19

MORTANDAD CANYON

SEDIMENT TRAP MAINTENANCE

Final Closeout Report

October 3, 2000

14422

Received by ER-RPF
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INTRODUCTION

Maintenance of sediment traps located in Mortandad Canyon was performed by Facilities Waste Operations – Waste Facilities Management. The work was performed as part of the post Cerro Grande Fire Recovery Work. The objective of the maintenance was to increase the available volume of sediment traps #1 and #3 and to remove radiologically contaminated sediments from a prior maintenance event, which were stockpiled adjacent to sediment trap #1. Figure 1 shows the location of the sediment traps in Mortandad Canyon.

1.0 SCOPE OF WORK

The original scope of work dated June 27, 2000 listed the following activities:

Create a Site Specific Health and Safety Plan (SSHASP),

Excavate approximately 1250 cubic yards of soil and sediment from Mortandad Canyon (reach M-4, at the sediment traps),

Load this material into medium sized dump trucks (10 to 12 cubic yard capacity) and haul this material to TA-54 for disposal,

Stabilize (contour/revegetate), and construct erosion protection for the excavated sites,

Write a short report documenting what was done.

An additional 1000 cubic yards of soil were added to the original scope during excavation activities.

2.0 FIELD ACTIVITIES

Prior to mobilization to the field, field preparation activities were conducted. These field preparation activities included a site walkover, preparation of a SSHASP by Morrison Knudsen Corporation (MK), MK subcontract procurement of Keers Environmental for excavation and hauling activities, Readiness Review preparation and meeting, and Emergency Management and Response (EM&R) coordination.

2.1 Mobilization

Mobilization of equipment and personnel took place on July 25, 2000. MK provided safety equipment and miscellaneous field supplies. Environmental Safety and Health (ESH) -1 mobilized three Radiation Control Technicians (RCTs) and necessary instruments for radiation surveys and screening of equipment and personnel. Keers mobilized one track hoe, six 12 cubic yard dump trucks, one front end loader, two 2000-gallon water trucks, one bobcat, and one support truck.

Mobilization and site setup were initiated on July 25, 2000. At that time, support zone supplies were staged at the site and a site walk performed. The track hoe excavator was also mobilized to the site. Following establishment of work zones and radiation zones in the morning by ESH-1 RCTs excavation activities were ready to begin on July 26, 2000.

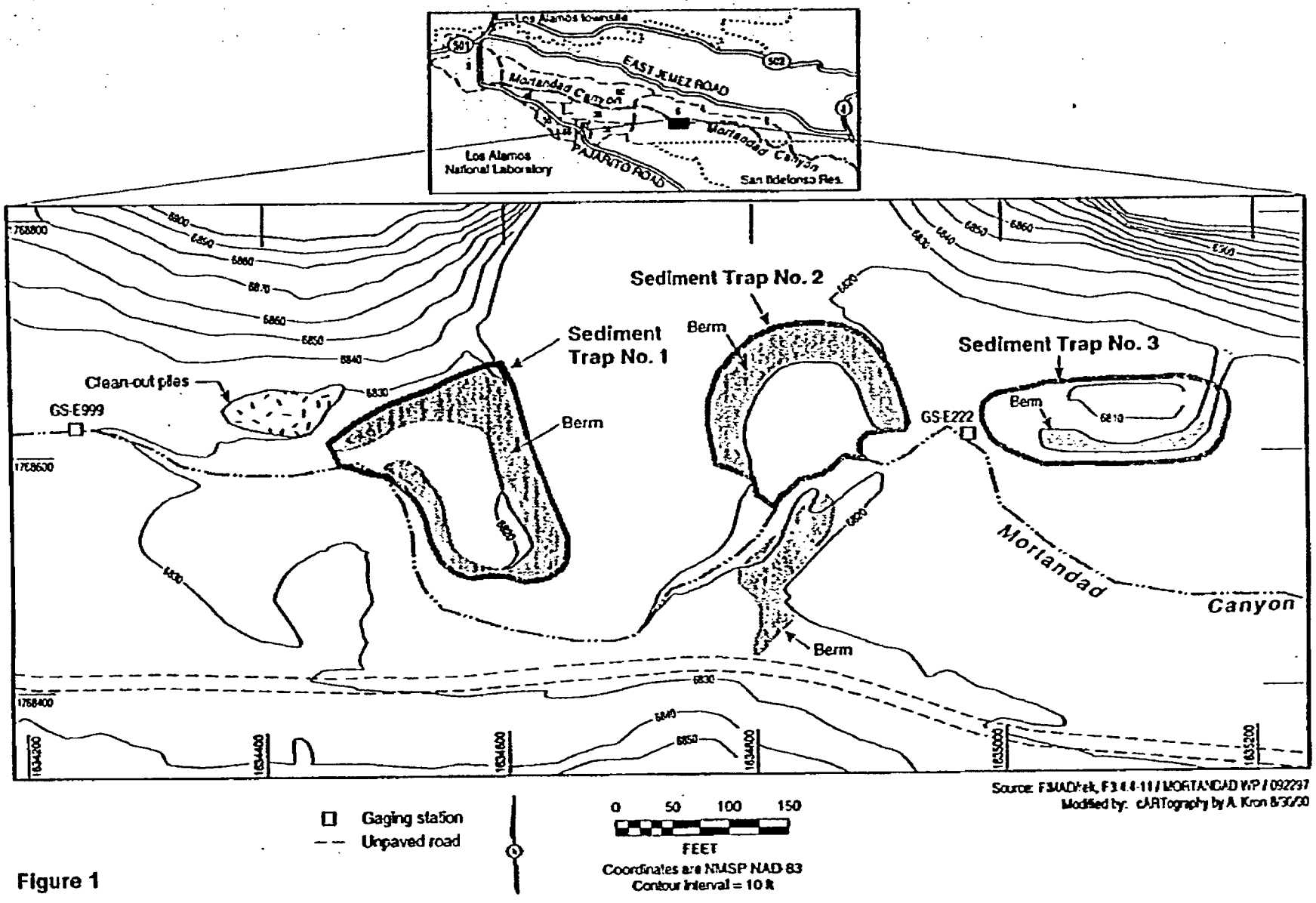

Figure 1

Locations of sediment traps in Mortandad Canyon.

2.2 Soil Excavation and Disposal

2.2.1 Materials Handling

All excavated materials were disposed of at TA-54, Area G. Dump trucks were lined with 4-mil plastic sheeting prior to loading the excavated soil. Soils were excavated from each area using a track hoe excavator to stockpile soils and a front-end loader to load the dump trucks.

Once filled, each truckload of soil was burrito-wrapped with the excess plastic liner. All seams of the plastic liner were sealed with duct tape and the box of the truck was covered with a plastic tarp and tied-down. Each truck was then swiped and surveyed by ESH-1 RCTs and the shipment approved for release from the site. GTS Duratek prepared all manifests, waste disposal and shipping forms and inspected each truck before transport to TA-54 for final disposal.

For health and safety purposes, water was sprayed while excavating soils for dust suppression. Water was also applied to the canyon road leading to the site for dust suppression while trucks were exiting and entering the canyon. Throughout the project ninety-five 2000-gallon truckloads of water were used for a total of approximately 190,000 gallons of water. At no time was the water allowed to cause runoff from the site or allowed to pond.

At TA-54, each waste shipment was received and the truckload dumped in Area G. The RCTs at TA-54 surveyed the trucks for release back to the site. The average trip time from the excavation site to TA-54 and back was approximately 2 hours.

2.2.2 Excavation of Soils

Excavation of sediment trap #1 was conducted from July 26 to July 28, 2000. Soils were excavated with the track hoe excavator, stockpiled and transferred to the dump trucks using the front-end loader. A total of 32 truckloads (~384 cubic yards) of soil from sediment trap #1 were excavated, transported, and disposed of at TA-54, Area G.

Excavation of the soil piles north and adjacent to sediment trap #1 was conducted from July 31 to August 8, 2000. Approximately 109 truckloads (~1308 cubic yards) of soil from the piles were excavated, transported, and disposed of at TA-54, Area G.

Excavation of sediment trap #3 was conducted from August 8 to August 11, 2000. A total of 42 truckloads (~504 cubic yards) of soil from sediment trap #3 were excavated, transported, and disposed of at TA-54, Area G. A summary of excavation activity is provided in Appendix A and photographs of site activities are provided in Appendix B.

3.0 SITE STABILIZATION AND RESTORATION

Stockpiled surface soils, generated during the truck turnaround/staging area construction, were spread out over the scraped areas and fallen trees were placed in their original locations.

Final site stabilization and restoration will be conducted by FWO-DO during the LANL-wide fire related site restorations.

4.0 DEMOBILIZATION

Demobilization from the work site was performed on August 14, 2000. All equipment was surveyed and free released by ESH-1. GTS Duratek arranged for transportation of a dumpster containing PPE from field activities to TA-54 for disposal.

APPENDIX A

Summary of Excavation Activity

LOAD NUMBER	AREA EXCAVATED	DATE LOADED	DATE DUMPED	VOLUME FROM AREA	CUMULATIVE VOLUME REMOVED
1	Trap1	July 26, 2000	July 26, 2000	12	12
2	Trap1	July 26, 2000	July 26, 2000	24	24
3	Trap1	July 26, 2000	July 26, 2000	36	36
4	Trap1	July 26, 2000	July 26, 2000	48	48
5	Trap1	July 27, 2000	July 27, 2000	60	60
6	Trap1	July 27, 2000	July 27, 2000	72	72
7	Trap1	July 27, 2000	July 27, 2000	84	84
8	Trap1	July 27, 2000	July 27, 2000	96	96
9	Trap1	July 27, 2000	July 27, 2000	108	108
10	Trap1	July 27, 2000	July 27, 2000	120	120
11	Trap1	July 27, 2000	July 27, 2000	132	132
12	Trap1	July 27, 2000	July 27, 2000	144	144
13	Trap1	July 27, 2000	July 27, 2000	156	156
14	Trap1	July 27, 2000	July 27, 2000	168	168
15	Trap1	July 27, 2000	July 27, 2000	180	180
16	Trap1	July 27, 2000	July 27, 2000	192	192
17	Trap1	July 27, 2000	July 27, 2000	204	204
18	Trap1	July 27, 2000	July 27, 2000	216	216
19	Trap1	July 27, 2000	July 27, 2000	228	228
20	Trap1	July 27, 2000	July 27, 2000	240	240
21	Trap1	July 28, 2000	July 28, 2000	252	252
22	Trap1	July 28, 2000	July 28, 2000	264	264
23	Trap1	July 28, 2000	July 28, 2000	276	276
24	Trap1	July 28, 2000	July 28, 2000	288	288
25	Trap1	July 28, 2000	July 28, 2000	300	300
26	Trap1	July 28, 2000	July 28, 2000	312	312
27	Trap1	July 28, 2000	July 28, 2000	324	324
28	Trap1	July 28, 2000	July 28, 2000	336	336
29	Trap1	July 28, 2000	July 28, 2000	348	348
30	Trap1	July 28, 2000	July 28, 2000	360	360
31	Trap1	July 28, 2000	July 28, 2000	372	372
32	Trap1	July 28, 2000	July 28, 2000	384	384
33	Soil Piles	July 31, 2000	July 31, 2000	12	396
34	Soil Piles	July 31, 2000	July 31, 2000	24	408
35	Soil Piles	July 31, 2000	July 31, 2000	36	420
36	Soil Piles	July 31, 2000	July 31, 2000	48	432

LOAD NUMBER	AREA EXCAVATED	DATE LOADED	DATE DUMPED	VOLUME FROM AREA	CUMULATIVE VOLUME REMOVED
37	Soil Piles	July 31, 2000	July 31, 2000	60	444
38	Soil Piles	July 31, 2000	July 31, 2000	72	456
39	Soil Piles	July 31, 2000	July 31, 2000	84	468
40	Soil Piles	July 31, 2000	July 31, 2000	96	480
41	Soil Piles	July 31, 2000	July 31, 2000	108	492
42	Soil Piles	July 31, 2000	July 31, 2000	120	504
43	Soil Piles	July 31, 2000	August 1, 2000	132	516
44	Soil Piles	July 31, 2000	August 1, 2000	144	528
45	Soil Piles	August 1, 2000	August 1, 2000	156	540
46	Soil Piles	August 1, 2000	August 1, 2000	168	552
47	Soil Piles	August 1, 2000	August 1, 2000	180	564
48	Soil Piles	August 1, 2000	August 1, 2000	192	576
49	Soil Piles	August 1, 2000	August 1, 2000	204	588
50	Soil Piles	August 1, 2000	August 1, 2000	216	600
51	Soil Piles	August 1, 2000	August 1, 2000	228	612
52	Soil Piles	August 1, 2000	August 1, 2000	240	624
53	Soil Piles	August 1, 2000	August 1, 2000	252	636
54	Soil Piles	August 1, 2000	August 1, 2000	264	648
55	Soil Piles	August 1, 2000	August 1, 2000	276	660
56	Soil Piles	August 1, 2000	August 1, 2000	288	672
57	Soil Piles	August 1, 2000	August 1, 2000	300	684
58	Soil Piles	August 1, 2000	August 1, 2000	312	696
59	Soil Piles	August 1, 2000	August 1, 2000	324	708
60	Soil Piles	August 1, 2000	August 1, 2000	336	720
61	Soil Piles	August 1, 2000	August 2, 2000	348	732
62	Soil Piles	August 1, 2000	August 2, 2000	360	744
63	Soil Piles	August 1, 2000	August 2, 2000	372	756
64	Soil Piles	August 1, 2000	August 2, 2000	384	768
65	Soil Piles	August 1, 2000	August 2, 2000	396	780
66	Soil Piles	August 1, 2000	August 2, 2000	408	792
67	Soil Piles	August 2, 2000	August 2, 2000	420	804
68	Soil Piles	August 2, 2000	August 2, 2000	432	816
69	Soil Piles	August 2, 2000	August 2, 2000	444	828
70	Soil Piles	August 2, 2000	August 2, 2000	456	840
71	Soil Piles	August 2, 2000	August 2, 2000	468	852
72	Soil Piles	August 2, 2000	August 2, 2000	480	864
73	Soil Piles	August 2, 2000	August 2, 2000	492	876
74	Soil Piles	August 2, 2000	August 2, 2000	504	888
75	Soil Piles	August 2, 2000	August 2, 2000	516	900
76	Soil Piles	August 2, 2000	August 2, 2000	528	912
77	Soil Piles	August 2, 2000	August 2, 2000	540	924
78	Soil Piles	August 2, 2000	August 2, 2000	552	936

LOAD NUMBER	AREA EXCAVATED	DATE LOADED	DATE DUMPED	VOLUME FROM AREA	CUMULATIVE VOLUME REMOVED
79	Soil Piles	August 2, 2000	August 3, 2000	564	948
80	Soil Piles	August 2, 2000	August 3, 2000	576	960
81	Soil Piles	August 2, 2000	August 3, 2000	588	972
82	Soil Piles	August 2, 2000	August 3, 2000	600	984
83	Soil Piles	August 2, 2000	August 3, 2000	612	996
84	Soil Piles	August 2, 2000	August 3, 2000	624	1008
85	Soil Piles	August 3, 2000	August 3, 2000	636	1020
86	Soil Piles	August 3, 2000	August 3, 2000	648	1032
87	Soil Piles	August 3, 2000	August 3, 2000	660	1044
88	Soil Piles	August 3, 2000	August 3, 2000	672	1056
89	Soil Piles	August 3, 2000	August 3, 2000	684	1068
90	Soil Piles	August 3, 2000	August 3, 2000	696	1080
91	Soil Piles	August 3, 2000	August 3, 2000	708	1092
92	Soil Piles	August 3, 2000	August 3, 2000	720	1104
93	Soil Piles	August 3, 2000	August 3, 2000	732	1116
94	Soil Piles	August 3, 2000	August 3, 2000	744	1128
95	Soil Piles	August 3, 2000	August 3, 2000	756	1140
96	Soil Piles	August 3, 2000	August 3, 2000	768	1152
97	Soil Piles	August 3, 2000	August 4, 2000	780	1164
98	Soil Piles	August 3, 2000	August 4, 2000	792	1176
99	Soil Piles	August 3, 2000	August 4, 2000	804	1188
100	Soil Piles	August 3, 2000	August 4, 2000	816	1200
101	Soil Piles	August 3, 2000	August 4, 2000	828	1212
102	Soil Piles	August 3, 2000	August 4, 2000	840	1224
103	Soil Piles	August 4, 2000	August 4, 2000	852	1236
104	Soil Piles	August 4, 2000	August 4, 2000	864	1248
105	Soil Piles	August 4, 2000	August 4, 2000	876	1260
106	Soil Piles	August 4, 2000	August 4, 2000	888	1272
107	Soil Piles	August 4, 2000	August 4, 2000	900	1284
108	Soil Piles	August 4, 2000	August 4, 2000	912	1296
109	Soil Piles	August 4, 2000	August 4, 2000	924	1308
110	Soil Piles	August 4, 2000	August 4, 2000	936	1320
111	Soil Piles	August 4, 2000	August 4, 2000	948	1332
112	Soil Piles	August 4, 2000	August 4, 2000	960	1344
113	Soil Piles	August 4, 2000	August 4, 2000	972	1356
114	Soil Piles	August 4, 2000	August 4, 2000	984	1368
115	Soil Piles	August 7, 2000	August 7, 2000	996	1380
116	Soil Piles	August 7, 2000	August 7, 2000	1008	1392
117	Soil Piles	August 7, 2000	August 7, 2000	1020	1404
118	Soil Piles	August 7, 2000	August 7, 2000	1032	1416
119	Soil Piles	August 7, 2000	August 7, 2000	1044	1428
120	Soil Piles	August 7, 2000	August 7, 2000	1056	1440

LOAD NUMBER	AREA EXCAVATED	DATE LOADED	DATE DUMPED	VOLUME FROM AREA	CUMULATIVE VOLUME REMOVED
121	Soil Piles	August 7, 2000	August 7, 2000	1068	1452
122	Soil Piles	August 7, 2000	August 7, 2000	1080	1464
123	Soil Piles	August 7, 2000	August 7, 2000	1092	1476
124	Soil Piles	August 7, 2000	August 7, 2000	1104	1488
125	Soil Piles	August 7, 2000	August 7, 2000	1116	1500
126	Soil Piles	August 7, 2000	August 7, 2000	1128	1512
127	Soil Piles	August 7, 2000	August 7, 2000	1140	1524
128	Soil Piles	August 7, 2000	August 7, 2000	1152	1536
129	Soil Piles	August 7, 2000	August 7, 2000	1164	1548
130	Soil Piles	August 7, 2000	August 7, 2000	1176	1560
131	Soil Piles	August 7, 2000	August 7, 2000	1188	1572
132	Soil Piles	August 7, 2000	August 7, 2000	1200	1584
133	Soil Piles	August 8, 2000	August 8, 2000	1212	1596
134	Soil Piles	August 8, 2000	August 8, 2000	1224	1608
135	Soil Piles	August 8, 2000	August 8, 2000	1236	1620
136	Soil Piles	August 8, 2000	August 8, 2000	1248	1632
137	Soil Piles	August 8, 2000	August 8, 2000	1260	1644
138	Soil Piles	August 8, 2000	August 8, 2000	1272	1656
139	Soil Piles	August 8, 2000	August 8, 2000	1284	1668
140	Soil Piles	August 8, 2000	August 8, 2000	1296	1680
141	Soil Piles	August 8, 2000	August 8, 2000	1308	1692
142	Trap 3	August 8, 2000	August 8, 2000	12	1704
143	Trap 3	August 8, 2000	August 8, 2000	24	1716
144	Trap 3	August 8, 2000	August 8, 2000	36	1728
145	Trap 3	August 8, 2000	August 8, 2000	48	1740
146	Trap 3	August 8, 2000	August 8, 2000	60	1752
147	Trap 3	August 8, 2000	August 8, 2000	72	1764
148	Trap 3	August 9, 2000	August 9, 2000	84	1776
149	Trap 3	August 9, 2000	August 9, 2000	96	1788
150	Trap 3	August 9, 2000	August 9, 2000	108	1800
151	Trap 3	August 9, 2000	August 9, 2000	120	1812
152	Trap 3	August 9, 2000	August 9, 2000	132	1824
153	Trap 3	August 9, 2000	August 9, 2000	144	1836
154	Trap 3	August 9, 2000	August 9, 2000	156	1848
155	Trap 3	August 9, 2000	August 9, 2000	168	1860
156	Trap 3	August 9, 2000	August 9, 2000	180	1872
157	Trap 3	August 9, 2000	August 9, 2000	192	1884
158	Trap 3	August 9, 2000	August 9, 2000	204	1896
159	Trap 3	August 9, 2000	August 9, 2000	216	1908
160	Trap 3	August 10, 2000	August 10, 2000	228	1920
161	Trap 3	August 10, 2000	August 10, 2000	240	1932
162	Trap 3	August 10, 2000	August 10, 2000	252	1944

LOAD NUMBER	AREA EXCAVATED	DATE LOADED	DATE DUMPED	VOLUME FROM AREA	CUMULATIVE VOLUME REMOVED
163	Trap 3	August 10, 2000	August 10, 2000	264	1956
164	Trap 3	August 10, 2000	August 10, 2000	276	1968
165	Trap 3	August 10, 2000	August 10, 2000	288	1980
166	Trap 3	August 10, 2000	August 10, 2000	300	1992
167	Trap 3	August 10, 2000	August 10, 2000	312	2004
168	Trap 3	August 10, 2000	August 10, 2000	324	2016
169	Trap 3	August 10, 2000	August 10, 2000	336	2028
170	Trap 3	August 10, 2000	August 10, 2000	348	2040
171	Trap 3	August 10, 2000	August 10, 2000	360	2052
172	Trap 3	August 10, 2000	August 10, 2000	372	2064
173	Trap 3	August 10, 2000	August 10, 2000	384	2076
174	Trap 3	August 10, 2000	August 10, 2000	396	2088
175	Trap 3	August 10, 2000	August 10, 2000	408	2100
176	Trap 3	August 10, 2000	August 10, 2000	420	2112
177	Trap 3	August 10, 2000	August 10, 2000	432	2124
178	Trap 3	August 11, 2000	August 11, 2000	444	2136
179	Trap 3	August 11, 2000	August 11, 2000	456	2148
180	Trap 3	August 11, 2000	August 11, 2000	468	2160
181	Trap 3	August 11, 2000	August 11, 2000	480	2172
182	Trap 3	August 11, 2000	August 11, 2000	492	2184
183	Trap 3	August 11, 2000	August 11, 2000	504	2196

APPENDIX B

Photographs of Site Activities

Photo 1: View to the northeast in sediment trap #1 after excavation of sediment.

Photo 2: View to the northwest in sediment trap #1 after excavation of sediment.

Photo 3: View to the west in Mortandad stream channel. The culvert was installed to access soil piles adjacent to sediment trap #1.

Photo 4: View looking northwest at truck loading operations while loading soil piles adjacent to sediment trap #1.

Photo 5: View looking west at soil pile area with half of the soil piles removed.

Photo 6: View looking west at the soil pile area with soil piles being loaded.

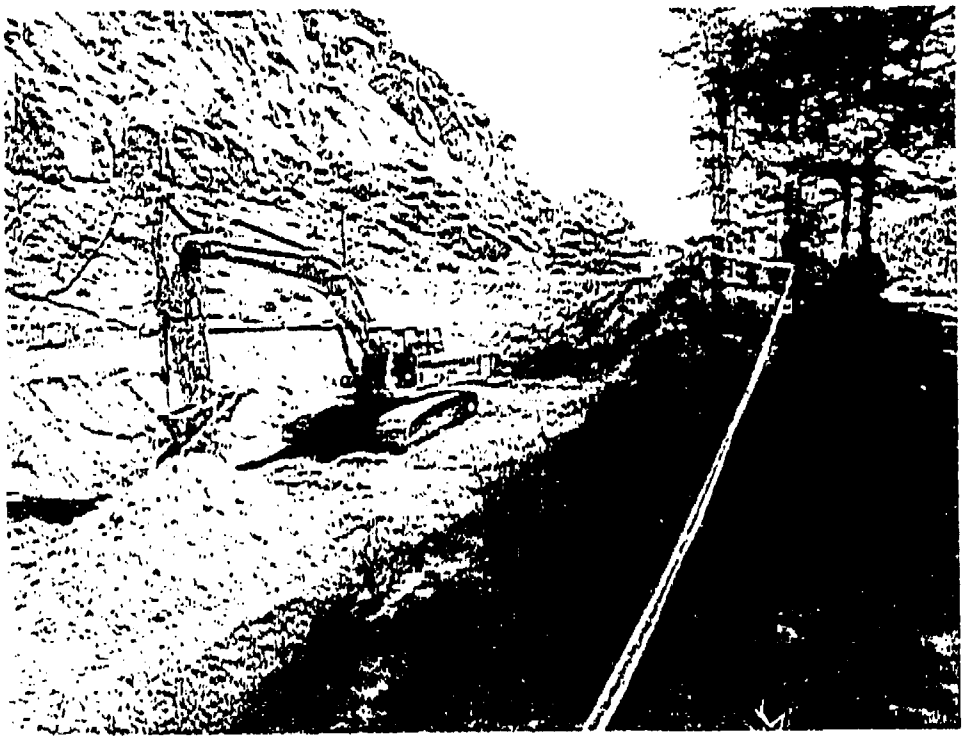

Photo 7: View looking east at sediment trap #3.

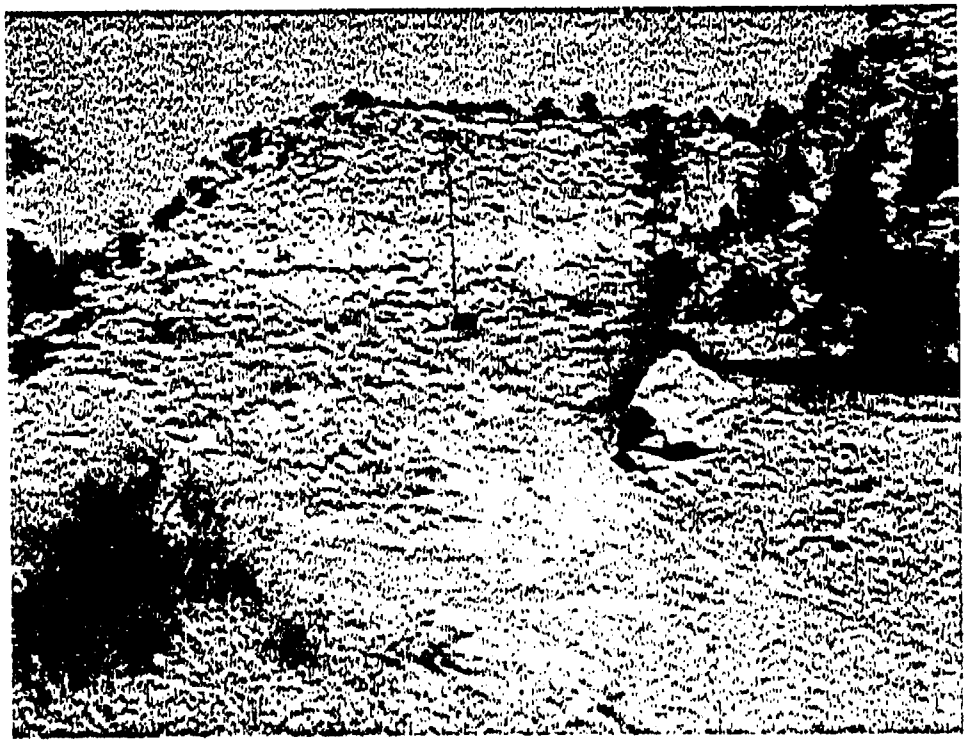

Photo 8: View looking west in sediment trap #3

Photo 9: View looking west in sediment trap #3 at excavator stockpile for transfer to trucks.

Photo 10: View looking west at excavator in sediment trap #3

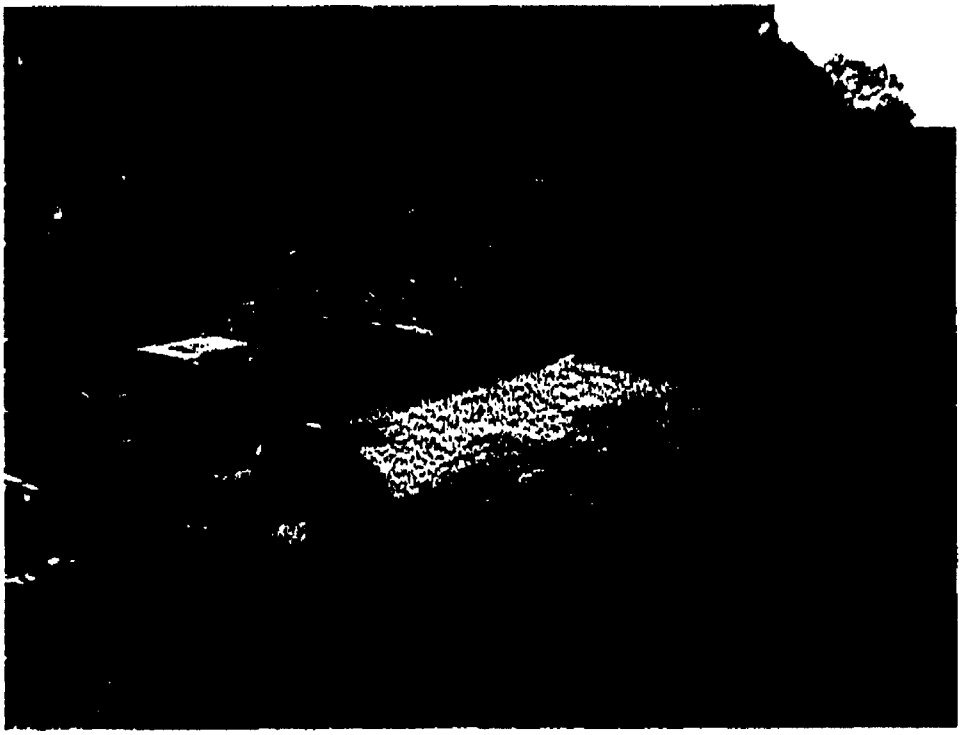

Photo 11: View looking east in sediment trap #3 at gravel installation.

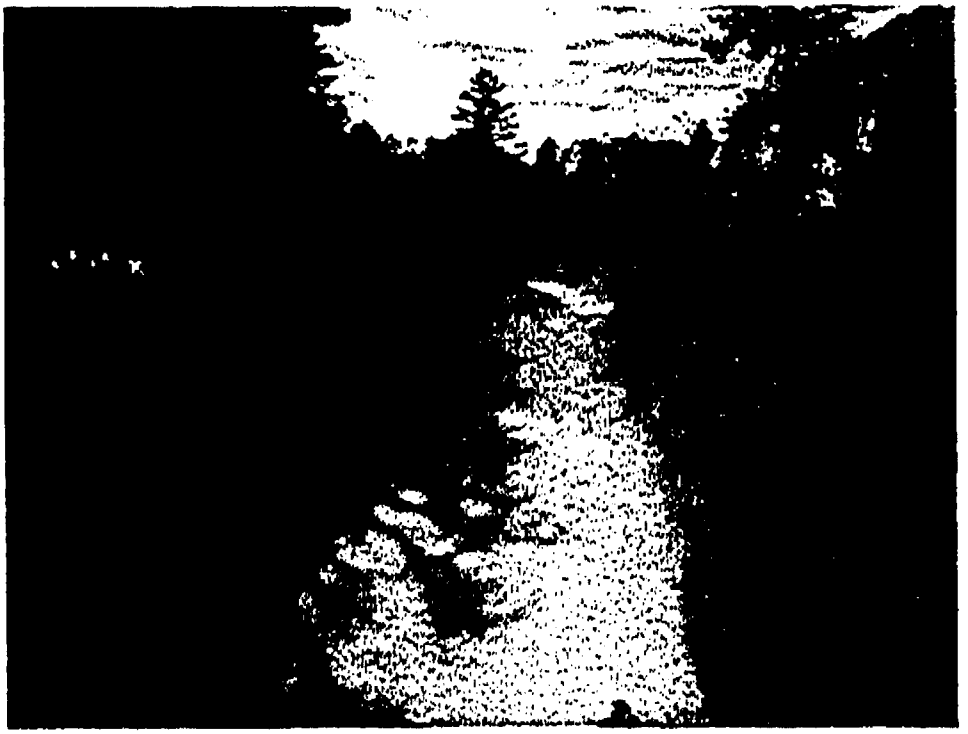

Photo 12: View looking west in sediment trap #3 at gravel installation.

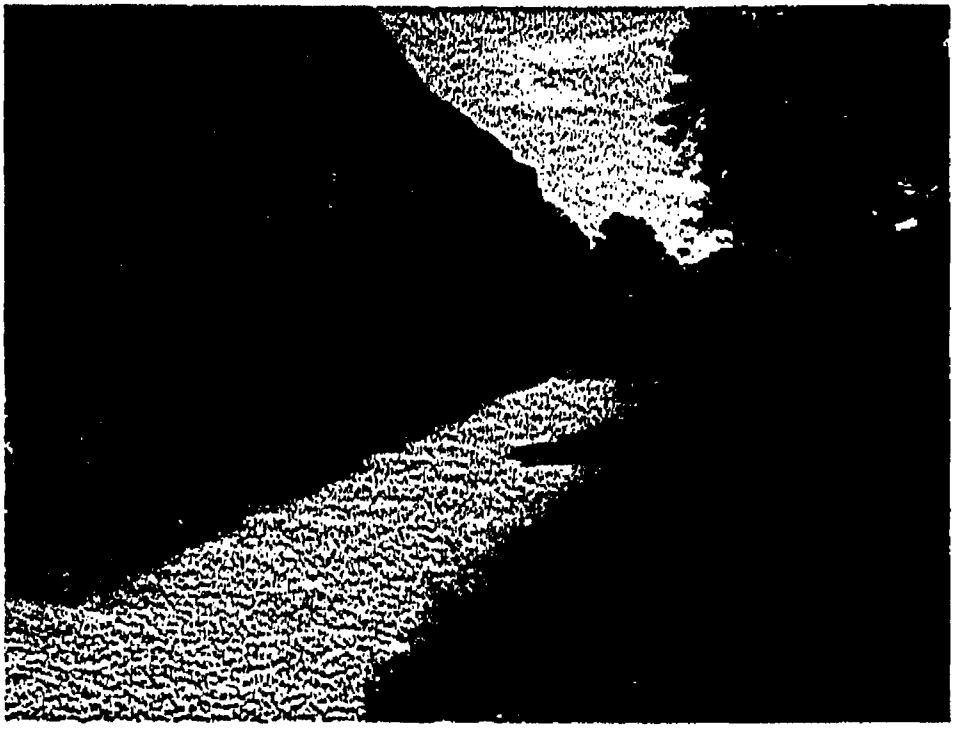

Photo 13: View looking east in sediment trap #3 at gravel installation.

Photo 14: View looking west in sediment trap #3 at gravel installation.

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- Weekly Activities Performance Report
- Subcontractor Change Orders

TQM-Total Quality Management
- Lessons Learned
- Environmental Regulations Guidance Manual

PC-Project Controls
- Chart of Accounts/Cost Scheduling (Accruals)
- Progress/Status Report (Project)
- Schedules (overall) Project
- Estimates

DCE-Design/Construction Engineering
- Design Criteria (Design Project) IM, VCA, etc.
- Request for Information
- Ground Water Investigation
- Peer Review
- Readiness Review
- Drawings

RM - Risk Management
- Insurance Certificates

QAQC-Quality Assurance/Quality Control
- Calibration Records
- Corrective Action Reports
- Assessment Reports
- Nonconformance Reports
- Lessons Learned

SE-Safety & Environmental
- Safety Inspections, Safety Meetings
- SSHASP's & Modifications
- Training Records
- SWPPP, Waste Characterization Strategy Forms
- Radiological Data, Field Logbooks

COM-Construction Management
- Contractors Daily Reports (Tabulation Reports)
- Certified payroll - DAVIS BACON

LPA-Licenses, Permits & Agreements
- Facility Tenant Agreement
- Permits – Rad. Worker, Excavation, NPDES, ESH ID

AF-Accounting & Finance
- Job Condition Statements
- Invoices to Client
- Bill of Lading
- Invoices from Subcontractors

ET - Equipment & Transportation
- Inventory

PRO - Procurement
- PO Register
- Lien Release

WH - Warehouse
- Freight Damage Report, Field
- Bill of Lading

MA - Management & Administration
- Corporate Policies
- Authorization for Expenditures