

MIDGE/DOTFORD

FOLLDAL

X-RAY ASSAY LABORATORIES LIMITED

1885 LESLIE STREET, DON-MILLS, ONTARIO M3B 3J4

PHONE 416-445-5755

TELEX 06-986947

CERTIFICATE OF ANALYSIS

TO: FOLLDAL VERK A/S
ATTN: IVAR KILLI
2661 HJERKINN
NORWAY

CUSTOMER NO. 295

DATE SUBMITTED
14-OCT-82

REPORT 16509

REF. FILE 12089-12

688 SOILS

PROJECT: N-82-3

WERE ANALYSED AS FOLLOWS:

	METHOD	DETECTION LIMIT
1 CU PPM	DCP	0.500
2 ZN PPM	DCP	0.500
4 W PPM	NA	1.000
3 PB PPM	DCP	2.000

X-RAY ASSAY LABORATORIES LIMITED

CERTIFIED BY *[Signature]*

DATE 17-NOV-82

ASEA
Bell draw

SAMPLE	CU PPM	ZN PPM	W PPM	PB PPM
82-M-1	8.5	30.0	8	72v
82-M-2	39.0	34.0	2	92v
82-M-3	5.0	17.0	36	66v
82-M-4	4.5	25.0	7	120v
82-M-5	11.0	47.0	37	78v
82-M-6	15.0	40.0	1	110v
82-M-7	2.5	10.0	<1	60v
82-M-8	3.0	13.0	4	42v
82-M-9	4.0	9.5	5	64v
82-M-10	7.0	14.0	6	70v
82-M-11	6.0	23.0	3	110v
82-M-12	62.0	18.0	2	84v
82-M-13	10.0	16.0	3	88v
82-M-14	7.5	64.0	2	68v
82-M-15	35.0	58.0	6	100v
82-M-16	18.0	13.0	4	46v
82-M-17	32.0	27.0	9	120v
82-M-18	54.0	59.0	10	140v
82-M-19	10.0	21.0	5	110v
82-M-20	46.0	54.0	4	110v
82-M-21	7.0	20.0	11	98v
82-M-22	9.5	27.0	10	56v
82-M-23	9.5	15.0	7	32v
82-M-24	5.5	25.0	3	32v
82-M-25	25.0	39.0	5	110v
82-M-26	5.5	12.0	2	52v
82-M-27	6.0	15.0	6	6v
82-M-28	5.5	24.0	5	26v
82-M-29	18.0	33.0	8	36v
82-M-30	17.0	40.0	<1	70v
82-M-31	23.0	57.0	1	140v
82-M-32	17.0	39.0	2	44v
82-M-33	16.0	27.0	75	94v
82-M-34	5.0	19.0	<1	54v
82-M-35	11.0	33.0	35	130v
82-M-36	15.0	16.0	14	26v
82-M-37	8.5	45.0	6	72v
82-M-38	4.5	32.0	6	42v
82-M-39	11.0	29.0	9	88v
82-M-40	4.0	12.0	5	46v
82-M-41	1.5	5.5	4	14v
82-M-42	6.5	8.0	5	24v
82-M-43	17.0	17.0	17	72v
82-M-44	8.5	7.0	9	32v
82-M-45	3.0	11.0	4	40v
82-M-46	3.0	13.0	4	32v
82-M-47	7.5	17.0	3	120v
82-M-48	9.5	20.0	1	80v
82-M-49	24.0	74.0	37	120v
82-M-50	23.0	40.0	6	170v
82-M-51	28.0	28.0	15	96v
82-M-52	9.5	82.0	150	82v
82-M-53	23.0	42.0	8	110v
82-M-54	27.0	33.0	5	42v
82-M-55	12.0	58.0	4	34v

SAMPLE	CU PPM	ZN PPM	W PPM	PB PPM
82-M-56	8.5	42.0	4	48V
82-M-57	23.0	34.0	2	44V
82-M-58	12.0	150.	8	84V
82-M-59	44.0	40.0	8	52V
82-M-60	57.0	65.0	2	34V
82-M-61	14.0	9.5	3	42V
82-M-62	9.5	38.0	2	58V
82-M-63	7.0	31.0	4	110V
82-M-64	1.5	6.0	6	10V
82-M-65	17.0	20.0	1	96V
82-M-66	11.0	77.0	3	56V
82-M-67	5.5	23.0	5	18V
82-M-68	6.0	34.0	3	18V
82-M-69	16.0	20.0	1	48V
82-M-70	4.5	9.5	5	28V
82-M-71	8.0	32.0	5	48V
82-M-72	5.5	28.0	15	68V
82-M-73	4.0	42.0	17	58V
82-M-74	36.0	43.0	10	110V
82-M-75	14.0	93.0	54	50V
82-M-76	15.0	19.0	<1	82V
82-M-77	5.0	16.0	4	42V
82-M-78	6.0	38.0	9	60V
82-M-79	10.0	58.0	7	70V
82-M-80	2.0	15.0	6	28V
82-M-81	1.5	10.0	6	28V
82-M-82	2.0	15.0	8	24V
82-M-83	3.0	14.0	3	56V
82-M-84	1.0	18.0	42	28V
82-M-85	3.5	13.0	7	74V
82-M-86	4.0	21.0	3	82V
82-M-87	20.0	34.0	8	180V
82-M-88	14.0	43.0	5	110V
82-M-89	4.5	16.0	8	120V
82-M-90	8.0	40.0	17	78V
82-M-91	3.5	13.0	7	56V
82-M-92	24.0	29.0	3	150V
82-M-93	11.0	55.0	3	20V
82-M-94	28.0	130.	7	66V
82-M-95	19.0	61.0	2	24V
82-M-96	18.0	38.0	73	110V
82-M-97	11.0	10.0	9	64V
82-M-98	35.0	14.0	4	30V
82-M-99	14.0	92.0	3	44V
82-M-100	17.0	98.0	<1	32V
82-M-101	17.0	63.0	3	20V
82-M-102	8.5	29.0	3	20V
82-M-103	12.0	63.0	4	16V
82-M-104	10.0	51.0	5	20V
82-M-105	7.0	59.0	2	40V
82-M-106	59.0	420.	<1	48V
82-M-107	17.0	20.0	2	110V
82-M-108	3.0	11.0	6	74V
82-M-109	8.5	40.0	38	110V
82-M-110	27.0	35.0	29	60V
82-M-111	3.5	17.0	12	60V

SAMPLE	CU PPM	ZN PPM	W PPM	PB PPM
82-M-112	20.0	50.0	1	100 ✓
82-M-113	7.5	20.0	3	18 ✓
82-M-114	37.0	58.0	2	96 ✓
82-M-115	14.0	53.0	2	110 ✓
82-M-116	6.5	41.0	8	62 ✓
82-M-117	40.0	46.0	<1	100 ✓
82-M-118	13.0	26.0	<1	130 ✓
82-M-119	4.0	24.0	2	44 ✓
82-M-120	2.0	8.5	5	38 ✓
82-M-121	4.5	18.0	10	42 ✓
82-M-122	1.5	5.5	4	70 ✓
82-M-123	2.5	13.0	1	46 ✓
82-M-124	7.5	20.0	6	72 ✓
82-M-125	32.0	26.0	11	48 ✓
82-M-126	15.0	23.0	1	38 ✓
82-M-127	2.0	9.0	4	24 ✓
82-M-128	5.0	27.0	3	72 ✓
82-M-129	32.0	19.0	3	98 ✓
82-M-130	34.0	25.0	7	72 ✓
82-M-131	12.0	26.0	8	42
82-M-132	52.0	37.0	36	60
82-M-133	15.0	81.0	52	120
82-M-134	11.0	55.0	3	20
82-M-135	14.0	47.0	3	18
82-M-136	17.0	64.0	3	20
82-M-137	16.0	24.0	8	46
82-M-138	31.0	53.0	4	38
82-M-139	10.0	42.0	7	70
82-M-140	16.0	18.0	7	32
82-M-141	7.5	22.0	14	56
82-M-142	5.0	29.0	4	22
82-M-143	16.0	38.0	4	22
82-M-144	7.0	25.0	4	18
82-M-145	12.0	25.0	6	20
82-M-146	13.0	22.0	2	26
82-M-147	19.0	42.0	7	160
82-M-148	7.0	19.0	2	46
82-M-149	12.0	17.0	2	54 ✓
82-M-150	8.0	11.0	6	58 ✓
82-M-151	23.0	17.0	3	40 ✓
82-M-152	2.0	7.5	3	10 ✓
82-M-153	7.0	42.0	10	56 ✓
82-M-154	1.5	3.0	2	12 ✓
82-M-155	3.0	19.0	19	66 ✓
82-M-156	4.0	9.0	34	38 ✓
82-M-157	4.0	11.0	9	34 ✓
82-M-158	1.5	9.5	3	88 ✓
82-M-159	18.0	33.0	4	150 ✓
82-M-160	5.0	27.0	9	60 ✓
82-M-161	12.0	51.0	5	68 ✓
82-M-162	5.0	13.0	3	74 ✓
82-M-163	7.0	22.0	8	62 ✓
82-M-164	6.5	27.0	5	48 ✓
82-M-165	4.0	16.0	5	14 ✓
82-M-166	5.0	9.5	3	46 ✓
82-M-167	9.0	14.0	5	72 ✓

SAMPLE	CU PPM	ZN PPM	W PPM	PB PPM
82-M-168	7.5	30.0	13	38✓
82-M-169	57.0	21.0	7	110✓
82-M-170	33.0	29.0	3	76✓
82-M-171	4.5	9.5	1	34✓
82-M-172	19.0	86.0	6	52✓
82-M-173	24.0	110.	3	44✓
82-M-174	18.0	29.0	2	68✓
82-M-175	18.0	64.0	5	32✓
82-M-176	17.0	44.0	260	86✓
82-M-177	11.0	71.0	13	54✓
82-M-178	20.0	89.0	93	86✓
82-M-179	7.0	28.0	4	22✓
82-M-180	6.0	16.0	17	26✓
82-M-181	40.0	20.0	14	62✓
82-M-182	8.0	43.0	4	24✓
82-M-183	8.0	13.0	2	46✓
82-M-184	8.5	23.0	1	18✓
82-M-185	33.0	22.0	<1	38✓
82-M-186	7.5	14.0	1	24✓
82-M-187	3.0	17.0	1	52✓
82-M-188	7.5	44.0	<1	38✓
82-M-189	3.5	8.5	1	36✓
82-M-190	6.0	15.0	1	26✓
82-M-191	4.5	16.0	3	36✓
82-M-192	8.0	26.0	1	38✓
82-M-193	1.0	6.5	4	28✓
82-M-194	8.5	5.5	3	34✓
82-M-195	7.0	29.0	3	46✓
82-M-196	6.0	26.0	<1	46✓
82-M-197	8.0	31.0	130	70✓
82-M-198	6.0	48.0	20	46✓
82-M-199	11.0	41.0	2	110✓
82-M-200	93.0	51.0	4	68✓
82-M-201	4.5	10.0	15	42✓
82-M-202	6.5	14.0	15	50✓
82-M-203	2.5	11.0	2	30✓
82-M-204	4.5	32.0	19	34✓
82-M-205	4.5	26.0	16	34✓
82-M-206	2.5	14.0	7	34✓
82-M-207	5.0	17.0	2	40✓
82-M-208	6.5	23.0	32	90✓
82-M-209	13.0	110.	14	36✓
82-M-210	14.0	120.	14	34✓
82-M-211	12.0	62.0	6	22✓
82-M-212	66.0	110.	2	26✓
82-M-213	13.0	160.	6	22✓
82-M-214	20.0	49.0	2	44✓
82-M-215	8.0	25.0	6	70✓
82-M-216	10.0	14.0	2	28✓
82-M-217	20.0	120.	7	80✓
82-M-218	9.5	69.0	9	52✓
82-M-219	22.0	86.0	10	42✓
82-M-220	13.0	49.0	1	32✓
82-M-221	32.0	51.0	4	30✓
82-M-222	16.0	76.0	3	22✓
82-M-223	8.5	75.0	2	28✓

SAMPLE	CU PPM	ZN PPM	W PPM	PB PPM
82-M-224	17.0	72.0	2	56✓
82-M-225	16.0	62.0	1	16✓
82-M-226	14.0	70.0	3	20✓
82-M-227	16.0	98.0	2	18✓
82-M-228	14.0	82.0	2	22✓
82-M-229	10.0	85.0	1	20✓
82-M-230	26.0	58.0	3	120✓
82-M-231	24.0	48.0	<1	88✓
82-M-232	16.0	88.0	3	110✓
82-M-233	6.0	19.0	<1	88✓
82-M-234	6.0	20.0	3	36✓
82-M-235	5.0	25.0	10	46✓
82-M-236	1.0	11.0	6	26✓
82-M-237	2.0	6.5	<1	48✓
82-M-238	4.0	46.0	4	42✓
82-M-239	8.5	23.0	2	80✓
82-M-240	1.0	4.0	3	32✓
82-M-241	60.0	62.0	6	62✓
82-M-242	6.0	13.0	64	52✓
82-M-243	34.0	45.0	3	160✓
82-M-244	4.5	26.0	6	30✓
82-M-245	6.5	28.0	12	76✓
82-M-246	6.5	42.0	28	120✓
82-M-247	3.5	21.0	12	34✓
82-M-248	12.0	33.0	1	22✓
82-M-249	7.5	20.0	13	34✓
82-M-250	14.0	43.0	8	34✓
82-M-251	6.0	33.0	12	46✓
82-M-252	9.0	19.0	21	62✓
82-M-253	2.0	15.0	<1	18✓
82-M-254	3.5	17.0	2	12✓
82-M-255	2.5	19.0	9	20✓
82-M-256	3.5	22.0	7	16✓
82-M-257	11.0	91.0	2	24✓
82-M-258	3.0	17.0	2	32✓
82-M-259	2.5	12.0	11	30✓
82-M-260	13.0	25.0	2	54✓
82-M-261	2.0	5.5	2	18✓
82-M-262	6.5	23.0	18	36✓
82-M-263	16.0	43.0	<1	34✓
82-M-264	3.5	13.0	2	30✓
82-M-265	72.0	38.0	4	88✓
82-M-266	4.5	16.0	2	56✓
82-M-267	2.0	8.0	2	30✓
82-M-268	6.0	48.0	9	68✓
82-M-269	5.0	55.0	4	42✓
82-M-270	10.0	33.0	2	24✓
82-M-271	7.5	26.0	2	46✓
82-M-272	67.0	39.0	9	68✓
82-M-273	9.0	23.0	7	42✓
82-M-274	5.0	21.0	<1	28✓
82-M-275	18.0	160.0	96	84✓
82-M-276	7.0	18.0	4	66✓
82-M-277	2.5	8.5	9	32✓
82-M-278	6.0	22.0	1	66✓
82-M-279	25.0	41.0	5	120✓

SAMPLE	CU PPM	ZN PPM	W PPM	PB PPM
82-M-280	4.0	14.0	1	58 ✓
82-M-281	14.0	47.0	4	72 ✓
82-M-282	12.0	33.0	1	64 ✓
82-M-283	6.0	22.0	5	66 ✓
82-M-284	10.0	42.0	2	14 ✓
82-M-285	1.5	10.0	<1	16 ✓
82-M-286	3.5	15.0	3	28 ✓
82-M-287	4.5	18.0	3	26 ✓
82-M-288	24.0	61.0	3	36 ✓
82-M-289	34.0	81.0	20	80 ✓
82-M-290	13.0	26.0	10	50 ✓
82-M-291	5.5	20.0	<1	48 ✓
82-M-292	3.5	18.0	4	30 ✓
82-M-293	4.5	11.0	9	38 ✓
82-M-294	5.5	15.0	11	48 ✓
82-M-295	26.0	43.0	1	62 ✓
82-M-296	7.0	21.0	4	8 ✓
82-M-297	7.5	71.0	2	26 ✓
82-M-298	9.5	57.0	6	54 ✓
82-M-299	10.0	21.0	2	44 ✓
82-M-300	4.0	21.0	11	48 ✓
82-M-301	15.0	61.0	<1	46 ✓
82-M-302	1.5	6.0	6	32 ✓
82-M-303	16.0	37.0	5	68 ✓
82-M-304	18.0	32.0	1	120 ✓
82-M-305	10.0	19.0	2	44 ✓
82-M-306	7.5	24.0	<1	24 ✓
82-M-307	26.0	20.0	1	12 ✓
82-M-308	4.0	12.0	14	34 ✓
82-M-309	24.0	14.0	33	80 ✓
82-M-310	27.0	34.0	10	110 ✓
82-M-311	17.0	24.0	<1	90 ✓
82-M-312	10.0	33.0	11	50 ✓
82-M-313	10.0	14.0	11	54 ✓
82-M-314	5.5	27.0	4	24 ✓
82-M-315	77.0	100.	2	52 ✓
82-M-316	7.0	32.0	11	72 ✓
82-M-317	6.0	19.0	2	56 ✓
82-M-318	10.0	38.0	2	26 ✓
82-M-319	31.0	29.0	4	86 ✓
82-M-320	59.0	53.0	1	84 ✓
82-M-321	20.0	23.0	4	54 ✓
82-M-322	6.0	38.0	2	24 ✓
82-M-323	5.0	17.0	<1	44 ✓
82-M-324	1.0	6.5	3	14 ✓
82-M-325	4.5	52.0	5	22 ✓
82-M-326	6.5	27.0	6	72 ✓
82-M-327	5.0	25.0	<1	24 ✓
82-M-328	5.0	10.0	9	44 ✓
82-M-329	8.5	33.0	<1	32 ✓
82-M-330	15.0	65.0	150	80 ✓
82-M-331	43.0	54.0	3	140 ✓
82-M-332	6.5	16.0	5	68 ✓
82-M-333	6.0	33.0	5	32 ✓
82-M-334	7.0	15.0	23	62 ✓
82-M-335	14.0	45.0	4	100 ✓

SAMPLE	CU PPM	ZN PPM	W PPM	PB PPM
82-M-336	9.0	88.0	77	74✓
82-M-337	3.0	23.0	2	26✓
82-M-338	1.5	19.0	2	24✓
82-M-339	6.5	16.0	3	30✓
82-M-340	19.0	38.0	8	60✓
82-M-341	18.0	54.0	3	64✓
82-M-342	4.5	27.0	4	52✓
82-M-343	190.	85.0	11	130✓
82-M-344	7.5	11.0	5	36✓
82-M-345	3.5	8.5	<1	40✓
82-M-346	10.0	45.0	17	38✓
82-M-347	9.5	34.0	1	120✓
82-M-348	7.0	28.0	3	18✓
82-M-349	11.0	19.0	3	38✓
82-M-350	10.0	120.	1	44✓
82-M-351	19.0	77.0	<1	96✓
82-M-352	5.5	15.0	12	40✓
82-M-353	1.0	7.0	<1	34✓
82-M-354	5.0	11.0	26	72✓
82-M-355	6.5	12.0	5	28✓
82-M-356	17.0	37.0	28	120✓
82-M-357	5.0	79.0	10	42✓
82-M-358	12.0	63.0	12	76✓
82-M-359	11.0	28.0	<1	32✓
82-M-360	2.5	9.0	5	28✓
82-M-361	3.5	20.0	2	22✓
82-M-362	3.0	32.0	1	12✓
82-M-363	5.5	37.0	1	14✓
82-M-364	10.0	42.0	4	22✓
82-M-365	4.5	6.5	<1	28✓
82-M-366	3.5	8.5	<1	58✓
82-M-367	3.0	4.5	6	34✓
82-M-368	9.0	32.0	2	16✓
82-M-369	20.0	30.0	2	46✓
82-M-370	2.5	18.0	1	56✓
82-M-371	5.0	38.0	6	74✓
82-M-372	3.5	14.0	2	20✓
82-M-373	8.5	45.0	150	34✓
82-M-374	58.0	18.0	9	46✓
82-M-375	15.0	22.0	28	72✓
82-M-376	3.5	20.0	20	72✓
82-M-377	9.0	35.0	2	32✓
82-M-378	6.0	24.0	7	28✓
82-M-379	14.0	68.0	2	20✓
82-M-380	3.0	24.0	<1	16✓
82-M-381	8.0	34.0	8	32✓
82-M-382	4.0	18.0	<1	20✓
82-M-383	4.5	32.0	5	16✓
82-M-384	10.0	44.0	<1	18✓
82-M-385	10.0	57.0	2	18✓
82-M-386	15.0	42.0	<1	88✓
82-M-387	270.	89.0	1	28✓
82-M-388	18.0	55.0	4	36✓
82-M-389	11.0	58.0	<1	22✓
82-M-390	9.0	24.0	5	34✓
82-M-391	58.0	30.0	3	38✓

SAMPLE	CU PPM	ZN PPM	W PPM	PB PPM
82-M-392	4.5	22.0	2	28 ✓
82-M-393	26.0	31.0	5	42 ✓
82-M-394	19.0	43.0	2	92 ✓
82-M-395	23.0	98.0	3	160 ✓
82-M-396	190.	290.	56	160 ✓
82-M-397	3.5	11.0	1	26 ✓
82-M-398	4.0	17.0	2	22 ✓
82-M-399	SMP MISS	SMP MISS	SMP MISS	SMP MISS ✓
82-M-400	3.0	9.5	2	18 ✓
82-M-401	3.0	17.0	3	25 ✓
82-M-402	14.0	28.0	6	80 ✓
82-M-403	6.0	21.0	<1	62 ✓
82-M-404	3.0	13.0	<1	32 ✓
82-M-405	19.0	23.0	3	46 ✓
82-M-406	2.5	13.0	<1	36 ✓
82-M-407	8.0	48.0	1	24 ✓
82-M-408	8.5	50.0	2	18 ✓
82-M-409	13.0	61.0	<1	24 ✓
82-M-410	3.0	20.0	3	46 ✓
82-M-411	11.0	37.0	10	90 ✓
82-M-412	7.5	51.0	2	20 ✓
82-M-413	16.0	83.0	<1	24 ✓
82-M-414	9.5	53.0	3	22 ✓
82-M-415	17.0	120.	<1	14 ✓
82-M-416	16.0	79.0	2	28 ✓
82-M-417	27.0	110.	4	84 ✓
82-M-418	10.0	57.0	5	22 ✓
82-M-419	9.0	66.0	1	28 ✓
82-M-420	4.5	14.0	13	40 ✓
82-M-421	9.5	45.0	6	64 ✓
82-M-422	19.0	49.0	2	210 ✓
82-M-423	15.0	20.0	2	30 ✓
82-M-424	28.0	52.0	6	70 ✓
82-M-425	8.5	18.0	1	28 ✓
82-M-426	7.0	31.0	3	94 ✓
82-M-427	14.0	72.0	<1	66 ✓
82-M-428	29.0	36.0	2	120 ✓
82-M-429	38.0	60.0	5	120 ✓
82-M-430	7.5	31.0	3	84 ✓
82-M-431	3.5	10.0	3	32 ✓
82-M-432	21.0	23.0	85	100 ✓
82-M-433	7.5	21.0	20	26 ✓
82-M-434	3.5	39.0	2	58 ✓
82-M-435	1.5	9.0	9	14 ✓
82-M-436	25.0	20.0	2	50 ✓
82-M-437	19.0	64.0	5	94 ✓
82-M-438	12.0	49.0	40	88 ✓
82-M-439	10.0	33.0	10	10 ✓
82-M-440	13.0	100.	8	14 ✓
82-M-441	22.0	81.0	13	110 ✓
82-M-442	9.0	47.0	<1	26 ✓
82-M-443	110.	130.	4	42 ✓
82-M-444	4.5	59.0	3	18 ✓
82-M-445	12.0	71.0	4	18 ✓
82-M-446	9.0	66.0	<1	28 ✓
82-M-447	5.5	22.0	7	50 ✓

SAMPLE	CU PPM	ZN PPM	W PPM	PB PPM
82-M-448	6.5	53.0	2	24✓
82-M-449	7.5	65.0	3	26✓
82-M-450	22.0	61.0	4	22✓
82-M-451	14.0	39.0	3	8✓
82-M-452	19.0	93.0	2	22✓
82-M-453	19.0	73.0	3	20✓
82-M-454	6.5	10.0	<1	22✓
82-M-455	11.0	63.0	2	84✓
82-M-456	3.5	24.0	1	28✓
82-M-457	4.5	11.0	4	30✓
82-M-458	10.0	33.0	<1	34✓
82-M-459	7.0	39.0	7	48✓
82-M-460	5.5	18.0	<1	28✓
82-M-461	7.5	41.0	2	32✓
82-M-462	4.0	7.5	<1	86✓
82-M-463	5.5	28.0	3	35✓
82-M-464	4.0	42.0	2	18✓
82-M-465	18.0	8.5	2	22✓
82-M-466	10.0	44.0	<1	20✓
82-M-467	12.0	17.0	4	34✓
82-M-468	4.0	20.0	1	60✓
82-M-469	3.5	17.0	15	58✓
82-M-470	12.0	12.0	22	44✓
82-M-471	10.0	85.0	38	100✓
82-M-472	6.0	21.0	4	100✓
82-M-473	5.5	44.0	39	60✓
82-M-474	9.5	120.	2	110✓
82-M-475	4.5	29.0	1	42✓
82-M-476	1.0	6.5	<1	14✓
82-M-477	12.0	31.0	7	32✓
82-M-478	6.0	16.0	9	52✓
82-M-479	7.0	24.0	14	44✓
82-M-480	23.0	52.0	5	86✓
82-M-481	28.0	56.0	32	40✓
82-M-482	25.0	40.0	20	38✓
82-M-483	11.0	29.0	130	48✓
82-M-484	37.0	130.	150	66✓
82-M-485	16.0	77.0	18	76✓
82-M-486	27.0	61.0	2	13✓
82-M-487	12.0	50.0	1	18✓
82-M-488	9.0	24.0	10	14✓
82-M-489	4.5	19.0	56	26✓
82-M-490	4.5	22.0	16	46✓
82-M-491	6.5	54.0	76	42✓
82-M-492	13.0	36.0	9	48✓
82-M-493	15.0	45.0	1	98✓
82-M-494	15.0	63.0	8	34✓
82-M-495	71.0	80.0	52	54✓
82-M-496	110.	110.	3	72✓
82-M-497	26.0	41.0	7	110✓
82-M-498	17.0	41.0	6	110✓
82-M-499	29.0	48.0	1	120✓
82-M-500	23.0	63.0	10	130✓
82-M-501	13.0	56.0	1	78✓
82-M-502	35.0	66.0	5	180✓
82-M-503	5.0	45.0	26	66✓

For Total
Van Pp

SAMPLE	CU PPM	ZN PPM	W PPM	PB PPM
82-M-504	7.5	14.0	12	30✓
82-M-505	27.0	28.0	5	98✓
82-M-506	1.5	3.5	19	24✓
82-M-507	26.0	32.0	3	44✓
82-M-508	22.0	44.0	7	80✓
82-M-509	2.5	7.5	2	58✓
82-M-510	16.0	37.0	3	96✓
82-M-511	16.0	39.0	10	60✓
82-M-512	44.0	34.0	2	44✓
82-M-513	11.0	21.0	<1	22✓
82-M-514	7.5	29.0	5	42✓
82-M-515	9.5	24.0	<1	40✓
82-M-516	4.0	17.0	<1	24✓
82-M-517	14.0	25.0	65	58✓
82-M-518	6.0	18.0	76	46✓
82-M-519	4.0	16.0	37	30✓
82-M-520	14.0	25.0	35	40✓
82-M-521	13.0	50.0	160	42✓
82-M-522	12.0	42.0	62	96✓
82-M-523	9.5	59.0	310	54✓
82-M-524	5.0	12.0	38	28✓
82-M-525	19.0	16.0	52	54✓
82-M-526	67.0	40.0	4	40✓
82-M-527	6.0	26.0	10	24✓
82-M-528	2.5	13.0	29	52✓
82-M-529	6.0	40.0	4	24✓
82-M-530	12.0	36.0	39	68✓
82-M-531	7.5	37.0	30	90✓
82-M-532	12.0	50.0	130	50✓
82-M-533	26.0	76.0	8	120✓
82-M-534	2.5	13.0	6	48✓
82-M-535	8.5	46.0	6	68✓
82-M-536	77.0	42.0	3	110✓
82-M-537	2.0	13.0	2	18✓
82-M-538	8.0	33.0	<1	12✓
82-M-539	7.0	25.0	4	20✓
82-M-540	2.5	15.0	2	20✓
82-M-541	38.0	74.0	4	200✓
82-M-542	3.5	18.0	3	36✓
82-M-543	45.0	43.0	3	68✓
82-M-544	53.0	38.0	<1	130✓
82-M-545	17.0	38.0	6	44✓
82-M-546	8.0	39.0	1	16✓
82-M-547	26.0	73.0	3	52✓
82-M-548	16.0	54.0	1	40✓
82-M-549	8.0	55.0	3	18✓
82-M-550	4.5	57.0	3	12✓
82-M-551	4.5	28.0	4	10✓
82-M-552	9.0	42.0	3	8✓
82-M-553	13.0	33.0	3	14✓
82-M-554	11.0	62.0	5	26✓
82-M-555	16.0	39.0	4	78✓
82-M-556	14.0	18.0	<1	20✓
82-M-557	15.0	62.0	7	38✓
82-M-558	2.0	17.0	6	32✓
82-M-559	31.0	37.0	<1	110✓

SAMPLE	CU PPM	ZN PPM	W PPM	PB PPM
82-M-560	4.5	17.0	2	36✓
82-M-561	35.0	40.0	120	54✓
82-M-562	8.5	79.0	5	32✓
82-M-563	30.0	45.0	3	32✓
82-M-564	4.0	43.0	4	26✓
82-M-565	22.0	49.0	14	44✓
82-M-566	9.0	52.0	17	46✓
82-M-567	6.0	29.0	70	42✓
82-M-568	7.5	14.0	9	38✓
82-M-569	8.5	190.	35	64✓
82-M-570	8.0	43.0	2	16✓
82-M-571	14.0	92.0	<1	22✓
82-M-572	45.0	65.0	42	70✓
82-M-573	5.0	16.0	1	150✓
82-M-574	8.5	17.0	3	40✓
82-M-575	3.0	10.0	4	26✓
82-M-576	12.0	15.0	6	42✓
82-M-577	10.0	19.0	4	52✓
82-M-578	8.0	33.0	1	28✓
82-M-579	1.5	7.0	4	30✓
82-M-580	41.0	39.0	28	68✓
82-M-581	15.0	37.0	5	60✓
82-M-582	27.0	21.0	15	52✓
82-M-583	17.0	17.0	6	50✓
82-M-584	17.0	52.0	8	50✓
82-M-585	2.5	5.5	8	28✓
82-M-586	73.0	36.0	13	86✓
82-M-587	19.0	20.0	4	28✓
82-M-588	3.5	20.0	<1	24✓
82-M-589	4.5	37.0	1	18✓
82-M-590	2.5	12.0	5	28✓
82-M-591	2.0	15.0	3	16✓
82-M-592	7.0	55.0	<1	24✓
82-M-593	39.0	34.0	7	40✓
82-M-594	5.0	50.0	2	12✓
82-M-595	10.0	66.0	<1	14✓
82-M-596	5.0	32.0	3	34✓
82-M-597	9.5	52.0	1	20✓
82-M-598	5.5	57.0	1	24✓
82-M-599	11.0	36.0	7	48✓
82-M-600	6.5	20.0	7	44✓
82-M-601	5.0	6.0	8	30✓
82-M-602	6.0	7.5	9	22✓
82-M-603	2.0	9.0	20	36✓
82-M-604	7.5	22.0	5	58✓
82-M-605	12.0	47.0	230	38✓
82-M-606	26.0	26.0	28	82✓
82-M-607	14.0	110.	23	58✓
82-M-608	63.0	47.0	13	58✓
82-M-609	55.0	31.0	7	110✓
82-M-610	90.0	250.	22	190✓
82-M-611	20.0	18.0	6	38✓
82-M-612	11.0	21.0	2	50✓
82-M-613	130.	71.0	16	190✓
82-M-614	15.0	24.0	90	72✓
82-M-615	11.0	23.0	10	60✓

SAMPLE	CU PPM	ZN PPM	W PPM	PB PPM
82-M-616	2.5	9.0	1	30 ✓
82-M-617	1.5	5.0	4	20 ✓
82-M-618	15.0	69.0	<1	20 ✓
82-M-619	15.0	10.0	1	38 ✓
82-M-620	24.0	33.0	49	110 ✓
82-M-621	4.0	19.0	5	22 ✓
82-M-622	4.0	7.5	<1	24 ✓
82-M-623	2.5	13.0	<1	26 ✓
82-M-624	2.5	9.0	5	32 ✓
82-M-625	3.5	11.0	2	12 ✓
82-M-626	1.5	9.0	7	32 ✓
82-M-627	3.0	11.0	3	32 ✓
82-M-628	2.0	2.5	4	12 ✓
82-M-629	3.5	9.5	4	42 ✓
82-M-630	2.5	11.0	3	32 ✓
82-M-631	8.5	12.0	16	32 ✓
82-M-632	10.0	16.0	16	18 ✓
82-M-633	7.5	19.0	<1	70 ✓
82-M-634	18.0	66.0	9	74 ✓
82-M-635	2.5	6.0	4	20 ✓
82-M-636	3.0	4.5	25	24 ✓
82-M-637	8.5	17.0	49	48 ✓
82-M-638	5.5	24.0	390	54 ✓
82-M-639	16.0	80.0	150	76 ✓
82-M-640	14.0	33.0	8	54 ✓
82-M-641	12.0	68.0	30	42 ✓
82-M-642	23.0	18.0	10	46 ✓
82-M-643	15.0	7.5	11	40 ✓
82-M-644	8.0	6.5	32	28 ✓
82-M-645	23.0	7.0	29	24 ✓
82-M-646	470.	240.	9	50 ✓
82-M-647	20.0	55.0	<1	14 ✓
82-M-648	88.0	76.0	4	36 ✓
82-M-649	43.0	100.	8	60 ✓
82-M-650	23.0	140.	1	20 ✓
82-M-651	31.0	110.	2	90 ✓
82-M-652	13.0	140.	2	26 ✓
82-M-653	7.5	37.0	3	14 ✓
82-M-654	12.0	44.0	4	20 ✓
82-M-655	19.0	58.0	4	18 ✓
82-M-656	4.5	15.0	5	26 ✓
82-M-657	13.0	44.0	<1	22 ✓
82-M-658	17.0	78.0	1	24 ✓
82-M-659	28.0	41.0	2	94 ✓
82-M-660	9.5	60.0	<1	20 ✓
82-M-661	11.0	17.0	1	48 ✓
82-M-662	30.0	14.0	16	44 ✓
82-M-663	18.0	19.0	1	48 ✓
82-M-664	15.0	11.0	8	30 ✓
82-M-665	16.0	36.0	2	68 ✓
82-M-666	1.5	4.5	12	18 ✓
82-M-667	2.5	6.5	13	20 ✓
82-M-668	2.0	5.0	1	12 ✓
82-M-669	18.0	18.0	5	88 ✓
82-M-670	8.5	16.0	4	84 ✓
82-M-671	2.0	6.5	6	28 ✓

SAMPLE	CU PPM	ZN PPM	W PPM	PB PPM
82-M-672	43.0	32.0	190	110
82-M-673	14.0	10.0	7	56
82-M-674	8.0	21.0	5	62
82-M-675	14.0	14.0	100	60
82-M-676	10.0	13.0	50	44
82-M-677	18.0	18.0	13	100
82-M-678	7.0	13.0	23	68
82-M-679	9.5	22.0	17	56
82-M-680	2.0	11.0	82	44
82-M-681	11.0	22.0	13	56
82-M-682	7.0	27.0	24	68
82-M-683	12.0	14.0	21	56
82-M-684	8.5	14.0	48	36
82-M-685	8.5	21.0	67	74
82-M-686	1.5	8.5	5	20
82-M-687	36.0	20.0	25	72
82-M-688	3.0	27.0	6	24
82-M-689	6.5	86.0	57	130

Grus: Oppland Zink

1,5 km östl. der Eisenbahn: Konzentrat. Normarlett
~ 4% Zn

Chromfokussierung von Lesja

ca. 8-12% Cr

Al 12% Cr_2O_3

Blakergrube: Sörum: Quarzite mit Kupferis und Mo

Isle Rudokogen Kobbersjerp Mitteldal Akershus

in Feldspatporphyr Cu_5S_2 1,5-2,8% Cu

Virkelg Kobber Flakelalen

Impregnation $CuFeS_2$ CaF_2 $CaCO_3$ ca 1m

Minge Østfold Pb, Zn, $(CuFeS_2)$ Flußspat
offenbar Gang mit Q, Fsp.

Kommer und Østfold

Antimon: 22% präzisierung: 1972

Verdampfung. 1972 68 000 t

£ 560 / m. ton 7560 kr / ton 75 kr per kg

drivvad. 0.2% = 2 kg/t = 150 kr./ton
1 måalm

Bestemmer og analyserer fastfjellprøver. Det er ikke å utelukke at anomaliens årsak finner seg lenger mot W. altså W for Føllehollet mot Rødsdalsfjella

II. Kileben - anomali : er på 163 ppm Cu og 1447 ppm Zn med kjorte langs veien mot syd in til bommen.

ved siden av lyse gneiss med den tykke amfibolitt bånd finnes det her en flere m meter, metalle og rusten (litt) meget finhernet tett bergart som består av Actitt og feltspatt med litt karbonat på sprækker med kvarts (typ kvartsdiorit)

Kaller denne bergartstypen Kileben eller "Ömmelbergstypen" forekomsten. Andre suspect bergarter fantes ikke i det undersøkt området.

Aggr Kilebenfeltet er antropogent forurenset og anomalien kan skyldes dette.

Det ser ikke ut om at bergartene ved Kileben er de samme som ved Lakasdammen.

Etter det geologiske kart av Bortensons studenter ~~1987~~ skulle begge steder ligge omtrentlig ~~1987/1988~~ i samme stratigrafiske horisont. ~~1988~~

Kartblad Oslo 1:250 000 ~~1988~~

med integrert geologi samt delbilde

Avstand mellom de to prøvetagingspunktene er 10 km.

Befaring Østfold den 14. 1. 75

Undersøkelse av geokjemiske anomalier og strukturgeologiske forhold i sentrale deler av Østfold.

I. Lakesdammenanomalien SW for Armark sentrum.

Fra Måsves 21 mot W nord for Lakesdammen er terrenget rel. godt flattet. Det sluttner opp der linamer så at man får oversikt over lagretikken selv om en ikke får et fullstendig profil. Strøket er $\pm$ NNW-SSE mens fjellet er skilt mot ~~W~~W.

Det dreier seg vesentlig om grovkornete biotittgneiser oftest med differensering i en tykk lag som består hovedsakelig av biotitt og grovkornete kvarts-feldspattlag oftest med røde feldspattvarianter. I Mørel med nævnte bergarter opptrer pegmatisk lag eller pegmatitt (dette kunne man ikke se uten viderees anjorr p.g av fløtningens var for lite. Videre finnes det angjengende lignende varieteter av biotittgneisen.

det ligger ikke å finne frem til mineraliseringens årsak.

I Lakesdammen kunne man påbakte en betydelig skumlamme i bekken under en for. Dette er ikke rart fordi bekken er ikke forurenset av industriavløpsvann.

Anomaliens størrelse: Cu 908 ppm, Zn: 1299 ppm

Det finnes i området hvor prøven er tatt meget gamle rester av piggstråttjære og benaturaleit felttinget så at det ser ut om det har vært noe virksomhet her.

Anomalien kan skyldes also antropogen forurensning påfallende er imidlertid at holter og dambredde er høgt I fastfjell var det ikke en gang spor av jernoksidet å se.

Her bør det tas flere prøver i bekken for å bekrefte først anomalien som sådan. deretter bør man kartlegge alle

10 MINGE / ØSTFOLD, JULI 1982, 82-M-1 to 82-M-689



