Water-Data Report 2013

15292000 SUSITNA RIVER AT GOLD CREEK, AK

Susitna River Basin
Upper Susitna River Subbasin

LOCATION.--Lat 62°46′04″, long 149°41′28″ referenced to North American Datum of 1927, in SW ¼ NE ¼ NW ¼ sec.20, T.31 N., R.2 W., Matanuska-Susitna Borough, AK, Hydrologic Unit 19020501, (Talkeetna Mts. D-6 quad), near left bank under Alaska Railroad bridge (AK Railroad mile 264.1), 0.1 mi downstream from Gold Creek, 0.9 mi north of Gold Creek railroad station, and 2.0 mi. downstream from Indian River.

DRAINAGE AREA.--6,160 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--August 1949 to September 1996 and May 2001 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 682.14 ft NAVD 88. Prior to June 6, 1957, non-recording gage at same site and datum. June 7, 1957 to June 2, 1964, water-stage recorder at site 0.3 mi upstream at same datum.

REMARKS.--Records fair, except for estimated daily discharges, which are poor. GOES satellite telemetry at station.

Suggested citation: U.S. Geological Survey, 2014, Water-resources data for the United States, Water Year 2013: U.S. Geological Survey Water-Data Report WDR-US-2013, site 15292000, accessed at http://wdr.water.usgs.gov/wy2013/pdfs/15292000.2013.pdf

15292000 SUSITNA RIVER AT GOLD CREEK, AK—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	15,100	e4,100	e3,050	e2,640	e2,240	e1,790	e1,500	e1,780	85,700	26,800	21,300	22,200
2	13,900	e3,800	e3,030	e2,630	e2,230	e1,780	e1,500	e1,790	86,800	26,300	20,300	24,000
3	13,000	e3,600	e3,010	e2,610	e2,220	e1,770	e1,500	e1,800	67,500	24,300	19,900	27,000
4	13,100	e3,500	e2,990	e2,600	e2,210	e1,760	e1,500	e1,860	54,400	21,400	19,600	30,600
5	13,500	e3,500	e2,980	e2,590	e2,190	e1,750	e1,500	e1,880	50,000	19,500	18,400	32,200
6	18,500	e3,500	e2,940	e2,580	e2,160	e1,740	e1,520	e1,900	42,800	18,500	17,000	30,500
7	23,600	e3,400	e2,920	e2,560	e2,140	e1,730	e1,540	e2,000	37,200	17,900	15,600	29,500
8	27,300	e3,400	e2,900	e2,550	e2,120	e1,720	e1,550	e2,100	38,700	18,800	15,400	31,400
9	24,200	e3,300	e2,890	e2,530	e2,100	e1,710	e1,560	e2,200	42,000	23,200	16,700	30,700
10	21,200	e3,300	e2,880	e2,520	e2,070	e1,700	e1,570	e2,300	41,300	22,400	16,600	27,900
11	17,100	e3,300	e2,870	e2,510	e2,060	e1,680	e1,580	e2,400	39,100	20,300	17,300	28,000
12	14,400	e3,300	e2,860	e2,490	e2,040	e1,670	e1,590	e2,500	35,900	18,000	20,100	31,200
13	12,500	e3,200	e2,850	e2,480	e2,020	e1,660	e1,600	e2,600	30,900	16,200	17,700	30,800
14	e11,000	e3,200	e2,840	e2,470	e2,010	e1,650	e1,610	e2,700	27,400	18,200	18,300	25,900
15	e10,300	e3,200	e2,830	e2,450	e1,990	e1,640	e1,620	e2,800	27,100	17,800	18,900	21,700
16	e9,700	e3,200	e2,820	e2,440	e1,980	e1,630	e1,630	e2,900	28,300	18,600	17,400	19,200
17	e9,200	e3,100	e2,800	e2,420	e1,960	e1,620	e1,640	e3,000	31,300	18,400	16,600	17,400
18	e8,600	e3,100	e2,790	e2,410	e1,940	e1,610	e1,650	e3,100	34,800	19,200	16,600	16,400
19	e7,900	e3,100	e2,780	e2,400	e1,920	e1,600	e1,660	e3,200	36,200	22,700	19,500	15,900
20	e7,100	e3,100	e2,770	e2,380	e1,900	e1,580	e1,670	e3,400	31,900	26,600	23,700	15,300
21	e6,500	e3,100	e2,760	e2,370	e1,880	e1,570	e1,680	e3,600	30,100	26,300	37,300	14,300
22	e6,000	e3,100	e2,750	e2,360	e1,860	e1,560	e1,690	e3,700	28,200	22,600	45,400	13,200
23	e5,500	e3,100	e2,740	e2,340	e1,850	e1,550	e1,700	e4,500	26,000	20,100	39,700	12,200
24	e5,500	e3,100	e2,730	e2,330	e1,840	e1,540	e1,710	e7,100	21,600	19,300	36,600	11,300
25	e5,000	e3,100	e2,710	e2,320	e1,830	e1,530	e1,720	e14,000	20,800	19,800	30,400	11,300
26	e5,000	e3,100	e2,700	e2,300	e1,820	e1,520	e1,730	e28,000	22,200	19,900	24,500	11,700
27	e4,700	e3,100	e2,690	e2,280	e1,810	e1,510	e1,740	e38,700	25,400	19,000	20,000	12,400
28	e4,700	e3,100	e2,680	e2,270	e1,800	e1,500	e1,750	e51,000	27,800	18,200	18,900	12,400
29	e4,400	e3,080	e2,670	e2,270	---	e1,500	e1,760	64,300	29,000	17,500	19,600	11,500
30	e4,400	e3,070	e2,660	e2,260	---	e1,500	e1,770	70,700	28,900	19,700	21,500	10,600
31	e4,100	---	e2,650	e2,250	---	e1,500	---	78,000	---	22,100	21,500	---
Total	347,000	98,150	87,540	75,610	56,190	50,570	48,740	411,810	1,129,300	639,600	682,300	628,700
Mean	11,190	3,272	2,824	2,439	2,007	1,631	1,625	13,280	37,640	20,630	22,010	20,960
Max	27,300	4,100	3,050	2,640	2,240	1,790	1,770	78,000	86,800	26,800	45,400	32,200
Min	4,100	3,070	2,650	2,250	1,800	1,500	1,500	1,780	20,800	16,200	15,400	10,600
Ac-ft	688,300	194,700	173,600	150,000	111,500	100,300	96,680	816,800	2,240,000	1,269,000	1,353,000	1,247,000
Cfsm	1.82	0.53	0.46	0.40	0.33	0.26	0.26	2.16	6.11	3.35	3.57	3.40
In.	2.10	0.59	0.53	0.46	0.34	0.31	0.29	2.49	6.82	3.86	4.12	3.80

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 2013, BY WATER YEAR (WY) #

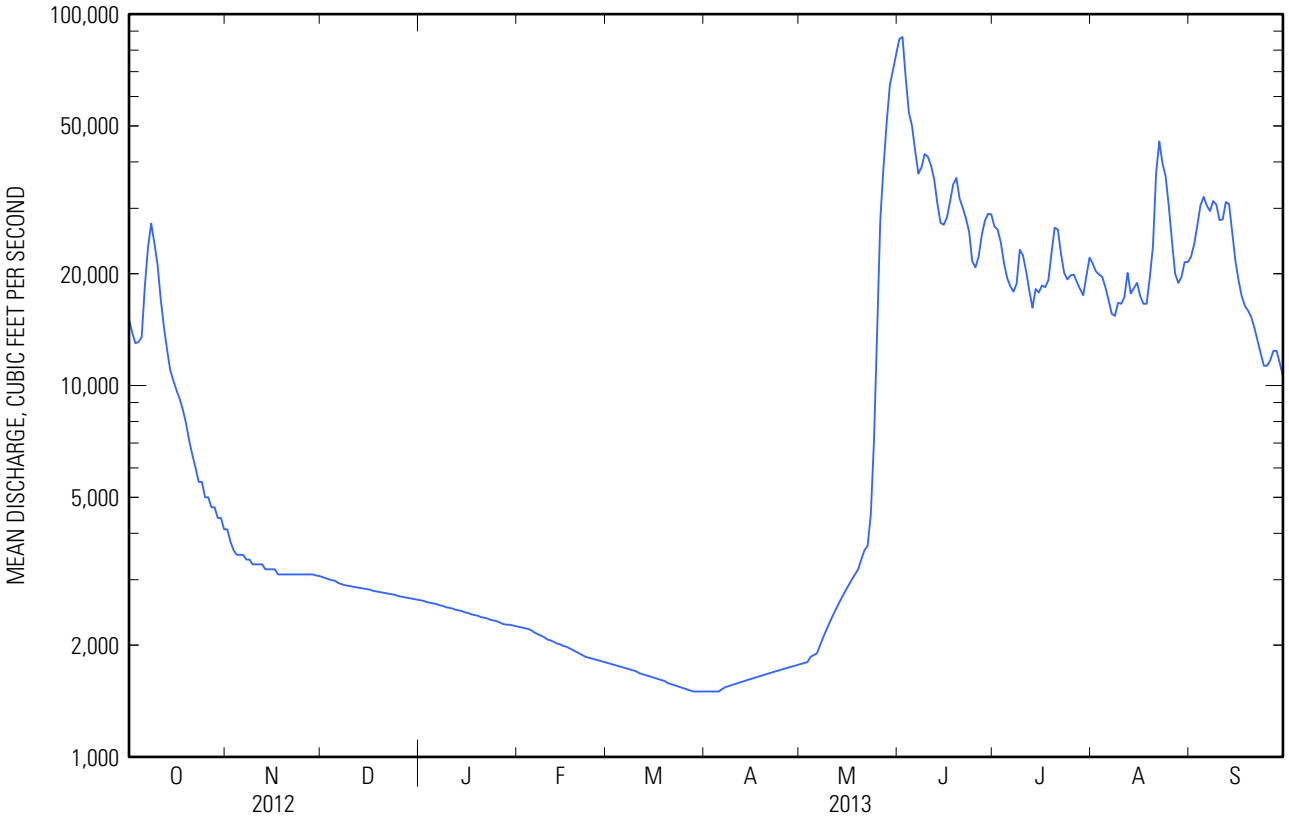
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	6,377	2,678	1,909	1,609	1,429	1,307	1,760	14,240	26,700	23,730	21,300	13,980
Max	12,680	5,394	3,264	2,452	2,243	1,900	4,547	26,940	50,580	34,400	37,870	26,510
(WY)	(1987)	(2003)	(1958)	(1961)	(2003)	(1968)	(2009)	(2005)	(1964)	(1963)	(1981)	(1990)
Min	3,124	1,215	866	724	723	713	745	3,745	15,500	16,010	8,879	5,093
(WY)	(1970)	(1970)	(1970)	(1969)	(1969)	(1964)	(1964)	(1971)	(1969)	(1996)	(1969)	(1969)

15292000 SUSITNA RIVER AT GOLD CREEK, AK—Continued

SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1949 - 2013#	
Annual total	4,354,950		4,255,510			
Annual mean	11,900		11,660		9,791	
Highest annual mean					13,020	1990
Lowest annual mean					5,597	1969
Highest daily mean	70,800	Sep 22	86,800	Jun 2	86,800	Jun 2, 2013
Lowest daily mean	1,490	Mar 29	1,500	Mar 28	600	Feb 16, 1950
Annual seven-day minimum	1,490	Mar 29	1,500	Mar 28	614	Feb 16, 1950
Maximum peak flow			90,700	Jun 2	90,700	Jun 7, 1964
Maximum peak stage			16.58	Jun 2	16.58	Jun 7, 1964
Annual runoff (ac-ft)	8,638,000		8,441,000		7,093,000	
Annual runoff (cfsm)	1.93		1.89		1.59	
Annual runoff (inches)	26.30		25.70		21.60	
10 percent exceeds	31,100		29,200		25,400	
50 percent exceeds	4,700		3,100		3,400	
90 percent exceeds	1,580		1,660		1,200	

See Period of Record; partial years used in monthly statistics and break in record



15292000 SUSITNA RIVER AT GOLD CREEK, AK—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1949-1958, 1962, 1967-68, 1974-1986, and 2012-2013.

WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Part 1 of 3

[%, percent; FNU, Formazin nephelometric units; LED, light-emitting diode; NTRU, nephelometric turbidity ratio unit; ft, feet; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; <, less than; E, estimated]

Date	Sample start time	Stream width, ft (00004)	Location in cross section, distance from left bank looking down-stream, ft (00009)	Discharge, instanta-neous, ft³/s (00061)	Discharge, ft³/s (00060)	Sampler type (84164)	Sampling method (82398)	Specific conduc-tance, water, unfiltered, µS/cm at 25°C (00095)
March 27, 2013	**1610**	195	--	--	1,510	US D-95 plastic	EDI	244
March 27, 2013	**1633**	195	40.0	--	1,510	--	EDI	272
March 27, 2013	**1634**	195	70.0	--	1,510	--	EDI	244
March 27, 2013	**1635**	195	120	--	1,510	--	EDI	240
March 27, 2013	**1636**	195	140	--	1,510	--	EDI	261
March 27, 2013	**1637**	195	160	--	1,510	--	EDI	242
June 6, 2013	**1430**	478	--	41,700	--	US D-95 plastic	EDI	96
June 6, 2013	**1442**	478	66.0	41,600	--	--	EDI	97
June 6, 2013	**1444**	478	131	41,600	--	--	EDI	97
June 6, 2013	**1446**	478	187	41,600	--	--	EDI	97
June 6, 2013	**1448**	478	248	41,600	--	--	EDI	94
June 6, 2013	**1450**	478	330	41,600	--	--	EDI	91
July 13, 2013	**1608**	396	--	15,600	--	US DH-95 Teflon	EDI	160
July 13, 2013	**1619**	396	307	15,600	--	--	EDI	153
July 13, 2013	**1621**	396	267	15,600	--	--	EDI	159
July 13, 2013	**1622**	396	233	15,600	--	--	EDI	162
July 13, 2013	**1623**	396	192	15,500	--	--	EDI	163
July 13, 2013	**1624**	396	141	15,500	--	--	EDI	163
August 15, 2013	**1540**	406	--	19,300	--	US D-95 plastic	EDI	165
August 15, 2013	**1550**	406	257	19,300	--	--	EDI	163
August 15, 2013	**1551**	406	193	19,300	--	--	EDI	165
August 15, 2013	**1552**	406	142	19,300	--	--	EDI	165
August 15, 2013	**1553**	406	103	19,200	--	--	EDI	166
August 15, 2013	**1554**	406	50.0	19,200	--	--	EDI	166
September 26, 2013	**1430**	354	--	11,500	--	US D-95 plastic	EDI	--
September 26, 2013	**1444**	354	233	11,600	--	--	EDI	155
September 26, 2013	**1447**	354	174	11,600	--	--	EDI	171
September 26, 2013	**1448**	354	134	11,600	--	--	EDI	175
September 26, 2013	**1449**	354	104	11,600	--	--	EDI	175
September 26, 2013	**1450**	354	69.0	11,600	--	--	EDI	180

15292000 SUSITNA RIVER AT GOLD CREEK, AK—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
Part 2 of 3

[%, percent; FNU, Formazin nephelometric units; LED, light-emitting diode; NTRU, nephelometric turbidity ratio unit; ft, feet; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; <, less than; E, estimated]

Date	Sample start time	pH, water, unfiltered, field, standard units (00400)	Temperature, water, °C (00010)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, water, unfiltered, mg/L (00300)	Dissolved oxygen, water, unfiltered, % saturation (00301)	Turbidity, water, unfiltered, broad band light source (400-680 nm), detectors at multiple angles including 90 +/- 30 degrees, ratiometric correction, NTRU (63676)	Turbidity, water, unfiltered, monochrome near infrared LED light, 780-900 nm, detection angle 90 +/- 2.5 degrees, FNU (63680)
March 27, 2013	**1610**	7.7	0.0	--	15.1	--	< 2.0	0.0
March 27, 2013	**1633**	7.6	.0	--	15.1	--	--	.1
March 27, 2013	**1634**	7.7	.0	--	15.1	--	--	.0
March 27, 2013	**1635**	7.7	.0	--	15.1	--	--	.0
March 27, 2013	**1636**	7.7	.0	--	15.1	--	--	.0
March 27, 2013	**1637**	7.7	.0	--	14.3	--	--	.0
June 6, 2013	**1430**	7.6	5.6	743	13.4	109	131	130
June 6, 2013	**1442**	7.6	5.7	743	13.1	107	--	140
June 6, 2013	**1444**	7.6	5.6	743	13.4	109	--	140
June 6, 2013	**1446**	7.5	5.6	743	13.5	110	--	130
June 6, 2013	**1448**	7.5	5.6	743	13.4	109	--	120
June 6, 2013	**1450**	7.5	5.7	743	13.3	109	--	120
July 13, 2013	**1608**	8.1	14.8	748	10.6	106	80.7	86
July 13, 2013	**1619**	8.2	14.8	748	10.6	106	--	75
July 13, 2013	**1621**	8.1	14.8	748	10.6	106	--	82
July 13, 2013	**1622**	8.1	14.8	748	10.6	106	--	86
July 13, 2013	**1623**	8.1	14.8	748	10.6	106	--	87
July 13, 2013	**1624**	8.1	15.1	748	10.6	107	--	89
August 15, 2013	**1540**	8.0	12.2	742	10.5	100	271	260
August 15, 2013	**1550**	8.0	12.3	742	10.5	101	--	260
August 15, 2013	**1551**	8.0	12.2	742	10.5	100	--	260
August 15, 2013	**1552**	8.0	12.2	742	10.5	100	--	260
August 15, 2013	**1553**	8.0	12.2	742	10.5	100	--	270
August 15, 2013	**1554**	8.0	12.4	742	10.5	101	--	270
September 26, 2013	**1430**	--	4.4	735	--	--	E 7.65	7.3
September 26, 2013	**1444**	7.6	4.5	735	12.6	101	--	6.2
September 26, 2013	**1447**	7.7	4.4	735	12.8	102	--	7.3
September 26, 2013	**1448**	7.7	4.4	735	12.8	102	--	8.0
September 26, 2013	**1449**	7.6	4.4	735	12.8	102	--	8.0
September 26, 2013	**1450**	7.6	4.5	735	12.8	102	--	7.3

15292000 SUSITNA RIVER AT GOLD CREEK, AK—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
Part 3 of 3

[%, percent; FNU, Formazin nephelometric units; LED, light-emitting diode; NTRU, nephelometric turbidity ratio unit; ft, feet; ft^3/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; <, less than; E, estimated]

Date	Sample start time	Suspended sediment concen-tration, mg/L (80154)	Suspended sediment discharge, tons per day (80155)	Suspended sediment, sieve diameter, percent smaller than 0.0625 mm (70331)	Suspended sediment, sieve diameter, percent smaller than 0.125 mm (70332)	Suspended sediment, sieve diameter, percent smaller than 0.25 mm (70333)	Suspended sediment, sieve diameter, percent smaller than 0.5 mm (70334)	Suspended sediment, sieve diameter, percent smaller than 1 mm (70335)
March 27, 2013	1610	1	--	44	--	--	--	--
March 27, 2013	1633	--	--	--	--	--	--	--
March 27, 2013	1634	--	--	--	--	--	--	--
March 27, 2013	1635	--	--	--	--	--	--	--
March 27, 2013	1636	--	--	--	--	--	--	--
March 27, 2013	1637	--	--	--	--	--	--	--
June 6, 2013	1430	554	62,400	54	--	--	--	--
June 6, 2013	1442	--	--	--	--	--	--	--
June 6, 2013	1444	--	--	--	--	--	--	--
June 6, 2013	1446	--	--	--	--	--	--	--
June 6, 2013	1448	--	--	--	--	--	--	--
June 6, 2013	1450	--	--	--	--	--	--	--
July 13, 2013	1608	--	--	--	--	--	--	--
July 13, 2013	1619	--	--	--	--	--	--	--
July 13, 2013	1621	--	--	--	--	--	--	--
July 13, 2013	1622	--	--	--	--	--	--	--
July 13, 2013	1623	--	--	--	--	--	--	--
July 13, 2013	1624	--	--	--	--	--	--	--
August 15, 2013	1540	602	31,400	80	86	93	99	100
August 15, 2013	1550	--	--	--	--	--	--	--
August 15, 2013	1551	--	--	--	--	--	--	--
August 15, 2013	1552	--	--	--	--	--	--	--
August 15, 2013	1553	--	--	--	--	--	--	--
August 15, 2013	1554	--	--	--	--	--	--	--
September 26, 2013	1430	20	621	60	75	87	96	100
September 26, 2013	1444	--	--	--	--	--	--	--
September 26, 2013	1447	--	--	--	--	--	--	--
September 26, 2013	1448	--	--	--	--	--	--	--
September 26, 2013	1449	--	--	--	--	--	--	--
September 26, 2013	1450	--	--	--	--	--	--	--

15292000 SUSITNA RIVER AT GOLD CREEK, AK—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Part 1 of 13

[$CaCO_3$, calcium carbonate; FNU, Formazin nephelometric units; LED, light-emitting diode; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO_2, silicon dioxide; ft, feet; ft^3/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Sample date-time	Stream width, ft (00004)	Location in cross section, distance from left bank looking downstream, ft (00009)	Temperature, water, °C (00010)	Temperature, air, °C (00020)	Barometric pressure, mm Hg (00025)	Discharge, ft^3/s (00060)	Discharge, instantaneous, ft^3/s (00061)	Gage height, ft (00065)	Specific conductance, water, unfiltered, µS/cm at 25°C (00095)
March 27, 2013 1610	195	--	0.0	--	--	1,510	--	--	244
March 27, 2013 1633	195	40.0	.0	--	--	1,510	--	--	272
March 27, 2013 1634	195	70.0	.0	--	--	1,510	--	--	244
March 27, 2013 1635	195	120	.0	--	--	1,510	--	--	240
March 27, 2013 1636	195	140	.0	--	--	1,510	--	--	261
March 27, 2013 1637	195	160	.0	--	--	1,510	--	--	242
June 6, 2013 1430	478	--	5.6	22.0	743	--	41,700	12.74	96
June 6, 2013 1442	478	66.0	5.7	22.0	743	--	41,600	--	97
June 6, 2013 1444	478	131	5.6	22.0	743	--	41,600	--	97
June 6, 2013 1446	478	187	5.6	22.0	743	--	41,600	--	97
June 6, 2013 1448	478	248	5.6	22.0	743	--	41,600	--	94
June 6, 2013 1450	478	330	5.7	22.0	743	--	41,600	--	91
July 13, 2013 1608	396	--	14.8	--	748	--	15,600	9.10	160
July 13, 2013 1619	396	307	14.8	--	748	--	15,600	--	153
July 13, 2013 1621	396	267	14.8	--	748	--	15,600	--	159
July 13, 2013 1622	396	233	14.8	--	748	--	15,600	--	162
July 13, 2013 1623	396	192	14.8	--	748	--	15,500	--	163
July 13, 2013 1624	396	141	15.1	--	748	--	15,500	--	163
August 15, 2013 1540	406	--	12.2	17.5	742	--	19,300	9.79	165
August 15, 2013 1550	406	257	12.3	17.5	742	--	19,300	--	163
August 15, 2013 1551	406	193	12.2	17.5	742	--	19,300	--	165
August 15, 2013 1552	406	142	12.2	17.5	742	--	19,300	--	165
August 15, 2013 1553	406	103	12.2	17.5	742	--	19,200	--	166
August 15, 2013 1554	406	50.0	12.4	17.5	742	--	19,200	--	166
September 26, 2013 1430	354	--	4.4	--	735	--	11,500	8.20	--
September 26, 2013 1444	354	233	4.5	--	735	--	11,600	--	155
September 26, 2013 1447	354	174	4.4	--	735	--	11,600	--	171
September 26, 2013 1448	354	134	4.4	--	735	--	11,600	--	175
September 26, 2013 1449	354	104	4.4	--	735	--	11,600	--	175
September 26, 2013 1450	354	69.0	4.5	--	735	--	11,600	--	180

15292000 SUSITNA RIVER AT GOLD CREEK, AK—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Part 2 of 13

[$CaCO_3$, calcium carbonate; FNU, Formazin nephelometric units; LED, light-emitting diode; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO_2, silicon dioxide; ft, feet; ft^3/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Sample date-time	Dissolved oxygen, water, unfiltered, mg/L (00300)	pH, water, unfiltered, field, standard units (00400)	pH, water, unfiltered, laboratory, standard units (00403)	Carbonate, water, filtered, inflection-point incremental titration method, field, mg/L (00452)	Bicarbonate, water, filtered, inflection-point, incremental titration method, field, mg/L (00453)	Ammonia, water, filtered, mg/L as N (00608)	Nitrite, water, filtered, mg/L as N (00613)	Nitrate plus nitrite, water, filtered, mg/L as N (00631)
March 27, 2013 1610	15.1	7.7	8.0	< 2	90	< .010	0.00157	0.151
March 27, 2013 1633	15.1	7.6	--	--	--	--	--	--
March 27, 2013 1634	15.1	7.7	--	--	--	--	--	--
March 27, 2013 1635	15.1	7.7	--	--	--	--	--	--
March 27, 2013 1636	15.1	7.7	--	--	--	--	--	--
March 27, 2013 1637	14.3	7.7	--	--	--	--	--	--
June 6, 2013 1430	13.4	7.6	E 7.8	< 2	39	< .010	< .0010	.044
June 6, 2013 1442	13.1	7.6	--	--	--	--	--	--
June 6, 2013 1444	13.4	7.6	--	--	--	--	--	--
June 6, 2013 1446	13.5	7.5	--	--	--	--	--	--
June 6, 2013 1448	13.4	7.5	--	--	--	--	--	--
June 6, 2013 1450	13.3	7.5	--	--	--	--	--	--
July 13, 2013 1608	10.6	8.1	8.1	< 2	57	< .010	.00128	.038
July 13, 2013 1619	10.6	8.2	--	--	--	--	--	--
July 13, 2013 1621	10.6	8.1	--	--	--	--	--	--
July 13, 2013 1622	10.6	8.1	--	--	--	--	--	--
July 13, 2013 1623	10.6	8.1	--	--	--	--	--	--
July 13, 2013 1624	10.6	8.1	--	--	--	--	--	--
August 15, 2013 1540	10.5	8.0	8.2	.3	60.6	< .010	.00984	.026
August 15, 2013 1550	10.5	8.0	--	--	--	--	--	--
August 15, 2013 1551	10.5	8.0	--	--	--	--	--	--
August 15, 2013 1552	10.5	8.0	--	--	--	--	--	--
August 15, 2013 1553	10.5	8.0	--	--	--	--	--	--
August 15, 2013 1554	10.5	8.0	--	--	--	--	--	--
September 26, 2013 1430	--	--	7.9	.100	79	< .010	< .0010	.066
September 26, 2013 1444	12.6	7.6	--	--	--	--	--	--
September 26, 2013 1447	12.8	7.7	--	--	--	--	--	--
September 26, 2013 1448	12.8	7.7	--	--	--	--	--	--
September 26, 2013 1449	12.8	7.6	--	--	--	--	--	--
September 26, 2013 1450	12.8	7.6	--	--	--	--	--	--

15292000 SUSITNA RIVER AT GOLD CREEK, AK—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Part 3 of 13

[$CaCO_3$, calcium carbonate; FNU, Formazin nephelometric units; LED, light-emitting diode; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO_2, silicon dioxide; ft, feet; ft^3/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Sample date-time	Phosphorus, water, unfiltered, mg/L as P (00665)	Phos-phorus, water, filtered, mg/L as P (00666)	Orthophos-phate, water, filtered, mg/L as P (00671)	Organic carbon, water, filtered, mg/L (00681)	Inorganic carbon, suspended sediment, total, mg/L (00688)	Organic carbon, suspended sediment, total, mg/L (00689)	Carbon (inorganic plus organic), suspended sediment, total, mg/L (00694)	Calcium, water, filtered, mg/L (00915)
March 27, 2013 1610	0.0080	0.0073	0.00845	1.21	< .03	0.093	0.093	35.9
March 27, 2013 1633	--	--	--	--	--	--	--	--
March 27, 2013 1634	--	--	--	--	--	--	--	--
March 27, 2013 1635	--	--	--	--	--	--	--	--
March 27, 2013 1636	--	--	--	--	--	--	--	--
March 27, 2013 1637	--	--	--	--	--	--	--	--
June 6, 2013 1430	.611	.0090	< .004	3.74	.752	3.34	4.09	12.0
June 6, 2013 1442	--	--	--	--	--	--	--	--
June 6, 2013 1444	--	--	--	--	--	--	--	--
June 6, 2013 1446	--	--	--	--	--	--	--	--
June 6, 2013 1448	--	--	--	--	--	--	--	--
June 6, 2013 1450	--	--	--	--	--	--	--	--
July 13, 2013 1608	.204	.0032	< .004	1.15	.369	1.20	1.57	20.4
July 13, 2013 1619	--	--	--	--	--	--	--	--
July 13, 2013 1621	--	--	--	--	--	--	--	--
July 13, 2013 1622	--	--	--	--	--	--	--	--
July 13, 2013 1623	--	--	--	--	--	--	--	--
July 13, 2013 1624	--	--	--	--	--	--	--	--
August 15, 2013 1540	.873	.0049	< .004	.50	2.38	2.32	4.70	23.0
August 15, 2013 1550	--	--	--	--	--	--	--	--
August 15, 2013 1551	--	--	--	--	--	--	--	--
August 15, 2013 1552	--	--	--	--	--	--	--	--
August 15, 2013 1553	--	--	--	--	--	--	--	--
August 15, 2013 1554	--	--	--	--	--	--	--	--
September 26, 2013 1430	.0300	< .0030	< .004	1.75	< .03	.298	.309	22.6
September 26, 2013 1444	--	--	--	--	--	--	--	--
September 26, 2013 1447	--	--	--	--	--	--	--	--
September 26, 2013 1448	--	--	--	--	--	--	--	--
September 26, 2013 1449	--	--	--	--	--	--	--	--
September 26, 2013 1450	--	--	--	--	--	--	--	--

15292000 SUSITNA RIVER AT GOLD CREEK, AK—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
Part 4 of 13

[$CaCO_3$, calcium carbonate; FNU, Formazin nephelometric units; LED, light-emitting diode; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO_2, silicon dioxide; ft, feet; ft^3/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Sample date-time	Calcium, water, unfiltered, recoverable, mg/L (00916)	Magnesium, water, filtered, mg/L (00925)	Magnesium, water, unfiltered, recoverable, mg/L (00927)	Sodium, water, unfiltered, recoverable, mg/L (00929)	Sodium, water, filtered, mg/L (00930)	Potassium, water, filtered, mg/L (00935)	Potassium, water, unfiltered, recoverable, mg/L (00937)	Chloride, water, filtered, mg/L (00940)	Sulfate, water, filtered, mg/L (00945)
March 27, 2013 1610	--	5.00	--	--	15.6	2.30	--	25.3	26.9
March 27, 2013 1633	--	--	--	--	--	--	--	--	--
March 27, 2013 1634	--	--	--	--	--	--	--	--	--
March 27, 2013 1635	--	--	--	--	--	--	--	--	--
March 27, 2013 1636	--	--	--	--	--	--	--	--	--
March 27, 2013 1637	--	--	--	--	--	--	--	--	--
June 6, 2013 1430	17.5	1.88	6.27	3.53	3.24	1.45	3.08	3.47	9.50
June 6, 2013 1442	--	--	--	--	--	--	--	--	--
June 6, 2013 1444	--	--	--	--	--	--	--	--	--
June 6, 2013 1446	--	--	--	--	--	--	--	--	--
June 6, 2013 1448	--	--	--	--	--	--	--	--	--
June 6, 2013 1450	--	--	--	--	--	--	--	--	--
July 13, 2013 1608	--	2.51	--	--	4.53	1.93	--	5.95	19.1
July 13, 2013 1619	--	--	--	--	--	--	--	--	--
July 13, 2013 1621	--	--	--	--	--	--	--	--	--
July 13, 2013 1622	--	--	--	--	--	--	--	--	--
July 13, 2013 1623	--	--	--	--	--	--	--	--	--
July 13, 2013 1624	--	--	--	--	--	--	--	--	--
August 15, 2013 1540	33.8	2.57	11.1	5.13	3.68	2.34	7.26	4.39	19.4
August 15, 2013 1550	--	--	--	--	--	--	--	--	--
August 15, 2013 1551	--	--	--	--	--	--	--	--	--
August 15, 2013 1552	--	--	--	--	--	--	--	--	--
August 15, 2013 1553	--	--	--	--	--	--	--	--	--
August 15, 2013 1554	--	--	--	--	--	--	--	--	--
September 26, 2013 1430	--	3.32	--	--	6.46	1.49	--	7.15	16.5
September 26, 2013 1444	--	--	--	--	--	--	--	--	--
September 26, 2013 1447	--	--	--	--	--	--	--	--	--
September 26, 2013 1448	--	--	--	--	--	--	--	--	--
September 26, 2013 1449	--	--	--	--	--	--	--	--	--
September 26, 2013 1450	--	--	--	--	--	--	--	--	--

15292000 SUSITNA RIVER AT GOLD CREEK, AK—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Part 5 of 13

[$CaCO_3$, calcium carbonate; FNU, Formazin nephelometric units; LED, light-emitting diode; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO_2, silicon dioxide; ft, feet; ft^3/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Sample date-time	Fluoride, water, filtered, mg/L (00950)	Silica, water, filtered, mg/L as SiO_2 (00955)	Arsenic, water, filtered, µg/L (01000)	Arsenic, water, unfiltered, µg/L (01002)	Barium, water, filtered, µg/L (01005)	Barium, water, unfiltered, recover-able, µg/L (01007)	Beryllium, water, filtered, µg/L (01010)	Beryllium, water, unfiltered, recover-able, µg/L (01012)	Boron, water, filtered, µg/L (01020)
March 27, 2013 1610	E .07	11.4	1.06	--	54.3	--	< .006	--	40.9
March 27, 2013 1633	--	--	--	--	--	--	--	--	--
March 27, 2013 1634	--	--	--	--	--	--	--	--	--
March 27, 2013 1635	--	--	--	--	--	--	--	--	--
March 27, 2013 1636	--	--	--	--	--	--	--	--	--
March 27, 2013 1637	--	--	--	--	--	--	--	--	--
June 6, 2013 1430	.038	4.74	1.04	6.63	20.9	158	.0064	< .19	13.7
June 6, 2013 1442	--	--	--	--	--	--	--	--	--
June 6, 2013 1444	--	--	--	--	--	--	--	--	--
June 6, 2013 1446	--	--	--	--	--	--	--	--	--
June 6, 2013 1448	--	--	--	--	--	--	--	--	--
June 6, 2013 1450	--	--	--	--	--	--	--	--	--
July 13, 2013 1608	.058	5.25	.938	--	38.8	--	< .006	--	16.0
July 13, 2013 1619	--	--	--	--	--	--	--	--	--
July 13, 2013 1621	--	--	--	--	--	--	--	--	--
July 13, 2013 1622	--	--	--	--	--	--	--	--	--
July 13, 2013 1623	--	--	--	--	--	--	--	--	--
July 13, 2013 1624	--	--	--	--	--	--	--	--	--
August 15, 2013 1540	.058	4.37	.962	9.97	44.1	368	< .006	< .19	15.9
August 15, 2013 1550	--	--	--	--	--	--	--	--	--
August 15, 2013 1551	--	--	--	--	--	--	--	--	--
August 15, 2013 1552	--	--	--	--	--	--	--	--	--
August 15, 2013 1553	--	--	--	--	--	--	--	--	--
August 15, 2013 1554	--	--	--	--	--	--	--	--	--
September 26, 2013 1430	.131	8.27	.765	--	30.5	--	.0071	--	16.7
September 26, 2013 1444	--	--	--	--	--	--	--	--	--
September 26, 2013 1447	--	--	--	--	--	--	--	--	--
September 26, 2013 1448	--	--	--	--	--	--	--	--	--
September 26, 2013 1449	--	--	--	--	--	--	--	--	--
September 26, 2013 1450	--	--	--	--	--	--	--	--	--

15292000 SUSITNA RIVER AT GOLD CREEK, AK—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Part 6 of 13

[$CaCO_3$, calcium carbonate; FNU, Formazin nephelometric units; LED, light-emitting diode; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO_2, silicon dioxide; ft, feet; ft^3/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Sample date-time	Cadmium, water, filtered, µg/L (01025)	Cadmium, water, unfiltered, µg/L (01027)	Chromium, water, filtered, µg/L (01030)	Chromium, water, unfiltered, recover-able, µg/L (01034)	Cobalt, water, filtered, µg/L (01035)	Cobalt, water, unfiltered, recover-able, µg/L (01037)	Copper, water, filtered, µg/L (01040)	Copper, water, unfiltered, recover-able, µg/L (01042)	Iron, water, unfiltered, recover-able, µg/L (01045)
March 27, 2013 1610	0.023	--	0.191	--	0.0415	--	< .8	--	--
March 27, 2013 1633	--	--	--	--	--	--	--	--	--
March 27, 2013 1634	--	--	--	--	--	--	--	--	--
March 27, 2013 1635	--	--	--	--	--	--	--	--	--
March 27, 2013 1636	--	--	--	--	--	--	--	--	--
March 27, 2013 1637	--	--	--	--	--	--	--	--	--
June 6, 2013 1430	.031	.214	.231	18.2	.304	6.20	2.28	20.4	12,300
June 6, 2013 1442	--	--	--	--	--	--	--	--	--
June 6, 2013 1444	--	--	--	--	--	--	--	--	--
June 6, 2013 1446	--	--	--	--	--	--	--	--	--
June 6, 2013 1448	--	--	--	--	--	--	--	--	--
June 6, 2013 1450	--	--	--	--	--	--	--	--	--
July 13, 2013 1608	.020	--	.349	--	.140	--	.882	--	--
July 13, 2013 1619	--	--	--	--	--	--	--	--	--
July 13, 2013 1621	--	--	--	--	--	--	--	--	--
July 13, 2013 1622	--	--	--	--	--	--	--	--	--
July 13, 2013 1623	--	--	--	--	--	--	--	--	--
July 13, 2013 1624	--	--	--	--	--	--	--	--	--
August 15, 2013 1540	.018	.510	.299	40.9	.139	10.5	< .8	26.0	20,600
August 15, 2013 1550	--	--	--	--	--	--	--	--	--
August 15, 2013 1551	--	--	--	--	--	--	--	--	--
August 15, 2013 1552	--	--	--	--	--	--	--	--	--
August 15, 2013 1553	--	--	--	--	--	--	--	--	--
August 15, 2013 1554	--	--	--	--	--	--	--	--	--
September 26, 2013 1430	.034	--	.200	--	.126	--	< .8	--	--
September 26, 2013 1444	--	--	--	--	--	--	--	--	--
September 26, 2013 1447	--	--	--	--	--	--	--	--	--
September 26, 2013 1448	--	--	--	--	--	--	--	--	--
September 26, 2013 1449	--	--	--	--	--	--	--	--	--
September 26, 2013 1450	--	--	--	--	--	--	--	--	--

15292000 SUSITNA RIVER AT GOLD CREEK, AK—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
Part 7 of 13

[$CaCO_3$, calcium carbonate; FNU, Formazin nephelometric units; LED, light-emitting diode; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO_2, silicon dioxide; ft, feet; ft^3/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Sample date-time	Iron, water, filtered, µg/L (01046)	Lead, water, filtered, µg/L (01049)	Lead, water, unfiltered, recover-able, µg/L (01051)	Manga-nese, water, unfiltered, recover-able, µg/L (01055)	Manga-nese, water, filtered, µg/L (01056)	Thallium, water, filtered, µg/L (01057)	Molyb-denum, water, filtered, µg/L (01060)	Molyb-denum, water, unfiltered, recover-able, µg/L (01062)	Nickel, water, filtered, µg/L (01065)
March 27, 2013 1610	5.40	0.0334	--	--	1.38	< .010	1.43	--	0.802
March 27, 2013 1633	--	--	--	--	--	--	--	--	--
March 27, 2013 1634	--	--	--	--	--	--	--	--	--
March 27, 2013 1635	--	--	--	--	--	--	--	--	--
March 27, 2013 1636	--	--	--	--	--	--	--	--	--
March 27, 2013 1637	--	--	--	--	--	--	--	--	--
June 6, 2013 1430	238	.101	2.17	245	15.6	< .010	.676	.707	1.41
June 6, 2013 1442	--	--	--	--	--	--	--	--	--
June 6, 2013 1444	--	--	--	--	--	--	--	--	--
June 6, 2013 1446	--	--	--	--	--	--	--	--	--
June 6, 2013 1448	--	--	--	--	--	--	--	--	--
June 6, 2013 1450	--	--	--	--	--	--	--	--	--
July 13, 2013 1608	76.4	.0359	--	--	4.42	.0124	1.20	--	.976
July 13, 2013 1619	--	--	--	--	--	--	--	--	--
July 13, 2013 1621	--	--	--	--	--	--	--	--	--
July 13, 2013 1622	--	--	--	--	--	--	--	--	--
July 13, 2013 1623	--	--	--	--	--	--	--	--	--
July 13, 2013 1624	--	--	--	--	--	--	--	--	--
August 15, 2013 1540	137	.0290	4.23	329	4.80	.0160	1.30	1.71	.987
August 15, 2013 1550	--	--	--	--	--	--	--	--	--
August 15, 2013 1551	--	--	--	--	--	--	--	--	--
August 15, 2013 1552	--	--	--	--	--	--	--	--	--
August 15, 2013 1553	--	--	--	--	--	--	--	--	--
August 15, 2013 1554	--	--	--	--	--	--	--	--	--
September 26, 2013 1430	40.1	.114	--	--	3.69	< .010	1.15	--	.958
September 26, 2013 1444	--	--	--	--	--	--	--	--	--
September 26, 2013 1447	--	--	--	--	--	--	--	--	--
September 26, 2013 1448	--	--	--	--	--	--	--	--	--
September 26, 2013 1449	--	--	--	--	--	--	--	--	--
September 26, 2013 1450	--	--	--	--	--	--	--	--	--

15292000 SUSITNA RIVER AT GOLD CREEK, AK—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
Part 8 of 13

[$CaCO_3$, calcium carbonate; FNU, Formazin nephelometric units; LED, light-emitting diode; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO_2, silicon dioxide; ft, feet; ft^3/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Sample date-time	Nickel, water, unfiltered, recover-able, µg/L (01067)	Silver, water, filtered, µg/L (01075)	Silver, water, unfiltered, recover-able, µg/L (01077)	Strontium, water, filtered, µg/L (01080)	Strontium, water, unfiltered, recoverable, micrograms per liter (01082)	Vanadium, water, filtered, µg/L (01085)	Zinc, water, filtered, µg/L (01090)	Zinc, water, unfiltered, recover-able, µg/L (01092)	Antimony, water, filtered, µg/L (01095)
March 27, 2013 1610	--	< .005	--	190	--	0.364	< 1.4	--	0.0965
March 27, 2013 1633	--	--	--	--	--	--	--	--	--
March 27, 2013 1634	--	--	--	--	--	--	--	--	--
March 27, 2013 1635	--	--	--	--	--	--	--	--	--
March 27, 2013 1636	--	--	--	--	--	--	--	--	--
March 27, 2013 1637	--	--	--	--	--	--	--	--	--
June 6, 2013 1430	18.1	< .005	.0694	51.2	82.1	.816	4.20	34.8	.147
June 6, 2013 1442	--	--	--	--	--	--	--	--	--
June 6, 2013 1444	--	--	--	--	--	--	--	--	--
June 6, 2013 1446	--	--	--	--	--	--	--	--	--
June 6, 2013 1448	--	--	--	--	--	--	--	--	--
June 6, 2013 1450	--	--	--	--	--	--	--	--	--
July 13, 2013 1608	--	< .005	--	90.6	--	.574	< 1.4	--	.249
July 13, 2013 1619	--	--	--	--	--	--	--	--	--
July 13, 2013 1621	--	--	--	--	--	--	--	--	--
July 13, 2013 1622	--	--	--	--	--	--	--	--	--
July 13, 2013 1623	--	--	--	--	--	--	--	--	--
July 13, 2013 1624	--	--	--	--	--	--	--	--	--
August 15, 2013 1540	30.3	< .005	.166	86.4	165	.657	< 1.4	66.4	.338
August 15, 2013 1550	--	--	--	--	--	--	--	--	--
August 15, 2013 1551	--	--	--	--	--	--	--	--	--
August 15, 2013 1552	--	--	--	--	--	--	--	--	--
August 15, 2013 1553	--	--	--	--	--	--	--	--	--
August 15, 2013 1554	--	--	--	--	--	--	--	--	--
September 26, 2013 1430	--	< .005	--	97.9	--	.365	< 1.4	--	.111
September 26, 2013 1444	--	--	--	--	--	--	--	--	--
September 26, 2013 1447	--	--	--	--	--	--	--	--	--
September 26, 2013 1448	--	--	--	--	--	--	--	--	--
September 26, 2013 1449	--	--	--	--	--	--	--	--	--
September 26, 2013 1450	--	--	--	--	--	--	--	--	--

15292000 SUSITNA RIVER AT GOLD CREEK, AK—Continued

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[$CaCO_3$, calcium carbonate; FNU, Formazin nephelometric units; LED, light-emitting diode; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO_2, silicon dioxide; ft, feet; ft^3/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Sample date-time	Aluminum, water, unfiltered, recover-able, µg/L (01105)	Aluminum, water, filtered, µg/L (01106)	Lithium, water, filtered, µg/L (01130)	Lithium, water, unfiltered, recoverable, micrograms per liter (01132)	Selenium, water, filtered, µg/L (01145)	Selenium, water, unfiltered, µg/L (01147)	Uranium (natural), water, filtered, µg/L (22703)	Alkalinity, water, filtered, fixed endpoint (pH 4.5) titration, laboratory, mg/L as $CaCO_3$ (29801)
March 27, 2013 1610	--	3.09	29.1	--	0.741	--	0.511	85.4
March 27, 2013 1633	--	--	--	--	--	--	--	--
March 27, 2013 1634	--	--	--	--	--	--	--	--
March 27, 2013 1635	--	--	--	--	--	--	--	--
March 27, 2013 1636	--	--	--	--	--	--	--	--
March 27, 2013 1637	--	--	--	--	--	--	--	--
June 6, 2013 1430	8,140	113	9.49	E 19.9	.274	.361	.213	33.3
June 6, 2013 1442	--	--	--	--	--	--	--	--
June 6, 2013 1444	--	--	--	--	--	--	--	--
June 6, 2013 1446	--	--	--	--	--	--	--	--
June 6, 2013 1448	--	--	--	--	--	--	--	--
June 6, 2013 1450	--	--	--	--	--	--	--	--
July 13, 2013 1608	--	72.8	10.1	--	.512	--	.377	50.8
July 13, 2013 1619	--	--	--	--	--	--	--	--
July 13, 2013 1621	--	--	--	--	--	--	--	--
July 13, 2013 1622	--	--	--	--	--	--	--	--
July 13, 2013 1623	--	--	--	--	--	--	--	--
July 13, 2013 1624	--	--	--	--	--	--	--	--
August 15, 2013 1540	14,800	123	12.0	31.3	.588	.876	.399	53.5
August 15, 2013 1550	--	--	--	--	--	--	--	--
August 15, 2013 1551	--	--	--	--	--	--	--	--
August 15, 2013 1552	--	--	--	--	--	--	--	--
August 15, 2013 1553	--	--	--	--	--	--	--	--
August 15, 2013 1554	--	--	--	--	--	--	--	--
September 26, 2013 1430	--	23.5	12.8	--	.625	--	.301	54.1
September 26, 2013 1444	--	--	--	--	--	--	--	--
September 26, 2013 1447	--	--	--	--	--	--	--	--
September 26, 2013 1448	--	--	--	--	--	--	--	--
September 26, 2013 1449	--	--	--	--	--	--	--	--
September 26, 2013 1450	--	--	--	--	--	--	--	--

15292000 SUSITNA RIVER AT GOLD CREEK, AK—Continued

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[$CaCO_3$, calcium carbonate; FNU, Formazin nephelometric units; LED, light-emitting diode; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO_2, silicon dioxide; ft, feet; ft^3/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Sample date-time	Alkalinity, water, filtered, inflection-point, incremental titration method, field, mg/L as $CaCO_3$ (39086)	Particulate nitrogen, suspended in water, mg/L (49570)	Purpose, site visit (50280)	Total nitrogen, water, filtered, analytically determined, mg/L (62854)	Total nitrogen, water, unfiltered, analytically determined, mg/L (62855)	Turbidity, water, unfiltered, broad band light source (400-680 nm), detectors at multiple angles including 90 +/- 30 degrees, ratiometric correction, NTRU (63676)
March 27, 2013 1610	73	< .017	Fixed frequency SW	0.193	0.181	< 2.0
March 27, 2013 1633	--	--	--	--	--	--
March 27, 2013 1634	--	--	--	--	--	--
March 27, 2013 1635	--	--	--	--	--	--
March 27, 2013 1636	--	--	--	--	--	--
March 27, 2013 1637	--	--	--	--	--	--
June 6, 2013 1430	30	.336	Fixed frequency SW	.206	.384	131
June 6, 2013 1442	--	--	--	--	--	--
June 6, 2013 1444	--	--	--	--	--	--
June 6, 2013 1446	--	--	--	--	--	--
June 6, 2013 1448	--	--	--	--	--	--
June 6, 2013 1450	--	--	--	--	--	--
July 13, 2013 1608	48	.119	Fixed frequency SW	.104	.176	80.7
July 13, 2013 1619	--	--	--	--	--	--
July 13, 2013 1621	--	--	--	--	--	--
July 13, 2013 1622	--	--	--	--	--	--
July 13, 2013 1623	--	--	--	--	--	--
July 13, 2013 1624	--	--	--	--	--	--
August 15, 2013 1540	50.1	.192	Fixed frequency SW	.063	.076	271
August 15, 2013 1550	--	--	--	--	--	--
August 15, 2013 1551	--	--	--	--	--	--
August 15, 2013 1552	--	--	--	--	--	--
August 15, 2013 1553	--	--	--	--	--	--
August 15, 2013 1554	--	--	--	--	--	--
September 26, 2013 1430	65	.021	Fixed frequency SW	.136	.107	E 7.65
September 26, 2013 1444	--	--	--	--	--	--
September 26, 2013 1447	--	--	--	--	--	--
September 26, 2013 1448	--	--	--	--	--	--
September 26, 2013 1449	--	--	--	--	--	--
September 26, 2013 1450	--	--	--	--	--	--

15292000 SUSITNA RIVER AT GOLD CREEK, AK—Continued

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WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

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[$CaCO_3$, calcium carbonate; FNU, Formazin nephelometric units; LED, light-emitting diode; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO_2, silicon dioxide; ft, feet; ft^3/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Sample date-time	Turbidity, water, unfiltered, monochrome near infrared LED light, 780-900 nm, detection angle 90 +/- 2.5 degrees, FNU (63680)	Dissolved solids dried at 180°C, water, filtered, mg/L (70300)	Suspended sediment, sieve diameter, percent smaller than 0.0625 mm (70331)	Suspended sediment, sieve diameter, percent smaller than 0.125 mm (70332)	Suspended sediment, sieve diameter, percent smaller than 0.25 mm (70333)	Suspended sediment, sieve diameter, percent smaller than 0.5 mm (70334)	Suspended sediment, sieve diameter, percent smaller than 1 mm (70335)	Mercury, water, filtered, µg/L (71890)
March 27, 2013 1610	0.0	174	44	--	--	--	--	--
March 27, 2013 1633	.1	--	--	--	--	--	--	--
March 27, 2013 1634	.0	--	--	--	--	--	--	--
March 27, 2013 1635	.0	--	--	--	--	--	--	--
March 27, 2013 1636	.0	--	--	--	--	--	--	--
March 27, 2013 1637	.0	--	--	--	--	--	--	--
June 6, 2013 1430	130	64	54	--	--	--	--	< .005
June 6, 2013 1442	140	--	--	--	--	--	--	--
June 6, 2013 1444	140	--	--	--	--	--	--	--
June 6, 2013 1446	130	--	--	--	--	--	--	--
June 6, 2013 1448	120	--	--	--	--	--	--	--
June 6, 2013 1450	120	--	--	--	--	--	--	--
July 13, 2013 1608	86	90	--	--	--	--	--	--
July 13, 2013 1619	75	--	--	--	--	--	--	--
July 13, 2013 1621	82	--	--	--	--	--	--	--
July 13, 2013 1622	86	--	--	--	--	--	--	--
July 13, 2013 1623	87	--	--	--	--	--	--	--
July 13, 2013 1624	89	--	--	--	--	--	--	--
August 15, 2013 1540	260	106	80	86	93	99	100	< .005
August 15, 2013 1550	260	--	--	--	--	--	--	--
August 15, 2013 1551	260	--	--	--	--	--	--	--
August 15, 2013 1552	260	--	--	--	--	--	--	--
August 15, 2013 1553	270	--	--	--	--	--	--	--
August 15, 2013 1554	270	--	--	--	--	--	--	--
September 26, 2013 1430	7.3	100	60	75	87	96	100	--
September 26, 2013 1444	6.2	--	--	--	--	--	--	--
September 26, 2013 1447	7.3	--	--	--	--	--	--	--
September 26, 2013 1448	8.0	--	--	--	--	--	--	--
September 26, 2013 1449	8.0	--	--	--	--	--	--	--
September 26, 2013 1450	7.3	--	--	--	--	--	--	--

15292000 SUSITNA RIVER AT GOLD CREEK, AK—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
Part 12 of 13

[$CaCO_3$, calcium carbonate; FNU, Formazin nephelometric units; LED, light-emitting diode; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO_2, silicon dioxide; ft, feet; ft^3/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Sample date-time	Mercury, water, unfiltered, recoverable, µg/L (71900)	Sample purpose (71999)	Sample location, distance upstream, ft (72105)	Suspended sediment concentration, mg/L (80154)	Sampling method (82398)	Sampler type (84164)	Sample splitter type, field (84171)
March 27, 2013 1610	--	Routine	0.0	1	EDI	US D-95 plastic	CS p 8L cooler spgt
March 27, 2013 1633	--	Routine	.0	--	EDI	--	--
March 27, 2013 1634	--	Routine	.0	--	EDI	--	--
March 27, 2013 1635	--	Routine	.0	--	EDI	--	--
March 27, 2013 1636	--	Routine	.0	--	EDI	--	--
March 27, 2013 1637	--	Routine	.0	--	EDI	--	--
June 6, 2013 1430	.0227	Routine	200.0	554	EDI	US D-95 plastic	CS p 8L cubtnr spgt
June 6, 2013 1442	--	Routine	200.0	--	EDI	--	--
June 6, 2013 1444	--	Routine	200.0	--	EDI	--	--
June 6, 2013 1446	--	Routine	200.0	--	EDI	--	--
June 6, 2013 1448	--	Routine	200.0	--	EDI	--	--
June 6, 2013 1450	--	Routine	200.0	--	EDI	--	--
July 13, 2013 1608	--	Routine	500.0	--	EDI	US DH-95 Teflon	CS p 8L cubtnr spgt
July 13, 2013 1619	--	Routine	500.0	--	EDI	--	--
July 13, 2013 1621	--	Routine	500.0	--	EDI	--	--
July 13, 2013 1622	--	Routine	500.0	--	EDI	--	--
July 13, 2013 1623	--	Routine	500.0	--	EDI	--	--
July 13, 2013 1624	--	Routine	500.0	--	EDI	--	--
August 15, 2013 1540	.0137	Routine	500.0	602	EDI	US D-95 plastic	CS p 8L cubtnr spgt
August 15, 2013 1550	--	Routine	500.0	--	EDI	--	--
August 15, 2013 1551	--	Routine	500.0	--	EDI	--	--
August 15, 2013 1552	--	Routine	500.0	--	EDI	--	--
August 15, 2013 1553	--	Routine	500.0	--	EDI	--	--
August 15, 2013 1554	--	Routine	500.0	--	EDI	--	--
September 26, 2013 1430	--	Routine	500.0	20	EDI	US D-95 plastic	CS p 8L cubtnr spgt
September 26, 2013 1444	--	Routine	500.0	--	EDI	--	--
September 26, 2013 1447	--	Routine	500.0	--	EDI	--	--
September 26, 2013 1448	--	Routine	500.0	--	EDI	--	--
September 26, 2013 1449	--	Routine	500.0	--	EDI	--	--
September 26, 2013 1450	--	Routine	500.0	--	EDI	--	--

15292000 SUSITNA RIVER AT GOLD CREEK, AK—Continued

WATER-QUALITY DATA
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[$CaCO_3$, calcium carbonate; FNU, Formazin nephelometric units; LED, light-emitting diode; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO_2, silicon dioxide; ft, feet; ft^3/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Sample date-time	Specific conductance, water, unfiltered, laboratory, µS/cm at 25°C (90095)	Type of blank solution (99100)	Source of blank solution (99101)	Type of blank sample (99102)	Type of quality assurance data associated with sample (99111)
March 27, 2013 1610	303	--	--	--	--
March 27, 2013 1633	--	--	--	--	--
March 27, 2013 1634	--	--	--	--	--
March 27, 2013 1635	--	--	--	--	--
March 27, 2013 1636	--	--	--	--	--
March 27, 2013 1637	--	--	--	--	--
June 6, 2013 1430	E 98.8	--	--	--	--
June 6, 2013 1442	--	--	--	--	--
June 6, 2013 1444	--	--	--	--	--
June 6, 2013 1446	--	--	--	--	--
June 6, 2013 1448	--	--	--	--	--
June 6, 2013 1450	--	--	--	--	--
July 13, 2013 1608	162	--	--	--	No assoc QA data
July 13, 2013 1619	--	--	--	--	--
July 13, 2013 1621	--	--	--	--	--
July 13, 2013 1622	--	--	--	--	--
July 13, 2013 1623	--	--	--	--	--
July 13, 2013 1624	--	--	--	--	--
August 15, 2013 1540	170	Inorganic-free water	USGSNWQL	Source solution	Blank
August 15, 2013 1550	--	--	--	--	--
August 15, 2013 1551	--	--	--	--	--
August 15, 2013 1552	--	--	--	--	--
August 15, 2013 1553	--	--	--	--	--
August 15, 2013 1554	--	--	--	--	--
September 26, 2013 1430	171	--	--	--	--
September 26, 2013 1444	--	--	--	--	--
September 26, 2013 1447	--	--	--	--	--
September 26, 2013 1448	--	--	--	--	--
September 26, 2013 1449	--	--	--	--	--
September 26, 2013 1450	--	--	--	--	--