ADMINISTRATIVE RECORD
SF FILE NUMBER
1070101

ASARCO 0071760
Received from Hydro 9/4/85

			Date
1	HULST	AEH-8411-0	11/3/84
2	AM CHEMET 2	AEH-8411-1	11/3/84
3	AM CHEMET 3	AEH-8411-2	11/3/84
4	HELFERT	AEH-8411-3	11/3/84
5	MCDONALD 1	AEH-8411-4	11/2/84
6	DUEL	AEH-8411-5	11/2/84
7	MANION	AEH-8411-6	11/2/84
8	LAMPING C.	AEH-8411-7	11/2/84
9	LAMPING F. 1	AEH-8411-8	11/2/84
10	DON BURNHAM	AEH-8411-9	11/2/84
11	DUPLICATE OF DUEL	AEH-8411-10	11/2/84
12	DUPLICATE OF HELFERT	AEH-8411-11	11/3/84
13	BLANK #1	AEH-8411-12	11/2/84
14	QC BLANK #1	AEH-8411-13	11/2/84
15	LAMPING C CONTROL	AEH-8411-14	11/2/84

1264375 - R8 SDMS

Gene - faxed to Lucero 9/6/85

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1	PPC-3	AEH-8411-21	11/7/84	
2	PPC-4	AEH-8411-22	11/6/84	
3	PPC-5	AEH-8411-23	11/6/84	
4	PPC-6	AEH-8411-24	11/6/84	
5	PPC-7	AEH-8411-25	11/5/84	
6	PPC-8	AEH-8411-26	11/5/84	
7	PPC-9	AEH-8411-27	11/5/84	
8	WD-1	AEH-8411-28	11/7/84	
9	WD-2	AEH-8411-29	11/7/84	
10	WD-3	AEH-8411-30	11/7/84	
11	P-1	AEH-8411-31	Not Sampled	
12	P-2	AEH-8411-32		
13	P-3	AEH-8411-33	over Land	
14	P-4	AEH-8411-34	runoff #s	
15	P-5	AEH-8411-35	Not Used	
16	UPPER LAKE	AEH-8411-36	11/7/84	
17	LOWER LAKE	AEH-8411-37	11/7/84	
18	THORNOCK LAKE	AEH-8411-38	11/7/84	
19	DUPLICATE OF PPC 5	AEH-8411-39	11/6/84	
20	DUPLICATE OF UPPER LAKE	AEH-8411-40	11/7/84	
21	F BLANK #2	AEH-8411-41	11/8/84	
22	UF BLANK #2	AEH-8411-42	11/8/84	
23	DUPLICATE OF THORNOCK LAKE	AEH-8411-43		
24	QC BLANK #2	AEH-8411-44	11/8/84	TDS, pH

1	PPC-3		AEH-8501-101	1/14/85
2	PPC-4		AEH-8501-102	1/14/85
3	PPC-5		AEH-8501-103	1/11/85
4	PPC-6		AEH-8501-104	1/11/85
5	PPC-7		AEH-8501-105	1/10/85
6	PPC-8		AEH-8501-106	1/10/85
7	PPC-9		AEH-8501-107	1/10/85
8	F&UF REPLICATE-1	PPC-8	AEH-8501-108	1/10/85
9			~~AEH-8501-109~~	
10	UF BLANK-1		AEH-8501-110	1/9/85
11	F BLANK-1		AEH-8501-111	1/9/85
12	~~UF~~ REPLICATE-2	PPC-6	AEH-8501-112	1/11/85
13	~~F~~ REPLICATE-~~2~~	PPC-3	AEH-8501-113	1/14/85
14	UF BLANK-2		AEH-8501-114	1/10/85
15	F BLANK-2		AEH-8501-115	1/10/85
16	DH-1		AEH-8501-116	1/15/85
17	DH-2		AEH-8501-117	1/18/85
18	DH-3		AEH-8501-118	1/18/85
19	DH-4		AEH-8501-119	1/16/85
20	DH-5		AEH-8501-120	1/17/85
21	DH-6		AEH-8501-121	1/16/85
22	DH-7		AEH-8501-122	1/16/85
23	DH-8		AEH-8501-123	1/17/85
24	DH-9		AEH-8501-124	1/18/85
25	DH-10		AEH-8501-125	1/15/85
26	DH-11		AEH-8501-126	1/15/85
27	F REPLICATE-1	DH-1	AEH-8501-127	1/15/85
28	F REPLICATE-2	DH-4	AEH-8501-128	1/16/85
29	F REPLICATE-3	DH-5	AEH-8501-129	1/17/85
30	F REPLICATE-4	DH-3	AEH-8501-130	1/18/85
31	F BLANK-1		AEH-8501-131	1/15/85
32	F BLANK-2		AEH-8501-132	1/16/85
33	F BLANK-3		AEH-8501-133	1/17/85
34	F BLANK-4		AEH-8501-134	1/18/85
35	UF&F REPLICATE-3		AEH-8501-135	1/11/85
36	UF&F BLANK-3		AEH-8501-136	1/14/85
37	F REPLICATE-5	DH-11	AEH-8501-137	1/21/85
38	F BLANK-5		AEH-8501-138	1/21/85

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1	F & UF BLANK 1		AEH-8504-301	4/2/85
2	F & UF BLANK 2		AEH-8504-302	4/3/85
3	F & UF BLANK 3		AEH-8504-303	4/4/85
4	F & UF BLANK 4		AEH-8504-304	4/8/85
5	F & UF REPLICATE 1	PPC-9	AEH-8504-305	4/2/85
6	F & UF REPLICATE 2	PPC-5	AEH-8504-306	4/3/85
7	F & UF REPLICATE 3	Thornock Lk	AEH-8504-307	4/4/85
8	F & UF REPLICATE 4	DH-7	AEH-8504-308	4/8/85
9	UPPER LAKE		AEH-8504-309	4/4/85
10	LOWER LAKE		AEH-8504-310	4/4/85
11	THORNOCK LAKE		AEH-8504-311	4/4/85
12	DH-1		AEH-8504-312	4/10/85
13	DH-2		AEH-8504-313	4/10/85
14	DH-3		AEH-8504-314	4/10/85
15	DH-4		AEH-8504-315	4/9/85
16	DH-5		AEH-8504-316	4/9/85
17	DH-6		AEH-8504-317	4/8/85
18	DH-7		AEH-8504-318	4/8/85
19	DH-8		AEH-8504-319	4/10/85
20	DH-9		AEH-8504-320	4/9/85
21	DH-10		AEH-8504-321	4/8/85
22	F REPLICATE 5	DH-4	AEH-8504-322	4/9/85
23	F REPLICATE 6	DH-3	AEH-8504-323	4/10/85
24	~~F REPLICATE 7~~		~~AEH-8504-324~~	
25	F BLANK 4		AEH-8504-325	
26	F BLANK 5		AEH-8504-326	4/9/85
27	F BLANK 6		AEH-8504-327	4/10/85
28	~~F BLANK 7~~		~~AEH-8504-328~~	
29	~~F REPLICATE 8~~		~~AEH-8504-329~~	
30	PPC-3		AEH-8504-330	4/3/85
31	PPC-4		AEH-8504-331	4/3/85
32	PPC-5		AEH-8504-332	4/3/85
33	PPC-6		AEH-8504-333	4/2/85
34	PPC-7		AEH-8504-334	4/2/85
35	PPC-8		AEH-8504-335	4/2/85
36	PPC-9		AEH-8504-336	4/2/85
37	DH-11		AEH-8504-337	4/8/85

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1	F & UF BLANK 1	AEH-8504-301	
2	F & UF BLANK 2	AEH-8504-302	
3	F & UF BLANK 3	AEH-8504-303	
4	F & UF BLANK 4	AEH-8504-304	
5	F & UF REPLICATE 1	AEH-8504-305	
6	F & UF REPLICATE 2	AEH-8504-306	
7	F & UF REPLICATE 3	AEH-8504-307	
8	F & UF REPLICATE 4	AEH-8504-308	
9	UPPER LAKE	AEH-8504-309	
10	LOWER LAKE	AEH-8504-310	
11	THORNOCK LAKE	AEH-8504-311	
12	DH-1	AEH-8504-312	
13	DH-2	AEH-8504-313	
14	DH-3	AEH-8504-314	
15	DH-4	AEH-8504-315	
16	DH-5	AEH-8504-316	
17	DH-6	AEH-8504-317	
18	DH-7	AEH-8504-318	
19	DH-8	AEH-8504-319	
20	DH-9	AEH-8504-320	
21	DH-10	AEH-8504-321	
22	F REPLICATE 5	AEH-8504-322	
23	F REPLICATE 6	AEH-8504-323	
24	F REPLICATE 7	AEH-8504-324	
25	F BLANK 4	AEH-8504-325	
26	F BLANK 5	AEH-8504-326	
27	F BLANK 6	AEH-8504-327	
28	F BLANK 7	AEH-8504-328	
29	F REPLICATE 8	AEH-8504-329	
30	PPC-3	AEH-8504-330	
31	PPC-4	AEH-8504-331	
32	PPC-5	AEH-8504-332	
33	PPC-6	AEH-8504-333	
34	PPC-7	AEH-8504-334	
35	PPC-8	AEH-8504-335	
36	PPC-9	AEH-8504-336	
37	DH-11	AEH-8504-337	
	WD-2	AEH-8504-338	4/9/85
	Replicate 10	AEH-8504-339	↓
	Blank 10	AEH-8504-340	
	WD-2 (JN Sample)	AEH-8504-341	4/18/85
	WD-2	AEH-8504-342	4/26/85
	Replicate 11	AEH-8504-343	↓
	Blank "	AEH-8504-344	
	WD-2	AEH-8505-~~34~~ 100	5/3/85
	Replicate	AEH-8505-~~102~~ 101	5/3/85
	Blank	AEH-8505-103	5/3/85

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1	F & UF BLANK 1	AEH-8505-401	5/7/85
2	F & UF BLANK 2	AEH-8505-402	5/8/85
3	F & UF BLANK 3	AEH-8505-403	5/13/85
~~4~~	~~F & UF BLANK 4~~	~~AEH-8505-404~~	
5	F & UF REPLICATE 1 PPC-8	AEH-8505-405	5/7/85
6	F & UF REPLICATE 2 WD-3	AEH-8505-406	5/8/85
7	F & UF REPLICATE 3 Burnham	AEH-8505-407	5/13/85
~~8~~	~~F & UF REPLICATE 4~~	~~AEH-8505-408~~	
9	~~UPPER LAKE~~	~~AEH-8505-409~~	
10	~~LOWER LAKE~~	~~AEH-8505-410~~	
11	~~THORNOCK LAKE~~	~~AEH-8505-411~~	
12	HULST	AEH-8505-412	5/13/85
13	AM CHEMET 2	AEH-8505-413	
14	AM CHEMET 3	AEH-8505-414	
15	HELFERT	AEH-8505-415	
16	MCDONALD	AEH-8505-416	
17	MANION	AEH-8505-417	5/14/85
18	DUEL	AEH-8505-418	5/14/85
19	LAMPING F	AEH-8505-419	5/14/85
20	LAMPING C	AEH-8505-420	5/13/85
21	BURNHAM	AEH-8505-421	5/13/85
22	F REPLICATE 5 WD-2	AEH-8505-422	5/17/85
23	F REPLICATE 6 WD-2	AEH-8505-423	5/24/85
24	F REPLICATE 7 WD-2	AEH-8505-424	5/31/85
25	F BLANK 5	AEH-8505-425	5/17/85
26	F BLANK 6	AEH-8505-426	5/24/85
27	F BLANK 7	AEH-8505-427	5/31/85
~~28~~	~~F BLANK 8~~	~~AEH-8505-428~~	
29	F REPLICATE 8	AEH-8505-429	
30	PPC-3	AEH-8505-430	5/8/85
31	PPC-4	AEH-8505-431	5/7/85
32	PPC-5	AEH-8505-432	5/7/85
33	PPC-6	AEH-8505-433	5/7/85
34	PPC-7	AEH-8505-434	5/7/85
35	PPC-8	AEH-8505-435	5/7/85
36	PPC-9	AEH-8505-436	5/7/85
37	WD-2	AEH-8505-437	5/8/85
38	~~REPLICATE 9~~	~~AEH-8505-438~~	
39	~~BLANK 9~~	~~AEH-8505-439~~	
40	WD-2	AEH-8505-440	5/17/85
41	~~REPLICATE 10~~	~~AEH-8505-441~~	
42	~~BLANK 10~~	~~AEH-8505-442~~	
43	WD-2	AEH-8505-443	5/24/85
44	~~REPLICATE 11~~	~~AEH-8505-444~~	
45	~~BLANK 11~~	~~AEH-8505-445~~	
46	~~WD-2~~	~~AEH-8505-446~~	
47	~~REPLICATE 12~~	~~AEH-8505-447~~	
48	~~BLANK 12~~	~~AEH-8505-448~~	
49	WD-2	AEH-8505-449	5/31/85
50	~~REPLICATE 13~~	~~AEH-8505-450~~	
51	~~BLANK 13~~	~~AEH-8505-451~~	
52	WD-3	AEH-8505-452	5/8/85
53	WD-1	AEH-8505-453	5/8/85
54	SEEP-1	AEH-8505-454	5/7/85
55	HOFF	AEH-8505-455	5/14/85
56	JENSEN	AEH-8505-456	
57	ERNST	AEH-8505-457	
58	BERRY	AEH-8505-458	
59	VETSCH	AEH-8505-459	
60	ROMANSKO	AEH-8505-460	
61	WESTON	AEH-8505-461	
62	R LAMPING	AEH-8505-462	
63	NOROSTROM	AEH-8505-463	
64	WOJVIK	AEH-8505-464	
65	FIAGE	AEH-8505-465	

HYDROMETRICS HELENA, MT

0071766

SAMPLE CODES

PROJECT: ASARCO - EAST HELENA

1	BLANK 1		AEH-8506-501	6/4/85
2	BLANK 2		AEH-8506-502	6/5/85
3	BLANK 3		AEH-8506-503	6/6/85
4	BLANK 4		AEH-8506-504	6/11/85
5	REPLICATE 1	PPC-7	AEH-8506-505	6/4/85
6	REPLICATE 2	PPC-6	AEH-8506-506	6/5/85
7	REPLICATE 3	upper Lake	AEH-8506-507	6/6/85
8	REPLICATE 4	DH-4	AEH-8506-508	6/11/85
9	DH-1		AEH-8506-509	6/13/85
10	DH-2		AEH-8506-510	6/12/85
11	DH-3		AEH-8506-511	6/12/85
12	DH-4		AEH-8506-512	6/11/85
13	DH-5		AEH-8506-513	6/11/85
14	DH-6		AEH-8506-514	6/13/85
15	DH-7		AEH-8506-515	6/14/85
16	DH-8		AEH-8506-516	6/14/85
17	DH-9		AEH-8506-517	6/11/85
18	DH-10		AEH-8506-518	6/15/85
19	DH-11		AEH-8506-519	6/15/85
20	BLANK 5		AEH-8506-520	6/12/85
21	BLANK 6		AEH-8506-521	
22	BLANK 7		AEH-8506-522	
23	BLANK 8		AEH-8506-523	
24	REPLICATE 5	DH-3	AEH-8506-524	6/12/85
25	REPLICATE 6	DH-11	AEH-8506-525	6/15/85
26	REPLICATE 7		AEH-8506-526	
27	REPLICATE 8		AEH-8506-527	
28	UPPER LAKE		AEH-8506-528	6/6/85
29	LOWER LAKE		AEH-8506-529	6/6/85
30	THORNOCK LAKE		AEH-8506-530	6/5/85
31	PPC-3		AEH-8506-531	6/5/85
32	PPC-4		AEH-8506-532	
33	PPC-5		AEH-8506-533	
34	PPC-6		AEH-8506-534	
35	PPC-7		AEH-8506-535	6/4/85
36	PPC-8		AEH-8506-536	
37	PPC-9		AEH-8506-537	
38	WD-2		AEH-8506-538	6/5/85
39	~~REPLICATE 9~~		~~AEH-8506-539~~	
40	~~BLANK 9~~		~~AEH-8506-540~~	
41	WD-2		AEH-8506-541	6/14/85
42	~~REPLICATE 10~~		~~AEH-8506-542~~	
43	~~BLANK 10~~		~~AEH-8506-543~~	
44	WD-2		AEH-8506-544	6/21/85
45	REPLICATE 11		AEH-8506-545	
46	BLANK 11		AEH-8506-546	
47	~~WD-2~~		~~AEH-8506-547~~	
48	~~REPLICATE 12~~		~~AEH-8506-548~~	
49	~~BLANK 12~~		~~AEH-8506-549~~	
50	~~WD-2~~		~~AEH-8506-550~~	
51	~~REPLICATE 13~~		~~AEH-8506-551~~	
52	~~BLANK 13~~		~~AEH-8506-552~~	
53	~~WD-3~~		~~AEH-8506-553~~	
54	~~WD-1~~		~~AEH-8506-554~~	
55	SEEP-1		AEH-8506-555	6/4/85

OUTPUT DATE: 06/04/85

HYDROMETRICS HELENA, MT 0071767

SAMPLE CODES

PROJECT: ASARCO - EAST HELENA

1	BLANK 1		AEH-8507-601	7/1/85
2	BLANK 2		AEH-8507-602	7/2/85
3	~~BLANK 3~~		~~AEH-8507-603~~	
4	~~BLANK 4~~		~~AEH-8507-604~~	
5	REPLICATE 1	PPC-7	AEH-8507-605	7/1/85
6	REPLICATE 2	PPC-4	AEH-8507-606	7/2/85
7	~~REPLICATE 3~~		~~AEH-8507-607~~	
8	~~REPLICATE 4~~		~~AEH-8507-608~~	
9	PPC-3		AEH-8507-609	7/2/85
10	PPC-4		AEH-8507-610	7/2/85
11	PPC-5		AEH-8507-611	7/2/85
12	PPC-6		AEH-8507-612	7/1/85
13	PPC-7		AEH-8507-613	7/1/85
14	PPC-8		AEH-8507-614	7/2/85
15	PPC-9		AEH-8507-615	7/2/85
16	WD-2		AEH-8507-616	7/1/85
17	~~BLANK 5~~		~~AEH-8507-617~~	
18	~~REPLICATE 5~~		~~AEH-8507-618~~	
19	WD-2		AEH-8507-619	7/5/85
20	BLANK 6		AEH-8507-620	7/5/85
21	REPLICATE 6	WD-2	AEH-8507-621	7/5/85
22	~~WD-2~~		~~AEH-8507-622~~	
23	~~BLANK 7~~		~~AEH-8507-623~~	
24	~~REPLICATE 7~~		~~AEH-8507-624~~	
25	~~WD-2~~		~~AEH-8507-625~~	
26	~~BLANK 8~~		~~AEH-8507-626~~	
27	~~REPLICATE 8~~		~~AEH-8507-627~~	
28	~~WD-2~~		~~AEH-8507-628~~	
29	~~BLANK 9~~		~~AEH-8507-629~~	
30	~~REPLICATE 9~~		~~AEH-8507-630~~	
31	~~WD-1~~		~~AEH-8507-631~~	
32	~~WD-3~~		~~AEH-8507-632~~	
33	SEEP-1		AEH-8507-633	7/1/85

OUTPUT DATE: 07/01/85

HYDROMETRICS HELENA, MT

0071768

SAMPLE CODES

PROJECT: ASARCO - EAST HELENA

1	WD-2		AEH-8508-701	8-2-85
2	BLANK 9		AEH-8508-702	
3	REPLICATE 9	WD-2	AEH-8508-703	
4	DH-3		AEH-8508-~~704~~ 705	8-15-85
5	DH-4		AEH-8508-~~705~~ 704	8-15-85
6	DH-7		AEH-8508-706	8/14/85
7	DH-8		AEH-8508-707	8-15-85
8	DH-11		AEH-8508-708	8/14/85
9	BLANK 1		AEH-8508-709	8-5-85
10	BLANK 2		AEH-8508-710	8-6-85
11	BLANK 3		AEH-8508-711	8-12-85
12	BLANK 4		AEH-8508-712	8-13-85
13	REPLICATE 1	PPC-C	AEH-8508-713	8-5-85
14	REPLICATE 2	PPC-3	AEH-8508-714	8-6-85
15	REPLICATE 3	WD-2	AEH-8508-715	8-12-85
16	REPLICATE 4	DH-5	AEH-8508-716	8-13-85
17	DH-1		AEH-8508-717	8-12-85
18	DH-2		AEH-8508-718	8-13-85
19	DH-3		AEH-8508-719	8-15-85
20	DH-4		AEH-8508-720	8-15-85
21	DH-5		AEH-8508-721	8-13-85
22	DH-6		AEH-8508-722	8-12-85
23	DH-7		AEH-8508-723	8-14-85
24	DH-8		AEH-8508-724	8-15-85
25	DH-9		AEH-8508-725	8-13-85
26	DH-10		AEH-8508-726	8-13-85
27	DH-11		AEH-8508-727	8-14-85
28	BLANK 5		AEH-8508-728	8-14-85
29	BLANK 6		AEH-8508-729	8-15-85
30	BLANK 7		AEH-8508-730	
31	BLANK 8		AEH-8508-731	
32	REPLICATE 5	DH-7 (723)	AEH-8508-732	8-14-85
33	REPLICATE 6	DH-7 (706)	AEH-8508-733	8-14-85
34	REPLICATE 7	DH-4 (708)	AEH-8508-734	8-15-85
35	REPLICATE 8	DH-4 (704)	AEH-8508-735	
36	UPPER LAKE		AEH-8508-736	8-6-85
37	LOWER LAKE		AEH-8508-737	
38	THORNOCK LAKE		AEH-8508-738	
39	PPC-3		AEH-8508-739	8-6-85
40	PPC-4		AEH-8508-740	8-5-85
41	PPC-5		AEH-8508-741	8-5-85
42	PPC-6		AEH-8508-742	8-5-85
43	PPC-7		AEH-8508-743	8-6-85
44	PPC-8		AEH-8508-744	
45	PPC-9		AEH-8508-745	
46	WD-2		AEH-8508-746	8-12-85
47	~~REPLICATE 10~~		~~AEH-8508-747~~	
48	~~BLANK 10~~		~~AEH-8508-749~~	
49	WD-2		AEH-8508-749	8/19/85
50	REPLICATE 11	WD-2	AEH-8508-750	
51	BLANK 11		AEH-8508-751	
52	WD-2		AEH-8508-752	8/20/85

(X)

HYDROMETRICS HELENA, MT

0071769

SAMPLE CODES

PROJECT: ASARCO - EAST HELENA

53	REPLICATE 12	WD-2	AEH-8508-~~753~~	760	8/29/85
54	BLANK 12		AEH-8508-754		8/29/85
55	~~WD-2~~		~~AEH-8508-755~~		
56	REPLICATE ~~13~~		AEH-8508-756		
57	BLANK 13		AEH-8508-757		
58	WD-3		AEH-8508-758		
59	~~WD-1~~		~~AEH-8508-759~~		
60	SEEP-1		AEH-8508-~~760~~	753	8-6-85

OUTPUT DATE: 08/05/85