

DEARY CREEK STUDY

Latah County

Data Collected 1979

Final Summary October 1980

**Department of Health and Welfare
Division of Environment
Statehouse
Boise, Idaho 83720**

**Water Quality Summary
No. 8**

DEARY CREEK STUDY

Latah County

Data Collected 1979

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Statehouse
Boise, Idaho 83720

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SUMMARY OF DEARY CREEK STUDY

In Water Year 1979 a water quality study was conducted on Mount Deary Creek in Latah County to determine the present water quality of the stream and to obtain background information to determine effluent limitations for the City of Deary. The survey involved the monitoring of the City of Deary lagoon discharge and three Deary Creek stations (above Deary, below Deary and at the mouth of Deary Creek). The study was designed to observe the six prominent periods of the hydrologic cycle which include fall, summer and winter base flows; and the rising limb, peak, and falling limb of spring runoff. The parameters covered in the study included temperature, dissolved oxygen, pH, oxygen demand, solids, bacteria, and nutrients.

The study on Deary Creek found that the stream is intermittent and has seasonal water quality problems with a dissolved oxygen violation, bacteria violations, excessive turbidity, and trophic nutrient concentrations. Of the water quality problems on lower Deary Creek, the Deary discharge contributed to the dissolved oxygen violation, bacteria violations, and trophic nutrient levels. The turbidity problem and a portion of the bacteria violations and nutrient problems were caused by upstream nonpoint or natural sources. An effluent limit evaluation for the City of Deary has determined that secondary treatment with an indirect or subsurface discharge during low flows or dry stream conditions will be adequate to eliminate the impact of the Deary discharge on beneficial uses.

DATA INVENTORY

2020105
 46 48 00.0 116 34 00.0 2
 MI DEARY CR AB DEARY OUTFALL
 16057 IDAHO
 PACIFIC NORTHWEST 1308
 LOWER SNAKE RIVER
 21IDSURV 780522
 0000 CLASS 00

/TYPA/AMBNT/STREAM

INDEX	1310001	002740	01350	0490	0230	0220														
MILES	0324.30	0139.30	015.10	014.20	016.40	002.00														
PARAMETER	NUMBER																			
	MEAN	VARIANCE	STAN DEV	COEF VAR	STAND ER	MAXIMUM	MINIMUM	BEG DATE	END DATE											
00010 WATER	TEMP	CENT	1	7.50000						7.50000	7.50000	79/03/20	79/03/20							
00042 ALTITUDE	FEET	AB MSL	1	2800.00						2800.00	2800.00	01/01/01	01/01/01							
00061 STREAM	FLOW	INST-CFS	5	.680000	1.71200	1.30843	1.92417	.585150	3.00000	.000000	.000000	78/10/23	79/08/13							
00076 TURB	TRBDMTR	HACH FTU	3	22.0333	173.504	13.1721	.597826	7.60491	32.0000	7.10000	7.10000	79/03/20	79/06/04							
00094 CONDUCTVY	FIELD	MICROMHO	3	95.3333	1990.35	44.6133	.467972	25.7575	138.000	49.0000	49.0000	79/03/20	79/06/04							
00095 CONDUCTVY	AT 25C	MICROMHO	3	127.000	1600.00	40.0000	.314961	23.0940	167.000	87.0000	87.0000	79/03/20	79/06/04							
00116 INTNSVE	SURVEY	IDENT	7	781604	.174E+06	.000000		.000000	781604	781604	781604	01/01/01	79/08/13							
00300 DU		MG/L	1	8.40000					8.40000	8.40000	8.40000	79/03/20	79/03/20							
00335 COD	LOWLEVEL	MG/L	3	13.7667	14.1235	3.75813	.272988	2.16976	16.9000	9.60000	9.60000	79/03/20	79/06/04							
00400 PH		SU	3	7.90000	.270073	.519685	.065783	.300040	8.20000	7.30000	7.30000	79/03/20	79/06/04							
00403 LAB	PH	SU	3	7.03333	.063438	.251870	.035611	.145417	7.30000	6.80000	6.80000	79/03/20	79/06/04							
00500 RESIDUE	TOTAL	MG/L	3	129.867	182.689	13.5163	.104078	7.80362	145.000	119.000	119.000	79/03/20	79/06/04							
00530 RESIDUE	TOT NFLT	MG/L	3	10.2667	57.0133	7.55072	.735460	4.35941	16.8000	2.00000	2.00000	79/03/20	79/06/04							
00610 NH3+NH4-	N TOTAL	MG/L	3	.334667	.021525	.146712	.438384	.084704	.489000	.197000	.197000	79/03/20	79/06/04							
00625 TOT NJEL	N	MG/L	3	1.26667	.223335	.472584	.373093	.272846	1.80000	.900000	.900000	79/03/20	79/06/04							
00630 NH2&ND3	N-TOTAL	MG/L	3	1.77000	.237700	.487545	.275449	.281484	2.10000	1.21000	1.21000	79/03/20	79/06/04							
00665 PHOS-TOT		MG/L P	3	.186667	.001633	.040415	.216507	.023333	.210000	.140000	.140000	79/03/20	79/06/04							
00940 CHLORIDE	CL	MG/L	3	8.23333	4.16343	2.04045	.247828	1.17805	10.0000	6.00000	6.00000	79/03/20	79/06/04							
31616 FEC CULI	MFM-FCBK	/100ML	3	103.000	29113.0	170.625	1.65656	98.5106	300.000	2.00000	2.00000	79/03/20	79/06/04							
31679 FECSTREP	MF H-ENT	/100ML	3	25.3333	308.334	17.5594	.693136	10.1379	42.0000	7.00000	7.00000	79/03/20	79/06/04							
70507 PHUS-T	ORTHO	MG/L P	3	.113333	.000908	.030139	.265929	.017401	.145000	.085000	.085000	79/03/20	79/06/04							

2020107
 46 47 45.0 116 34 50.0 2
 MT DEARY CR BL DEARY OUTFALL
 16057 IDAHO
 PACIFIC NORTHWEST 1308
 LOWER SNAKE RIVER
 211DSURV 780520
 0000 CLASS 00

/IYPA/AMWNT/STREAM

INDEX	0324.30	0139.30	015.10	0490	0230	0220														
MILES	0324.30	0139.30	015.10	014.20	016.40	001.50														
PARAMETER	NUMBER																			
	MEAN	VARIANCE	STAN DEV	COEF VAR	STAND ER	MAXIMUM	MINIMUM	BEG DATE	END DATE											
00010 WATER TEMP	4	7.57500	33.3892	5.77834	.762817	2.88917	15.0000	1.00000	78/10/24	79/08/13										
00042 ALTITUDE FEET	1	2800.00				2800.00	2800.00	01/01/01	01/01/01											
00061 STREAM FLOW	3	2.50667	15.2001	3.89874	1.55535	2.25094	7.00000	.020000	79/01/22	79/04/30										
00076 TURB INST-CTR	6	21.0333	229.827	15.1600	.720763	6.18906	41.0000	6.50000	78/10/24	79/08/13										
00094 CONDUCTIVY FIELD	3	112.333	3940.35	62.7722	.558803	36.2415	180.000	56.0000	79/03/20	79/06/04										
00095 CONDUCTIVY AT 25C	6	283.983	37753.1	194.302	.684201	79.3233	604.000	84.0000	78/10/24	79/08/13										
00116 INTINSVE SURVEY	7	781604	.174E+06	.000000		.000000	781604	781604	01/01/01	79/08/13										
00300 DU	4	7.55000	9.10341	3.01719	.399627	1.50859	10.2000	4.20000	78/10/24	79/08/13										
00335 COD LOWLEVEL	6	51.6666	930.945	30.5114	.590544	12.4562	105.800	15.4000	78/10/24	79/08/13										
00400 PH	4	8.10000	.226725	.476157	.050785	.238078	8.80000	7.80000	78/10/24	79/06/04										
00403 LAB PH	4	7.47500	.675863	.822109	.109981	.411054	8.70000	7.00000	79/03/20	79/08/13										
00500 RESIDUE TOTAL	6	234.100	10502.5	102.482	.437770	41.8381	378.000	129.000	78/10/24	79/08/13										
00530 RESIDUE TOT NFLT	6	21.6333	142.647	11.9435	.552087	4.87590	36.8000	7.00000	78/10/24	79/08/13										
00610 NH3+NH4- N TOTAL	6	3.11633	22.8205	4.77791	1.53319	1.95057	12.6000	.117000	78/10/24	79/08/13										
00615 NO2-N TOTAL	6	.069833	.003011	.054872	.785762	.022402	.168000	.020000	78/10/24	79/08/13										
00620 NO3-N TOTAL	6	.887166	.158819	.398521	.449207	.162696	1.46000	.480000	78/10/24	79/08/13										
00625 TOT KJEL N	6	5.70000	34.8039	5.89948	1.03500	2.40845	17.1000	1.50000	78/10/24	79/08/13										
00665 PHOS-TOT	6	3.74166	12.6043	3.55026	.948846	1.44939	9.78000	.440000	78/10/24	79/08/13										
00940 CHLORIDE CL	6	19.5333	401.126	20.0281	1.02533	8.17645	57.5000	4.00000	78/10/24	79/08/13										
31616 FEC COLI MFM-FCBR	6	2941.67	7336099	2708.52	.920745	1105.75	6000.00	170.000	78/10/24	79/08/13										
31679 FECSTREP MF M-ENT	6	524.000	456518	675.661	1.28943	275.837	1800.00	32.0000	78/10/24	79/08/13										
70300 RESIDUE DISS-180	1	92.0000				92.0000	92.0000	92.0000	79/03/20	79/03/20										
70507 PHOS-T URTHO	6	3.18216	11.7145	3.42265	1.07557	1.39729	8.80000	.333000	78/10/24	79/08/13										

2020108
 46 47 15.0 116 3b 05.0 2
 MT DEARY AT MOUTH
 16057 IDAHO
 PACIFIC NORTHWEST 1308
 LOWER SNAKE RIVER
 21IDSURV 780520
 0000 CLASS 00

/IYPA/AMOUNT/STREAM

INDEX	1310001	002740	01350	0490	0230	0220									
MILES	0324.30	0139.30	015.10	014.20	016.40	000.10									
PARAMETER	NUMBER						MEAN	VARIANCE	STAN DEV	COEF VAR	STAN ER	MAXIMUM	MINIMUM	BEG DATE	END DATE
00010 WATER	FEMP	CENT					3	4.03333	13.3633	3.65559	.906344	2.11055	7.80000	.50000	78/10/24 79/03/20
00042 ALTITUDE	FEET	AB MSL					1	2600.00				2600.00	2600.00	01/01/01 01/01/01	
00061 STREAM	FLOW,	INST-CFS					4	12.2750	287.436	16.9539	1.38118	8.47697	36.0000	.000000	79/03/20 79/08/13
00076 TURB	TRBIDMTR	HACH FTU					5	14.6800	253.492	15.9214	1.08457	7.12028	41.0000	2.20000	78/10/24 79/06/04
00094 CONDUCTIVY	FIELD	MICROMHO					3	88.6667	905.346	30.0890	.339349	17.3719	120.000	60.0000	79/03/20 79/06/04
00095 CONDUCTIVY	AT 25C	MICROMHO					5	116.040	3856.75	62.1027	.535184	27.7732	196.000	37.5000	78/10/24 79/06/04
00116 INTNSVE	SURVEY	IDENT					7	781604	.174E+06	.000000		.000000	781604	781604	01/01/01 79/08/13
00300 DU		MG/L					3	11.0000	1.56030	1.24912	.113556	.721180	12.0000	9.60000	78/10/24 79/03/20
00335 CUD	LOWLEVEL	MG/L					5	15.3200	37.4871	6.12267	.399652	2.73814	20.0000	5.00000	78/10/24 79/06/04
00400 PH		SU					4	8.17500	.095947	.309754	.037890	.154877	8.60000	7.90000	78/10/24 79/06/04
00403 LAB	PH	SU					3	7.10000	.070129	.264820	.037299	.152894	7.40000	6.90000	79/03/20 79/06/04
00500 RESIDUE	TOTAL	MG/L					5	145.360	2694.87	51.9122	.357128	23.2158	236.000	104.800	78/10/24 79/06/04
00530 RESIDUE	TOT NFLT	MG/L					5	20.4800	1272.75	35.6756	1.74197	15.9546	84.0000	2.00000	78/10/24 79/06/04
00610 NH3+NH4-	N TOTAL	MG/L					5	.442799	.568389	.753916	1.70261	.337161	1.79000	.059000	78/10/24 79/06/04
00615 NO2-N	TOTAL	MG/L					5	.014400	.000233	.015258	1.05957	.006823	.041000	.002000	78/10/24 79/06/04
00620 NO3-N	TOTAL	MG/L					5	.985999	1.51288	1.22999	1.24746	.550069	2.96000	.060000	78/10/24 79/06/04
00625 TOT KJEL	N	MG/L					5	1.05000	.440001	.663326	.631739	.296648	2.20000	.500000	78/10/24 79/06/04
00665 PHOS-TOT		MG/L P					5	.482000	.231120	.480749	.997405	.214997	1.30000	.040000	78/10/24 79/06/04
00940 CHLDRIDE	CL	MG/L					5	23.4100	1056.62	32.5056	1.38854	14.5370	78.7000	3.00000	78/10/24 79/06/04
31616 FEC COLI	MFM-FCBR	/100ML					5	4.00000	14.0000	3.74166	.935414	1.67332	9.00000	1.00000	78/10/24 79/06/04
31679 FECSTREP	MF M-ENT	/100ML					5	32.2000	1158.20	34.0323	1.05690	15.2197	90.0000	2.00000	78/10/24 79/06/04
70507 PHOS-T	ORTHU	MG/L P					5	.430799	.252285	.502280	1.16592	.224626	1.30000	.022000	78/10/24 79/06/04

RAW DATA

STORED RETRIEVAL DATE 80/07/02

2020105
46 48 00.0 116 34 00.0 2
M1 DEARY CR AN DEARY OUTFALL
16057 IDAHO
PACIFIC NORTHWEST 1308
LOWER SHAKL RIVER
211DSURV 780522

/IYPA/AMBI/STREAM

INDEX 1310001 002740 01350 0490 0230 0220
MILES 0324.30 0159.30 015.10 014.20 016.40 002.00

DATE	TIME	DEPTH	PH	LAB	TOT COLI	FEC COLI	FLCSTREP	NO2&NO3	NO3-N	NH3+NH4-	NO2-N	TOT KJEL
FROM	OF			PH	MFIMENDO	MF-MFCBR	MF M-ENT	N-TOTAL	TOTAL	N TOTAL	TOTAL	N
TO	DAY	FEET	SU	SU	/100ML	/100ML	/100ML	MG/L	MG/L	MG/L	MG/L	MG/L
79/03/20	15	27	7.30	6.8		7	42	1.21		0.318		1.800
79/04/30	14	05	8.20	7.0		2	7	2.00		0.489		1.100
79/06/04	13	40	8.20	7.3		300	27	2.10		0.197		0.900

START RETRIEVAL DATE 80/07/02

2020105
46 48 00.0 116 34 00.0 2
MI DEARY CR AB DEARY OUTFALL
16057 IDAHO
PACIFIC NORTHWEST 1308
LOWER SNAKE RIVER
2105URV 780522

ZIYPA/ABBNT/STREAM

INDEX 1510001 002740 01350 0490 0230 0220
MILES 0324.50 0139.50 015.10 014.20 016.40 002.00

DATE	TIME	DEPTH	PHOS-TOT	PHOS-T	PHOS-TOT	TURB	TURB	CONDUCTIVY	CONDUCTIVY	SUSP SED	SEDIMENT	RESIDUE
FROM	OF		MG/L P	MG/L P	MG/L P	HACH FTU	JKSJ	FIELD	AT 25C	CUNC	PHOS-T	TOT NFLT
TO	DAY	FEET					JTU	MICROMHO	MICROMHO	MG/L	PERCENT	MG/L
79/03/20	15	27	0.210	0.145		27.0			49	87		12
79/04/30	14	05	0.210	0.110		32.0			99	127		17
79/06/04	13	40	0.140	0.085		7.1			138	167		2

STORE RECEIVAL DATE 80/07/02

2020105
46 48 00.0 116 34 00.0 2
MT DEARY CR AB DEARY OUTFALL
16057 IDAHO
PACIFIC NORTHWEST 1308
LOWER SNAKE RIVER
21IDSURV 780522

/IYPA/APBNT/STREAM

INDEX 1310001 002740 01350 0490 0230 0220
MILES 0324.30 0139.30 015.10 014.20 016.40 002.00

DATE	TIME	DEPTH	RESIDUE	RESIDUE	RESIDUE	B MUD	CYANIDE	ALPHA	BETA	CHLORIDE
FROM	TO	FEET	DISS-180	TOTAL	TOT VOL	DRY WGT	CN-TOT	TOTAL	TOTAL	CL
	DAY		MG/L	MG/L	MG/L	MG/KG-B	MG/L	PC/L	PC/L	MG/L

79/03/20	15	27		119						6
79/04/30	14	05		126						9
79/06/04	13	40		145						10

2020106
 46 48 00.0 116 34 15.0 2
 DEARY EFFL TO MT DEARY CREEK
 16057 IDAHO
 PACIFIC NORTHWEST 1308
 LOWER SNAKE RIVER
 211DSURV 780522

Z/YPA/AMOUNT/STREAM

INPLX 1310001 002740 01350 0490 0230 0220
 MILES 0324.30 0139.30 015.10 014.20 016.40 001.90

DATE	TIME	DEPTH	INTNSVE	WATER	ALTITUDE	STREAM	00300	00299	00310	00335	00340	00355
FROM	OF	FEET	SURVEY	TEMP	FEET	FLOW,	DU	DU	DU	CUO	CUO	DUO
TO	DAY	FEET	IDENT	CENT	AB MSL	INST-CFS	MG/L	MG/L	MG/L	LOWLEVEL	HI LEVEL	56 DAY
										MG/L	MG/L	MG/L
01/01/01			781604		2000							
78/10/24			781604	9.0		0.03	10.0			73.0		
79/01/22			781604			0.02	7.9			127.4		
79/03/20	15	40	781604	7.7			7.0			50.0		
79/04/30	14	15	781604									
79/06/04	13	55	781604			0				67.2		
79/08/13			781604	13.5			6.3		60.0K	105.0		

STORE RETRIEVAL DATE 80/07/02

2020106
 46 48 00.0 116 34 15.0 2
 DEARY EFFL TO MT DEARY CREEK
 16057 IDAND
 PACIFIC NORTHWEST 1308
 LOWER SNAKE RIVER
 211DSURV 780522

/IYPA/ARBN/3IRLAM

INDEX 131001 002740 01350 0490 0230 0220
 MILFS 0324.30 0139.30 015.10 014.20 016.40 001.90

DATE	TIME	DEPTH	PH	LAB	TOT COLI	FEC COLI	FECSTREP	NO2&NO3	NO3-N	NH3+NH4-	NO2-N	TOT KjEL
FROM	TO	DAY	FEET	SU	PH	MFIMENDU	MF M-ENT	N-TOTAL	TOTAL	N TOTAL	TOTAL	N
				SU	SU	/100ML	/100ML	MG/L	MG/L	MG/L	MG/L	MG/L
78/10/24			7.70			570	78		0.460	4.300	0.126	8.900
79/01/22						6000L	900		0.190	18.500	0.013	23.300
79/03/20	15	40	7.70	7.0		23000	8200		0.004	4.380	0.028	8.000
79/04/30	14	15	8.70	9.8		7000	790		0.200K	0.422	0.010	7.000
79/06/04	13	55	8.00	7.9		770	32		0.010	3.040	0.120	5.800
79/08/13			8.00	7.0		80	58		0.032	0.760	0.086	6.220

START RETRIEVAL DATE 00/07/02

2020106
 46 48 00.0 116 34 15.0 2
 DEARY EFFL TO MI DEARY CREEK
 16057 IDAHO
 PACIFIC NORTHWEST 1308
 LOWER SNAKE RIVER
 2110SURV 780522

ZIYPA/AMBI/STREAM

INDEX 1310001 002/90 01350 0490 0230 0220
 MILES 0324.30 0139.30 015.10 014.20 016.40 001.90

DATE	TIME	DEPTH	PHOS-TOT	PHOS-T	PHOS-TOT	TURB	TURB	CONDUCTIVY	CONDUCTIVY	SUSP SED	SEDIMENT	RESIDUE
FROM	ON		MG/L P	MG/L P	MG/L P	TRBIDMTR	JKSN	FIELD	AT 25C	CUNC	PHUS-T	TOT NFLT
TO	DAY	FEET				HACH FTU	JTU	MICROMHU	MICROMHU	MG/L	PERCENT	MG/L
78/10/24			0.100	7.670		5.3				393		13
79/01/22			13.530	12.260		88.0				604		33
79/03/20	15	40	3.350			28.0				132		30
79/04/30	14	15	2.640	2.360		32.0		132		162		51
79/06/04	13	55	4.120	1.800		6.7		193		241		11
79/08/13			5.750	4.610		10.0				260		68

2020106
 46 48 00.0 116 34 15.0 2
 DEARY EFFL TO MT DEARY CREEK
 16057 IDAHO
 PACIFIC NORTHWEST 1308
 LOWER SNAKE RIVER
 210SURV 780522

/1YPA/AR-BOT/STREAM

INDEX 1310001 002740 01350 0490 0230 0220
 MILLS 0324.30 0139.30 015.10 014.20 016.40 001.90

DATE	TIME	DEPTH	RESIDUE	RESIDUE	RESIDUE	B MOD	CYANIDE	ALPHA	BETA	CHLORIDE
FROM	OF		DISS-180	TOTAL	TOT VOL	DRY WGT	CN-TOT	TOTAL	TOTAL	CL
10	DAY	FEET	C	MG/L	MG/L	MG/KG-B	MG/L	PC/L	PC/L	MG/L
78/10/24				331						8
79/01/22				400						36
79/03/20	15	40		173						13
79/04/30	14	15		178						11
79/06/04	13	55		227						12
79/08/13				314						22

STORED RETRIEVAL DATE 00/07/02

2020107
46 47 45.0 116 34 50.0 2
MT DEARY CR BL DEARY OUTFALL
16057 IDAHO
PACIFIC NORTHWEST 1308
LOWER SNAKE RIVER
210SURV 780520

/IYPA/AGB.01/STREAM

INDEX 1310001 002740 01350 0490 0230 0220
MILES 0324.30 0139.30 015.10 014.20 016.40 001.50

DATE FROM TO	TIME OF DAY	DEPTH FEET	INSTR SURVEY IDENT	WATER TEMP CEN	ALTITUDE FEET AB MSL	STREAM FLOW, INST-CFS	00300 DO MG/L	00299 DO PROBE MG/L	00310 DO 5 DAY MG/L	00335 DO LOWLEVEL MG/L	00340 DO HI LEVEL MG/L	00355 DO 56 DAY MG/L
01/01/01			781604		2800							
78/10/24			781604	6.3			10.2			57.6		
79/01/22			781604	1.0		0.02	5.8			105.8		
79/03/20	16 00		781604	8.0		7	10.0			15.4		
79/04/30	14 30		781604			0.5				35.1		
79/06/04	14 15		781604							42.0		
79/08/13			781604	15.0			4.2			54.1		

2020107
 46 4/ 45.0 116 34 50.0 2
 MT DEARY CR BL DEARY OUTFALL
 16057 IDAHO
 PACIFIC NORTHWEST 1308
 LOWER SNAKE RIVER
 211DSURV 780520

/IYPA/AFBR1/STREAM

INDEX 1310001 002740 01350 0490 0230 0220
 MILES 0324.30 0139.30 015.10 014.20 016.40 001.50

DATE	TIME	DEPTH	PH	LAB	TOT COLI	FEC COLI	FECSTREP	NO2&NO3	NO3-N	NH3+NH4-N	NO2-N	TOT KjEL
FROM	OF			PH	MFMENDU	MFM-FCBR	MFM-ENI	N-TOTAL	TOTAL	N TOTAL	TOTAL	N
TO	DAY	FEET	SU	SU	/100ML	/100ML	/100ML	MG/L	MG/L	MG/L	MG/L	MG/L
78/10/24			7.80			760	200		1.460	2.880	0.049	7.000
79/01/22						6000L	32		1.250	12.600	0.020	17.100
79/03/20	16	00	7.80	7.0		4500	720		0.721	0.622	0.028	1.500
79/04/30	14	30	8.20	8.7		5600	360		0.900	0.117	0.095	2.400
79/06/04	14	15	8.00	7.0		170	32		0.480	2.210	0.168	3.500
79/08/13				7.2		620	1800		0.512	0.269	0.059	2.700

STORED RETRIEVAL DATE 80/07/02

2020107
 46 47 45.0 116 34 50.0 2
 NI DEARY CR BL DEARY OUTFALL
 16057 IDAHO
 PACIFIC NORTHWEST 1308
 LOWER SNAKE RIVER
 211DSURV 780520

ZIYPA/AFBNT/STREAM

INDLX 1310001 002740 01350 0490 0230 0220
 MILLS 0324.30 0139.30 015.10 014.20 016.40 001.50

DATE	TIME	DEPTH	PHOS-TOT	PHOS-T	PHOS-TOT	TURB	TURB	CONDUCTIVY	CONDUCTIVY	SUSP SED	SEDIMENT	RESIDUE
FROM	OF		ORTHO	HYDRO	TRBIDMTR	JKSN	JTU	FIELD	AT 25C	CUNC	PHOS-T	TOT NFLI
TO	DAY	FELT	MG/L P	MG/L P	MG/L P	HACH FTU		MICROMHU	MICROMHU	MG/L	PERCENT	MG/L
78/10/24			5.940	5.910		6.5				416		9
79/01/22			9.780	8.800		41.0				604		31
79/03/20	16	00	0.440	0.333		34.0		56		84		20
79/04/30	14	30	0.800	0.710		28.0		101		130		37
79/06/04	14	15	2.440	1.050		7.7		180		221		7
79/08/13			3.050	2.290		9.0				249		26

SHREK RELIEVAL DATE 80/07/02

2020107
46 47 45.0 116 34 50.0 2
MT DEARY CR BL DEARY OUTFALL
16057 IDAMU
PACIFIC NORTHWEST 1308
LOWER SNAKE RIVER
2110SURV 780520

ZIYPA/AFBHI/STREAM

INPLX 1310001 002740 01350 0490 0230 0220
MILFS 0324.30 0139.30 015.10 014.20 016.40 001.50

DATE	TIME	DLPTH	RESIDUE	RESIDUE	RESIDUE	B MUD	CYANIDE	ALPHA	BETA	CHLORIDE	
FROM	OF		DISS-180	TOTAL	TOT VOL	DRY WGT	CN-TOT	TOTAL	TOTAL	CL	
TU	DAY	FEET	C	MG/L	MG/L	MG/L	MG/K6-B	MG/L	PC/L	PC/L	MG/L
78/10/24					329						26
79/01/22					378						58
79/03/20	16	00		92	124						4
79/04/30	14	30			132						9
79/06/04	14	15			199						11
79/08/13					238						10

STORE RETRIEVAL DATE 80/07/02

2020108
46 47 15.0 116 36 05.0 2
MT DEARY AT MOUTH
16057 IDAHO
PACIFIC NORTHWEST 1308
LOWER SNAKE RIVER
211DSURV 780520

ZIYPA/AMPR/STREAM

INDEX 1510001 002740 01350 0490 0230 0220
MILES 0524.30 0139.30 015.10 014.20 016.40 000.10

DATE	TIME	DEPTH	INSTR	WATER	ALTITUDE	STREAM	00300	00299	00310	00335	00340	00355
FROM	OF	FEET	SURVEY	TEMP	FEET	FLWA,	DU	DU	BOD	CUU	CUU	BOD
TO	DAY	FEET	IDENT	CENT	AB MSL	INST-CFS	MG/L	MG/L	5 DAY	LOWLEVEL	HI LEVEL	56 DAY
									MG/L	MG/L	MG/L	MG/L
01/01/01			781604		2600							
78/10/24			781604	5.8			12.0			5.0		
79/01/22			781604	0.5			11.4			19.9		
79/03/20	16	40	781604	7.8						15.8		
79/04/30	14	45	781604							15.9		
79/06/04	14	35	781604				0.1			20.0		
79/08/13			781604				0					

STORE RETRIEVAL DATE 80/07/02

2020108
46 47 15.0 116 36 05.0 2
MI DEARY AT MOUTH
16057 IDAHO
PACIFIC NORTHWEST 1308
LOWER SNAKE RIVER
211DSURV 780520

/TTPA/ANBNL/STREAM

INDEX 1310001 002740 01350 0490 0230 0220
MILES 0324.30 0139.30 015.10 014.20 016.40 000.10

DATE	TIME	DEPTH	PH	LAB	TOT COLI	FEC COLI	FECSTREP	NO2&NO3	NO3-N	NH3+NH4-	NO2-N	TOT KJEL
FROM	OF		PH	PH	MFIMENDU	MFIM-FCBR	MF M-ENT	N-TOTAL	TOTAL	N TOTAL	TOTAL	N
10	DAY	FEET	SU	SU	/100ML	/100ML	/100ML	MG/L	MG/L	MG/L	MG/L	MG/L
78/10/24			7.90				9	17	0.060	0.090	0.002K	0.950
79/01/22							2K	2K	1.390	1.790	0.009	2.200
79/03/20	16	40	8.00	6.9			1	90	2.960	0.123	0.041	0.800
79/04/30	14	45	8.60	7.0			7	20	0.460	0.059	0.011	0.800
79/06/04	14	35	8.20	7.4			1	32	0.060	0.152	0.009	0.500

STORE RETRIEVAL DATE 80/07/02

2020108
46 47 15.0 116 36 05.0 2
MT DEARY AT MOUTH
16057 IDAHO
PACIFIC NORTHWEST 1308
LOWER Snake RIVER
211DSURV 780520

ZIYPA/AGWT/STREAM

INDEX 1310001 002740 01350 0490 0230 0220
MILES 0324.30 0139.30 015.10 014.20 016.40 000.10

DATE	TIME	DEPTH	PHOS-TOT	PHOS-T	PHOS-TOT	TURB	TURB	CONDUCTIVY	CONDUCTIVY	SUSP SED	SEDIMENT	RESIDUE
FROM	OF		MG/L P	MG/L P	MG/L P	TURBIDMTR	JKSN	FIELD	AT 25C	CUNC	PHOS-I	TOT NFLT
TO	LAY	FEET				HACH FTU	JTU	MICROMHO	MICROMHO	MG/L	PERCENT	MG/L
78/10/24			0.040	0.022		8.0				196		2K
79/01/22			1.300	1.300		2.2				30		4
79/03/20	16	40	0.280	0.231		41.0		60	81			84
79/04/30	14	45	0.440	0.380		18.0		86	110			10
79/06/04	14	35	0.350	0.221		4.2		120	156			2K

STORED RETRIEVAL DATE 80/07/02

2020108
46 47 15.0 116 36 05.0 2
MT DEARY AT MOUTH
1605/ IDAHO
PACIFIC NORTHWEST 1308
LOWER SNAKE RIVER
21IDSURV 780520

/TYPAGE/AMOUNT/STREAM

INDEX 1310001 002740 01350 0490 0230 0220
MILLS 0320.30 0139.50 015.10 014.20 016.40 000.10

DATE	TIME	DEPTH	RESIDUE	RESIDUE	RESIDUE	B MUD	CYANIDE	ALPHA	BETA	CHLORIDE
FROM	OF		DISS-180	TOTAL	TOT VOL	DRY WGT	CN-TOT	TOTAL	TOTAL	CL
TO	DAY	FEET	C	MG/L	MG/L	MG/L	MG/L	PC/L	PC/L	MG/L

78/10/24				136						27
79/01/22				236						19
79/03/20	16	40		126						4
79/04/30	14	45		105						4
79/06/04	14	35		124						3