

### 4.3 Appendix C: Output Examples

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### Site Listing from Site Retrieval to Locate Records

“[Explanation of columns: agency code (1-5), station number (6-20), station name (21-70), latitude (71-77), longitude (78-85), state code (86-87), county code (88-90), altitude (91-98), hydrologic unit code (99-114), basin code (115-116) station type code (117-123), drainage area (124-131), aquifer code (132-139), project number (140-151), primary water use code (152), sorting code for internal program use (153), current database (154-155)]

USGS 06130000	FLATWILLOW CREEK NEAR MOSBY, MT.	465540	107560030069	10040203	SW 1855.00	301
USGS 06130500	MUSSELSHELL RIVER AT MOSBY, MT.	465941	107531830069	2493.910040205	SW 7846.00	301
USGS 06130600	CAT CREEK NEAR CAT CREEK, MT.	470300	108010030069	2650.0010040205	SW 36.50	301
USGS 06130610	BAIR COULEE NEAR MOSBY MT	470315	107364330033	2980.0010040205	SW 1.79	301
USGS 06130620	BLOOD CREEK TRIB NEAR VALENTINE MT	472010	108273330027	2950.0010040205	SW 1.97	301
USGS 06130680	BIG DRY CREEK AT JORDAN, MT.	471856	106543330033	10040105	SW 521.00	301
USGS 06130700	SAND CREEK NEAR JORDAN, MT.	471500	106510030033	2586.2810040105	SW 317.00	301
USGS 06130800	SECOND CREEK TRIBUTARY NEAR JORDAN, MT.	471200	106480030033	2750.0010040105	SW 0.52	301
USGS 06130850	SECOND CREEK TRIBUTARY NO. 2 NEAR JORDAN, MT.	471200	106490030033	2750.0010040105	SW 2.08	301
USGS 06130900	SECOND CREEK TRIBUTARY NO 3 NEAR JORDAN, MT.	471300	106500030033	2780.0010040105	SW 0.72	301
USGS 06130915	RUSSIAN COULEE NEAR JORDAN MT	471958	106423930033	2530.0010040105	SW 3.45	301
USGS 06130925	THOMPSON CREEK TRIB NEAR COHAGEN MT	465705	106273830033	2750.0010040106	SW 1.23	301
USGS 06130935	CROW ROCK CREEK NEAR COHAGEN MT	470345	106141130033	10040106	SW 213.00	301
USGS 06130940	SPRING CREEK TRIB NEAR VAN NORMAN MT	471458	106182130033	2440.0010040106	SW 1.39	301
USGS 06130950	LITTLE DRY CREEK NEAR VAN NORMAN, MT.	472022	106214730033	2340.0010040106	SW 1224.00	301

### Record Number Listing from Retrieval to Locate Records

9640017001	06130000	19640311	19640322	9
9640017101	06130000	19640323	19640331	9
9640017201	06130000	19640401	19640407	9
9640017301	06130000	19640408	19640417	9
9640017401	06130000	19640418	19640427	9
9640017501	06130000	19640428	19640502	9
9640017601	06130000	19640503	19640509	9
9640017701	06130000	196405061130		9
9640017801	06130000	19640510	19640521	9
9640017901	06130000	19640522	19640531	9
9640018001	06130000	19640601	19640611	9
9640018101	06130000	19640612	19640621	9
9640018201	06130000	196406191000		9
9640018301	06130000	19640622	19640630	9
9640018401	06130000	196406301330		9

### Output from Inventory of Samples:

[Explanation of codes: M, Medium code; Analysis codes are listed in the following order - analysis status, analysis source, hydrologic condition, sample type, and hydrologic event codes; STAT. – District processing status code; NO OF PARMS, number of parameters in the record; CH, chemical; NU, nutrient; ME, metals; BI, biological; PE, pesticides; RA, radiochemical; SE, sediment; BE, bed material]

1															DATA IN WATER-QUALITY FILE														
															SAT, JUN 30 2001														
RECORD	STATION	NUMBER	BEGIN	BEGIN	END	END	ANALYSIS	LAST	NO OF	TYPES OF ANALYSES						AGENCY	LAB-ID												
NUMBER	NUMBER		DATE	TIME	DATE	TIME	M CODES STAT. PROJECT	UPDATE	PARMS	CH	NU	ME	BI	PE	RA	SE	BE												
96400170	06130000		03-11-64		03-22-64		9 7AA99 TRANS	860202	24										USGS										
96400171	06130000	CST	03-23-64		03-31-64		9 7AA99 TRANS	860202	23										USGS										
96400172	06130000		04-01-64		04-07-64		9 7AA99 TRANS	860202	24										USGS										
96400173	06130000	CST	04-08-64		04-17-64		9 7AA99 TRANS	860202	24										USGS										
96400174	06130000		04-18-64		04-27-64		9 7AA99 TRANS	860202	24										USGS										
96400175	06130000		04-28-64		05-02-64		9 7AA99 TRANS	860202	24										USGS										
96400176	06130000		05-03-64		05-09-64		9 7AA99 TRANS	860202	24										USGS										
96400177	06130000		05-06-64	1130	- -		9 7AA99 TRANS	860202	9										USGS										
96400178	06130000		05-10-64		05-21-64		9 7AA99 TRANS	860202	24										USGS										
96400179	06130000		05-22-64		05-31-64		9 7AA99 TRANS	860202	24										USGS										
96400180	06130000	CDT	06-01-64		06-11-64		9 7AA99 TRANS	860202	24										USGS										
96400181	06130000	CDT	06-12-64		06-21-64		9 7AA99 TRANS	860202	24										USGS										
96400182	06130000		06-19-64	1000	- -		9 7AA99 TRANS	860202	13										USGS										

### Listing of samples and results (3 formats):

[Explanation of codes: PARM, parameter code, RPT LEV, report level; R, remarks code; M, method code; Q, quality assurance code; PR and P, precision code; DQI, data quality inventory code; Q1, Q2, and Q3, value qualifier codes; NVQ, null value qualifier codes; RP-LVCD, report level code, ANAL\_SET\_NO, analysis set number; ANL\_DATE, analysis date; ANAL\_PREP\_NO, analysis preparatory set number; PRP\_DATE, analysis preparatory date; MOD\_DATE, last date record was modified; MOD\_BY, user that modified the record last]

**1) Format used for long form, 132 characters and for output to a file:**

```

Record Number: 96400170
Agency: USGS Station Number 06130000
Station Name: FLATWILLOW CREEK NEAR MOSBY, MT.
Start Date: 19640311 Start Time: 1200 CST
End Date: 19640322 End Time:
Medium Code: 9

Sample type: 9 Analysis Status: 7 Analysis Source: A
Hydrologic Condition: A Hydrologic Event: 9
Project Code: Lab Number: Geologic Unit:
Organism ID (ITIS): Body Part ID:
Analysis Types: Number Parameters: 024
Modified: 19860202 By: nwis
District Processing Status: T -- TRANSFERRED

Sample Field Comment--

Sample Lab Comment--

  PARM  --VALUE--  -RPT LEV-  R M Q  PR  DQI  Q1 Q2 Q3  NVQ  RP-LVCD  ANAL_SET_NO  ANL_DATE  ANAL_PREP_NO  PRP_DATE  MOD_DATE  MOD_BY
00060      1.9      --      A 2  A
00080      4      --      A 1  A
00095     4190      --      A 3  A
00400      7.4      --      A 2  A
00440     233      --      A 2  A
00445      .0      --      A 1  A
00900     1370      --      A 2  A
00902     1180      --      A 2  A
00915     245      --      A 2  A  c
00925     184      --      A 2  A
00930     590      --      A 2  A
00931     6.9      --      A 2  A
00935     6.2      --      A 2  A
00940     40      1.0      A 2  A  MRL
00945      --      --      A 2  A  b
    
```

**2) Format used for short form, 2-columns:**

```

Record Number: 96400170

Station Name: FLATWILLOW CREEK NEAR MOSBY, MT.

Agency Code: USGS   Site Number: 06130000
Begin Date: 19640311   Begin Time: 1200   CST
End Date: 19640322   End Time:
Medium Code: 9

Sample type: 9   Analysis Status: 7   Analysis Source: A
Hydrologic Condition: A   Hydrologic Event: 9
Project Code:           Lab Number:           Geologic Unit:
Organism ID (ITIS):           Body Part ID:
Analysis Types:           Number Parameters: 024
    
```

```

Modified: 19860202   By: nwis
District Processing Status: T -- TRANSFERRED

Sample Field Comment--

Sample Lab Comment--

PARAMETER  VALUE  R  Q  M  P      PARAMETER  VALUE  R  Q  M  P
00060      1.9    A    2
00095      4190   A    3
00440      233    A    2
00900      1370   A    2
00915      245    A    2
00930      590    A    2
00935      6.2    A    2
00945      2260   A    2
00955      5.1    A    2
70300      3450   A    3
70303      4.69   A    2
71870      .48    A    2
00080      4      A    1
00400      7.4    A    2
00445      .0     A    1
00902      1180   A    2
00925      184    A    2
00931      6.9    A    2
00940      40     A    2
00950      .5     A    1
01020      410    A    2
70302      17.7   A    3
71851      .0     A    1
71885      .0     A    1
    
```

**3) Format used for long form folded into 80 characters:**

```

Record Number: 96400170

Station Name: FLATWILLOW CREEK NEAR MOSBY, MT.

Agency Code: USGS   Site Number: 06130000
Begin Date: 19640311  Begin Time: 1200  CST
End Date: 19640322   End Time:
Medium Code: 9

Sample type: 9  Analysis Status: 7  Analysis Source: A
Hydrologic Condition: A  Hydrologic Event: 9
Project Code:           Lab Number:           Geologic Unit:
Organism ID (ITIS):           Body Part ID:
Analysis Types:                               Number Parameters: 024
Modified: 19860202  By: nwis
District Processing Status: T -- TRANSFERRED

Sample Field Comment--
Sample Lab Comment--
Press <CR> to continue:

  PARM  --VALUE--  -RPT LEV-  RMK  METH  QA  PR  DQI  Q1  Q2  Q3  NVQ  RP-LVCD
        ANAL_SET_NO  ANAL_DATE  ANAL_PREP_NO  PREP_DATE  MOD_DATE  MODIFIED_BY

00060      1.9      --           A  2  A           20010614  nwis
00080       4      --           A  1  A           20010614  nwis
00095     4190     --           A  3  A           20010614  nwis
00400       7.4     --           A  2  A           20010614  nwis
00440      233     --           A  2  A           20010614  nwis
00445       .0     --           A  1  A           20010614  nwis
00900     1370     --           A  2  A           20010614  nwis
00902     1180     --           A  2  A           20010614  nwis
00915      245     --           A  2  A           20010614  nwis
00925      184     --           A  2  A           20010614  nwis
    
```

## Listing of Sample and Cation-Anion Balance

1 WATER QUALITY ANALYSIS - SAT, JUN 30 2001

RECORD NUMBER ----- 96400170  
 STATION NUMBER ----- 06130000  
 STATION NAME ----- FLATWILLOW CREEK NEAR MOSBY, MT.  
 DATE OF COLLECTION -- 03-11-1964                      03-22-1964

PARAMETERS INCLUDED IN THIS RECORD ARE--

NO.	CODE.	REMARK	VALUE.....	DESCRIPTION.....
1	00060		1.9	DISCHARGE, CUBIC FEET PER SECOND
2	00080		4	COLOR (PLATINUM-COBALT)
3	00095		4190	SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C)
4	00400		7.4	PH, WATER, WHOLE, FIELD, STANDARD UNITS
5	00440		230	ACID NEUTRALIZING CAPACITY (ANC), WATER, UNFILTERED, BICARBONATE, FIXED ENDPOINT T
6	00445		0	ACID NEUTRALIZING CAPACITY (ANC), WATER, UNFILTERED, CARBONATE, FIXED ENDPOINT T
7	00900		1400	HARDNESS TOTAL (MG/L AS CA03)
8	00902		1200	NONCARBONATE HARDNESS WATER WHOLE TOTAL, FIELD, (MG/L AS CA CO3)
9	00915		245	CALCIUM DISSOLVED (MG/L AS CA)
10	00925		184	MAGNESIUM DISSOLVED (MG/L AS MG)
11	00930		590	SODIUM DISSOLVED (MG/L AS NA)
12	00931		7	SODIUM ADSORPTION RATIO
13	00935		6.20	POTASSIUM DISSOLVED (MG/L AS K)
14	00940		40.0	CHLORIDE DISSOLVED (MG/L AS CL)
15	00945		2260	SULFATE DISSOLVED (MG/L AS SO4)
16	00950		.5	FLUORIDE DISSOLVED (MG/L AS F)
17	00955		5.1	SILICA DISSOLVED (MG/L AS SIO2)
18	01020		410	BORON DISSOLVED (UG/L AS B)
19	70300		3450	SOLIDS, RESIDUE ON EVAPORATION AT 180 DEG C, DISSOLVED (MG/L)
20	70302		17.7	SOLIDS, DISSOLVED (TONS PER DAY)
21	70303		4.69	SOLIDS, DISSOLVED (TONS PER ACRE-FOOT)
22	71851		.000	NITROGEN, NITRATE, DISSOLVED (MG/L AS NO3)
23	71870		.48	BROMIDE, DISSOLVED (MG/L AS BR)
24	71885		0	IRON (UG/L AS FE)

1 WATER QUALITY ANALYSIS - SAT, JUN 30 2001





Appendix C. Output Examples

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CODE	PARAMETER NAME	UNITS	VALUE	R	Q	M	P
00060	DISCHARGE	CFS	1.9	A			2
00080	COLOR	PLATINUM-COBALT	4	A			1
00095	SPECIFIC CONDUCTANCE	US/CM @ 25C	4190	A			3
00400	PH, WH, FIELD	(STANDARD UNITS)	7.4	A			2
00440	ANC HCO3 FET FIELD	(MG/L AS HCO3)	230	A			2
00445	ANC CARB FET FIELD	(MG/L AS CO3)	0	A			1
00900	HARDNESS TOTAL	(MG/L AS CAO3)	1400	A			2
00902	NONCARBONATE HARD. F	(MG/L AS CACO3)	1200	A			2
00915	CALCIUM DISSOLVED	(MG/L AS CA)	245	A			2
00925	MAGNESIUM DISSOLVED	(MG/L AS MG)	184	A			2
00930	SODIUM DISSOLVED	(MG/L AS NA)	590	A			2
00931	SODIUM ADSORPTION R.	(RATIO)	7	A			2
COMPUTED 00932	SODIUM, PERCENT	PERCENT	49				
00935	POTASSIUM DISSOLVED	(MG/L AS K)	6.20	A			2
00940	CHLORIDE DISSOLVED	(MG/L AS CL)	40.0	A			2
00945	SULFATE DISSOLVED	(MG/L AS SO4)	2260	A			2
00950	FLUORIDE DISSOLVED	(MG/L AS F)	.5	A			1
00955	SILICA DISSOLVED	(MG/L AS SIO2)	5.1	A			2
01020	BORON DISSOLVED	(UG/L AS B)	410	A			2
70300	RESIDUE DIS 180C	MG/L	3450	A			3
COMPUTED 70301	DISSOLVED SOLIDS SUM	MG/L	3450				
70302	DISSOLVED SOLIDS	TONS/DAY	17.7	A			3
70303	RESIDUE DIS TON/ACFT	T/AC-FT	4.69	A			2
71851	NITR. NO3 AS NO3 DIS	MG/L AS NO3	.000	A			1
71870	BROMIDE DISSOLVED	MG/L AS BR	.48	A			2
71885	IRON	UG/L AS FE	0	A			1

1

RECORD NUMBER: 96400170  
 STATION ID: USGS 06130000  
 STATION NAME: FLATWILLOW CREEK NEAR MOSBY, MT.  
 COLLECTION DATE: 03-11-1964      03-22-1964

Appendix C. Output Examples

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CATIONS		(MG/L)	(MEQ/L)	ANIONS		(MG/L)	(MEQ/L)
CALCIUM, DISS. MG/L		245	12.226	CHLORIDE, DISS. MG/L		40.0	1.129
MAGNESIUM, DISS. MG/L		184	15.142	SULFATE, DISS. MG/L		2260	47.054
SODIUM, DISS. MG/L		590	25.665	FLUORIDE, DISS. MG/L		.5	0.027
POTASSIUM, DISS. MG/L		6.20	0.159	BICARB., WHL, FET, FLD		230	3.819
				CARB., WHL, FET, FLD		0	0.001
				NITRATE, DISS. AS NO3		.000	0.001
		-----				-----	
		TOTAL	53.191			TOTAL	52.027
PERCENT DIFFERENCE = 1.11							

**Publication tables (by-sample format; 4 table types)**

**Table type 1 (Single-station):**

DISTRICT CODE 30 UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY PROCESS DATE 6-30-01  
 06130000 -- FLATWILLOW CREEK NEAR MOSBY, MT.

WATER-QUALITY DATA

DATE	STATION NUMBER	DATE	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)
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MAR 1964

Appendix C. Output Examples

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11-22      06130000      19640311      245      40.0      .5
MAR
23-31      06130000      19640323      240      42.0      .4

```

DISTRICT CODE 30 UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY PROCESS DATE 6-30-01  
 06130500 -- MUSSELSHELL RIVER AT MOSBY, MT.

WATER-QUALITY DATA

DATE	STATION NUMBER	DATE	TIME	TEMPER- ATURE WATER (DEG C) (00010)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)
OCT 1974							
22...	06130500	19741022	1230	--	--	--	--
22...	06130500	19741022	1230	10.0	120	23.0	.3

**Table type 2 (Miscellaneous station):**

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY PROCESS DATE 6-30-01  
 MISCELLANEOUS STATION ANALYSES

DATE	STATION NUMBER	DATE	TIME	TEMPER- ATURE WATER (DEG C) (00010)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)
06130000	FLATWILLOW CREEK NEAR MOSBY, MT.						
MAR 1964							
11...	06130000	19640311	--	245	40.0	.5	
23...	06130000	19640323	--	240	42.0	.4	
06130500	MUSSELSHELL RIVER AT MOSBY, MT.						

```
OCT 1974
22... 06130500      19741022      --      --      --      --
22... 06130500      19741022     10.0      120      23.0      .3
```

**Table type 3 (Multiple station):**

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY PROCESS DATE 6-30-01  
 MISCELLANEOUS STATION ANALYSES

STATION	NUMBER	DATE	TIME	TEMPER- ATURE WATER (DEG C) (00010)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)
06130000		03-11-64	--	--	245	40.0	.5
		03-23-64	--	--	240	42.0	.4
06130500		10-22-74	1230	--	--	--	--
		10-22-74	1230	10.0	120	23.0	.3

**Table type 4 (Biological):**

DISTRICT CODE 30 UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY PROCESS DATE 6-30-01  
 460645112491201 -- 04N10W10DADA01

WATER-QUALITY DATA

DATE	MAR 29, 78	JUL 30, 74	SET:	1
TIME	1230	1330	PAGE:	1
TOTAL CELLS/ML	120	6200		
	CELLS PER- /ML CENT	CELLS PER- /ML CENT		
CHLOROPHYTA) (GREEN ALGAE				
.CHLOROPHYCEAE				
..CHLOROCOCCALES				
...OOCYSTACEAE				
....ANKISTRODESMUS	--	110 2		

...TETRAEDRON	--	28	<1
CHRYSTOPHYTA) (YELLOW-GREEN ALGAE			
.BACILLARIOPHYCEAE			
..CENTRALES			
...COSCIDINODISCACEAE			
...CYCLOTELLA	--	390	6
...MELOSIRA	--	340	5
..PENNALES			
...ACHNANTHACEAE			
...COCCONEIS	--	84	1
...RHOICOSPHEINIA	--	28	<1
...CYMBELLACEAE			
...CYMBELLA	--	220	4
...DIATOMACEAE			
...DIATOMA	--	450	7
...FRAGILARIACEAE			
...HANNAEA	14 12	--	
...SYNEDRA	81 68	220	4
...NAVICULACEAE			
...NAVICULA	27 23	560	9
CYANOPHYTA) (BLUE-GREEN ALGAE			
.CYANOPHYCEAE			
..OSCILLATORIALES			
...OSCILLATORIACEAE			
...LYNGBYA	--	3800	61

## **Publication tables (by-result format; 3 table types)**

### **Table type 1 (Single station):**

DISTRICT CODE 30 UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY PROCESS DATE 6-30-01  
 06130000 -- FLATWILLOW CREEK NEAR MOSBY, MT.

#### WATER-QUALITY DATA

DATE	STATION	NUMBER	DATE	PARAM- ETER CODE	VALUE
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Appendix C. Output Examples

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MAR 1964
  11-22    06130000    19640311    00915    245
MAR
  11-22    06130000    19640311    00940    40.0
MAR
  11-22    06130000    19640311    00950     .5
MAR
  23-31    06130000    19640323    00915    240
MAR
  23-31    06130000    19640323    00940    42.0
MAR
  23-31    06130000    19640323    00950     .4
1
  
```

DISTRICT CODE 30 UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY PROCESS DATE 6-30-01  
 06130500 -- MUSSELSHELL RIVER AT MOSBY, MT.

WATER-QUALITY DATA

DATE	STATION NUMBER	DATE	TIME	PARAM-ETER CODE	VALUE
OCT 1974					
22...	06130500	19741022	1230	00915	120
22...	06130500	19741022	1230	00940	23.0
22...	06130500	19741022	1230	00950	.3

**Table type 2 (Miscellaneous station):**

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY PROCESS DATE 6-30-01  
 MISCELLANEOUS STATION ANALYSES

DATE	STATION NUMBER	DATE	TIME	PARAM-ETER CODE	VALUE
------	----------------	------	------	-----------------	-------

06130000 FLATWILLOW CREEK NEAR MOSBY, MT. (LAT 46 55 40N LONG 107 56 00W)

MAR 1964

11...	06130000	19640311	--	00915	245
11...	06130000	19640311	--	00940	40.0
11...	06130000	19640311	--	00950	.5
23...	06130000	19640323	--	00915	240
23...	06130000	19640323	--	00940	42.0
23...	06130000	19640323	--	00950	.4

06130500 MUSSELSHELL RIVER AT MOSBY, MT. (LAT 46 59 41N LONG 107 53 18W)

OCT 1974

22...	06130500	19741022	1230	00010	10.0
22...	06130500	19741022	1230	00915	120
22...	06130500	19741022	1230	00940	23.0
22...	06130500	19741022	1230	00950	.3

**Table type 3 (Multiple station):**

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY PROCESS DATE 6-30-01  
MISCELLANEOUS STATION ANALYSES

STATION	NUMBER	DATE	TIME	PARAM- ETER CODE	VALUE
	06130000	03-11-64	--	00915	245
		03-11-64	--	00940	40.0
		03-11-64	--	00950	.5
		03-23-64	--	00915	240
		03-23-64	--	00940	42.0
		03-23-64	--	00950	.4
	06130500	10-22-74	1230	00010	10.0
		10-22-74	1230	00915	120
		10-22-74	1230	00940	23.0
		10-22-74	1230	00950	.3

**Flat file (by-sample, fixed column format)**

```

06130000      19640311      -- -999999  -999999      245      40.0      .5
06130000      19640323      -- -999999  -999999      240      42.0      .4
06130500      19741022      1230 -999999  -999999  -999999  -999999  -999999
06130500      19741022      1230 -999999      10.0      120      23.0      .3
    
```

**Flat file (by-result, fixed-column format)**

```

06130000      19640311      --      00915  -999999      245
06130000      19640311      --      00940  -999999      40.0
06130000      19640311      --      00950  -999999      .5
06130000      19640323      --      00915  -999999      240
06130000      19640323      --      00940  -999999      42.0
06130000      19640323      --      00950  -999999      .4
06130500      19741022      1230      00010  -999999      10.0
06130500      19741022      1230      00915  -999999      120
06130500      19741022      1230      00940  -999999      23.0
06130500      19741022      1230      00950  -999999      .3
    
```

**P-Stat output (three files)**

[Note: The \*.stats file is produced when values with remark codes are included in the data set]

**Data file:**

```

06130000      19640311  - 19640322  -
--      --      245      40.0      .5
06130000      19640323  - 19640331  -
--      --      240      42.0      .4
06130000      19640401  - 19640407  -
--      --      238      34.0      .6
06130000      19640408  - 19640417  -
--      --      204      24.0      .6
06130000      19640418  - 19640427  -
--      --      209      28.0      .6
06130000      19640428  - 19640502  -
--      --      219      29.0      .6
06130000      19640503  - 19640509  -
--      --      72.0      4.5      .5
06130000      19640506  1130      -      -
    
```



```

--      11.7      --      --      --
06130000      19640510      -      19640521      -
--      --      132      6.7      .5
06130000      19640522      -      19640531      -
--      --      122      7.9      .5
06130000      19640601      -      19640611      -
--      --      121      7.0      .3
06130000      19640612      -      19640621      -
--      --      100      5.8      .4
06130000      19640619      1000      -      -
--      --      --      --      --
06130000      19640622      -      19640630      -
--      --      110      6.8      .4
06130000      19640630      1330      -      -
--      15.6      --      --      --
06130000      19640701      -      19640710      -
--      --      131      5.6      .5
06130000      19640711      -      19640722      -
--      --      149      9.5      .4
06130000      19640723      -      19640731      -
--      --      173      14.0      .5
06130000      19640801      -      19640819      -
--      --      219      17.0      .6
06130000      19640820      -      19640831      -
--      --      149      8.4      .5

```

**Command file (\*.cmd):**

```

BUILD pstat_output.P, FILE pstat_output;
VARS STATION.NUMBER:C DATE:C TIME:C END.DATE:C END.TIME:C
P00025 P00010 P00915 P00940 P00950
$

```

**Statistics file (\*.stats):**

```

LIST OF PARAMETERS WITH REMARK CODES
PARAMETER 00915      VALUE      COUNT
                <      245      1

```

**Listing of site information:**

1 SHOWSITE - ACCESSING SITEFILE FOR DATABASE 01                      RETRIEVAL DATE: Sat, 30 Jun 2001 @ 17:42:13                      Page 0001

                    STATION NAME: Flatwillow Creek near Mosby MT                      STATION NUMBER: 06130000  
                    COUNTRY: US                      STATE: 30                      COUNTY: 069  
                    LAT. / LONG. : 465540 / 1075600                      LAT/LONG METHOD: M                      DISTRICT: 30  
                    LAT/LONG ACCURACY: U                      LAT/LONG DATUM: NAD27                      ALTITUDE DATUM:  
                    RECORD CREATED: 19850531                      GAGE/SURFACE DATUM:                      UPDATED: 19930120000000  
                    SITE USE CODE: INACTIVE                      HYDROLOGIC UNIT: 10040203                      BASIN CODE:  
                    LAND NET LOCATION:                      ALTITUDE METHOD:                      ALTITUDE ACCURACY:  
                    NAME OF LOCATION MAP:                      MAP SCALE: 1:                      SOURCE AGENCY: USGS  
                    SITE WEB FLAG: Y                      TIME ZONE CODE: MST                      DAYLIGHT SAVINGS TIME: Y  
                    DATE SITE ESTAB. OR INVENT.:                      REMARKS:

                    PROJECT NUMBER:                      CONTRIB. DRAIN AREA:                      DRAINAGE AREA: 1855.00  
0                      TYPE OF SITE                      TYPE OF DATA COLLECTED AT SITE: STATUS                      INSTRUMENTATION AT SITE: STATUS  
+                      \_\_\_\_\_                      \_\_\_\_\_                      \_\_\_\_\_  
                    STREAM

**Listing of parameter code dictionary:**

**PARAMETER CODE LIST**

<u>CODE</u>	<u>SHORT NAME</u>	<u>ORDER</u>	<u>LONG NAME</u>
00001	CROSS-SECTION (FEET)	5559	CROSS-SECTION LOCATION FEET FROM RIGHT B
00002	CROSS-SECTION (%)	5560	CROSS-SECTION LOCATION PERCENT FROM RIGH
00003	SAMPLING DEPTH (FT.)	234	SAMPLING DEPTH (FEET)
00004	STREAM WIDTH (FEET)	276	STREAM WIDTH (FEET)
00005	CROSS-SECTION (%)	5561	CROSS-SECTION LOCATION VERTICAL (PERCENT
00008	SAMPLE ACCT. NUMBER	5641	SAMPLE ACCOUNTING NUMBER
00009	CROSS-SECTION (FT.)	5558	CROSS-SECTION LOCATION FEET FROM LEFT BA
00010	WATER TEMPERATURE	375	TEMPERATURE, WATER (DEG. C)
00011	WATER TEMPERATURE	374	WATER TEMPERATURE, (DEGREES) FARENHEIT



Appendix C. Output Examples

---

1  
STATE NAME: ALASKA                   MIN LAT: 490749  
STATE ABBR: AK                        MAX LAT: 705242   MIN ALT: 00000  
STATE CODE: 02                       MIN LONG: 1292641   MAX ALT: 20320  
LAST UPDAT:                         MAX LONG: -1733359

1  
STATE NAME: ARIZONA                 MIN LAT: 312000  
STATE ABBR: AZ                       MAX LAT: 370014   MIN ALT: 00000  
STATE CODE: 04                       MIN LONG: 1090229   MAX ALT: 12633  
LAST UPDAT:                         MAX LONG: 1144849

1  
STATE NAME: ARKANSAS                MIN LAT: 330011  
STATE ABBR: AR                       MAX LAT: 363036   MIN ALT: 00055  
STATE CODE: 05                       MIN LONG: 0893859   MAX ALT: 02753  
LAST UPDAT:                         MAX LONG: 0943724

1  
STATE NAME: CALIFORNIA              MIN LAT: 323235  
STATE ABBR: CA                       MAX LAT: 420122   MIN ALT: -282  
STATE CODE: 06                       MIN LONG: 1140751   MAX ALT: 14494  
LAST UPDAT:                         MAX LONG: 1242255

1  
STATE NAME: COLORADO                MIN LAT: 365901  
STATE ABBR: CO                       MAX LAT: 410059   MIN ALT: 03350  
STATE CODE: 08                       MIN LONG: 1020244   MAX ALT: 14433  
LAST UPDAT:                         MAX LONG: 1090344

1  
STATE NAME: CONNECTICUT             MIN LAT: 405850  
STATE ABBR: CT                       MAX LAT: 420302   MIN ALT: 00000  
STATE CODE: 09                       MIN LONG: 0714702   MAX ALT: 02380  
LAST UPDAT:                         MAX LONG: 0734312

**Listing of short name output for parameter code dictionary:****PARAMETER CODE LIST****NAME. THE FULL NAME INCLUDES THE PARAMETER CODE, THE SHORT NAME**

<u>CODE</u>	<u>SHORT NAME</u>	<u>ORDER</u>	<u>LONG NAME</u>	<u>UNITS</u>	<u>MEQ F</u>	<u>ROUNDING</u>
00001	CROSS-SECTION (FEET)	5559	CROSS-SECTION LOCATION FEET FROM RIGHT B	(FEET)	00000	0223333332
00002	CROSS-SECTION (%)	5560	CROSS-SECTION LOCATION PERCENT FROM RIGH	(PERCENT)	00000	0223333332
00003	SAMPLING DEPTH (FT.)	234	SAMPLING DEPTH (FEET)	FEET	00000	0223333332
00004	STREAM WIDTH (FEET)	276	STREAM WIDTH (FEET)	(FEET)	00000	0223333332
00005	CROSS-SECTION (%)	5561	CROSS-SECTION LOCATION VERTICAL (PERCENT	(PERCENT)	00000	0223333332
00008	SAMPLE ACCT. NUMBER	5641	SAMPLE ACCOUNTING NUMBER	(NUMBER)	00000	0001234560
00009	CROSS-SECTION (FT.)	5558	CROSS-SECTION LOCATION FEET FROM LEFT BA	(FEET)	00000	0223333332
00010	WATER TEMPERATURE	375	TEMPERATURE, WATER (DEG. C)	(DEGREES C)	00000	0012333331
00011	WATER TEMPERATURE	374	WATER TEMPERATURE, (DEGREES) FARENHEIT	(DEGREES F)		0012333331
00012	EVAP TEMP (48" PAN)	114	EVAPORATION TEMPERATURE 48" PAN (DEGREES	(DEGREES)	00000	0012333331
00013	EVAP TEMP (24" PAN)	113	EVAPORATION TEMPERATURE 24" PAN (DEGREES	(DEGREES)	00000	0012333331
00014	WET BULB TEMP. DEG.	323	WET BULB TEMPERATURE (DEGREES) CELSIUS	(DEGREES)	00000	0012333331
00020	AIR TEMPERATURE	370	TEMPERATURE, AIR, DEGREES CELSIUS	DEGREES C	00000	0012333331
00021	AIR TEMPERATURE	371	TEMPERATURE, AIR, DEGREES FAHRENHEIT	DEGREES F		0012333331
00022	LENGTH OF EXPOSURE	5611	LENGTH OF EXPOSURE (DAYS)	(DAYS)	00000	0001234560
00023	SAMPLE WEIGHT (LBS)	5683	SAMPLE WEIGHT (POUNDS)	(POUNDS)	00000	0222333332
00024	SAMPLE LENGTH (IN)	228	SAMPLE LENGTH (INCHES)	(INCHES)	00000	0222333332
00025	AIR PRESSURE	331	BAROMETRIC PRESSURE (MM OF HG)	(MM OF HG)	00000	0001233330
00027	COLLECTING AGENCY	2	AGENCY COLLECTING SAMPLE (CODE NUMBER)	(CODE NUMBER)	00000	0001234560

**Listing of output from the parameter-method reference table:**

00025		BAROMETRIC PRESSURE (MM OF HG)	(MM OF HG)	0001233330
00025	A	BAROMETRIC PRESSURE (MM OF HG)	(MM OF HG)	0001233330
00400	A	PH, WATER, WHOLE, FIELD, STANDARD UNITS	(STANDARD	0012333331
00500		SOLIDS, RESIDUE ON TOTAL EVAPORATION AT 105 D	(MG/L)	0001233330
00500	A	SOLIDS, RESIDUE ON TOTAL EVAPORATION AT 105 D	(MG/L)	0001233330
00505		RESIDUE, TOTAL LOSS ON IGNITION, VOLATILE (MG	(MG/L)	0001233330
00505	A	RESIDUE, TOTAL LOSS ON IGNITION, VOLATILE (MG	(MG/L)	0001233330
00510		RESIDUE, TOTAL FIXED (MG/L)	(MG/L)	0001233440
00515		RESIDUE, TOTAL FILTERABLE, DRIED AT 105 DEGRE	(MG/L)	0001233440
00515	A	RESIDUE, TOTAL FILTERABLE, DRIED AT 105 DEGRE	(MG/L)	0001233440
00515	B	RESIDUE, TOTAL FILTERABLE, DRIED AT 105 DEGRE	(MG/L)	0001233330
00520		RESIDUE, VOLATILE FILTRABLE (MG/L)	(MG/L)	0001233330
00520	A	RESIDUE, VOLATILE FILTRABLE (MG/L)	(MG/L)	0001233330
00525		RESIDUE, FIXED FILTERABLE (MG/L)	(MG/L)	0001233440
00525	A	RESIDUE, FIXED FILTERABLE (MG/L)	(MG/L)	0001233440
00530		RESIDUE, TOTAL NON FILTERABLE (MG/L)	(MG/L)	0001233440
00530	0	RESIDUE, TOTAL NON FILTERABLE (MG/L)	(MG/L)	0001233330
00530	A	RESIDUE, TOTAL NON FILTERABLE (MG/L)	(MG/L)	0001233440
00530	B	RESIDUE, TOTAL NON FILTERABLE (MG/L)	(MG/L)	0001233330
00535		RESIDUE, VOLATILE NONFILTRABLE (MG/L)	(MG/L)	0001233330
00535	A	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	(MG/L)	0001233330
00540		RESIDUE, FIXED NON FILTERABLE (MG/L)	(MG/L)	0001233330
00540	A	RESIDUE, FIXED NON FILTERABLE (MG/L)	(MG/L)	0001233330
00545		RESIDUE, SETTLEABLE (MG/L)	(MG/L)	0001233330

**DQI remapping report:**

[Explanation of codes: RECORD-NO, record number; PARM, parameter code; DQI, data quality indicator code]

1qwdqiflag -- DQI codes changed to: R 08-22-2001 19:22

SITE NUMBER	RECORD-NO	PARM	METHOD	VALUE	DQI
USGS 06037000	99002449	00010		2.5	A
USGS 06037000	99002449	00020		-5	A
USGS 06037000	99002449	00027		1028	A
USGS 06037000	99002449	00028		1028	A
USGS 06037000	99002449	00061		80	A
USGS 06037000	99002449	00095		465	A
USGS 06037000	99002450	00010		11.0	A
USGS 06037000	99002450	00020		7.5	A
USGS 06037000	99002450	00027		1028	A
USGS 06037000	99002450	00028		1028	A
USGS 06037000	99002450	00061		76	A
USGS 06037000	99002450	00095		487	A
USGS 06037000	99002451	00010		7.5	A
USGS 06037000	99002451	00020		.5	A
USGS 06037000	99002451	00027		1028	A

**WATLIST file:**

[Explanation of codes: C, Calculated result; N, New result; PCODE, parameter code; MET, method code ; RPLV, report level; RLCOD, report level code; REM, remark code; QUAL CODES, value qualifier codes; NLQ, null value qualifier codes; DQI, data quality indicator code; QA, quality assurance code; PRC, precision code; PRP-DATE, analysis preparatory date; ANL-DATE, analysis date; CDT, Central Daylight Time; the time datum for the sample, which will only appear if the time-datum reliability code is stored as 'K' for the sample]

```
1===== Project: 460800100 Site: USGS 06130000 Database: 01 =====
ONWIS QW Batch Enter -- Process Date: 07-01-2001 15:46 -- Transaction Number: 2
**** NEW RECORD created
```

Appendix C. Output Examples

Record Number: 97601997 SINT: 322 CDT Begin Date: 07-01-1976 12:00 End Date: Medium: 9  
 Site ID: USGS 06130000 Station Name: FLATWILLOW CREEK NEAR MOSBY, MT. State: 30 County: 069  
 Lab ID Number: 0640024 Project: 460800100 Geologic Unit: Data Types:  
 Sample Status: 7 Sample Source: 9 Hydrologic Condition: 9 Sample Type: 9 Hydrologic Event: 9  
 Organism (ITIS): Body-part id: Processing Status: R Number Parameters: 9  
 Sample Field Comment--  
 Sample Lab Comment--

* PCODE	T	RPLV	RLCOD	--PARAMETER NAME--	-----UNITS-----	--VALUE--	R QUAL N D P			PRP-DATE	ANL-DATE
							E	CODES	L Q Q R		
C 00900		--		HARDNESS TOTAL	(MG/L AS CAO3)	100					
N 00915	A	1.00	LRL	CALCIUM DISSOLVED	(MG/L AS CA)	26	p		S H 3	19760707	19760708
N 00925	A	.10	MRL	MAGNESIUM DISSOLVED	(MG/L AS MG)	8.9	q		R H 2	19760707	19760708
N 00930	B	.10	MRL	SODIUM DISSOLVED	(MG/L AS NA)	15.5	r		Q H 3	19760707	19760708
C 00931		--		SODIUM ADSORPTION R. (RATIO)		.7					
C 00932		--		SODIUM, PERCENT	PERCENT	24					
N 00935	A	.20	MRL	POTASSIUM DISSOLVED	(MG/L AS K)	4.7	s		I H 2	19760707	19760708
N 00945	C	.10	MRL	SULFATE DISSOLVED	(MG/L AS SO4)	--	t	c	P H 3	19760707	19760708
N 00951	C	.10	LT-MDL	FLUORIDE TOTAL	(MG/L AS F)	.2	u		O H 3	19760707	19760708
N 00955	C	1.00	MRL	SILICA DISSOLVED	(MG/L AS SIO2)	32.4	v		X H 3	19760707	19760708
N 01065	C	1.00	MRL	NICKEL DISSOLVED	(UG/L AS NI)	1	< w x y		A H 2	19760707	19760708
Result Lab Comment--											
Would you happen to have any Grey Poupon?											
N 39787		--		TRITHION BTM	UG/KG	.8			P 9 3	19760707	19760708

\*\*\*\* NEW RECORD CREATED -- RECORD NUMBER = 97601997

\*\*\*\* ERROR REPORT AND MESSAGES for Transaction Number 2 \*\*\*\*

RECORD NUMBER: 97601997  
 STATION ID: USGS 06130000  
 STATION NAME: FLATWILLOW CREEK NEAR MOSBY, MT.  
 COLLECTION DATE: 07-01-1976 1200 - -

PARTIAL BALANCE

CATIONS		(MG/L)	(MEQ/L)	ANIONS		(MG/L)	(MEQ/L)
CALCIUM,	DISS. MG/L	26.0	1.298				
MAGNESIUM,	DISS. MG/L	8.90	0.733				
SODIUM,	DISS. MG/L	15.5	0.675				
POTASSIUM,	DISS. MG/L	4.70	0.121				



Appendix C. Output Examples

```

                TOTAL          2.825                TOTAL          0.001
                PERCENT DIFFERENCE = 100.00
1===== Project: 460800100 Site: USGS 463722111590201 Database: 01 =====
ONWIS QW Batch Enter -- Process Date: 07-01-2001 15:46 -- Transaction Number: 1

**** NEW RECORD created

Record Number: 97601996 SINT: 315 CDT Begin Date: 07-01-1976 12:00 End Date: Medium: 6
Site ID: USGS 463722111590201 Station Name: 10N03W16DBAD01 State: 30 County: 049
Lab ID Number: 0640017 Project: 460800100 Geologic Unit: 100CNZC Data Types:
Sample Status: A Sample Source: A Hydrologic Condition: 9 Sample Type: A Hydrologic Event: 9
Organism (ITIS): Body-part id: Processing Status: R Number Parameters: 5
Sample Field Comment--
Sample Lab Comment--

M R QUAL N D P
E E CODES L Q Q R
* PCODE T RPLV RLCOD --PARAMETER NAME-- -----UNITS----- --VALUE-- M 1 2 3 Q I A C PRP-DATE ANL-DATE

N 00620 A .10 MRL NITROGEN NITRATE T. MG/L AS N 3.5 S a A H 2 19760707 19760708
Result Field Comment--
I will not eat them on a boat. I will not eat them with a go
at.
Result Lab Comment--
I do not like them Sam I am. I do not like green eggs and ha
m.
N 00680 A .10 MDL CARBON ORGANIC TOT. (MG/L AS C) 12 d R 3 3 19760707 19760708
C 00900 -- HARDNESS TOTAL (MG/L AS CAO3) 150
N 00915 A -- CALCIUM DISSOLVED (MG/L AS CA) 35.3 f Q 6 3 19760707 19760708
N 00925 A -- MAGNESIUM DISSOLVED (MG/L AS MG) 15.8 b S 1 3 19760707 19760708
N 01046 A 1.00 INT IRON DISSOLVED (UG/L AS FE) 7.3 V i I 8 2 19760707 19760708

**** NEW RECORD CREATED -- RECORD NUMBER = 97601996
Sample Status: A Sample Source: A Hydrologic Condition: 9 Sample Type: A Hydrologic Event: 9
Organism (ITIS): Body-part id: Processing Status: R Number Parameters: 5
Sample Field Comment--
Sample Lab Comment--

M R QUAL N D P
E E CODES L Q Q R
* PCODE T RPLV RLCOD --PARAMETER NAME-- -----UNITS----- --VALUE-- M 1 2 3 Q I A C PRP-DATE ANL-DATE

N 00620 A .10 MRL NITROGEN NITRATE T. MG/L AS N 3.5 S a A H 2 19760707 19760708
Result Field Comment--
I will not eat them on a boat. I will not eat them with a go
at.

```

Appendix C. Output Examples

---

Result Lab Comment--

I do not like them Sam I am. I do not like green eggs and ham.

N 00680	A	.10	MDL	CARBON ORGANIC TOT.	(MG/L AS C)	12	d	R	3	3	19760707	19760708
C 00900	--			HARDNESS TOTAL	(MG/L AS CAO3)	150						
N 00915	A	--		CALCIUM DISSOLVED	(MG/L AS CA)	35.3	f	Q	6	3	19760707	19760708
N 00925	A	--		MAGNESIUM DISSOLVED	(MG/L AS MG)	15.8	b	S	1	3	19760707	19760708
N 01046	A	1.00	INT	IRON DISSOLVED	(UG/L AS FE)	7.3	V i	I	8	2	19760707	19760708

\*\*\*\* NEW RECORD CREATED -- RECORD NUMBER = 97601996

\*\*\*\* ERROR REPORT AND MESSAGES for Transaction Number 1 \*\*\*\*

RINT: 315 PCODE: 00915 rpt\_lev\_va and rpt\_lev\_cd must both have values or both be blanks; resetting to blanks  
 RINT: 315 PCODE: 00925 rpt\_lev\_va and rpt\_lev\_cd must both have values or both be blanks; resetting to blanks

RECORD NUMBER: 97601996  
 STATION ID: USGS 463722111590201  
 STATION NAME: 10N03W16DBAD01  
 COLLECTION DATE: 07-01-1976 1200 - -

PARTIAL BALANCE

CATIONS		(MG/L)	(MEQ/L)	ANIONS	(MG/L)	(MEQ/L)
CALCIUM, DISS.	MG/L	35.3	1.762			
MAGNESIUM, DISS.	MG/L	15.8	1.301			
		TOTAL	3.062		TOTAL	0.001
			PERCENT DIFFERENCE = 100.00			

**Rejected files from tab-delimited batch processing:**

[The lines in the rejected files that begin with a ‘#’ are errors found during batch processing. The error message is included before the record creating the problem. See [Section 3.8](#) for more information.]

**Rejected.sample file:**

```
0200104002      30      USGS      472312106074500 20001220120000      6      463000300      9      9
0200104003      30      USGS      472346106100200 20010101130000 20010104140000      7      463000444      7      7      7      7
#0200104004      Invalid value: 06132200 for field: site_no
0200104004      30      USGS      06132200      20010202000100      C
```

**Rejected.result file:**

```
#0200104002      00010      Protected by DQI code: R
0200104002      00010      7.33      R      Multimeter acting funny
#0200104002      00025      Protected by DQI code: R
0200104002      00025      733      R
0200104002      00095      73.3      Multimeter acting funny
0200104003      00613      1      S
#0200104003      00631      Protected by DQI code: X
0200104003      00631      1      X
#0200104004      IRON      Invalid parameter
0200104004      IRON      1      B
```