030	PBS	7439965	MN	0.8	mg/kg	0.28	U		U	Blank
X845077	X8K0030	PBS	7440020	NI	1	mg/kg	0.24	U		U	Blank
X845077	X8K0030	PBS	7439921	PB	0.8	mg/kg	0.3	U		U	Blank
X845077	X8K0030	PBS	7782492	SE	4	mg/kg	1.1	U		U	Blank
X845077	X8K0030	PBS	7440622	V	0.5	mg/kg	0.16	U		U	Blank
X845077	X8K0030	PBS	7440666	ZN	1	mg/kg	0.3	U		U	Blank
X845077	X8K0030	LCSS	7440224	AG	4.88	mg/kg	0.2	.			LCS
X845077	X8K0030	LCSS	7429905	AL	100	mg/kg	5	.			LCS
X845077	X8K0030	LCSS	7440393	BA	98.8	mg/kg	0.18	.			LCS
X845077	X8K0030	LCSS	7440417	BE	97.8	mg/kg	0.08	.			LCS
X845077	X8K0030	LCSS	7440702	CA	1820	mg/kg	4.9	.			LCS
X845077	X8K0030	LCSS	7440439	CD	99	mg/kg	0.06	.			LCS
X845077	X8K0030	LCSS	7440484	CO	99.8	mg/kg	0.07	.			LCS
X845077	X8K0030	LCSS	7440473	CR	97.4	mg/kg	0.2	.			LCS
X845077	X8K0030	LCSS	7440508	CU	99.6	mg/kg	0.16	.			LCS
X845077	X8K0030	LCSS	7439896	FE	966	mg/kg	6.6	.			LCS
X845077	X8K0030	LCSS	7439954	MG	1960	mg/kg	12	.			LCS
X845077	X8K0030	LCSS	7439965	MN	97.1	mg/kg	0.28	.			LCS
X845077	X8K0030	LCSS	7440020	NI	96.1	mg/kg	0.24	.			LCS
X845077	X8K0030	LCSS	7439921	PB	96	mg/kg	0.3	.			LCS
X845077	X8K0030	LCSS	7782492	SE	94.3	mg/kg	1.1	.			LCS
X845077	X8K0030	LCSS	7440622	V	102	mg/kg	0.16	.			LCS
X845077	X8K0030	LCSS	7440666	ZN	97.2	mg/kg	0.3	.			LCS
X845077	X8K0030	NF-SD27MS1	7440224	AG	5.93	mg/kg	0.23	.			NF-SD27
X845077	X8K0030	NF-SD27MS1	7429905	AL	12100	mg/kg	5.8	.			NF-SD27
X845077	X8K0030	NF-SD27MS1	7440393	BA	240	mg/kg	0.21	.			NF-SD27
X845077	X8K0030	NF-SD27MS1	7440417	BE	115	mg/kg	0.1	.			NF-SD27
X845077	X8K0030	NF-SD27MS1	7440702	CA	3490	mg/kg	5.7	.			NF-SD27
X845077	X8K0030	NF-SD27MS1	7440439	CD	118	mg/kg	0.07	.			NF-SD27
X845077	X8K0030	NF-SD27MS1	7440484	CO	128	mg/kg	0.08	.			NF-SD27
X845077	X8K0030	NF-SD27MS1	7440473	CR	126	mg/kg	0.23	.			NF-SD27
X845077	X8K0030	NF-SD27MS1	7440508	CU	154	mg/kg	0.18	.			NF-SD27
X845077	X8K0030	NF-SD27MS1	7439896	FE	38900	mg/kg	7.6	.			NF-SD27
X845077	X8K0030	NF-SD27MS1	7439954	MG	9620	mg/kg	13.9	.			NF-SD27
X845077	X8K0030	NF-SD27MS1	7439965	MN	565	mg/kg	0.32	.			NF-SD27
X845077	X8K0030	NF-SD27MS1	7440020	NI	126	mg/kg	0.28	.			NF-SD27
X845077	X8K0030	NF-SD27MS1	7439921	PB	315	mg/kg	0.4	.			NF-SD27
X845077	X8K0030	NF-SD27MS1	7782492	SE	107	mg/kg	1.3	.			NF-SD27
X845077	X8K0030	NF-SD27MS1	7440622	V	135	mg/kg	0.18	.			NF-SD27
X845077	X8K0030	NF-SD27MS1	7440666	ZN	401	mg/kg	0.4	.			NF-SD27
X845077	X8K0030	NF-SD27MSD1	7440224	AG	5.93	mg/kg	0.23	.			NF-SD27
X845077	X8K0030	NF-SD27MSD1	7429905	AL	9370	mg/kg	5.8	.			NF-SD27
X845077	X8K0030	NF-SD27MSD1	7440393	BA	178	mg/kg	0.21	.			NF-SD27
X845077	X8K0030	NF-SD27MSD1	7440417	BE	115	mg/kg	0.1	.			NF-SD27
X845077	X8K0030	NF-SD27MSD1	7440702	CA	2710	mg/kg	5.7	.			NF-SD27
X845077	X8K0030	NF-SD27MSD1	7440439	CD	118	mg/kg	0.07	.			NF-SD27
X845077	X8K0030	NF-SD27MSD1	7440484	CO	125	mg/kg	0.08	.			NF-SD27
X845077	X8K0030	NF-SD27MSD1	7440473	CR	122	mg/kg	0.23	.			NF-SD27
X845077	X8K0030	NF-SD27MSD1	7440508	CU	177	mg/kg	0.18	.			NF-SD27
X845077	X8K0030	NF-SD27MSD1	7439896	FE	35400	mg/kg	7.6	.			NF-SD27
X845077	X8K0030	NF-SD27MSD1	7439954	MG	4570	mg/kg	13.9	.			NF-SD27
X845077	X8K0030	NF-SD27MSD1	7439965	MN	461	mg/kg	0.32	.			NF-SD27
X845077	X8K0030	NF-SD27MSD1	7440020	NI	133	mg/kg	0.28	.			NF-SD27

CASE NUMBER	SAMPLE DELIVERY GROUP	SAMPLE ID	CASNUM	ANALYTE	CONC	RESULT UNITS	MDL	FINAL VALIDATION QUALIFIER	IDEQ QUAL	COMB QUAL	STATLOC
X845077	X8K0030	NF-SD27MSD1	7439921	PB	332	mg/kg	0.4	.			NF-SD27
X845077	X8K0030	NF-SD27MSD1	7782492	SE	107	mg/kg	1.3	.			NF-SD27
X845077	X8K0030	NF-SD27MSD1	7440622	V	130	mg/kg	0.18	.			NF-SD27
X845077	X8K0030	NF-SD27MSD1	7440666	ZN	360	mg/kg	0.4	.			NF-SD27
X845077	X8K0030	NF-SD27MSD2	7429905	AL	12700	mg/kg	28.9	.			NF-SD27
X845077	X8K0030	NF-SD27MSD2	7440393	BA	250	mg/kg	1.04	.			NF-SD27
X845077	X8K0030	NF-SD27MSD2	7440702	CA	3740	mg/kg	28.3	.			NF-SD27
X845077	X8K0030	NF-SD27MSD2	7439896	FE	40900	mg/kg	38.2	.			NF-SD27
X845077	X8K0030	NF-SD27MSD2	7439954	MG	10200	mg/kg	69.4	.			NF-SD27
X845077	X8K0030	NF-SD27MSD2	7439965	MN	596	mg/kg	1.62	.			NF-SD27
X845077	X8K0030	NF-SD27MSD2	7440666	ZN	433	mg/kg	2	.			NF-SD27
X845078	X8K0030	PBS	7440382	AS	0.3	mg/kg	0.132	U		U	Blank
X845078	X8K0030	PBS	7440280	TL	0.1	mg/kg	0.0106	U		U	Blank
X845078	X8K0030	LCSS	7440382	AS	2.5	mg/kg	0.132	.			LCS
X845078	X8K0030	LCSS	7440280	TL	2.42	mg/kg	0.0106	.			LCS
X845078	X8K0030	NF-SD27MS1	7440382	AS	14.6	mg/kg	0.153	.			NF-SD27
X845078	X8K0030	NF-SD27MS1	7440280	TL	2.8	mg/kg	0.0123	.			NF-SD27
X845078	X8K0030	NF-SD27MSD1	7440382	AS	18	mg/kg	0.153	.			NF-SD27
X845078	X8K0030	NF-SD27MSD1	7440280	TL	2.76	mg/kg	0.0123	.			NF-SD27
X845078	X8K0030	NF-SD27MSD2	7440382	AS	16.6	mg/kg	0.763	.			NF-SD27
X845079	X8K0030	PBS	7440360	SB	0.3	mg/kg	0.058	U		U	Blank
X845079	X8K0030	LCSS	7440360	SB	2.72	mg/kg	0.058	.			LCS
X845079	X8K0030	NF-SD27MS1	7440360	SB	3.89	mg/kg	0.067	.			NF-SD27
X845079	X8K0030	NF-SD27MSD1	7440360	SB	3.91	mg/kg	0.067	.			NF-SD27
X845079	X8K0030	NF-SD27MSD2	7440360	SB	3.76	mg/kg	0.335	.			NF-SD27
X845080	X8K0030	NF-SD27DUP1	NA	%Solids	85.5	%	.	.			NF-SD27
X845252	X8K0030	PBS	7439976	HG	0.033	mg/kg	0.011	U		U	Blank
X845252	X8K0030	LCSS	7439976	HG	0.873	mg/kg	0.011	.			LCS
X845252	X8K0030	NF-SD27MS1	7439976	HG	0.408	mg/kg	0.013	.			NF-SD27
X845252	X8K0030	NF-SD27MSD1	7439976	HG	0.42	mg/kg	0.013	.			NF-SD27
X845077	X8K0030	NF-SD21	7440224	AG	0.53	mg/kg	0.21	U		U	NF-SD21
X845077	X8K0030	NF-SD21	7429905	AL	5900	mg/kg	5.3	.			NF-SD21
X845077	X8K0030	NF-SD21	7440393	BA	61.6	mg/kg	0.19	.	J+	J+	NF-SD21
X845077	X8K0030	NF-SD21	7440417	BE	0.41	mg/kg	0.09	.			NF-SD21
X845077	X8K0030	NF-SD21	7440702	CA	518	mg/kg	5.2	.			NF-SD21
X845077	X8K0030	NF-SD21	7440439	CD	0.52	mg/kg	0.06	.			NF-SD21
X845077	X8K0030	NF-SD21	7440484	CO	6.62	mg/kg	0.08	.			NF-SD21
X845077	X8K0030	NF-SD21	7440473	CR	6.81	mg/kg	0.21	.			NF-SD21
X845077	X8K0030	NF-SD21	7440508	CU	23	mg/kg	0.17	.			NF-SD21
X845077	X8K0030	NF-SD21	7439896	FE	26200	mg/kg	7	.			NF-SD21
X845077	X8K0030	NF-SD21	7439954	MG	2600	mg/kg	12.7	.	J+	J+	NF-SD21
X845077	X8K0030	NF-SD21	7439965	MN	350	mg/kg	0.3	.	J+	J+	NF-SD21
X845077	X8K0030	NF-SD21	7440020	NI	8.75	mg/kg	0.25	.			NF-SD21
X845077	X8K0030	NF-SD21	7439921	PB	154	mg/kg	0.3	.			NF-SD21
X845077	X8K0030	NF-SD21	7782492	SE	4.2	mg/kg	1.2	U		U	NF-SD21
X845077	X8K0030	NF-SD21	7440622	V	7.89	mg/kg	0.17	.			NF-SD21
X845077	X8K0030	NF-SD21	7440666	ZN	197	mg/kg	0.4	.	J+	J+	NF-SD21
X845078	X8K0030	NF-SD21	7440382	AS	12.3	mg/kg	0.14	.	J+	J+	NF-SD21
X845079	X8K0030	NF-SD21	7440360	SB	0.893	mg/kg	0.061	.	J-	J-	NF-SD21
X845078	X8K0030	NF-SD21	7440280	TL	0.1	mg/kg	0.0112	U		U	NF-SD21
X845252	X8K0030	NF-SD21	7439976	HG	0.035	mg/kg	0.012	U		U	NF-SD21
X845080	X8K0030	NF-SD21	NA	%Solids	94.5	%	.	.			NF-SD21
X845077	X8K0030	NF-SD22	7440224	AG	0.61	mg/kg	0.25	U		U	NF-SD22
X845077	X8K0030	NF-SD22	7429905	AL	5670	mg/kg	6.1	.			NF-SD22
X845077	X8K0030	NF-SD22	7440393	BA	54.7	mg/kg	0.22	.	J+	J+	NF-SD22
X845077	X8K0030	NF-SD22	7440417	BE	0.45	mg/kg	0.1	.			NF-SD22
X845077	X8K0030	NF-SD22	7440702	CA	359	mg/kg	6	.			NF-SD22
X845077	X8K0030	NF-SD22	7440439	CD	0.61	mg/kg	0.07	.			NF-SD22
X845077	X8K0030	NF-SD22	7440484	CO	6.65	mg/kg	0.09	.			NF-SD22
X845077	X8K0030	NF-SD22	7440473	CR	7.4	mg/kg	0.25	.			NF-SD22
X845077	X8K0030	NF-SD22	7440508	CU	24.6	mg/kg	0.2	.			NF-SD22
X845077	X8K0030	NF-SD22	7439896	FE	27700	mg/kg	8.1	.			NF-SD22
X845077	X8K0030	NF-SD22	7439954	MG	2410	mg/kg	14.7	.	J+	J+	NF-SD22
X845077	X8K0030	NF-SD22	7439965	MN	486	mg/kg	0.34	.	J+	J+	NF-SD22
X845077	X8K0030	NF-SD22	7440020	NI	11.2	mg/kg	0.29	.			NF-SD22
X845077	X8K0030	NF-SD22	7439921	PB	194	mg/kg	0.4	.			NF-SD22
X845077	X8K0030	NF-SD22	7782492	SE	4.9	mg/kg	1.3	U		U	NF-SD22
X845077	X8K0030	NF-SD22	7440622	V	9.76	mg/kg	0.2	.			NF-SD22

CASE NUMBER	SAMPLE DELIVERY GROUP	SAMPLE ID	CASNUM	ANALYTE	CONC	RESULT UNITS	MDL	FINAL VALIDATION QUALIFIER	IDEQ QUAL	COMB QUAL	STATLOC
X845077	X8K0030	NF-SD22	7440666	ZN	190	mg/kg	0.4	.	J+	J+	NF-SD22
X845078	X8K0030	NF-SD22	7440382	AS	14.4	mg/kg	0.162	.	J+	J+	NF-SD22
X845079	X8K0030	NF-SD22	7440360	SB	2.77	mg/kg	0.071	.	J-	J-	NF-SD22
X845078	X8K0030	NF-SD22	7440280	TL	0.1	mg/kg	0.013	U		U	NF-SD22
X845252	X8K0030	NF-SD22	7439976	HG	0.04	mg/kg	0.013	U		U	NF-SD22
X845080	X8K0030	NF-SD22	NA	%Solids	81.5	%	.	.			NF-SD22
X845077	X8K0030	NF-SD23	7440224	AG	0.67	mg/kg	0.27	U		U	NF-SD23
X845077	X8K0030	NF-SD23	7429905	AL	7630	mg/kg	6.7	.			NF-SD23
X845077	X8K0030	NF-SD23	7440393	BA	72.8	mg/kg	0.24	.	J+	J+	NF-SD23
X845077	X8K0030	NF-SD23	7440417	BE	0.38	mg/kg	0.11	.			NF-SD23
X845077	X8K0030	NF-SD23	7440702	CA	730	mg/kg	6.5	.			NF-SD23
X845077	X8K0030	NF-SD23	7440439	CD	0.57	mg/kg	0.08	.			NF-SD23
X845077	X8K0030	NF-SD23	7440484	CO	5.51	mg/kg	0.1	.			NF-SD23
X845077	X8K0030	NF-SD23	7440473	CR	7.23	mg/kg	0.27	.			NF-SD23
X845077	X8K0030	NF-SD23	7440508	CU	29.2	mg/kg	0.21	.			NF-SD23
X845077	X8K0030	NF-SD23	7439896	FE	16700	mg/kg	8.8	.			NF-SD23
X845077	X8K0030	NF-SD23	7439954	MG	3660	mg/kg	16	.	J+	J+	NF-SD23
X845077	X8K0030	NF-SD23	7439965	MN	285	mg/kg	0.37	.	J+	J+	NF-SD23
X845077	X8K0030	NF-SD23	7440020	NI	9.86	mg/kg	0.32	.			NF-SD23
X845077	X8K0030	NF-SD23	7439921	PB	236	mg/kg	0.4	.			NF-SD23
X845077	X8K0030	NF-SD23	7782492	SE	5.3	mg/kg	1.5	U		U	NF-SD23
X845077	X8K0030	NF-SD23	7440622	V	9.15	mg/kg	0.21	.			NF-SD23
X845077	X8K0030	NF-SD23	7440666	ZN	178	mg/kg	0.5	.	J+	J+	NF-SD23
X845078	X8K0030	NF-SD23	7440382	AS	13.6	mg/kg	0.176	.	J+	J+	NF-SD23
X845079	X8K0030	NF-SD23	7440360	SB	1.07	mg/kg	0.077	.	J-	J-	NF-SD23
X845078	X8K0030	NF-SD23	7440280	TL	0.1	mg/kg	0.0141	U		U	NF-SD23
X845252	X8K0030	NF-SD23	7439976	HG	0.044	mg/kg	0.015	U		U	NF-SD23
X845080	X8K0030	NF-SD23	NA	%Solids	75.1	%	.	.			NF-SD23
X845077	X8K0030	NF-SD24	7440224	AG	0.56	mg/kg	0.23	U		U	NF-SD24
X845077	X8K0030	NF-SD24	7429905	AL	6940	mg/kg	5.6	.			NF-SD24
X845077	X8K0030	NF-SD24	7440393	BA	71.2	mg/kg	0.2	.	J+	J+	NF-SD24
X845077	X8K0030	NF-SD24	7440417	BE	0.4	mg/kg	0.09	.			NF-SD24
X845077	X8K0030	NF-SD24	7440702	CA	693	mg/kg	5.5	.			NF-SD24
X845077	X8K0030	NF-SD24	7440439	CD	0.69	mg/kg	0.06	.			NF-SD24
X845077	X8K0030	NF-SD24	7440484	CO	8.2	mg/kg	0.08	.			NF-SD24
X845077	X8K0030	NF-SD24	7440473	CR	6.97	mg/kg	0.23	.			NF-SD24
X845077	X8K0030	NF-SD24	7440508	CU	26.2	mg/kg	0.18	.			NF-SD24
X845077	X8K0030	NF-SD24	7439896	FE	21600	mg/kg	7.4	.			NF-SD24
X845077	X8K0030	NF-SD24	7439954	MG	2600	mg/kg	13.5	.	J+	J+	NF-SD24
X845077	X8K0030	NF-SD24	7439965	MN	444	mg/kg	0.32	.	J+	J+	NF-SD24
X845077	X8K0030	NF-SD24	7440020	NI	10.2	mg/kg	0.27	.			NF-SD24
X845077	X8K0030	NF-SD24	7439921	PB	205	mg/kg	0.4	.			NF-SD24
X845077	X8K0030	NF-SD24	7782492	SE	4.5	mg/kg	1.2	U		U	NF-SD24
X845077	X8K0030	NF-SD24	7440622	V	10.2	mg/kg	0.18	.			NF-SD24
X845077	X8K0030	NF-SD24	7440666	ZN	237	mg/kg	0.4	.	J+	J+	NF-SD24
X845078	X8K0030	NF-SD24	7440382	AS	18.2	mg/kg	0.149	.	J+	J+	NF-SD24
X845079	X8K0030	NF-SD24	7440360	SB	0.867	mg/kg	0.065	.	J-	J-	NF-SD24
X845078	X8K0030	NF-SD24	7440280	TL	0.127	mg/kg	0.0119	.			NF-SD24
X845252	X8K0030	NF-SD24	7439976	HG	0.037	mg/kg	0.012	U		U	NF-SD24
X845080	X8K0030	NF-SD24	NA	%Solids	88.7	%	.	.			NF-SD24
X845077	X8K0030	NF-SD25	7440224	AG	0.67	mg/kg	0.27	U		U	NF-SD25
X845077	X8K0030	NF-SD25	7429905	AL	5900	mg/kg	6.7	.			NF-SD25
X845077	X8K0030	NF-SD25	7440393	BA	59.8	mg/kg	0.24	.	J+	J+	NF-SD25
X845077	X8K0030	NF-SD25	7440417	BE	0.47	mg/kg	0.11	.			NF-SD25
X845077	X8K0030	NF-SD25	7440702	CA	403	mg/kg	6.6	.			NF-SD25
X845077	X8K0030	NF-SD25	7440439	CD	0.68	mg/kg	0.08	.			NF-SD25
X845077	X8K0030	NF-SD25	7440484	CO	6.09	mg/kg	0.1	.			NF-SD25
X845077	X8K0030	NF-SD25	7440473	CR	6.49	mg/kg	0.27	.			NF-SD25
X845077	X8K0030	NF-SD25	7440508	CU	33.3	mg/kg	0.21	.			NF-SD25
X845077	X8K0030	NF-SD25	7439896	FE	25100	mg/kg	8.8	.			NF-SD25
X845077	X8K0030	NF-SD25	7439954	MG	2420	mg/kg	16.1	.	J+	J+	NF-SD25
X845077	X8K0030	NF-SD25	7439965	MN	350	mg/kg	0.37	.	J+	J+	NF-SD25
X845077	X8K0030	NF-SD25	7440020	NI	10.1	mg/kg	0.32	.			NF-SD25
X845077	X8K0030	NF-SD25	7439921	PB	194	mg/kg	0.4	.			NF-SD25
X845077	X8K0030	NF-SD25	7782492	SE	5.4	mg/kg	1.5	U		U	NF-SD25
X845077	X8K0030	NF-SD25	7440622	V	8.16	mg/kg	0.21	.			NF-SD25
X845077	X8K0030	NF-SD25	7440666	ZN	196	mg/kg	0.5	.	J+	J+	NF-SD25
X845078	X8K0030	NF-SD25	7440382	AS	11	mg/kg	0.177	.	J+	J+	NF-SD25

CASE NUMBER	SAMPLE DELIVERY GROUP	SAMPLE ID	CASNUM	ANALYTE	CONC	RESULT UNITS	MDL	FINAL VALIDATION QUALIFIER	IDEQ QUAL	COMB QUAL	STATLOC
X845079	X8K0030	NF-SD25	7440360	SB	1.13	mg/kg	0.078	.	J-	J-	NF-SD25
X845078	X8K0030	NF-SD25	7440280	TL	0.1	mg/kg	0.0142	U		U	NF-SD25
X845252	X8K0030	NF-SD25	7439976	HG	0.044	mg/kg	0.015	U		U	NF-SD25
X845080	X8K0030	NF-SD25	NA	%Solids	74.7	%	.	.			NF-SD25
X845077	X8K0030	NF-SD26	7440224	AG	0.69	mg/kg	0.28	U		U	NF-SD26
X845077	X8K0030	NF-SD26	7429905	AL	6100	mg/kg	6.9	.			NF-SD26
X845077	X8K0030	NF-SD26	7440393	BA	81.6	mg/kg	0.25	.	J+	J+	NF-SD26
X845077	X8K0030	NF-SD26	7440417	BE	0.47	mg/kg	0.12	.			NF-SD26
X845077	X8K0030	NF-SD26	7440702	CA	475	mg/kg	6.8	.			NF-SD26
X845077	X8K0030	NF-SD26	7440439	CD	0.62	mg/kg	0.08	.			NF-SD26
X845077	X8K0030	NF-SD26	7440484	CO	8.21	mg/kg	0.1	.			NF-SD26
X845077	X8K0030	NF-SD26	7440473	CR	7.17	mg/kg	0.28	.			NF-SD26
X845077	X8K0030	NF-SD26	7440508	CU	36	mg/kg	0.22	.			NF-SD26
X845077	X8K0030	NF-SD26	7439896	FE	26900	mg/kg	9.1	.			NF-SD26
X845077	X8K0030	NF-SD26	7439954	MG	2290	mg/kg	16.6	.	J+	J+	NF-SD26
X845077	X8K0030	NF-SD26	7439965	MN	422	mg/kg	0.39	.	J+	J+	NF-SD26
X845077	X8K0030	NF-SD26	7440020	NI	10.5	mg/kg	0.33	.			NF-SD26
X845077	X8K0030	NF-SD26	7439921	PB	215	mg/kg	0.5	.			NF-SD26
X845077	X8K0030	NF-SD26	7782492	SE	5.5	mg/kg	1.5	U		U	NF-SD26
X845077	X8K0030	NF-SD26	7440622	V	8.98	mg/kg	0.22	.			NF-SD26
X845077	X8K0030	NF-SD26	7440666	ZN	196	mg/kg	0.5	.	J+	J+	NF-SD26
X845078	X8K0030	NF-SD26	7440382	AS	13.4	mg/kg	0.183	.	J+	J+	NF-SD26
X845079	X8K0030	NF-SD26	7440360	SB	0.864	mg/kg	0.08	.	J-	J-	NF-SD26
X845078	X8K0030	NF-SD26	7440280	TL	0.1	mg/kg	0.0147	U		U	NF-SD26
X845252	X8K0030	NF-SD26	7439976	HG	0.046	mg/kg	0.015	U		U	NF-SD26
X845080	X8K0030	NF-SD26	NA	%Solids	72.2	%	.	.			NF-SD26
X845077	X8K0030	NF-SD27	7440224	AG	0.58	mg/kg	0.23	U		U	NF-SD27
X845077	X8K0030	NF-SD27	7429905	AL	7200	mg/kg	5.8	.			NF-SD27
X845077	X8K0030	NF-SD27	7440393	BA	62.1	mg/kg	0.21	.	J+	J+	NF-SD27
X845077	X8K0030	NF-SD27	7440417	BE	0.5	mg/kg	0.1	.			NF-SD27
X845077	X8K0030	NF-SD27	7440702	CA	736	mg/kg	5.7	.			NF-SD27
X845077	X8K0030	NF-SD27	7440439	CD	0.84	mg/kg	0.07	.			NF-SD27
X845077	X8K0030	NF-SD27	7440484	CO	6.49	mg/kg	0.08	.			NF-SD27
X845077	X8K0030	NF-SD27	7440473	CR	8.51	mg/kg	0.23	.			NF-SD27
X845077	X8K0030	NF-SD27	7440508	CU	32.6	mg/kg	0.18	.			NF-SD27
X845077	X8K0030	NF-SD27	7439896	FE	27300	mg/kg	7.6	.			NF-SD27
X845077	X8K0030	NF-SD27	7439954	MG	3280	mg/kg	13.9	.	J+	J+	NF-SD27
X845077	X8K0030	NF-SD27	7439965	MN	343	mg/kg	0.32	.	J+	J+	NF-SD27
X845077	X8K0030	NF-SD27	7440020	NI	10.9	mg/kg	0.28	.			NF-SD27
X845077	X8K0030	NF-SD27	7439921	PB	204	mg/kg	0.4	.			NF-SD27
X845077	X8K0030	NF-SD27	7782492	SE	4.6	mg/kg	1.3	U		U	NF-SD27
X845077	X8K0030	NF-SD27	7440622	V	11.3	mg/kg	0.18	.			NF-SD27
X845077	X8K0030	NF-SD27	7440666	ZN	232	mg/kg	0.4	.	J+	J+	NF-SD27
X845078	X8K0030	NF-SD27	7440382	AS	9.18	mg/kg	0.153	.	J+	J+	NF-SD27
X845079	X8K0030	NF-SD27	7440360	SB	1.78	mg/kg	0.067	.	J-	J-	NF-SD27
X845078	X8K0030	NF-SD27	7440280	TL	0.1	mg/kg	0.0123	U		U	NF-SD27
X845252	X8K0030	NF-SD27	7439976	HG	0.038	mg/kg	0.013	U		U	NF-SD27
X845080	X8K0030	NF-SD27	NA	%Solids	86.5	%	.	.			NF-SD27
X845077	X8K0030	NF-SD28	7440224	AG	0.65	mg/kg	0.26	U		U	NF-SD28
X845077	X8K0030	NF-SD28	7429905	AL	7370	mg/kg	6.5	.			NF-SD28
X845077	X8K0030	NF-SD28	7440393	BA	64.9	mg/kg	0.23	.	J+	J+	NF-SD28
X845077	X8K0030	NF-SD28	7440417	BE	0.46	mg/kg	0.11	.			NF-SD28
X845077	X8K0030	NF-SD28	7440702	CA	708	mg/kg	6.3	.			NF-SD28
X845077	X8K0030	NF-SD28	7440439	CD	0.63	mg/kg	0.07	.			NF-SD28
X845077	X8K0030	NF-SD28	7440484	CO	9.59	mg/kg	0.09	.			NF-SD28
X845077	X8K0030	NF-SD28	7440473	CR	7.5	mg/kg	0.26	.			NF-SD28
X845077	X8K0030	NF-SD28	7440508	CU	22.2	mg/kg	0.21	.			NF-SD28
X845077	X8K0030	NF-SD28	7439896	FE	23700	mg/kg	8.6	.			NF-SD28
X845077	X8K0030	NF-SD28	7439954	MG	2870	mg/kg	15.6	.	J+	J+	NF-SD28
X845077	X8K0030	NF-SD28	7439965	MN	445	mg/kg	0.36	.	J+	J+	NF-SD28
X845077	X8K0030	NF-SD28	7440020	NI	11.4	mg/kg	0.31	.			NF-SD28
X845077	X8K0030	NF-SD28	7439921	PB	274	mg/kg	0.4	.			NF-SD28
X845077	X8K0030	NF-SD28	7782492	SE	5.2	mg/kg	1.4	U		U	NF-SD28
X845077	X8K0030	NF-SD28	7440622	V	11.6	mg/kg	0.21	.			NF-SD28
X845077	X8K0030	NF-SD28	7440666	ZN	217	mg/kg	0.4	.	J+	J+	NF-SD28
X845078	X8K0030	NF-SD28	7440382	AS	33.8	mg/kg	0.171	.	J+	J+	NF-SD28
X845079	X8K0030	NF-SD28	7440360	SB	0.938	mg/kg	0.075	.	J-	J-	NF-SD28
X845078	X8K0030	NF-SD28	7440280	TL	0.1	mg/kg	0.0137	U		U	NF-SD28

CASE NUMBER	SAMPLE DELIVERY GROUP	SAMPLE ID	CASNUM	ANALYTE	CONC	RESULT UNITS	MDL	FINAL VALIDATION QUALIFIER	IDEQ QUAL	COMB QUAL	STATLOC
X845252	X8K0030	NF-SD28	7439976	HG	0.043	mg/kg	0.014	U		U	NF-SD28
X845080	X8K0030	NF-SD28	NA	%Solids	77.2	%	.	.			NF-SD28

Highlighted columns IDEQQUAL and COMBQUAL entered by Alta to indicate qualifiers applied during data validation.
Entire electronic data deliverable is available upon request.