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Water-Data Report 2006

**12433556 MIDNITE MINE DRAINAGE NEAR WELLPINIT, WA**

Spokane Basin  
Lower Spokane Subbasin

LOCATION.--Lat 47°55'27", long 118°05'20" referenced to North American Datum of 1927, in NW ¼ SE ¼ sec.13, T.28 N., R.37 E., Stevens County, WA, Hydrologic Unit 17010307, Spokane Indian Reservation, on right bank, 2.4 mi downstream from Turtle Lake, and 0.1 mi upstream from confluence with Blue Creek, and 5.4 mi northwest of Wellpinit.

DRAINAGE AREA.--1.3 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--June 1984 to October 1998, January 2000 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 2,070 ft above NGVD of 1929, from topographic map.

REMARKS.--Records poor. Three ponds upstream from gage exist for mine surface-water retention; June 1987, three diversions from the upstream channels were added to retain and treat contaminated water for mixing and later release. U.S. Geological Survey satellite telemeter at station.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--20 years (water years 1985-98, 2001-06), 0.38 ft<sup>3</sup>/s, 274 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5.9 ft<sup>3</sup>/s, Mar. 19, 1997, gage height, 1.78 ft; no flow during part of water years 1986 to 1992, 2001, and 2004 to 2006.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1.9 ft<sup>3</sup>/s, Jan 11, gage height, 1.38 ft; minimum discharge, no flow, Oct 5, 6.

**12433556 MIDNITE MINE DRAINAGE NEAR WELPINIT, WA—Continued**

**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006**  
**DAILY MEAN VALUES**  
[*e*, estimated]

<b>Day</b>	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>
<b>1</b>	0.11	0.08	e0.03	e0.14	0.46	e0.20	0.30	0.52	0.82	0.69	0.69	0.92
<b>2</b>	0.11	0.03	e0.06	e0.14	0.43	e0.20	0.30	0.79	0.85	0.44	0.91	0.56
<b>3</b>	0.05	0.05	e0.05	e0.14	0.46	e0.20	0.32	1.1	0.59	0.47	1.00	0.30
<b>4</b>	0.03	0.04	e0.05	e0.15	0.52	e0.20	0.45	1.2	0.42	0.74	0.87	0.19
<b>5</b>	0.01	0.03	e0.05	e0.15	0.58	e0.22	0.78	1.0	0.40	0.59	0.54	0.36
<b>6</b>	0.01	0.04	e0.04	e0.16	0.60	0.24	0.89	0.64	0.67	0.84	0.28	0.71
<b>7</b>	0.01	0.02	e0.03	e0.19	0.55	0.22	0.82	0.46	0.93	0.89	0.33	1.0
<b>8</b>	0.01	0.02	e0.02	e0.24	0.49	0.22	0.51	0.44	1.00	0.58	0.65	0.93
<b>9</b>	0.02	0.02	e0.03	e0.28	0.46	0.22	0.52	0.74	0.89	0.34	0.91	0.60
<b>10</b>	0.01	0.01	e0.03	e0.40	0.43	0.21	0.67	1.0	0.67	0.39	1.0	0.36
<b>11</b>	0.01	0.01	e0.03	1.4	0.42	0.20	0.92	1.1	0.40	0.72	0.90	0.40
<b>12</b>	0.01	0.01	e0.03	0.84	0.41	0.22	1.2	0.97	0.40	0.97	0.55	0.68
<b>13</b>	0.02	0.02	e0.03	1.0	0.39	0.22	1.3	0.61	0.69	1.1	0.28	0.88
<b>14</b>	0.03	0.02	e0.03	1.5	e0.34	0.22	1.2	0.40	0.97	0.92	0.35	1.00
<b>15</b>	0.03	0.01	e0.02	1.0	e0.32	0.22	0.81	0.39	1.0	0.56	0.65	0.68
<b>16</b>	0.03	0.01	e0.02	0.78	e0.31	0.22	0.59	0.43	0.92	0.31	0.87	0.43
<b>17</b>	0.04	0.01	e0.02	0.71	e0.28	0.27	0.57	0.65	0.59	0.36	0.85	0.26
<b>18</b>	0.04	0.01	e0.02	0.64	e0.27	0.27	0.90	0.95	0.40	0.71	0.81	0.40
<b>19</b>	0.05	0.01	e0.02	0.60	e0.28	0.29	1.2	0.93	0.41	0.95	0.51	0.70
<b>20</b>	0.04	0.01	e0.03	0.57	e0.26	0.32	1.3	0.61	0.66	1.0	0.24	0.65
<b>21</b>	0.04	0.01	e0.06	0.52	e0.24	0.34	1.1	0.39	0.92	0.94	0.31	0.84
<b>22</b>	0.05	0.01	e0.14	0.50	e0.24	0.33	0.71	0.42	1.0	0.60	0.61	0.86
<b>23</b>	0.05	0.01	e0.16	0.48	e0.24	0.33	0.49	0.72	0.89	0.33	0.85	0.54
<b>24</b>	0.05	0.01	e0.27	0.46	e0.23	0.33	0.52	0.96	0.60	0.39	0.95	0.32
<b>25</b>	0.04	0.03	e0.23	0.46	e0.22	0.33	0.85	1.0	0.38	0.72	0.83	0.37
<b>26</b>	0.05	0.02	e0.17	0.45	e0.21	0.32	1.1	0.92	0.33	0.96	0.51	0.66
<b>27</b>	0.05	e0.03	e0.17	0.40	e0.20	0.33	1.2	0.60	0.62	1.0	0.25	0.89
<b>28</b>	0.06	e0.03	e0.22	0.41	e0.20	0.33	1.1	0.40	0.93	0.93	0.31	1.1
<b>29</b>	0.04	e0.03	e0.17	0.39	---	0.33	0.73	0.29	1.1	0.57	0.65	0.96
<b>30</b>	0.03	e0.03	e0.16	0.45	---	0.30	0.51	0.37	1.0	0.31	0.91	0.59
<b>31</b>	0.06	---	e0.15	0.43	---	0.32	---	0.67	---	0.37	1.1	---
<b>Total</b>	1.19	0.67	2.54	15.98	10.04	8.17	23.86	21.67	21.45	20.69	20.47	19.14
<b>Mean</b>	0.04	0.02	0.08	0.52	0.36	0.26	0.80	0.70	0.71	0.67	0.66	0.64
<b>Max</b>	0.11	0.08	0.27	1.5	0.60	0.34	1.3	1.2	1.1	1.1	1.1	1.1
<b>Min</b>	0.01	0.01	0.02	0.14	0.20	0.20	0.30	0.29	0.33	0.31	0.24	0.19
<b>Ac-ft</b>	2.4	1.3	5.0	32	20	16	47	43	43	41	41	38

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 2006, BY WATER YEAR (WY)**

	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>
<b>Mean</b>	0.36	0.32	0.15	0.19	0.24	0.50	0.55	0.57	0.51	0.43	0.39	0.38
<b>Max</b>	1.27	1.11	0.51	0.73	0.65	1.69	1.31	1.29	1.12	1.05	1.06	1.11
(WY)	(1997)	(1996)	(1996)	(1997)	(1997)	(1997)	(1995)	(1995)	(1996)	(1996)	(1996)	(1997)
<b>Min</b>	0.04	0.02	0.06	0.08	0.09	0.08	0.10	0.06	0.05	0.03	0.01	0.02
(WY)	(2006)	(2006)	(2004)	(1989)	(1993)	(2004)	(1992)	(1992)	(1992)	(1988)	(1992)	(2001)

**12433556 MIDNITE MINE DRAINAGE NEAR WELLPINIT, WA—Continued****SUMMARY STATISTICS**

	<b>Calendar Year 2005</b>	<b>Water Year 2006</b>	<b>Water Years 1984 - 2006</b>	
<b>Annual total</b>	64.90	165.87		
<b>Annual mean</b>	0.18	0.45	0.38	
<b>Highest annual mean</b>			1.00	1997
<b>Lowest annual mean</b>			0.08	1992
<b>Highest daily mean</b>	0.81 May 5	1.5 Jan 14	5.3 Mar 20,	1997
<b>Lowest daily mean</b>	0.00 Aug 22	0.01 Oct 5	0.00 Jun 22,	1986
<b>Annual seven-day minimum</b>	0.00 Aug 22	0.01 Nov 15	0.00 Aug 8,	1990
<b>Annual runoff (ac-ft)</b>	129	329	274	
<b>10 percent exceeds</b>	0.53	0.96	1.0	
<b>50 percent exceeds</b>	0.13	0.40	0.18	
<b>90 percent exceeds</b>	0.01	0.03	0.05	

