

02.08-05/01/97-02284

Appendix H

Analytical Data

TPH Immunoassay Test Kit Results
Project # 16487
Field Screening Summary

<u>Sample ID</u>	<u>Date</u>	<u>KIT Conc. (ppm)</u>	<u>Clean Pile</u>	<u>Dirty Pile</u>	<u>Analyst</u>
CLJ44-FS-011	7/31/95	72	P-1		RM/AG
CLJ44-FS-012	7/31/95	15	P-1		RM/AG
CLJ44-FS-013	7/31/95	15	P-1		RM/AG
CLJ44-FS-014	7/31/95	81	P-1		RM/AG
CLJ44-FS-015	7/31/95	73	P-1		RM/AG
CLJ44-FS-016	7/31/95	71	P-1		RM/AG
CLJ44-FS-017	7/31/95	71	P-1		RM/AG
CLJ44-FS-018	7/31/95	76	P-1		RM/AG
CLJ44-FS-019	7/31/95	66	P-1		RM/AG
CLJ44-FS-020	7/31/95	83	P-1		RM/AG
CLJ44-FS-021	7/31/95	101	P-1		RM/AG
CLJ44-FS-022	7/31/95	117	P-1		RM/AG
CLJ44-FS-023	7/31/95	128	P-1		RM/AG
CLJ44-FS-024	7/31/95	125	P-2		RM/AG
CLJ44-FS-025	7/31/95	134	P-2		RM/AG
CLJ44-FS-026	7/31/95	152	P-2		RM/AG
CLJ44-FS-027	7/31/95	136	P-2		RM/AG
CLJ44-FS-028	7/31/95	210	P-2		RM/AG
CLJ44-FS-029	7/31/95	814		P-1	RM/AG
CLJ44-FS-030	7/31/95	264	P-2		RM/AG
CLJ44-FS-030D	7/31/95	295	P-2		RM/AG
CLJ44-FS-031	7/31/95	472		P-1	RM/AG
CLJ44-FS-032	7/31/95	2000		P-1	RM/AG
CLJ44-FS-033	7/31/95	211	P-2		RM/AG
CLJ44-FS-034	7/31/95	174	P-2		RM/AG
CLJ44-FS-035	7/31/95	112	P-2		RM/AG
CLJ44-FS-036	7/31/95	1088		P-1	RM/AG
CLJ44-FS-037	7/31/95	1829		P-1	RM/AG
CLJ44-FS-038	7/31/95	106	P-2		RM/AG
CLJ44-FS-039	7/31/95	2000		P-1	RM/AG
CLJ44-FS-040	7/31/95	2000		P-1	RM/AG
CLJ44-FS-041	7/31/95	2000		P-1	RM/AG
CLJ44-FS-042	7/31/95	2000		P-1	RM/AG
CLJ44-FS-043	7/31/95	2000		P-1	RM/AG
CLJ44-FS-044	7/31/95	2000		P-1	RM/AG
CLJ44-FS-045	7/31/95	2000		P-1	RM/AG
CLJ44-FS-046	7/31/95	2000		P-1	RM/AG
CLJ44-FS-047	7/31/95	2000		P-2	RM/AG
CLJ44-FS-048	7/31/95	2000		P-2	RM/AG
CLJ44-FS-049	7/31/95	2000		P-2	RM/AG
CLJ44-FS-049D	7/31/95	2000		P-2	RM/AG
CLJ44-FS-050	7/31/95	1384		P-2	RM/AG
CLJ44-FS-051	7/31/95	2000		P-2	RM/AG
CLJ44-FS-052	7/31/95	465		P-2	RM/AG

<u>Sample ID</u>	<u>Date</u>	<u>KIT Conc. (ppm)</u>	<u>Clean File</u>	<u>Dirty File</u>	<u>Analyst</u>
CLJ44-FS-053	7/31/95	2000		P-2	RM/AG
CLJ44-FS-054	7/31/95	1419		P-2	RM/AG
CLJ44-FS-055	7/31/95	272	P-2		RM/AG
CLJ44-FS-056	7/31/95	271	P-2		RM/AG
CLJ44-FS-057	7/31/95	1221		P-2	RM/AG
CLJ44-FS-058	7/31/95	2000		P-2	RM/AG
CLJ44-FS-059	7/31/95	2000		P-2	RM/AG
CLJ44-FS-060	8/1/95	1584		P-2	RM/AG
CLJ44-FS-061	8/1/95	956		P-2	RM/AG
CLJ44-FS-062	8/1/95	1772		P-2	RM/AG
CLJ44-FS-063	8/1/95	2000		P-3	RM/AG
CLJ44-FS-064	8/1/95	2000		P-3	RM/AG
CLJ44-FS-065	8/1/95	2000		P-3	RM/AG
CLJ44-FS-066	8/1/95	2000		P-3	RM/AG
CLJ44-FS-067	8/1/95	2000		P-3	RM/AG
CLJ44-FS-068	8/1/95	2000		P-3	RM/AG
CLJ44-FS-069	8/1/95	2000		P-3	RM/AG
CLJ44-FS-070	8/1/95	2000		P-3	RM/AG
CLJ44-FS-071	8/1/95	2000		P-3	RM/AG
CLJ44-FS-072	8/1/95	2000		P-3	RM/AG
CLJ44-FS-073	8/1/95	2000		P-3	RM/AG
CLJ44-FS-074	8/1/95	2000		P-3	RM/AG
CLJ44-FS-075	8/1/95	2000		P-3	RM/AG
CLJ44-FS-076	8/1/95	623		P-4	RM/AG
CLJ44-FS-077	8/1/95	2000		P-4	RM/AG
CLJ44-FS-078	8/1/95	860		P-4	RM/AG
CLJ44-FS-079	8/1/95	102	P-2		RM/AG
CLJ44-FS-079D	8/1/95	113	P-2		RM/AG
CLJ44-FS-080	8/1/95	120	P-3		RM/AG
CLJ44-FS-081	8/1/95	126	P-3		RM/AG
CLJ44-FS-082	8/1/95	382	P-3		RM/AG
CLJ44-FS-083	8/1/95	34	P-3		RM/AG
CLJ44-FS-084	8/1/95	40	P-3		RM/AG
CLJ44-FS-085	8/1/95	36	P-3		RM/AG
CLJ44-FS-086	8/1/95	70	P-3		RM/AG
CLJ44-FS-087	8/1/95	2000		P-4	RM/AG
CLJ44-FS-088	8/1/95	2000		P-4	RM/AG
CLJ44-FS-089	8/1/95	2000		P-4	RM/AG
CLJ44-FS-090	8/1/95	2000		P-4	RM/AG
CLJ44-FS-091	8/1/95	2000		P-4	RM/AG
CLJ44-FS-092	8/1/95	2000		P-4	RM/AG
CLJ44-FS-093	8/1/95	2000		P-4	RM/AG
CLJ44-FS-094	8/1/95	753		P-4	RM/AG
CLJ44-FS-095	8/1/95	2000		P-4	RM/AG
CLJ44-FS-096	8/1/95	2000		P-4	RM/AG
CLJ44-FS-097	8/1/95	2000		P-5	RM/AG
CLJ44-FS-098	8/1/95	2000		P-5	RM/AG
CLJ44-FS-099	8/1/95	2000		P-5	RM/AG

<u>Sample ID</u>	<u>Date</u>	<u>KIT Conc. (ppm)</u>	<u>Clean Pile</u>	<u>Dirty Pile</u>	<u>Analyst</u>
CLJ44-FS-100	8/1/95	2000		P-5	RM/AG
CLJ44-FS-100D	8/1/95	1757		P-5	RM/AG
CLJ44-FS-101	8/1/95	1471		P-5	RM/AG
CLJ44-FS-102	8/1/95	2000		P-5	RM/AG
CLJ44-FS-103	8/1/95	2000		P-5	RM/AG
CLJ44-FS-104	8/1/95	22	P-3		RM/AG
CLJ44-FS-105	8/1/95	1185		P-5	RM/AG
CLJ44-FS-106	8/1/95	168	P-3		RM/AG
CLJ44-FS-107	8/1/95	21	P-3		RM/AG
CLJ44-FS-108	8/1/95	0	P-3		RM/AG
CLJ44-FS-109	8/1/95	0	P-3		RM/AG
CLJ44-FS-110	8/1/95	33	P-3		RM/AG
CLJ44-FS-111	8/1/95	161	P-3		RM/AG
CLJ44-FS-112	8/1/95	14	P-3		RM/AG
CLJ44-FS-113	8/1/95	384	P-3		RM/AG
CLJ44-FS-114	8/1/95	1633		P-5	RM/AG
CLJ44-FS-115	8/1/95	2000		P-5	RM/AG
CLJ44-FS-116	8/1/95	2000		P-5	RM/AG
CLJ44-FS-117	8/1/95	2000		P-5	RM/AG
CLJ44-FS-118	8/2/95	2000		P-6	RM/AG
CLJ44-FS-119	8/2/95	1527		P-6	RM/AG
CLJ44-FS-120	8/2/95	2000		P-6	RM/AG
CLJ44-FS-120D	8/2/95	2000		P-6	RM/AG
CLJ44-FS-121	8/2/95	1558		P-6	RM/AG
CLJ44-FS-122	8/2/95	2000		P-6	RM/AG
CLJ44-FS-123	8/2/95	2000		P-6	RM/AG
CLJ44-FS-124	8/2/95	1170		P-6	RM/AG
CLJ44-FS-125	8/2/95	991		P-6	RM/AG
CLJ44-FS-126	8/2/95	877		P-6	RM/AG
CLJ44-FS-127	8/2/95	399		P-6	RM/AG
CLJ44-FS-128	8/2/95	967		P-6	RM/AG
CLJ44-FS-129	8/2/95	2000		P-6	RM/AG
CLJ44-FS-130	8/2/95	2000		P-6	RM/AG
CLJ44-FS-131	8/2/95	479		P-7	RM/AG
CLJ44-FS-132	8/2/95	973		P-7	RM/AG
CLJ44-FS-133	8/2/95	1233		P-7	RM/AG
CLJ44-FS-134	8/2/95	49	P-4		RM/AG
CLJ44-FS-135	8/2/95	51	P-4		RM/AG
CLJ44-FS-136	8/2/95	90	P-4		RM/AG
CLJ44-FS-137	8/2/95	2000		P-7	RM/AG
CLJ44-FS-138	8/2/95	237	P-4		RM/AG
CLJ44-FS-139	8/2/95	1322		P-7	RM/AG
CLJ44-FS-140	8/2/95	2000		P-7	RM/AG
CLJ44-FS-140D	8/2/95	2000		P-7	RM/AG
CLJ44-FS-141	8/2/95	819		P-7	RM/AG
CLJ44-FS-142	8/2/95	2000		P-7	RM/AG
CLJ44-FS-143	8/2/95	2000		P-7	RM/AG
CLJ44-FS-144	8/2/95	2000		P-7	RM/AG

Sample ID	Date	KIT Conc. (ppm)	Clean File	Dirty File	Analyst
CLJ44-FS-145	8/2/95	2000		P-7	RM/AG
CLJ44-FS-146	8/2/95	299	P-4		RM/AG
CLJ44-FS-147	8/2/95	1055		P-7	RM/AG
CLJ44-FS-148	8/2/95	75	P-4		RM/AG
CLJ44-FS-149	8/2/95	288	P-4		RM/AG
CLJ44-FS-150	8/2/95	299	P-4		RM/AG
CLJ44-FS-151	8/2/95	371	P-4		RM/AG
CLJ44-FS-152	8/2/95	2000		P-7	RM/AG
CLJ44-FS-153	8/2/95	1823		P-8	RM/AG
CLJ44-FS-154	8/2/95	793		P-8	RM/AG
CLJ44-FS-155	8/2/95	2000		P-8	RM/AG
CLJ44-FS-156	8/2/95	2000		P-8	RM/AG
CLJ44-FS-157	8/2/95	575		P-8	RM/AG
CLJ44-FS-158	8/2/95	93	P-4		RM/AG
CLJ44-FS-159	8/2/95	55	P-5		RM/AG
CLJ44-FS-160	8/2/95	56	P-5		RM/AG
CLJ44-FS-160D	8/2/95	192	P-5		RM/AG
CLJ44-FS-161	8/2/95	38	P-5		RM/AG
CLJ44-FS-162	8/2/95	2000		P-8	RM/AG
CLJ44-FS-163	8/2/95	2000		P-8	RM/AG
CLJ44-FS-164	8/2/95	2000		P-8	RM/AG
CLJ44-FS-165	8/2/95	81	P-5		RM/AG
CLJ44-FS-166	8/2/95	2000		P-8	RM/AG
CLJ44-FS-167	8/2/95	875		P-8	RM/AG
CLJ44-FS-168	8/2/95	2000		P-8	RM/AG
CLJ44-FS-169	8/2/95	2000		P-8	RM/AG
CLJ44-FS-170	8/2/95	2000		P-8	RM/AG
CLJ44-FS-171	8/2/95	2000		P-9	RM/AG
CLJ44-FS-172	8/2/95	2000		P-9	RM/AG
CLJ44-FS-173	8/2/95	2000		P-9	RM/AG
CLJ44-FS-174	8/2/95	2000		P-9	RM/AG
CLJ44-FS-175	8/2/95	2000		P-9	RM/AG
CLJ44-FS-176	8/2/95	137	P-5		RM/AG
CLJ44-FS-177	8/2/95	630		P-9	RM/AG
CLJ44-FS-178	8/2/95	1531		P-9	RM/AG
CLJ44-FS-179	8/2/95	2000		P-9	RM/AG
CLJ44-FS-180	8/2/95	2000		P-9	RM/AG
CLJ44-FS-180D	8/2/95	2000		P-9	RM/AG
CLJ44-FS-181	8/2/95	796		P-9	RM/AG
CLJ44-FS-182	8/2/95	521		P-9	RM/AG
CLJ44-FS-183	8/2/95	2000		P-9	RM/AG
CLJ44-FS-184	8/2/95	1042		P-9	RM/AG
CLJ44-FS-185	8/3/95	72	P-5		RM/AG
CLJ44-FS-186	8/3/95	35	P-5		RM/AG
CLJ44-FS-187	8/3/95	30	P-5		RM/AG
CLJ44-FS-188	8/3/95	1798		P-10	RM/AG
CLJ44-FS-189	8/3/95	754		P-10	RM/AG
CLJ44-FS-190	8/3/95	2000		P-10	RM/AG

<u>Sample ID</u>	<u>Date</u>	<u>KIT Conc. (ppm)</u>	<u>Clean Pile</u>	<u>Dirty Pile</u>	<u>Analyst</u>
CLJ44-FS-191	8/3/95	1414		P-10	RM/AG
CLJ44-FS-192	8/3/95	1183		P-10	RM/AG
CLJ44-FS-193	8/3/95	120	P-5		RM/AG
CLJ44-FS-194	8/3/95	502		P-10	RM/AG
CLJ44-FS-195	8/3/95	30	P-5		RM/AG
CLJ44-FS-196	8/3/95	56	P-5		RM/AG
CLJ44-FS-197	8/3/95	54	P-5		RM/AG
CLJ44-FS-198	8/3/95	140	P-5		RM/AG
CLJ44-FS-199	8/3/95	42	P-6		RM/AG
CLJ44-FS-200	8/3/95	66	P-6		RM/AG
CLJ44-FS-200D	8/3/95	57	P-6		RM/AG
CLJ44-FS-201	8/3/95	2000		P-10	RM/AG
CLJ44-FS-202	8/3/95	2000		P-10	RM/AG
CLJ44-FS-203	8/3/95	119	P-6		RM/AG
CLJ44-FS-204	8/3/95	1212		P-10	RM/AG
CLJ44-FS-205	8/3/95	95	P-6		RM/AG
CLJ44-FS-206	8/3/95	438		P-10	RM/AG
CLJ44-FS-207	8/3/95	34			RM/AG
CLJ44-FS-208	8/3/95	30			RM/AG
CLJ44-FS-209	8/3/95	22	P-6		RM/AG
CLJ44-FS-210	8/3/95	119	P-6		RM/AG
CLJ44-FS-211	8/3/95	70	P-6		RM/AG
CLJ44-FS-212	8/3/95	2000		P-10	RM/AG
CLJ44-FS-213	8/3/95	43	P-6		RM/AG
CLJ44-FS-214	8/3/95	55	P-6		RM/AG
CLJ44-FS-215	8/3/95	24	P-6		RM/AG
CLJ44-FS-216	8/3/95	37	P-6		RM/AG
CLJ44-FS-217	8/3/95	0	P-6		RM/AG
CLJ44-FS-218	8/3/95	41	P-6		RM/AG
CLJ44-FS-219	8/3/95	38	P-7		RM/AG
CLJ44-FS-220	8/3/95	66	P-7		RM/AG
CLJ44-FS-220D	8/3/95	69	P-7		RM/AG
CLJ44-FS-221	8/3/95	372	P-7		RM/AG
CLJ44-FS-222	8/3/95	54	P-7		RM/AG
CLJ44-FS-223	8/3/95	0	P-7		RM/AG
CLJ44-FS-224	8/3/95	57	P-7		RM/AG
CLJ44-FS-225	8/3/95	32	P-7		RM/AG
CLJ44-FS-226	8/3/95	2000		P-10	RM/AG
CLJ44-FS-227	8/3/95	107	P-7		RM/AG
CLJ44-FS-228	8/3/95	43	P-7		RM/AG
CLJ44-FS-229	8/3/95	80	P-7		RM/AG
CLJ44-FS-230	8/3/95	2000		P-10	RM/AG
CLJ44-FS-231	8/4/95	2000		P-11	RM/AG
CLJ44-FS-232	8/4/95	2000		P-11	RM/AG
CLJ44-FS-233	8/4/95	2000		P-11	RM/AG
CLJ44-FS-234	8/4/95	2000		P-11	RM/AG
CLJ44-FS-235	8/4/95	2000		P-11	RM/AG
CLJ44-FS-236	8/4/95	2000		P-11	RM/AG

<u>Sample ID</u>	<u>Date</u>	<u>KIT Conc. (ppm)</u>	<u>Clean File</u>	<u>Dirty File</u>	<u>Analyst</u>
CLJ44-FS-237	8/4/95	2000		P-11	RM/AG
CLJ44-FS-238	8/4/95	2000		P-11	RM/AG
CLJ44-FS-239	8/4/95	2000		P-11	RM/AG
CLJ44-FS-240	8/4/95	2000		P-11	RM/AG
CLJ44-FS-240D	8/4/95	2000		P-11	RM/AG
CLJ44-FS-241	8/4/95	2000		P-11	RM/AG
CLJ44-FS-242	8/4/95	2000		P-11	RM/AG
CLJ44-FS-243	8/4/95	2000		P-11	RM/AG
CLJ44-FS-244	8/4/95	2000		P-12	RM/AG
CLJ44-FS-245	8/4/95	2000		P-12	RM/AG
CLJ44-FS-246	8/4/95	2000		P-12	RM/AG
CLJ44-FS-247	8/4/95	2000		P-12	RM/AG
CLJ44-FS-248	8/4/95	2000		P-12	RM/AG
CLJ44-FS-249	8/4/95	2000		P-12	RM/AG
CLJ44-FS-250	8/4/95	1323		P-12	RM/AG
CLJ44-FS-251	8/4/95	2000		P-12	RM/AG
CLJ44-FS-252	8/4/95	2000		P-12	RM/AG
CLJ44-FS-253	8/4/95	2000		P-12	RM/AG
CLJ44-FS-254	8/4/95	2000		P-12	RM/AG
CLJ44-FS-255	8/4/95	2000		P-12	RM/AG
CLJ44-FS-256	8/4/95	880		P-12	RM/AG
CLJ44-FS-257	8/4/95	2000		P-13	RM/AG
CLJ44-FS-258	8/4/95	2000		P-13	RM/AG
CLJ44-FS-259	8/4/95	2000		P-13	RM/AG
CLJ44-FS-260	8/4/95	2000		P-13	RM/AG
CLJ44-FS-260D	8/4/95	2000		P-13	RM/AG
CLJ44-FS-261	8/4/95	2000		P-13	RM/AG
CLJ44-FS-262	8/4/95	1297		P-13	RM/AG
CLJ44-FS-263	8/4/95	2000		P-13	RM/AG
CLJ44-FS-264	8/4/95	2000		P-13	RM/AG
CLJ44-FS-265	8/4/95	2000		P-13	RM/AG
CLJ44-FS-266	8/4/95	2000		P-13	RM/AG
CLJ44-FS-267	8/4/95	2000		P-13	RM/AG
CLJ44-FS-268	8/4/95	2000		P-13	RM/AG
CLJ44-FS-269	8/4/95	2000		P-13	RM/AG
CLJ44-FS-270	8/4/95	2000		P-14	RM/AG
CLJ44-FS-271	8/4/95	2000		P-14	RM/AG
CLJ44-FS-272	8/4/95	2000		P-14	RM/AG
CLJ44-FS-273	8/4/95	2000		P-14	RM/AG
CLJ44-FS-274	8/4/95	2000		P-14	RM/AG
CLJ44-FS-275	8/4/95	2000		P-14	RM/AG
CLJ44-FS-276	8/4/95	2000		P-14	RM/AG
CLJ44-FS-277	8/4/95	2000		P-14	RM/AG
CLJ44-FS-278	8/4/95	2000		P-14	RM/AG
CLJ44-FS-279	8/4/95	2000		P-14	RM/AG
CLJ44-FS-280	8/4/95	2000		P-14	RM/AG
CLJ44-FS-280D	8/4/95	2000		P-14	RM/AG
CLJ44-FS-281	8/4/95	2000		P-14	RM/AG

<u>Sample ID</u>	<u>Date</u>	<u>KIT Conc. (ppm)</u>	<u>Clean File</u>	<u>Dirty File</u>	<u>Analyst</u>
CLJ44-FS-282	8/4/95	2000		P-14	RM/AG
CLJ44-FS-283	8/7/95	2000		P-15	RM/AG
CLJ44-FS-284	8/7/95	2000		P-15	RM/AG
CLJ44-FS-285	8/7/95	2000		P-15	RM/AG
CLJ44-FS-286	8/7/95	2000		P-15	RM/AG
CLJ44-FS-287	8/7/95	2000		P-15	RM/AG
CLJ44-FS-288	8/7/95	2000		P-15	RM/AG
CLJ44-FS-289	8/7/95	2000		P-15	RM/AG
CLJ44-FS-290	8/7/95	2000		P-15	RM/AG
CLJ44-FS-291	8/7/95	2000		P-15	RM/AG
CLJ44-FS-292	8/7/95	2000		P-15	RM/AG
CLJ44-FS-293	8/7/95	2000		P-15	RM/AG
CLJ44-FS-294	8/7/95	2000		P-15	RM/AG
CLJ44-FS-295	8/7/95	58	P-7		RM/AG
CLJ44-FS-296	8/7/95	538		P-15	RM/AG
CLJ44-FS-297	8/7/95	46	P-7		RM/AG
CLJ44-FS-298	8/7/95	1074		P-16	RM/AG
CLJ44-FS-299	8/7/95	335	P-7		RM/AG
CLJ44-FS-300	8/7/95	2000		P-16	RM/AG
CLJ44-FS-300D	8/7/95	2000		P-16	RM/AG
CLJ44-FS-301	8/7/95	1884		P-16	RM/AG
CLJ44-FS-302	8/7/95	2000		P-16	RM/AG
CLJ44-FS-303	8/7/95	2000		P-16	RM/AG
CLJ44-FS-304	8/7/95	2000		P-16	RM/AG
CLJ44-FS-305	8/7/95	2000		P-16	RM/AG
CLJ44-FS-306	8/7/95	818		P-16	RM/AG
CLJ44-FS-307	8/7/95	2000		P-16	RM/AG
CLJ44-FS-308	8/7/95	2000		P-16	RM/AG
CLJ44-FS-309	8/7/95	2000		P-16	RM/AG
CLJ44-FS-310	8/7/95	2000		P-16	RM/AG
CLJ44-FS-311	8/7/95	584		P-16	RM/AG
CLJ44-FS-312	8/7/95	2000		P-17	RM/AG
CLJ44-FS-313	8/7/95	2000		P-17	RM/AG
CLJ44-FS-314	8/7/95	2000		P-17	RM/AG
CLJ44-FS-315	8/7/95	2000		P-17	RM/AG
CLJ44-FS-316	8/7/95	2000		P-17	RM/AG
CLJ44-FS-317	8/7/95	2000		P-17	RM/AG
CLJ44-FS-318	8/7/95	2000		P-17	RM/AG
CLJ44-FS-319	8/7/95	2000		P-17	RM/AG
CLJ44-FS-320	8/7/95	1278		P-17	RM/AG
CLJ44-FS-320D	8/7/95	1216		P-17	RM/AG
CLJ44-FS-321	8/7/95	2000		P-17	RM/AG
CLJ44-FS-322	8/7/95	118	P-8		RM/AG
CLJ44-FS-323	8/7/95	1256		P-17	RM/AG
CLJ44-FS-324	8/7/95	1942		P-17	RM/AG
CLJ44-FS-325	8/7/95	2000		P-17	RM/AG
CLJ44-FS-326	8/7/95	2000		P-18	RM/AG
CLJ44-FS-327	8/7/95	2000		P-18	RM/AG

Sample ID	Date	KIT Conc. (ppm)	Clean Pile	Dirty Pile	Analyst
CLJ44-FS-328	8/7/95	2000		P-18	RM/AG
CLJ44-FS-329	8/7/95	2000		P-18	RM/AG
CLJ44-FS-330	8/7/95	2000		P-18	RM/AG
CLJ44-FS-331	8/7/95	2000		P-18	RM/AG
CLJ44-FS-332	8/7/95	2000		P-18	RM/AG
CLJ44-FS-333	8/7/95	2000		P-18	RM/AG
CLJ44-FS-334	8/7/95	23	P-8		RM/AG
CLJ44-FS-335	8/7/95	44	P-8		RM/AG
CLJ44-FS-336	8/7/95	2000		P-18	RM/AG
CLJ44-FS-337	8/7/95	2000		P-18	RM/AG
CLJ44-FS-338	8/7/95	2000		P-18	RM/AG
CLJ44-FS-339	8/7/95	1370		P-18	RM/AG
CLJ44-FS-340	8/7/95	2000		P-18	RM/AG
CLJ44-FS-340D	8/7/95	2000		P-18	RM/AG
CLJ44-FS-341	8/7/95	454		P-19	RM/AG
CLJ44-FS-342	8/7/95	2000		P-19	RM/AG
CLJ44-FS-343	8/7/95	2000		P-19	RM/AG
CLJ44-FS-344	8/7/95	400		P-19	RM/AG
CLJ44-FS-345	8/7/95	2000		P-19	RM/AG
CLJ44-FS-346	8/7/95	2000		P-19	RM/AG
CLJ44-FS-347	8/7/95	2000		P-19	RM/AG
CLJ44-FS-348	8/7/95	2000		P-19	RM/AG
CLJ44-FS-349	8/7/95	2000		P-19	RM/AG
CLJ44-FS-350	8/7/95	2000		P-19	RM/AG
CLJ44-FS-351	8/7/95	2000		P-19	RM/AG
CLJ44-FS-352	8/7/95	2000		P-19	RM/AG
CLJ44-FS-353	8/7/95	2000		P-19	RM/AG
CLJ44-FS-354	8/7/95	2000		P-20	RM/AG
CLJ44-FS-355	8/7/95	2000		P-20	RM/AG
CLJ44-FS-356	8/7/95	2000		P-20	RM/AG
CLJ44-FS-357	8/7/95	2000		P-20	RM/AG
CLJ44-FS-358	8/7/95	2000		P-20	RM/AG
CLJ44-FS-359	8/7/95	548		P-20	RM/AG
CLJ44-FS-360	8/7/95	2000		P-20	RM/AG
CLJ44-FS-360D	8/7/95	2000		P-20	RM/AG
CLJ44-FS-361	8/7/95	2000		P-20	RM/AG
CLJ44-FS-362	8/7/95	2000		P-20	RM/AG
CLJ44-FS-363	8/7/95	2000		P-20	RM/AG
CLJ44-FS-364	8/8/95	2000		P-21	RM/AG
CLJ44-FS-365	8/8/95	2000		P-21	RM/AG
CLJ44-FS-366	8/8/95	2000		P-21	RM/AG
CLJ44-FS-367	8/8/95	2000		P-21	RM/AG
CLJ44-FS-368	8/8/95	2000		P-21	RM/AG
CLJ44-FS-369	8/8/95	2000		P-21	RM/AG
CLJ44-FS-370	8/8/95	2000		P-21	RM/AG
CLJ44-FS-371	8/8/95	2000		P-21	RM/AG
CLJ44-FS-372	8/8/95	2000		P-21	RM/AG
CLJ44-FS-373	8/8/95	2000		P-21	RM/AG

Sample ID	Date	KIT Conc. (ppm)	Clean Pile	Dirty Pile	Analyst
CLJ44-FS-374	8/8/95	2000		P-21	RM/AG
CLJ44-FS-375	8/8/95	2000		P-21	RM/AG
CLJ44-FS-376	8/8/95	2000		P-21	RM/AG
CLJ44-FS-377	8/8/95	2000		P-21	RM/AG
CLJ44-FS-378	8/8/95	2000		P-20	RM/AG
CLJ44-FS-379	8/8/95	2000		P-20	RM/AG
CLJ44-FS-380	8/8/95	2000		P-20	RM/AG
CLJ44-FS-380D	8/8/95	2000		P-20	RM/AG
CLJ44-FS-381	8/8/95	2000		P-22	RM/AG
CLJ44-FS-382	8/8/95	2000		P-22	RM/AG
CLJ44-FS-383	8/8/95	2000		P-22	RM/AG
CLJ44-FS-384	8/8/95	2000		P-22	RM/AG
CLJ44-FS-385	8/8/95	222	P-8		RM/AG
CLJ44-FS-386	8/8/95	2000		P-22	RM/AG
CLJ44-FS-387	8/8/95	2000		P-22	RM/AG
CLJ44-FS-388	8/8/95	2000		P-22	RM/AG
CLJ44-FS-389	8/8/95	2000		P-22	RM/AG
CLJ44-FS-390	8/8/95	2000		P-22	RM/AG
CLJ44-FS-391	8/8/95	2000		P-22	RM/AG
CLJ44-FS-392	8/8/95	2000		P-22	RM/AG
CLJ44-FS-393	8/8/95	1451		P-22	CB/RM
CLJ44-FS-394	8/8/95	1400		P-22	CB/RM
CLJ44-FS-395	8/8/95	2000		P-23	CB/RM
CLJ44-FS-396	8/8/95	2000		P-23	AG/RM
CLJ44-FS-397	8/8/95	882		P-23	AG/RM
CLJ44-FS-398	8/8/95	1181		P-23	AG/RM
CLJ44-FS-399	8/8/95	2000		P-23	AG/RM
CLJ44-FS-400	8/8/95	2000		P-23	AG/RM
CLJ44-FS-400D	8/8/95	2000		P-23	AG/RM
CLJ44-FS-401	8/8/95	1764		P-23	AG/RM
CLJ44-FS-402	8/8/95	1156		P-23	AG/RM
CLJ44-FS-403	8/8/95	421		P-23	AG/RM
CLJ44-FS-404	8/8/95	634		P-23	AG/RM
CLJ44-FS-405	8/8/95	159	P-8		AG/RM
CLJ44-FS-406	8/8/95	139	P-8		AG/RM
CLJ44-FS-407	8/8/95	2000		P-23	AG/RM
CLJ44-FS-408	8/8/95	2000		P-23	AG/RM
CLJ44-FS-409	8/8/95	2000		P-23	AG/RM
CLJ44-FS-410	8/9/95	68	P-8		AG/RM
CLJ44-FS-411	8/9/95	145	P-8		CB/AG
CLJ44-FS-412	8/9/95	54	P-8		CB/AG
CLJ44-FS-413	8/9/95	45	P-8		CB/AG
CLJ44-FS-414	8/9/95	95	P-8		CB/AG
CLJ44-FS-415	8/9/95	58	P-8		CB/AG
CLJ44-FS-416	8/9/95	1348		P-24	CB/AG
CLJ44-FS-417	8/9/95	2000		P-24	CB/AG
CLJ44-FS-418	8/9/95	2000		P-24	CB/AG
CLJ44-FS-419	8/9/95	2000		P-24	CB/AG

Sample ID	Date	KIT Conc. (ppm)	Clean Pile	Dirty Pile	Analyst
CLJ44-FS-420	8/9/95	2000		P-24	CB/AG
CLJ44-FS-420D	8/9/95	2000		P-24	CB/AG
CLJ44-FS-421	8/9/95	2000		P-24	CB/AG
CLJ44-FS-422	8/9/95	664		P-24	CB/AG
CLJ44-FS-423	8/9/95	2000		P-24	CB/AG
CLJ44-FS-424	8/9/95	113	P-8		CB/AG
CLJ44-FS-425	8/9/95	94	P-9		CB/AG
CLJ44-FS-426	8/9/95	143	P-9		CB/AG
CLJ44-FS-427	8/9/95	165	P-9		CB/AG
CLJ44-FS-428	8/9/95	800		P-24	CB/AG
CLJ44-FS-429	8/9/95	98	P-9		AG/RM
CLJ44-FS-430	8/9/95	173	P-9		AG/RM
CLJ44-FS-431	8/9/95	54	P-9		AG/RM
CLJ44-FS-432	8/9/95	77	P-9		AG/RM
CLJ44-FS-433	8/9/95	218	P-9		AG/RM
CLJ44-FS-434	8/9/95	64	P-9		AG/RM
CLJ44-FS-435	8/9/95	77	P-9		AG/RM
CLJ44-FS-436	8/9/95	69	P-9		AG/RM
A	R			B	
CLJ44-FS-437	8/11/95	2000		P-25	AG/RM
CLJ44-FS-438	8/11/95	2000		P-25	AG/RM
CLJ44-FS-439	8/11/95	2000		P-25	AG/RM
CLJ44-FS-440	8/11/95	2000		P-25	AG/RM
CLJ44-FS-440D	8/11/95	2000		P-25	AG/RM
CLJ44-FS-441	8/11/95	2000		P-25	AG/RM
CLJ44-FS-442	8/11/95	2000		P-25	AG/RM
CLJ44-FS-443	8/11/95	2000		P-25	AG/RM
CLJ44-FS-444	8/11/95	2000		P-25	AG/RM
CLJ44-FS-445	8/11/95	2000		P-25	AG/RM
CLJ44-FS-446	8/11/95	2000		P-25	AG/RM
CLJ44-FS-447	8/11/95	2000		P-25	AG/RM
CLJ44-FS-448	8/11/95	2000		P-25	AG/RM
CLJ44-FS-449	8/11/95	2000		P-25	AG/RM
CLJ44-FS-450	8/11/95	436		P-25	AG/RM
CLJ44-FS-451	8/11/95	2000		P-25	AG/RM
CLJ44-FS-452	8/11/95	2000		P-25	AG/RM
CLJ44-FS-453	8/11/95	2000		P-25	AG/RM
CLJ44-FS-454	8/11/95	2000		P-26	AG/RM
CLJ44-FS-455	8/11/95	2000		P-26	AG/RM
CLJ44-FS-456	8/11/95	2000		P-26	AG/RM
CLJ44-FS-457	8/11/95	2000		P-26	AG/RM
CLJ44-FS-458	8/11/95	776		P-26	AG/RM
CLJ44-FS-459	8/11/95	1733		P-26	AG/RM
CLJ44-FS-460	8/11/95	602		P-26	AG/RM
CLJ44-FS-460D	8/11/95	636		P-26	AG/RM
CLJ44-FS-461	8/11/95	1425		P-26	AG/RM
CLJ44-FS-462	8/11/95	973		P-26	AG/RM
CLJ44-FS-463	8/11/95	620		P-26	AG/RM

Sample ID	Date	KIT Conc. (ppm)	Clean Pile	Dirty Pile	Analyst
CLJ44-FS-464	9/26/95	199	P-9		AG/RM
CLJ44-FS-465	9/26/95	231	P-9		AG/RM
CLJ44-FS-466	9/26/95	283	P-10		AG/RM
CLJ44-FS-467	9/26/95	301	P-10		AG/RM
CLJ44-FS-468	9/26/95	161	P-10		AG/RM
CLJ44-FS-469	9/26/95	106	P-10		AG/RM
CLJ44-FS-470	9/26/95	126	P-10		AG/RM
CLJ44-FS-471	9/26/95	242	P-10		AG/RM
CLJ44-FS-472	9/26/95	287	P-10		AG/RM
CLJ44-FS-473	9/26/95	290	P-10		AG/RM
CLJ44-FS-474	9/26/95	137	P-10		AG/RM
CLJ44-FS-475	9/26/95	99	P-10		AG/RM
CLJ44-FS-476	9/26/95	536		P-26	AG/RM
CLJ44-FS-477	9/26/95	2000		P-26	AG/RM
CLJ44-FS-478	9/26/95	1396		P-27	AG/RM
CLJ44-FS-479	9/26/95	2000		P-27	AG/RM
CLJ44-FS-480	9/26/95	2000		P-27	AG/RM
CLJ44-FS-480D	9/26/95	2000		P-27	AG/RM
CLJ44-FS-481	9/26/95	2000		P-27	AG/RM
CLJ44-FS-482	9/26/95	2000		P-27	AG/RM
CLJ44-FS-483	9/26/95	1215		P-27	AG/RM
CLJ44-FS-484	9/26/95	180	P-10		AG/RM
CLJ44-FS-485	9/26/95	333	P-10		AG/RM
CLJ44-FS-486	9/26/95	534		P-27	AG/RM
CLJ44-FS-487	9/26/95	1313		P-27	AG/RM
CLJ44-FS-488	9/26/95	2000		P-27	AG/RM
CLJ44-FS-489	9/26/95	2000		P-27	AG/RM
CLJ44-FS-490	9/26/95	159	P-10		AG/RM
CLJ44-FS-491	9/26/95	551		P-27	AG/RM
CLJ44-FS-492	9/26/95	842		P-27	AG/RM
CLJ44-FS-493	9/26/95	223	P-11	P-27	AG/RM
CLJ44-FS-494	9/26/95	1835		P-27	AG/RM
CLJ44-FS-495	9/26/95	2000		P-28	AG/RM
CLJ44-FS-496	9/26/95	74	P-11		AG/RM
CLJ44-FS-497	9/26/95	1135		P-28	AG/RM
CLJ44-FS-498	9/26/95	575		P-28	AG/RM
CLJ44-FS-499	9/26/95	2000		P-28	AG/RM
CLJ44-FS-500	9/26/95	259	P-11		AG/RM
CLJ44-FS-500D	9/26/95	306	P-11		AG/RM
CLJ44-FS-501	9/26/95	151	P-11		AG/RM
CLJ44-FS-502	9/26/95	2000		P-28	AG/RM
CLJ44-FS-503	9/26/95	2000		P-28	AG/RM
CLJ44-FS-504	9/26/95	2000		P-28	AG/RM
CLJ44-FS-505	9/26/95	177	P-11		AG/RM
CLJ44-FS-506	9/26/95	150	P-11		AG/RM
CLJ44-FS-507	9/26/95	203	P-11		AG/RM
CLJ44-FS-508	9/26/95	391	P-11		AG/RM
CLJ44-FS-509	9/26/95	423		P-28	AG/RM

Sample ID	Date	KIT Conc. (ppm)	Clean Pile	Dirty Pile	Analyst
CLJ44-FS-510	9/26/95	432		P-28	AG/RM
CLJ44-FS-511	9/26/95	224	P-11		AG/RM
CLJ44-FS-512	9/26/95	234	P-11		AG/RM
CLJ44-FS-513	9/26/95	314	P-11		AG/RM
CLJ44-FS-514	9/26/95	97	P-11		AG/RM
CLJ44-FS-515	9/26/95	75	P-11		AG/RM
CLJ44-FS-516	9/26/95	90	P-12		AG/RM
CLJ44-FS-517	9/26/95	67	P-12		AG/RM
CLJ44-FS-518	9/26/95	78	P-12		AG/RM
CLJ44-FS-519	9/26/95	238	P-12		AG/RM
CLJ44-FS-520	9/26/95	199	P-12		AG/RM
CLJ44-FS-520D	9/26/95	210	P-12		AG/RM
CLJ44-FS-521	9/26/95	122	P-12		AG/RM
CLJ44-FS-522	9/26/95	917		P-28	AG/RM
CLJ44-FS-523	9/26/95	1222		P-28	AG/RM
CLJ44-FS-524	9/26/95	710		P-28	AG/RM
CLJ44-FS-525	9/26/95	154	P-12		AG/RM
CLJ44-FS-526	9/26/95	510		P-29	AG/RM
CLJ44-FS-527	9/26/95	974		P-29	AG/RM
CLJ44-FS-528	9/26/95	210	P-12		AG/RM
CLJ44-FS-529	9/26/95	2000		P-29	AG/RM
CLJ44-FS-530	9/26/95	2000		P-29	AG/RM
CLJ44-FS-531	9/26/95	2000		P-29	AG/RM
CLJ44-FS-532	9/26/95	1177		P-29	AG/RM
CLJ44-FS-533	9/26/95	507		P-29	AG/RM
CLJ44-FS-534	9/26/95	1514		P-29	AG/RM
CLJ44-FS-535	9/26/95	2000		P-29	AG/RM
CLJ44-FS-536	9/26/95	177	P-12		AG/RM
CLJ44-FS-537	9/26/95	536		P-29	AG/RM
CLJ44-FS-538	9/26/95	420		P-29	AG/RM
CLJ44-FS-539	9/26/95	288	P-12		AG/RM
CLJ44-FS-540	9/26/95	330	P-12		AG/RM
CLJ44-FS-540D	9/26/95	342	P-12		AG/RM
CLJ44-FS-541	9/26/95	63	P-12		AG/RM
CLJ44-FS-542	9/27/95	68	P-12		AG/RM
CLJ44-FS-543	9/27/95	104	P-13		AG/RM
CLJ44-FS-544	9/27/95	39	P-13		AG/RM
CLJ44-FS-545	9/27/95	101	P-13		AG/RM
CLJ44-FS-546	9/27/95	159	P-13		AG/RM
CLJ44-FS-547	9/27/95	212	P-13		AG/RM
CLJ44-FS-548	9/27/95	99	P-13		AG/RM
CLJ44-FS-549	9/27/95	172	P-13		AG/RM
CLJ44-FS-550	9/27/95	66	P-13		AG/RM
CLJ44-FS-551	9/27/95	79	P-13		AG/RM
CLJ44-FS-552	9/27/95	107	P-13		AG/RM
CLJ44-FS-553	9/27/95	56	P-13		AG/RM
CLJ44-FS-554	9/27/95	154	P-13		AG/RM
CLJ44-FS-555	9/27/95	119	P-13		AG/RM

Sample ID	Date	KIT Conc. (ppm)	Clean Pile	Dirty Pile	Analyst
CLJ44-FS-556	9/27/95	595		P-29	AG/RM
CLJ44-FS-557	9/27/95	1137		P-29	AG/RM
CLJ44-FS-558	9/27/95	472		P-30	AG/RM
CLJ44-FS-559	9/27/95	291	P-14		AG/RM
CLJ44-FS-560	9/27/95	1924		P-30	AG/RM
CLJ44-FS-560D	9/27/95	2000		P-30	AG/RM
CLJ44-FS-561	9/27/95	482		P-30	AG/RM
CLJ44-FS-562	9/27/95	2000		P-30	AG/RM
CLJ44-FS-563	9/27/95	2000		P-30	AG/RM
CLJ44-FS-564	9/27/95	2000		P-30	AG/RM
CLJ44-FS-565	9/27/95	1148		P-30	AG/RM
CLJ44-FS-566	9/27/95	125	P-14		AG/RM
CLJ44-FS-567	9/27/95	2000		P-30	AG/RM
CLJ44-FS-568	9/27/95	414		P-30	AG/RM
CLJ44-FS-569	9/27/95	663		P-30	AG/RM
CLJ44-FS-570	9/27/95	815		P-30	AG/RM
CLJ44-FS-571	9/27/95	574		P-30	AG/RM
CLJ44-FS-572	9/27/95	2000		P-30	AG/RM
CLJ44-FS-573	9/27/95	2000		P-31	AG/RM
CLJ44-FS-574	9/27/95	2000		P-31	AG/RM
CLJ44-FS-575	9/27/95	2000		P-31	AG/RM
CLJ44-FS-576	9/27/95	941		P-31	AG/RM
CLJ44-FS-577	9/27/95	2000		P-31	AG/RM
CLJ44-FS-578	9/27/95	2000		P-31	AG/RM
CLJ44-FS-579	9/27/95	2000		P-31	AG/RM
CLJ44-FS-580	9/27/95	2000		P-31	AG/RM
CLJ44-FS-580D	9/27/95	2000		P-31	AG/RM
CLJ44-FS-581	9/27/95	980		P-31	AG/RM
CLJ44-FS-582	9/27/95	1139		P-31	AG/RM
CLJ44-FS-583	9/27/95	2000		P-31	AG/RM
CLJ44-FS-584	9/27/95	692		P-31	AG/RM
CLJ44-FS-585	9/27/95	1496		P-31	AG/RM
CLJ44-FS-586	9/27/95	2000		P-32	AG/RM
CLJ44-FS-587	9/27/95	204	P-14		AG/RM
CLJ44-FS-588	9/27/95	846		P-32	AG/RM
CLJ44-FS-589	9/27/95	2000		P-32	AG/RM
CLJ44-FS-590	9/27/95	2000		P-32	AG/RM
CLJ44-FS-591	9/27/95	61	P-14		AG/RM
CLJ44-FS-592	9/27/95	72	P-14		AG/RM
CLJ44-FS-593	9/27/95	49	P-14		AG/RM
CLJ44-FS-594	9/27/95	958		P-32	AG/RM
CLJ44-FS-595	9/27/95	254	P-14		AG/RM
CLJ44-FS-596	9/27/95	568		P-32	AG/RM
CLJ44-FS-597	9/27/95	2000		P-32	AG/RM
CLJ44-FS-598	9/27/95	1737		P-32	AG/RM
CLJ44-FS-599	9/27/95	2000		P-32	AG/RM
CLJ44-FS-600	9/27/95	1707		P-32	AG/RM
CLJ44-FS-600D	9/27/95	1556		P-32	AG/RM

<u>Sample ID</u>	<u>Date</u>	<u>KIT Conc. (ppm)</u>	<u>Clean Pile</u>	<u>Dirty Pile</u>	<u>Analyst</u>
CLJ44-FS-601	9/27/95	2000		P-32	AG/RM
CLJ44-FS-602	9/27/95	2000		P-32	AG/RM
CLJ44-FS-603	9/27/95	2000		P-32	AG/RM
CLJ44-FS-604	9/27/95	2000		P-33	AG/RM
CLJ44-FS-605	9/27/95	174	P-14		AG/RM
CLJ44-FS-606	9/27/95	2000		P-33	AG/RM
CLJ44-FS-607	9/27/95	2000		P-33	AG/RM
CLJ44-FS-608	9/27/95	1962		P-33	AG/RM
CLJ44-FS-609	9/27/95	931		P-33	AG/RM
CLJ44-FS-610	9/27/95	1215		P-33	AG/RM
CLJ44-FS-611	9/27/95	1383		P-33	AG/RM
CLJ44-FS-612	9/27/95	695		P-33	AG/RM
CLJ44-FS-613	9/27/95	2000		P-33	AG/RM
CLJ44-FS-614	9/27/95	2000		P-33	AG/RM
CLJ44-FS-615	9/27/95	2000		P-33	AG/RM
CLJ44-FS-616	9/27/95	2000		P-33	AG/RM
CLJ44-FS-617	9/27/95	2000		P-33	AG/RM
CLJ44-FS-618	9/27/95	2000		P-34	AG/RM
CLJ44-FS-619	9/27/95	2000		P-34	AG/RM
CLJ44-FS-620	9/28/95	2000		P-34	AG/RM
CLJ44-FS-620D	9/28/95	2000		P-34	AG/RM
CLJ44-FS-621	9/28/95	2000		P-34	AG/RM
CLJ44-FS-622	9/28/95	2000		P-34	AG/RM
CLJ44-FS-623	9/28/95	2000		P-34	AG/RM
CLJ44-FS-624	9/28/95	2000		P-34	AG/RM
CLJ44-FS-625	9/28/95	2000		P-34	AG/RM
CLJ44-FS-626	9/28/95	2000		P-34	AG/RM
CLJ44-FS-627	9/28/95	2000		P-34	AG/RM
CLJ44-FS-628	9/28/95	2000		P-34	AG/RM
CLJ44-FS-629	9/28/95	2000		P-34	AG/RM
CLJ44-FS-630	9/28/95	2000		P-34	AG/RM
CLJ44-FS-631	9/28/95	2000		P-35	AG/RM
CLJ44-FS-632	9/28/95	2000		P-35	AG/RM
CLJ44-FS-633	9/28/95	2000		P-35	AG/RM
CLJ44-FS-634	9/28/95	2000		P-35	AG/RM
CLJ44-FS-635	9/28/95	324	P-14		AG/RM
CLJ44-FS-636	9/28/95	1024		P-35	AG/RM
CLJ44-FS-637	9/28/95	772		P-35	AG/RM
CLJ44-FS-638	9/28/95	2000		P-35	AG/RM
CLJ44-FS-639	9/28/95	2000		P-35	AG/RM
CLJ44-FS-640	9/28/95	2000		P-35	AG/RM
CLJ44-FS-640D	9/28/95	2000		P-35	AG/RM
CLJ44-FS-641	9/28/95	903		P-35	AG/RM
CLJ44-FS-642	9/28/95	623		P-35	AG/RM
CLJ44-FS-643	9/28/95	2000		P-35	AG/RM
CLJ44-FS-644	9/28/95	370		P-35	AG/RM
CLJ44-FS-645	9/28/95	981		P-35	AG/RM
CLJ44-FS-646	9/28/95	2000		P-35	AG/RM

Sample ID	Date	KIT Conc. (ppm)	Clean Pile	Dirty Pile	Analyst
CLJ44-FS-647	9/28/95	2000		P-36	AG/RM
CLJ44-FS-648	9/28/95	1118		P-36	AG/RM
CLJ44-FS-649	9/28/95	253	P-14		AG/RM
CLJ44-FS-650	9/28/95	844		P-36	AG/RM
CLJ44-FS-651	9/28/95	937		P-36	AG/RM
CLJ44-FS-652	9/28/95	2000		P-36	AG/RM
CLJ44-FS-653	9/28/95	2000		P-36	AG/RM
CLJ44-FS-654	9/28/95	2000		P-36	AG/RM
CLJ44-FS-655	9/28/95	2000		P-36	AG/RM
CLJ44-FS-656	9/28/95	990		P-36	AG/RM
CLJ44-FS-657	9/28/95	1636		P-36	AG/RM
CLJ44-FS-658	9/28/95	874		P-36	AG/RM
CLJ44-FS-659	9/28/95	1144		P-36	AG/RM
CLJ44-FS-660	9/28/95	1723		P-36	AG/RM
CLJ44-FS-660D	9/28/95	1809		P-36	AG/RM
CLJ44-FS-661	9/28/95	921		P-36	AG/RM
CLJ44-FS-662	9/28/95	2000		P-36	AG/RM
CLJ44-FS-663	9/28/95	2000		P-37	AG/RM
CLJ44-FS-664	9/28/95	1359		P-37	AG/RM
CLJ44-FS-665	9/28/95	2000		P-37	AG/RM
CLJ44-FS-666	9/28/95	2000		P-37	AG/RM
CLJ44-FS-667	9/28/95	1869		P-37	AG/RM
CLJ44-FS-668	9/28/95	1991		P-37	AG/RM
CLJ44-FS-669	9/28/95	1637		P-37	AG/RM
CLJ44-FS-670	9/28/95	2000		P-37	AG/RM
CLJ44-FS-671	9/28/95	2000		P-37	AG/RM
CLJ44-FS-672	9/28/95	840		P-37	AG/RM
CLJ44-FS-673	9/28/95	200		P-38	AG/RM
CLJ44-FS-674	9/28/95	775		P-38	AG/RM
CLJ44-FS-675	9/28/95	1609		P-38	AG/RM
CLJ44-FS-676	9/28/95	2000		P-38	AG/RM
CLJ44-FS-677	9/28/95	2000		P-38	AG/RM
CLJ44-FS-678	9/28/95	148	P-14		AG/RM
CLJ44-FS-679	9/28/95	2000		P-38	AG/RM
CLJ44-FS-680	9/28/95	2000		P-38	AG/RM
CLJ44-FS-680D	9/28/95	2000		P-38	AG/RM
CLJ44-FS-681	9/29/95	2000		P-38	AG/RM
CLJ44-FS-682	9/29/95	2000		P-38	AG/RM
CLJ44-FS-683	9/29/95	1459		P-38	AG/RM
CLJ44-FS-684	9/29/95	2000		P-38	AG/RM
CLJ44-FS-685	9/29/95	1212		P-38	AG/RM
CLJ44-FS-686	9/29/95	39	P-14		AG/RM
CLJ44-FS-687	9/29/95	87	P-15		AG/RM
CLJ44-FS-688	9/29/95	44	P-15		AG/RM
CLJ44-FS-689	9/29/95	108	P-15		AG/RM
CLJ44-FS-690	9/29/95	2000		P-38	AG/RM
CLJ44-FS-691	9/29/95	2000		P-39	AG/RM
CLJ44-FS-692	9/29/95	1914		P-39	AG/RM

Sample ID	Date	KIT Conc. (ppm)	Clean Pile	Dirty Pile	Analyst
CLJ44-FS-693	9/29/95	127	P-15		AG/RM
CLJ44-FS-694	9/29/95	2000		P-39	AG/RM
CLJ44-FS-695	9/29/95	2000		P-39	AG/RM
CLJ44-FS-696	9/29/95	1462	P-15		AG/RM
CLJ44-FS-697	9/29/95	54		P-39	AG/RM
CLJ44-FS-698	9/29/95	2000		P-39	AG/RM
CLJ44-FS-699	9/29/95	2000	P-15		AG/RM
CLJ44-FS-700	9/29/95	283	P-15		AG/RM
CLJ44-FS-700D	9/29/95	293		P-39	AG/RM
CLJ44-FS-701	9/29/95	2000		P-39	AG/RM
CLJ44-FS-702	9/29/95	2000		P-39	AG/RM
CLJ44-FS-703	9/29/95	2000		P-39	AG/RM
CLJ44-FS-704	9/29/95	2000		P-39	AG/RM
CLJ44-FS-705	9/29/95	806		P-39	AG/RM
CLJ44-FS-706	9/29/95	124	P-15		AG/RM
CLJ44-FS-707	9/29/95	2000		P-39	AG/RM
CLJ44-FS-708	9/29/95	129	P-15		AG/RM
CLJ44-FS-709	9/29/95	79	P-15		AG/RM
CLJ44-FS-710	9/29/95	2000		P-40	AG/RM
CLJ44-FS-711	9/29/95	726		P-40	AG/RM
CLJ44-FS-712	9/29/95	86	P-15		AG/RM
CLJ44-FS-713	9/29/95	100	P-15		AG/RM
CLJ44-FS-714	9/29/95	44	P-15		AG/RM
CLJ44-FS-715	9/29/95	54	P-15		AG/RM
CLJ44-FS-716	9/29/95	47	P-16		AG/RM
CLJ44-FS-717	9/29/95	2000		P-40	AG/RM
CLJ44-FS-718	9/29/95	34	P-16		AG/RM
CLJ44-FS-719	9/29/95	889		P-40	AG/RM
CLJ44-FS-720	9/29/95	908		P-40	AG/RM
CLJ44-FS-720D	9/29/95	1001		P-40	AG/RM
CLJ44-FS-721	9/29/95	198	P-16		AG/RM
CLJ44-FS-722	9/29/95	42	P-16		AG/RM
CLJ44-FS-723	9/29/95	2000		P-40	AG/RM
CLJ44-FS-724	9/29/95	235	P-16		AG/RM
CLJ44-FS-725	9/29/95	2000		P-40	AG/RM
CLJ44-FS-726	9/29/95	225	P-16		AG/RM
CLJ44-FS-727	9/29/95	40	P-16		AG/RM
CLJ44-FS-728	9/29/95	23	P-16		AG/RM
CLJ44-FS-729	9/29/95	64	P-16		AG/RM
CLJ44-FS-730	9/29/95	286	P-16		AG/RM
CLJ44-FS-731	9/29/95	2000		P-40	AG/RM
CLJ44-FS-732	9/29/95	2000		P-40	AG/RM
CLJ44-FS-733	9/29/95	89	P-16		AG/RM
CLJ44-FS-734	9/29/95	2000		P-40	AG/RM
CLJ44-FS-735	9/29/95	2000		P-40	AG/RM
CLJ44-FS-736	9/29/95	2000		P-40	AG/RM
CLJ44-FS-737	9/29/95	1762		P-40	AG/RM
CLJ44-FS-738	9/29/95	2000		P-41	AG/RM

Sample ID	Date	KIT Conc. (ppm)	Clean Pile	Dirty Pile	Analyst
CLJ44-FS-739	9/29/95	2000		P-41	AG/RM
CLJ44-FS-740	9/29/95	251	P-16		AG/RM
CLJ44-FS-740D	9/29/95	223	P-16		AG/RM
CLJ44-FS-741	9/29/95	68	P-16		AG/RM
CLJ44-FS-742	9/29/95	237	P-17		AG/RM
CLJ44-FS-743	9/29/95	138	P-17		AG/RM
CLJ44-FS-744	9/29/95	188	P-17		AG/RM
CLJ44-FS-745	9/29/95	708		P-41	AG/RM
CLJ44-FS-746	10/2/95	48	P-17		AG/RM
CLJ44-FS-747	10/2/95	151	P-17		AG/RM
CLJ44-FS-748	10/2/95	97	P-17		AG/RM
CLJ44-FS-749	10/2/95	145	P-17		AG/RM
CLJ44-FS-750	10/2/95	157	P-17		AG/RM
CLJ44-FS-751	10/2/95	111	P-17		AG/RM
CLJ44-FS-752	10/2/95	108	P-17		AG/RM
CLJ44-FS-753	10/2/95	226	P-17		AG/RM
CLJ44-FS-754	10/2/95	1566		P-41	AG/RM
CLJ44-FS-755	10/2/95	199	P-17		AG/RM
CLJ44-FS-756	10/2/95	226	P-17		AG/RM
CLJ44-FS-757	10/2/95	2000		P-41	AG/RM
CLJ44-FS-758	10/2/95	2000		P-41	AG/RM
CLJ44-FS-759	10/2/95	1279		P-41	AG/RM
CLJ44-FS-760	10/2/95	2000		P-41	AG/RM
CLJ44-FS-760D	10/2/95	2000		P-41	AG/RM
CLJ44-FS-761	10/2/95	2000		P-41	AG/RM
CLJ44-FS-762	10/2/95	899		P-41	AG/RM
CLJ44-FS-763	10/2/95	993		P-41	AG/RM
CLJ44-FS-764	10/2/95	2000		P-41	AG/RM
CLJ44-FS-765	10/2/95	2000		P-41	AG/RM
CLJ44-FS-766	10/2/95	178	P-18		AG/RM
CLJ44-FS-767	10/2/95	1824		P-42	AG/RM
CLJ44-FS-768	10/2/95	1642		P-42	AG/RM
CLJ44-FS-769	10/2/95	2000		P-42	AG/RM
CLJ44-FS-770	10/2/95	2000		P-42	AG/RM
CLJ44-FS-771	10/2/95	985		P-42	AG/RM
CLJ44-FS-772	10/2/95	2000		P-42	AG/RM
CLJ44-FS-773	10/2/95	2000		P-42	AG/RM
CLJ44-FS-774	10/2/95	2000		P-42	AG/RM
CLJ44-FS-775	10/2/95	2000		P-42	AG/RM
CLJ44-FS-776	10/2/95	2000		P-42	AG/RM
CLJ44-FS-777	10/2/95	2000		P-42	AG/RM
CLJ44-FS-778	10/2/95	2000		P-42	AG/RM
CLJ44-FS-779	10/2/95	2000		P-42	AG/RM
CLJ44-FS-780	10/2/95	1963		P-43	AG/RM
CLJ44-FS-780D	10/2/95	2000		P-43	AG/RM
CLJ44-FS-781	10/2/95	2000		P-43	AG/RM
CLJ44-FS-782	10/2/95	2000		P-43	AG/RM
CLJ44-FS-783	10/2/95	2000		P-43	AG/RM

Sample ID	Date	KIT Conc. (ppm)	Clean Pile	Dirty Pile	Analyst
CLJ44-FS-784	10/2/95	2000		P-43	AG/RM
CLJ44-FS-785	10/2/95	2000		P-43	AG/RM
CLJ44-FS-786	10/2/95	2000		P-43	AG/RM
CLJ44-FS-787	10/2/95	2000		P-43	AG/RM
CLJ44-FS-788	10/2/95	2000		P-43	AG/RM
CLJ44-FS-789	10/2/95	1688		P-43	AG/RM
CLJ44-FS-790	10/2/95	2000		P-43	AG/RM
CLJ44-FS-791	10/2/95	2000		P-43	AG/RM
CLJ44-FS-792	10/2/95	2000		P-43	AG/RM
CLJ44-FS-793	10/2/95	2000		P-44	AG/RM
CLJ44-FS-794	10/2/95	2000		P-44	AG/RM
CLJ44-FS-795	10/2/95	2000		P-44	AG/RM
CLJ44-FS-796	10/2/95	1356		P-44	AG/RM
CLJ44-FS-797	10/2/95	2000		P-44	AG/RM
CLJ44-FS-798	10/2/95	2000		P-44	AG/RM
CLJ44-FS-799	10/2/95	520		P-44	AG/RM
CLJ44-FS-800	10/2/95	69	P-18		AG/RM
CLJ44-FS-800D	10/2/95	102	P-18		AG/RM
CLJ44-FS-801	10/2/95	497		P-44	AG/RM
CLJ44-FS-802	10/2/95	89	P-18		AG/RM
CLJ44-FS-803	10/2/95	129	P-18		AG/RM
CLJ44-FS-804	10/2/95	136	P-18		AG/RM
CLJ44-FS-805	10/2/95	849		P-44	AG/RM
CLJ44-FS-806	10/2/95	175	P-18		AG/RM
CLJ44-FS-807	10/2/95	170	P-18		AG/RM
CLJ44-FS-808	10/2/95	271	P-18		AG/RM
CLJ44-FS-809	10/2/95	126	P-18		AG/RM
CLJ44-FS-810	10/2/95	142	P-18		AG/RM
CLJ44-FS-811	10/3/95	102	P-18		AG/RM
CLJ44-FS-812	10/3/95	1012		P-44	AG/RM
CLJ44-FS-813	10/3/95	470		P-44	AG/RM
CLJ44-FS-814	10/3/95	624		P-44	AG/RM
CLJ44-FS-815	10/3/95	578		P-44	AG/RM
CLJ44-FS-816	10/3/95	141	P-18		AG/RM
CLJ44-FS-817	10/3/95	236	P-18		AG/RM
CLJ44-FS-818	10/3/95	84	P-19		AG/RM
CLJ44-FS-819	10/3/95	371	P-19		AG/RM
CLJ44-FS-820	10/3/95	103	P-19		AG/RM
CLJ44-FS-820D	10/3/95	128	P-19		AG/RM
CLJ44-FS-821	10/3/95	741		P-45	AG/RM
CLJ44-FS-822	10/3/95	874		P-45	AG/RM
CLJ44-FS-823	10/3/95	246		P-45	AG/RM
CLJ44-FS-824	10/3/95	920		P-45	AG/RM
CLJ44-FS-825	10/3/95	294	P-19		AG/RM
CLJ44-FS-826	10/3/95	799		P-45	AG/RM
CLJ44-FS-827	10/3/95	537		P-45	AG/RM
CLJ44-FS-828	10/3/95	1113		P-45	AG/RM
CLJ44-FS-829	10/3/95	623		P-45	AG/RM

<u>Sample ID</u>	<u>Date</u>	<u>KIT Conc. (ppm)</u>	<u>Clean Pile</u>	<u>Dirty Pile</u>	<u>Analyst</u>
CLJ44-FS-830	10/3/95	805		P-45	AG/RM
CLJ44-FS-831	10/3/95	1264		P-45	AG/RM
CLJ44-FS-832	10/3/95	253	P-19		AG/RM
CLJ44-FS-833	10/3/95	1572		P-45	AG/RM
CLJ44-FS-834	10/3/95	565		P-45	AG/RM
CLJ44-FS-835	10/3/95	783		P-45	AG/RM
CLJ44-FS-836	10/3/95	204	P-19		AG/RM
CLJ44-FS-837	10/3/95	2000		P-45	AG/RM
CLJ44-FS-838	10/3/95	524		P-46	AG/RM
CLJ44-FS-839	10/3/95	2000		P-46	AG/RM
CLJ44-FS-840	10/3/95	70	P-19		AG/RM
CLJ44-FS-840D	10/3/95	96	P-19		AG/RM
CLJ44-FS-841	10/3/95	110	P-19		AG/RM
CLJ44-FS-842	10/3/95	209	P-19		AG/RM
CLJ44-FS-843	10/3/95	745		P-46	AG/RM
CLJ44-FS-844	10/3/95	1925		P-46	AG/RM
CLJ44-FS-845	10/3/95	810		P-46	AG/RM
CLJ44-FS-846	10/3/95	1127		P-46	AG/RM
CLJ44-FS-847	10/3/95	2000		P-46	AG/RM
CLJ44-FS-848	10/3/95	2000		P-46	AG/RM
CLJ44-FS-849	10/3/95	189	P-19		AG/RM
CLJ44-FS-850	10/3/95	439		P-46	AG/RM
CLJ44-FS-851	10/3/95	2000		P-46	AG/RM
CLJ44-FS-852	10/3/95	97	P-19		AG/RM
CLJ44-FS-853	10/3/95	2000		P-46	AG/RM
CLJ44-FS-854	10/3/95	1977		P-46	AG/RM
CLJ44-FS-855	10/3/95	529		P-46	AG/RM
CLJ44-FS-856	10/3/95	2000		P-47	AG/RM
CLJ44-FS-857	10/3/95	2000		P-47	AG/RM
CLJ44-FS-858	10/3/95	278	P-19		AG/RM
CLJ44-FS-859	10/3/95	97	P-20		AG/RM
CLJ44-FS-860	10/3/95	132	P-20		AG/RM
CLJ44-FS-860D	10/3/95	104	P-20		AG/RM
CLJ44-FS-861	10/3/95	2000		P-47	AG/RM
CLJ44-FS-862	10/3/95	299	P-20		AG/RM
CLJ44-FS-863	10/3/95	139	P-20		AG/RM
CLJ44-FS-864	10/3/95	318	P-20		AG/RM
CLJ44-FS-865	10/3/95	223	P-20		AG/RM
CLJ44-FS-866	10/3/95	280	P-20		AG/RM
CLJ44-FS-867	10/3/95	53	P-20		AG/RM
CLJ44-FS-868	10/3/95	76	P-20		AG/RM
CLJ44-FS-869	10/3/95	135	P-20		AG/RM
CLJ44-FS-870	10/3/95	489		P-47	AG/RM
CLJ44-FS-871	10/3/95	531		P-47	AG/RM
CLJ44-FS-872	10/3/95	2000		P-47	AG/RM
CLJ44-FS-873	10/3/95	758		P-47	AG/RM
CLJ44-FS-874	10/3/95	1555		P-47	AG/RM
CLJ44-FS-875	10/3/95	129	P-20		AG/RM

Sample ID	Date	KIT Conc. (ppm)	Clean File	Dirty File	Analyst
CLJ44-FS-876	10/4/95	39	P-20		AG/RM
CLJ44-FS-877	10/4/95	6	P-20		AG/RM
CLJ44-FS-878	10/4/95	1434		P-47	AG/RM
CLJ44-FS-879	10/4/95	322	P-21		AG/RM
CLJ44-FS-880	10/4/95	70	P-21		AG/RM
CLJ44-FS-880D	10/4/95	95	P-21		AG/RM
CLJ44-FS-881	10/4/95	108	P-21		AG/RM
CLJ44-FS-882	10/4/95	66	P-21		AG/RM
CLJ44-FS-883	10/4/95	187	P-21		AG/RM
CLJ44-FS-884	10/4/95	70	P-21		AG/RM
CLJ44-FS-885	10/4/95	68	P-21		AG/RM
CLJ44-FS-886	10/4/95	66	P-21		AG/RM
CLJ44-FS-887	10/4/95	456		P-47	AG/RM
CLJ44-FS-888	10/4/95	1603		P-47	AG/RM
CLJ44-FS-889	10/4/95	1951		P-47	AG/RM
CLJ44-FS-890	10/4/95	502		P-47	AG/RM
CLJ44-FS-891	10/4/95	58	P-21		AG/RM
CLJ44-FS-892	10/4/95	96	P-21		AG/RM
CLJ44-FS-893	10/4/95	53	P-21		AG/RM
CLJ44-FS-894	10/4/95	2000		P-48	AG/RM
CLJ44-FS-895	10/4/95	164	P-21		AG/RM
CLJ44-FS-896	10/4/95	820		P-48	AG/RM
CLJ44-FS-897	10/4/95	86	P-21		AG/RM
CLJ44-FS-898	10/4/95	27	P-22		AG/RM
CLJ44-FS-899	10/4/95	168	P-22		AG/RM
CLJ44-FS-900	10/4/95	638		P-48	AG/RM
CLJ44-FS-900D	10/4/95	662		P-48	AG/RM
CLJ44-FS-901	10/4/95	2000		P-48	AG/RM
CLJ44-FS-902	10/4/95	80	P-22		AG/RM
CLJ44-FS-903	10/4/95	2000		P-48	AG/RM
CLJ44-FS-904	10/4/95	331	P-22		AG/RM
CLJ44-FS-905	10/4/95	2000		P-48	AG/RM
CLJ44-FS-906	10/4/95	950		P-48	AG/RM
CLJ44-FS-907	10/4/95	68	P-22		AG/RM
CLJ44-FS-908	10/4/95	1144		P-48	AG/RM
CLJ44-FS-909	10/4/95	626		P-48	AG/RM
CLJ44-FS-910	10/4/95	514		P-48	AG/RM
CLJ44-FS-911	10/4/95	1123		P-48	AG/RM
CLJ44-FS-912	10/4/95	364	P-22		AG/RM
CLJ44-FS-913	10/4/95	519		P-48	AG/RM
CLJ44-FS-914	10/4/95	224	P-22		AG/RM
CLJ44-FS-915	10/4/95	335	P-22		AG/RM
CLJ44-FS-916	10/4/95	318	P-22		AG/RM
CLJ44-FS-917	10/4/95	149	P-22		AG/RM
CLJ44-FS-918	10/4/95	288	P-22		AG/RM
CLJ44-FS-919	10/4/95	171	P-22		AG/RM
CLJ44-FS-920	10/4/95	245	P-22		AG/RM
CLJ44-FS-920D	10/4/95	224	P-22		AG/RM

Sample ID	Date	KIT Conc. (ppm)	Clean Pile	Dirty Pile	Analyst
CLJ44-FS-921	10/4/95	2000		P-48	AG/RM
CLJ44-FS-922	10/4/95	2000		P-49	AG/RM
CLJ44-FS-923	10/4/95	2000		P-49	AG/RM
CLJ44-FS-924	10/4/95	700		P-49	AG/RM
CLJ44-FS-925	10/4/95	1617		P-49	AG/RM
CLJ44-FS-926	10/4/95	779		P-49	AG/RM
CLJ44-FS-927	10/4/95	2000		P-49	AG/RM
CLJ44-FS-928	10/5/95	1592		P-49	AG/RM
CLJ44-FS-929	10/5/95	2000		P-49	AG/RM
CLJ44-FS-930	10/5/95	2000		P-49	AG/RM
CLJ44-FS-931	10/5/95	917		P-49	AG/RM
CLJ44-FS-932	10/5/95	2000		P-49	AG/RM
CLJ44-FS-933	10/5/95	2000		P-49	AG/RM
CLJ44-FS-934	10/5/95	68	P-23		AG/RM
CLJ44-FS-935	10/5/95	35	P-23		AG/RM
CLJ44-FS-936	10/5/95	1767		P-49	AG/RM
CLJ44-FS-937	10/5/95	2000		P-50	AG/RM
CLJ44-FS-938	10/5/95	2000		P-50	AG/RM
CLJ44-FS-939	10/5/95	2000		P-50	AG/RM
CLJ44-FS-940	10/5/95	2000		P-50	AG/RM
CLJ44-FS-940D	10/5/95	2000		P-50	AG/RM
CLJ44-FS-941	10/5/95	2000		P-50	AG/RM
CLJ44-FS-942	10/5/95	1343		P-50	AG/RM
CLJ44-FS-943	10/5/95	2000		P-50	AG/RM
CLJ44-FS-944	10/5/95	2000		P-50	AG/RM
CLJ44-FS-945	10/5/95	2000		P-50	AG/RM
CLJ44-FS-946	10/5/95	790		P-50	AG/RM
CLJ44-FS-947	10/5/95	893		P-50	AG/RM
CLJ44-FS-948	10/5/95	93	P-23		AG/RM
CLJ44-FS-949	10/5/95	10	P-23		AG/RM
CLJ44-FS-950	10/5/95	2000		P-50	AG/RM
CLJ44-FS-951	10/5/95	2000		P-50	AG/RM
CLJ44-FS-952	10/5/95	2000		P-51	AG/RM
CLJ44-FS-953	10/5/95	2000		P-51	AG/RM
CLJ44-FS-954	10/5/95	2000		P-51	AG/RM
CLJ44-FS-955	10/5/95	2000		P-51	AG/RM
CLJ44-FS-956	10/5/95	2000		P-51	AG/RM
CLJ44-FS-957	10/5/95	13125		P-51	AG/RM
CLJ44-FS-958	10/5/95	2000		P-51	AG/RM
CLJ44-FS-959	10/5/95	2000		P-51	AG/RM
CLJ44-FS-960	10/5/95	2000		P-51	AG/RM
CLJ44-FS-960D	10/5/95	2000		P-51	AG/RM
CLJ44-FS-961	10/5/95	2000		P-51	AG/RM
CLJ44-FS-962	10/5/95	2000		P-51	AG/RM
CLJ44-FS-963	10/5/95	2000		P-51	AG/RM
CLJ44-FS-964	10/5/95	2000		P-51	AG/RM
CLJ44-FS-965	10/5/95	2000		P-52	AG/RM
CLJ44-FS-966	10/5/95	2000		P-52	AG/RM

<u>Sample ID</u>	<u>Date</u>	<u>KIT Conc. (ppm)</u>	<u>Clean File</u>	<u>Dirty File</u>	<u>Analyst</u>
CLJ44-FS-967	10/5/95	2000		P-52	AG/RM
CLJ44-FS-968	10/5/95	931		P-52	AG/RM
CLJ44-FS-969	10/5/95	2000		P-52	AG/RM
CLJ44-FS-970	10/5/95	30	P-23		AG/RM
CLJ44-FS-971	10/5/95	14	P-23		AG/RM
CLJ44-FS-972	10/5/95	736		P-52	AG/RM
CLJ44-FS-973	10/5/95	25	P-23		AG/RM
CLJ44-FS-974	10/5/95	20	P-23		AG/RM
CLJ44-FS-975	10/5/95	46	P-23		AG/RM
CLJ44-FS-976	10/5/95	113	P-23		AG/RM
CLJ44-FS-977	10/5/95	2000		P-52	AG/RM
CLJ44-FS-978	10/5/95	34	P-23		AG/RM
CLJ44-FS-979	10/5/95	2000		P-52	AG/RM
CLJ44-FS-980	10/6/95	2000		P-52	AG/RM
CLJ44-FS-980D	10/6/95	2000		P-52	AG/RM
CLJ44-FS-981	10/6/95	2000		P-52	AG/RM
CLJ44-FS-982	10/6/95	2000		P-52	AG/RM
CLJ44-FS-983	10/6/95	679		P-52	AG/RM
CLJ44-FS-984	10/6/95	2000		P-52	AG/RM
CLJ44-FS-985	10/6/95	2000		P-53	AG/RM
CLJ44-FS-986	10/6/95	2000		P-53	AG/RM
CLJ44-FS-987	10/6/95	2000		P-53	AG/RM
CLJ44-FS-988	10/6/95	2000		P-53	AG/RM
CLJ44-FS-989	10/6/95	2000		P-53	AG/RM
CLJ44-FS-990	10/6/95	2000		P-53	AG/RM
CLJ44-FS-991	10/6/95	586		P-53	AG/RM
CLJ44-FS-992	10/6/95	1210		P-53	AG/RM
CLJ44-FS-993	10/6/95	210	P-23		AG/RM
CLJ44-FS-994	10/6/95	2000		P-53	AG/RM
CLJ44-FS-995	10/6/95	2000		P-53	AG/RM
CLJ44-FS-996	10/6/95	869		P-53	AG/RM
CLJ44-FS-997	10/6/95	1118		P-53	AG/RM
CLJ44-FS-998	10/6/95	2000		P-53	AG/RM
CLJ44-FS-999	10/6/95	2000		P-54	AG/RM
CLJ44-FS-1000	10/6/95	135	P-23		AG/RM
CLJ44-FS-1000D	10/6/95	150	P-23		AG/RM
CLJ44-FS-1001	10/6/95	1523		P-54	AG/RM
CLJ44-FS-1002	10/6/95	2000		P-54	AG/RM
CLJ44-FS-1003	10/6/95	1811		P-54	AG/RM
CLJ44-FS-1004	10/6/95	2000		P-54	AG/RM
CLJ44-FS-1005	10/6/95	2000		P-54	AG/RM
CLJ44-FS-1006	10/6/95	2000		P-54	AG/RM
CLJ44-FS-1007	10/6/95	2000		P-54	AG/RM
CLJ44-FS-1008	10/6/95	2000		P-54	AG/RM
CLJ44-FS-1009	10/6/95	2000		P-54	AG/RM
CLJ44-FS-1010	10/6/95	2000		P-54	AG/RM
CLJ44-FS-1011	10/6/95	2000		P-54	AG/RM
CLJ44-FS-1012	10/6/95	2000		P-54	AG/RM

Sample ID	Date	KIT Conc. (ppm)	Clean Pile	Dirty Pile	Analyst
CLJ44-FS-1013	10/6/95	89	P-24		AG/RM
CLJ44-FS-1014	10/6/95	223	P-24		AG/RM
CLJ44-FS-1015	10/6/95	2000		P-55	AG/RM
CLJ44-FS-1016	10/6/95	70	P-24		AG/RM
CLJ44-FS-1017	10/6/95	2000		P-55	AG/RM
CLJ44-FS-1018	10/6/95	437		P-55	AG/RM
CLJ44-FS-1019	10/6/95	2000		P-55	AG/RM
CLJ44-FS-1020	10/6/95	2000		P-55	AG/RM
CLJ44-FS-1020D	10/6/95	2000		P-55	AG/RM
CLJ44-FS-1021	10/6/95	184	P-24		AG/RM
CLJ44-FS-1022	10/6/95	2000		P-55	AG/RM
CLJ44-FS-1023	10/6/95	65	P-24		AG/RM
CLJ44-FS-1024	10/6/95	585		P-55	AG/RM
CLJ44-FS-1025	10/6/95	2000		P-55	AG/RM
CLJ44-FS-1026	10/6/95	2000		P-55	AG/RM
CLJ44-FS-1027	10/6/95	2000		P-55	AG/RM
CLJ44-FS-1028	10/6/95	2000		P-55	AG/RM
CLJ44-FS-1029	10/6/95	1488		P-55	AG/RM
CLJ44-FS-1030	10/6/95	2000		P-55	AG/RM
CLJ44-FS-1031	10/6/95	2000		P-56	AG/RM
CLJ44-FS-1032	10/6/95	1651		P-56	AG/RM
CLJ44-FS-1033	10/6/95	2000		P-56	AG/RM
CLJ44-FS-1034	10/6/95	48	P-24		AG/RM
CLJ44-FS-1035	10/6/95	2000		P-56	AG/RM
CLJ44-FS-1036	10/6/95	2000		P-56	AG/RM
CLJ44-FS-1037	10/6/95	2000		P-56	AG/RM
CLJ44-FS-1038	10/6/95	2000		P-56	AG/RM
CLJ44-FS-1039	10/6/95	2000		P-56	AG/RM
CLJ44-FS-1040	10/6/95	2000		P-56	AG/RM
CLJ44-FS-1040D	10/6/95	2000		P-56	AG/RM
CLJ44-FS-1041	10/6/95	2000		P-56	AG/RM
CLJ44-FS-1042	10/6/95	2000		P-56	AG/RM
CLJ44-FS-1043	10/6/95	51			AG/RM
CLJ44-FS-1044	10/9/95	1121		P-56	AG/RM
CLJ44-FS-1045	10/9/95	2000		P-56	AG/RM
CLJ44-FS-1046	10/9/95	1701		P-57	AG/RM
CLJ44-FS-1047	10/9/95	555		P-57	AG/RM
CLJ44-FS-1048	10/9/95	32	P-24		AG/RM
CLJ44-FS-1049	10/9/95	137	P-24		AG/RM
CLJ44-FS-1050	10/9/95	89	P-24		AG/RM
CLJ44-FS-1051	10/9/95	1959		P-57	AG/RM
CLJ44-FS-1052	10/9/95	48	P-24		AG/RM
CLJ44-FS-1053	10/9/95	1372		P-57	AG/RM
CLJ44-FS-1054	10/9/95	2000		P-57	AG/RM
CLJ44-FS-1055	10/9/95	2000		P-57	AG/RM
CLJ44-FS-1056	10/9/95	2000		P-57	AG/RM
CLJ44-FS-1057	10/9/95	2000		P-57	AG/RM
CLJ44-FS-1058	10/9/95	2000		P-57	AG/RM

Sample ID	Date	KIT Conc. (ppm)	Clean File	Dirty File	Analyst
CLJ44-FS-1059	10/9/95	2000		P-57	AG/RM
CLJ44-FS-1060	10/9/95	2000		P-57	AG/RM
CLJ44-FS-1060D	10/9/95	2000		P-57	AG/RM
CLJ44-FS-1061	10/9/95	2000		P-57	AG/RM
CLJ44-FS-1062	10/9/95	2000		P-57	AG/RM
CLJ44-FS-1063	10/9/95	2000		P-58	AG/RM
CLJ44-FS-1064	10/9/95	2000		P-58	AG/RM
CLJ44-FS-1065	10/9/95	83	P-24		AG/RM
CLJ44-FS-1066	10/9/95	2000		P-58	AG/RM
CLJ44-FS-1067	10/9/95	1649		P-58	AG/RM
CLJ44-FS-1068	10/9/95	1792		P-58	AG/RM
CLJ44-FS-1069	10/9/95	24	P-24		AG/RM
CLJ44-FS-1070	10/9/95	87	P-25		AG/RM
CLJ44-FS-1071	10/9/95	543		P-58	AG/RM
CLJ44-FS-1072	10/9/95	108	P--25		AG/RM
CLJ44-FS-1073	10/18/95	158	P--25		AG/RM
CLJ44-FS-1074	10/18/95	2000		P-58	AG/RM
CLJ44-FS-1075	10/18/95	2000		P-58	AG/RM
CLJ44-FS-1076	10/18/95	2000		P-58	AG/RM
CLJ44-FS-1077	10/18/95	1010		P-58	AG/RM
CLJ44-FS-1078	10/18/95	38	P-25		AG/RM
CLJ44-FS-1079	10/18/95	2000		P-58	AG/RM
CLJ44-FS-1080	10/18/95	2000		P-58	AG/RM
CLJ44-FS-1080D	10/18/95	2000		P-58	AG/RM
CLJ44-FS-1081	10/18/95	2000		P-58	AG/RM
CLJ44-FS-1082	10/18/95	1583		P-59	AG/RM
CLJ44-FS-1083	10/18/95	1789		P-59	AG/RM
CLJ44-FS-1084	10/18/95	1019		P-59	AG/RM
CLJ44-FS-1085	10/18/95	227	P-25		AG/RM
CLJ44-FS-1086	10/18/95	136	P-25		AG/RM
CLJ44-FS-1087	10/18/95	155	P-25		AG/RM
CLJ44-FS-1088	10/25/95	84	P-25		AG/RM
CLJ44-FS-1089	10/25/95	271	P-25		AG/RM
CLJ44-FS-1090	10/25/95	143	P-25		AG/RM
CLJ44-FS-1091	10/25/95	268	P-25		AG/RM
CLJ44-FS-1092	10/25/95	1267		P-59	AG/RM
CLJ44-FS-1093	10/25/95	806		P-59	AG/RM
CLJ44-FS-1094	10/25/95	117	P-25		AG/RM
CLJ44-FS-1095	10/25/95	2000		P-59	AG/RM
CLJ44-FS-1096	10/25/95	2000		P-59	AG/RM
CLJ44-FS-1097	10/25/95	2000		P-59	AG/RM
CLJ44-FS-1098	10/25/95	2000		P-59	AG/RM
CLJ44-FS-1099	10/25/95	2000		P-59	AG/RM
CLJ44-FS-1100	10/25/95	2000		P-59	AG/RM
CLJ44-FS-1100D	10/25/95	2000		P-59	AG/RM
CLJ44-FS-1101	10/25/95	2000		P-59	AG/RM
CLJ44-FS-1102	10/25/95	2000		P-59	AG/RM



OHM Corporation

CHAIN-OF-CUSTODY RECORD

Form 0019
Field Technical Services
Rev. 08 89

No 116106

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME <i>Camp Geiger</i>		PROJECT LOCATION <i>Camp Geiger (Jacksonville, NC)</i>				ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS) <i>TPH-GRO TPH-DRO TCLP Metals TCLP Volatiles RCRA Area Wastes</i>		
PROJ NO <i>16487</i>	PROJECT CONTACT <i>Randy Smith</i>			PROJECT TELEPHONE NO. <i>(910) 451-2390</i>				
CLIENT'S REPRESENTATIVE <i>Vanna Marshall</i>			PROJECT MANAGER/SUPERVISOR <i>Jim Dunn</i>					
ITEM NO	SAMPLE NUMBER	DATE	TIME	COMP	GRAB		SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS
1	<i>CLJ44-BF-101</i>	<i>8/21</i>	<i>16:00</i>	<input checked="" type="checkbox"/>		<i>Composite Sample for Backfill Soils for Area C from South of Vortex</i>	<i>2 4oz 2 8oz</i>	
2	<i>CLJ44-BF-102-TB</i>	<i>8/21</i>	<i>16:00</i>		<input checked="" type="checkbox"/>	<i>Trip Blank</i>	<i>2 40ml</i>	
3								
4								
5								
6								
7								
8								
9								
10								

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
<i>1</i>	<i>102</i>	<i>Randy Smith</i>	<i>Fed-X</i>	<i>8/21</i>	<i>18:00</i>	<i>Shipped to Pace 3 day T.A.T</i>
<i>2</i>						
<i>3</i>						
<i>4</i>						<i>Steve S J</i> SAMPLER'S SIGNATURE



QUESTIONS? CALL 1-800-4FEDX

IRBIL
H. A. Inc.
H. A. INC. NUMBER

6917878472

6917878472



43
44

SENDER'S FEDERAL EXPRESS ACCOUNT NUMBER: 774-0511-
 Date: 8/21/95
 (Name) Please Print: Randy Smith
 Phone Number (Very Important): (910) 451-2594
 To (Recipient's Name) Please Print: Gretchen Franzenhorn
 Recipient's Phone Number (Very Important): (603) 926-7777

Company: JHM REMEDIATION SERVICES
 Street Address: CAMP LEJEUNE/ HOLCOMBE BLVD
 City: JACKSONVILLE State: NC ZIP Required: 28542
 Company: Pace Lab
 Exact Street Address (We Cannot Deliver to P.O. Boxes or P.O. Zip Codes.): PO Box 2130 One Lafayette Rd
 City: Hampton State: VA ZIP Required: 03842

YOUR INTERNAL BILLING REFERENCE INFORMATION (optional) (First 24 characters will appear on invoice): 16487
 IF HOLD AT FEDEX LOCATION, Print FEDEX Address Here (Not available at all locations):
 Street Address:
 City: State: ZIP Required:

PAYMENT: Bill Sender's FedEx Acct. No. Bill Recipient's FedEx Acct. No. Bill 3rd Party FedEx Acct. No. Bill Credit Card
 Cash Check

SERVICES (Check only one box) Priority Overnight <input checked="" type="checkbox"/> Standard Overnight <input type="checkbox"/> Economy Two-Day <input type="checkbox"/> Government Overnight <input type="checkbox"/> Freight Service <input type="checkbox"/> OVERNIGHT FREIGHT <input type="checkbox"/> TWO-DAY FREIGHT <input type="checkbox"/> INSTRUCTIONS (Mark appropriate boxes) <input type="checkbox"/> Dangerous Goods as per attached Shipper's Declaration <input type="checkbox"/> Dangerous Goods Shipper's Declaration not required <input type="checkbox"/> Freight only		DELIVERY AND SPECIAL HANDLING (Check services required) Weekday Service <input type="checkbox"/> HOLD AT FEDEX LOCATION WEEKDAY <input checked="" type="checkbox"/> DELIVER WEEKDAY Saturday Service <input type="checkbox"/> HOLD AT FEDEX LOCATION SATURDAY <input type="checkbox"/> DELIVER SATURDAY <input type="checkbox"/> SATURDAY PICK-UP Special Handling <input checked="" type="checkbox"/> DANGEROUS GOODS <input type="checkbox"/> DRY ICE <input type="checkbox"/> HOLIDAY DELIVERY		PACKAGES WEIGHT in Pounds (lbs) YOUR DECLARED VALUE See next SERVICE CONDITIONS, DECLARED VALUE AND LIMIT OF LIABILITY Use of this airbill constitutes your agreement to the service conditions in our current Service Guide... DIM SHIPMENT (Chargeable Weight) L x W x H Received At: <input type="checkbox"/> Regular Stop <input type="checkbox"/> Drop Box <input type="checkbox"/> B.S.C. <input type="checkbox"/> On-Call Stop <input type="checkbox"/> Station		Federal Express Use Base Charges Declared Value Charge Other 1 Other 2 Total Charges REVISION DATE 11/94 Part # 146187/146188 FORMAT #219 GBFE 7/95 219 © 1994 FEDEX PRINTED IN U.S.A.	
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6917878472 Page ___ of ___ Pages

Two completed and signed copies of this Declaration must be handed to the operator.

TRANSPORT DETAILS
 This shipment is within the limitations prescribed for: (delete not applicable)
 AIRPORT OF DEPARTURE: Jacksonville N.C.
 AIRPORT OF DESTINATION:
 SHIPMENT TYPE: (delete non-applicable)
 NON-RADIOACTIVE RADIOACTIVE

WARNING
 Failure to comply in all respects with the applicable Dangerous Goods Regulations may be in breach of the applicable law, subject to legal penalties. This Declaration must not, in any circumstances, be completed and/or signed by a consolidator, a forwarder or an IATA cargo agent.

NATURE AND QUANTITY OF DANGEROUS GOODS						
Dangerous Goods Identification						
Proper Shipping Name	Class or Division	UN or ID No.	Packing Group	Subsidiary Risk	Quantity and type of packing	Packing Inst. Authorization
Other Regulated Substances	CLASS 9	ID 8007			1 - Plastic Container 2 - 40ml vials 2 - 125ml glass jar 2 - 250ml glass jar	906

Additional Handling Information

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked, and labeled, and are in all respects in the proper condition for transport by air according to the applicable International and National Governmental Regulations.
 Name/Title of Signatory: Randy Smith/Supervisor
 Place and Date: Camp Lejeune N.C. 8/21/95
 Signature: Randy Smith
 Emergency Telephone Number (Required for U.S. Origin or Destination Shipments): 1-800-444-2467 P.O. # 9811496
 IF ACCEPTABLE FOR PASSENGER AIRCRAFT, THIS SHIPMENT CONTAINS RADIOACTIVE MATERIAL INTENDED FOR USE IN, OR INCIDENT TO, RESEARCH, MEDICAL DIAGNOSIS, OR TREATMENT.

FEDEX COPY

Field Identification: CLJ44-BF-001

Matrix: SOLID

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Total Gasoline (ug/g)	BDL	16	45122-001	08/23/95		8015(mod)/2
Total Diesel (ug/g)	6.4	3.8	45122-003	08/24/95		8015(mod), 3350/2
Corrosivity (pH, units)	4.7		45122-004	08/23/95	353	2.1.2/2
Releasable Sulfide (mg/Kg)	BDL	50	45122-004	08/23/95	295	7.3.4.2/2
Releasable Cyanide (mg/Kg)	BDL	1	45122-006	08/23/95	295	7.3.3.2/2
Flash Point (degrees F)	>150	50	45122-004	08/23/95	322	D93-80/4

Field Identification: **CLJ44-BF-002-10**

Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Total Gasoline (ug/L)	BDL	100	45122-002	08/23/95		8015(mod)/2

- References: 1) 40 CFR Part 136, Friday, October 26, 1984
 2) EPA SW 846, 3rd Edition
 4) ASTM

Field Identification: CL346 30' 00'

TCU extract
Material: ~~Soil~~ ^{Gravel} #125195

Parameter	Result	Reporting Unit	Lab No.	Date Analyzed	GL	Method Ref.
Arsenic, total (ug/g)	BDL	0.2	45122-004	08/25/95	12435	3010, 5010/2 or: 3010, 5010/
Barium, total (ug/g)	BDL	0.1	45122-004	08/25/95	12435	3010, 5010/2 or: 3010, 5010/
Cadmium, total (ug/g)	BDL	0.005	45122-004	08/25/95	12435	3010, 5010/2 or: 3010, 5010/
Chromium, total (ug/g)	BDL	0.01	45122-004	08/25/95	12435	3010, 5010/2 or: 3010, 5010/
Lead, total (ug/g)	BDL	0.05	45122-004	08/25/95	12435	3010, 5010/2 or: 3010, 5010/
Mercury, total (ug/g)	BDL	0.0043	45122-004	08/25/95	61653	7470/2 or: 7470/2 245.1/1
Selenium, total (ug/g)	BDL	0.2	45122-004	08/25/95	12435	3010, 5010/2 or: 3010, 5010/
Silver, total (ug/g)	BDL	0.05	45122-004	08/25/95	12435	3010, 5010/2 or: 3010, 5010/

mg/L
↓
Gravel #125195

Reference: 1) 40 CFR Part 136, Friday, October 26, 1984
2) EPA SW 846, 3rd Edition

TOXICITY CHARACTERISTIC LEACHING PROCEDURE
ANALYSIS FOR VOLATILE CONSTITUENTS

Laboratory number: 45122-034
Sample Designation: CLJ44-BF 001
Matrix: TCLP EXTRACT

Parameter	Result (ug/L)	Regulatory Limit (ug/L)	Reporting Limit (ug/L)
Date Analyzed: 08/25/95			
VOLATILES			
Vinyl chloride	BDL	0.2	.01
1,1-Dichloroethene	BDL	0.7	.005
1,2-Dichloroethane	BDL	0.5	.005
Chloroform	BDL	6.0	.005
Methyl ethyl ketone	BDL	300	.005
Carbon Tetrachloride	BDL	0.5	.005
Trichloroethene	BDL	0.5	.005
Benzene	BDL	0.5	.005
Tetrachloroethene	BDL	0.7	.005
Chlorobenzene	BDL	100	.005

Results uncorrected for matrix spike recovery.

TOXICITY CHARACTERISTIC LEACHING PROCEDURE
ANALYSIS FOR VOLATILE CONSTITUENTS

Laboratory number: 45122-005
Sample Designation: CLJ44-BF 032-TB
Matrix: TCLP EXTRACT

Parameter	Result (ug/L)	Regulatory Limit (ug/L)	Reporting Limit (ug/L)
VOLATILES			
	Date Analyzed: 88/25/95		
Vinyl chloride	BDL	0.2	.01
1,1-Dichloroethene	BDL	0.7	.005
1,2-Dichloroethane	BDL	0.5	.005
Chloroform	BDL	6.0	.005
Methyl ethyl ketone	BDL	200	.025
Carbon Tetrachloride	BDL	0.5	.005
Trichloroethene	BDL	0.5	.005
Benzene	BDL	0.5	.005
Tetrachloroethene	BDL	0.7	.005
Chlorobenzene	BDL	100	.005

Results uncorrected for matrix spike recovery.

Laboratory number: 45122 004
 Sample Designation: CLJ44-BF-001
 Date Extracted: 08/24/95
 Date Analyzed: 08/25/95
 Matrix: TCLP EXTRACT

Instrument File Name: >H8972

Parameter	Result (mg/L)	Regulatory Limit (mg/L)	Reporting Limit (mg/L)
Pyridine	BDL	5.0	0.05
1,4-Dichlorobenzene	BDL	7.5	0.05
2,4-Dinitrotoluene	BDL	0.13	0.05
2-Methylphenol	BDL	200	0.05
3,4-Methylphenols	BDL	200	0.05
Hexachloroethane	BDL	3.0	0.05
Nitrobenzene	BDL	2.0	0.05
Hexachlorobenzene	BDL	0.13	0.05
Pentachlorophenol	BDL	100	0.05
Hexachlorobutadiene	BDL	0.5	0.05
2,4,6-Trichlorophenol	BDL	2.0	0.05
2,4,5-Trichlorophenol	BDL	400	0.05

METHOD REFERENCE: EPA SW846, 3rd Edition
METHOD 8270

BDL = Below reporting limit



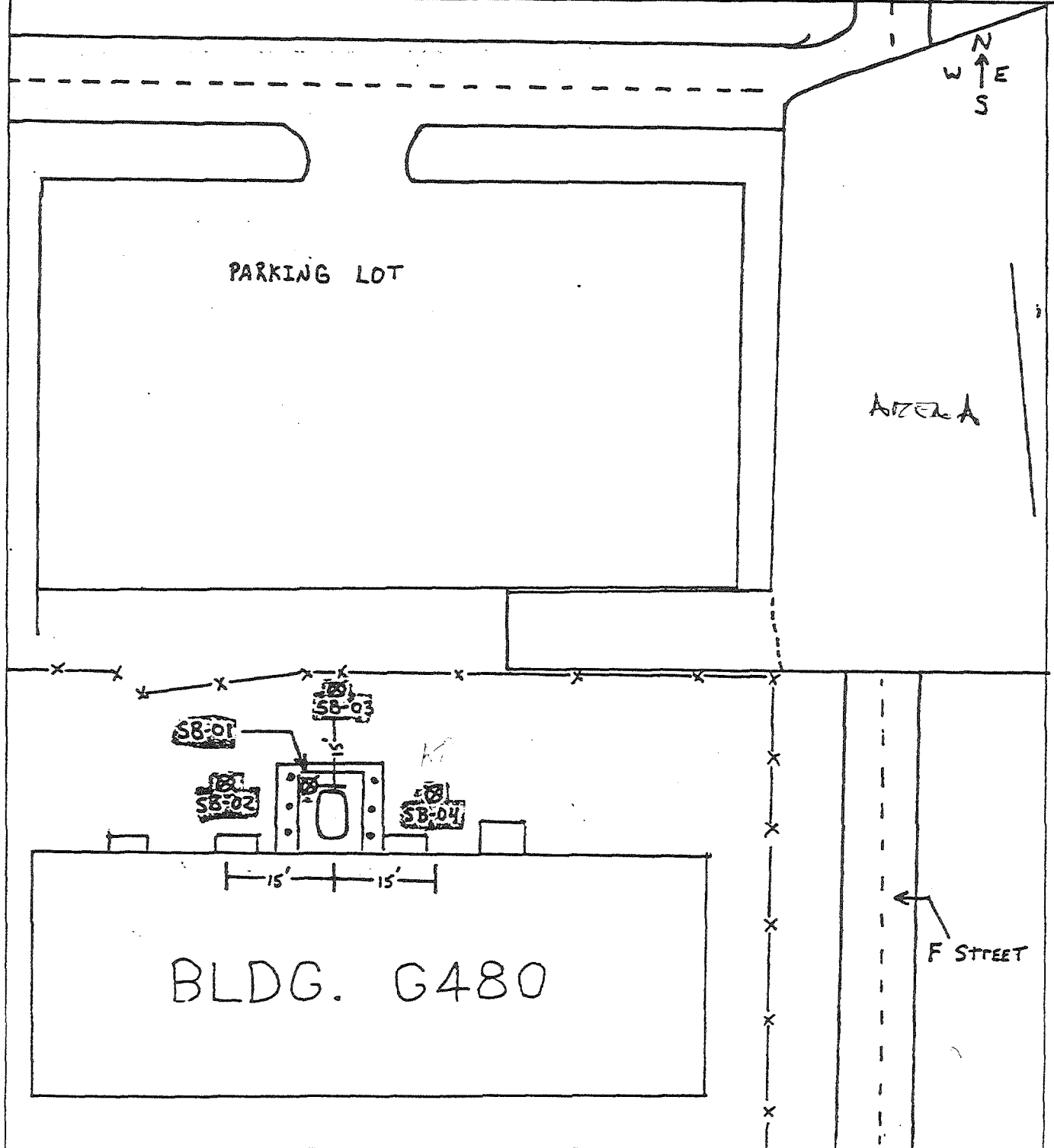
OHM Corporation

COMPUTATION SHEET

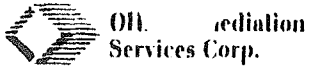
Form No. 0048
Midwest Tech. Servs.
Rev. 08.89

Page _____ of _____

Proj. No. 16487	Client LANTDIV	Location Camp Geiger	Subject AREA A D		
Preparer's Initials AG	Date 10-24-95	Reviewer's Initials	Date	Approver's Initials	Date



Sample ID	Date	Truck ID	KIT Conc. (ppm)	Clean	Dirty	Analyst
CLJ44-SB-01-1'	10-19-95	N/A	13	✓		AG
CLJ44-SB-01-2'	10-19-95	N/A	22	✓		AG
CLJ44-SB-01-3'	10-19-95	N/A	43	✓		AG
CLJ44-SB-01-4'	10-19-95	N/A	14	✓		AG
CLJ44-SB-01-5'	10-19-95	N/A	65	✓		AG
CLJ44-SB-02-1'	10-19-95	N/A	80	✓		AG
CLJ44-SB-02-2'	10-19-95	N/A	14	✓		AG
CLJ44-SB-02-3'	10-19-95	N/A	21	✓		AG
CLJ44-SB-02-4'	10-19-95	N/A	19	✓		AG
CLJ44-SB-02-5'	10-19-95	N/A	1954		✓	AG
CLJ44-SB-03-1'	10-19-95	N/A	36	✓		AG
CLJ44-SB-03-2'	10-19-95	N/A	8	✓		AG
CLJ44-SB-03-3'	10-19-95	N/A	7	✓		AG
CLJ44-SB-03-4'	10-19-95	N/A	35	✓		AG
CLJ44-SB-03-5'	10-19-95	N/A	>2000		✓	AG
CLJ44-SB-04-1'	10-19-95	N/A	59	✓		AG
CLJ44-SB-04-2'	10-19-95	N/A	18	✓		AG



CHAIN-OF-CUSTODY RECORD

LAB COPY

Form 0019
Field Technical Services
Rev. 08/89

166422

O. H. MATERIALS CORP. • P. O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME		PROJECT LOCATION		NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)	REMARKS
PROJ NO	PROJECT CONTACT	PROJECT TELEPHONE NO				
CLIENT'S REPRESENTATIVE	PROJECT MANAGER/SUPERVISOR					
ITEM NO	SAMPLE NUMBER	DATE	TIME			
Camp Lexure D.O. 44		Camp Geiger, NC				
16487	Rakesh Mishra	910-451-2599				
Jim Dunn / Randy Smith						
1	CLJ44-CC-105	10/19	1035		X	Contaminated Soil from Pile 58 of Area A.
2	CLJ44-CC-106 -RB	10/19	1045	X		Rinsate Blank
3	CLJ44-CC-107 -TB					Trip Blank
4	CLJ44-SB034	10/20	0815		X	Soil sample at 4' from Area D
5	CLJ44-SB014	10/20	0825		X	Soil sample at 4' from Area D
6	CLJ44-SB02-4	10/20	0835		X	Soil sample at 4' from Area D
7	CLJ44-SB04-4	10/20	0845		X	Soil sample at 4' from Area D
8						
9						
10						

TPH - GRD
TPH - DRO
S&P Metals
TCDF Volatile
PCRA Haz Waste
D&S
PCB
Volatile
Total Lead
Total Lead + BTEx (8240)

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1-7	<i>[Signature]</i>	FED EX Air Bil #	10/20	1300	Send Samples to Pace Lab Items 1, 2 & 4-7 24hr. TAT Item # 3 3days TAT
2						
3						
4						<i>[Signature]</i> SAMPLER'S SIGNATURE



6921490914

6921490914



SENDER'S FEDERAL EXPRESS ACCOUNT NUMBER

10/20/95

174-3371-1
 Name (Please Print) **Rakesh Mishra** (910) 451-2599
 Company **CHM REMEDIATION SERVICES**
 Street Address **CAMP LEJEUNE/ HOLCOMB BLVD**
 City **JACKSONVILLE** State **NC** ZIP Required **2 3 5 4 2**

Recipient's Name (Please Print) **Gretchen Frenzenheim** (603) 926-7777
 Company **Pace LAB**
 Exact Street Address (We Cannot Deliver to P.O. Boxes or P.O. Zip Codes.)
P O Box 2130 One Lafayette Rd
 City **Hampton** State **NH** ZIP Required **03842**

YOUR INTERNAL BILLING REFERENCE INFORMATION (optional) (First 24 characters will appear on invoice.)
Job # 16487

PAYMENT 1 Bill Sender 2 Bill Recipient's FedEx Acct. No. 3 Bill 3rd Party FedEx Acct. No. 4 Bill Credit Card
 City State ZIP Required

SERVICES (Check only one box) Priority Overnight <input checked="" type="checkbox"/> Standard Overnight <input type="checkbox"/> Economy Two-Day <input type="checkbox"/> Government Overnight <input type="checkbox"/> Freight Service <input type="checkbox"/> OVERNIGHT FREIGHT <input type="checkbox"/> TWO-DAY FREIGHT <input type="checkbox"/> INSTRUCTIONS (Mark appropriate boxes) <input type="checkbox"/> Dangerous Goods as per attached Shipper's Declaration <input type="checkbox"/> Dangerous Goods Shipper's Declaration <input type="checkbox"/> Other		DELIVERY AND SPECIAL HANDLING (Check services required) Weekday Service <input type="checkbox"/> HOLD AT FEDEX LOCATION WEEKDAY <input type="checkbox"/> DELIVER WEEKDAY Saturday Service <input type="checkbox"/> HOLD AT FEDEX LOCATION SATURDAY <input checked="" type="checkbox"/> DELIVER SATURDAY <input type="checkbox"/> SATURDAY PICK-UP Special Handling <input checked="" type="checkbox"/> DANGEROUS GOODS (Extra charges) <input type="checkbox"/> DRY ICE <input type="checkbox"/> HOLIDAY DELIVERY (Extra charges)		YOUR DECLARED VALUE DIM SHIPMENT (Chargeable Weight) L x W x H <input type="checkbox"/> Regular Size <input type="checkbox"/> Drop Box <input type="checkbox"/> C.B.S.C. <input type="checkbox"/> On-Cat Size <input type="checkbox"/> Station		SERVICE CONDITIONS, DECLARED VALUE AND LIMIT OF LIABILITY Use of this service constitutes your agreement to the service conditions in our current Service Guide, available upon request. See back of sender's copy of this form for information. Service conditions may vary for Government Overnight Service. See U.S. Government Service Guide for details. We will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, and document your actual loss for a timely claim. Limitations found in the current Federal Express Service Guide apply. Your right to recover from Federal Express for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the declared value specified on the form. Recovery cannot exceed actual documented loss. In the event of untimely delivery, Federal Express will at your request and with some limitations refund all transportation charges paid. See Service Guide for further information.		Federal Express Use Base Charges Declared Value Charge Other 1 Other 2 Total Charges REVISION DATE 11/94 Part # 146187/146188 FORMAT #219 GBFE 9/95 219 © 1994 FEDEX PRINTED IN U.S.A.	
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6921490914 Page ___ of ___ Pages

Two completed and signed copies of this Declaration must be handed to the operator.

WARNING

Failure to comply in all respects with the applicable Dangerous Goods Regulations may be in breach of the applicable law, subject to legal penalties. This Declaration must not, in any circumstances, be completed and/or signed by a consolidator, a forwarder or an IATA cargo agent.

TRANSPORT DETAILS

This shipment is within the limitations prescribed for: **Airport of Departure**

PASSENGER AND CARGO AIRCRAFT CARGO AIRCRAFT ONLY

Airport of Destination:

Shipment type: (delete non-applicable)
 NON-RADIOACTIVE RADIOACTIVE

NATURE AND QUANTITY OF DANGEROUS GOODS						
Dangerous Goods Identification						
Proper Shipping Name	Class or Division	UN or ID No.	Packing Group	Subsidiary Risk	Quantity and type of packing	Packing Inst. / Authorization
Other Regulated Substances	Class 9	ID 8027			1 Plastic Container w/ 9-125 ml glass jar, 2-250 ml glass jar, 3-1L glass jar, 4-40 ml glass vial Total 6.41 L	906

Handling information

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked, and labeled, and are in all respects in the proper condition for transport by air according to the applicable International and National Governmental Regulations.

Name/Title of Signatory **Rakesh Mishra/Sr Chemist**
 Place and Date **Camp Lejeune NC 10/20/95**
 Signature **Rakesh Mishra**
 Emergency Telephone Number (Required for US Origin or Destination Shipments): **1-800-999-6710 PIN #995-3330**
 IF ACCEPTABLE FOR PASSENGER AIRCRAFT, THIS SHIPMENT CONTAINS RADIOACTIVE MATERIAL INTENDED FOR USE IN, OR INCIDENT TO, RESEARCH MEDICAL DIAGNOSIS, OR TREATMENT.

Field Identification: CLJ44-CC-105

Matrix: SOLID

Parameter	Result	Reporting	Lab No.	Date	QC	Method/Ref.
		Limit		Analyzed	Batch	
Total Gasoline (ug/g)	140	13	45748-001	10/23/95	BG1046A	8015(mod)/2
Total Diesel (ug/g)	1300	37	45748-007	10/24/95		8015(mod),3350/2
Oil and Grease by Gravimetry (ug/g)	2030	280	45748-007	10/24/95	BG1393	9071,5030/2,3

Field Identification: CLJ44-CC-106-RB

Matrix: WATER

Parameter	Result	Reporting	Lab No.	Date	QC	Method/Ref.
		Limit		Analyzed	Batch	
Total Gasoline (ug/L)	BDL	100	45748-002	10/23/95		8015(mod)/2
Total Diesel (ug/L)	130	100	45748-008	10/24/95		8015(mod),3350/2
Corrosivity (pH, units)	6.0		45748-011	10/23/95	375	2.1.2/2
Releasable Sulfide (mg/Kg)	BDL	50	45748-011	10/23/95	317	7.3.4.2/2
Releasable Cyanide (mg/Kg)	BDL	1	45748-011	10/24/95	317	7.3.3.2/2
Flash Point (degrees F)	>150	50	45748-011	10/23/95	349	093-80/4

Field Identification: CLJ44-SB03-4'

Matrix: SOLID

Parameter	Result	Reporting	Lab No.	Date	QC	Method/Ref.
		Limit		Analyzed	Batch	
Total Gasoline (ug/g)	BDL	14	45748-003	10/23/95	BG1046A	8015(mod)/2
Total Diesel (ug/g)	9.1	3.8	45748-003	10/24/95		8015(mod),3350/2

Field Identification: CLJ44-SB01-4'

Matrix: SOLID

Parameter	Result	Reporting	Lab No.	Date	QC	Method/Ref.
		Limit		Analyzed	Batch	
Total Gasoline (ug/g)	BDL	15	45748-004	10/23/95	BG1046A	8015(mod)/2
Total Diesel (ug/g)	27	4.1	45748-004	10/24/95		8015(mod),3350/2

Field Identification: CLJ44-SB02-4'

Matrix: SOLID

Parameter	Result	Reporting	Lab No.	Date	QC	Method/Ref.
		Limit		Analyzed	Batch	
Total Gasoline (ug/g)	BDL	15	45748-005	10/23/95	BG1046A	8015(mod)/2
Total Diesel (ug/g)	8.7	4.0	45748-005	10/24/95		8015(mod),3350/2

Field Identification: CLJ44-S804-41

Matrix: SOLID

Parameter	Result	Reporting	Lab No.	Date	GC	Method/Ref.
		Limit		Analyzed	Batch	
Total Gasoline (ug/g)	BDL	14	45748-006	10/24/95	BG1046A	8015(mod)/2
Total Diesel (ug/g)	59	3.7	45748-006	10/24/95		8015(mod),3350/2

- References:
- 1) 40 CFR Part 136, Friday, October 26, 1984
 - 2) EPA SW 846, 3rd Edition
 - 3) Standard Methods, 16th Edition
 - 4) ASTM

PRICE New Eng NH

TEL: 16039267030

Oct 26, 95 15:06 No. 010 P. 03

Field Identification: CLJ44-CC-107-1B

Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Total Gasoline (ug/L)	BDL	100	45749-881	10/26/95		8815(mod)/2 or: 8815(mod)

References: 2) EPA SM 846, 3rd Edition

Field Identification: CLJ44 CC-103 RD

Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Arsenic, total (ug/L)	BDL	0.01	45748-010	10/24/95	51211	7060/2 or: 3050, 7060/2 206
Barium, total (ug/L)	BDL	0.1	45748-010	10/23/95	12474	3010, 6010/2 or: 3050, 6010/
Cadmium, total (ug/L)	BDL	0.005	45748-010	10/23/95	12474	3010, 6010/2 or: 3050, 6010/
Chromium, total (ug/L)	0.02	0.01	45748-010	10/23/95	12474	3010, 6010/2 or: 3050, 6010/
Lead, total (ug/L)	BDL	0.005	45748-010	10/23/95	31337	3020, 7421/2 or: 3050, 7421/
Mercury, total (ug/L)	BDL	0.003	45748-010	10/24/95	61674	7470/2 or: 7471/2 245.1/1
Selenium, total (ug/L)	BDL	0.01	45748-010	10/23/95	51211	7740/2 or: 3050, 7740/2 270
Silver, total (ug/L)	BDL	0.02	45748-010	10/23/95	12474	3010, 6010/2 or: 3050, 6010/

References: 1) 40 CFR Part 136, Friday, October 26, 1984
 2) EPA SW 946, 3rd Edition

Sample Designation: CLJ44-CC-106-RB
 Date Extracted: 10/23/95
 Date Analyzed: 10/23/95
 Matrix: WATER

Instrument File Name: JF2047

ACID/BASE/NEUTRAL EXTRACTABLES	CONCENTRATION (ug/L)	REPORTING LIMIT (ug/L)	ACID/BASE/NEUTRAL EXTRACTABLES	CONCENTRATION (ug/L)	REPORTING LIMIT (ug/L)
N-Nitrosodimethylamine	BDL	10	3-Nitroaniline	BDL	50
Phenol	BDL	10	Acenaphthene	BDL	10
Aniline	BDL	10	2,4-Dinitrophenol	BDL	50
Bis(2-chloroethyl) ether	BDL	10	4-Nitrophenol	BDL	50
2-Chlorophenol	BDL	10	Dibenzofuran	BDL	10
1,3-Dichlorobenzene	BDL	10	2,4-Dinitrotoluene	BDL	10
1,4-Dichlorobenzene	BDL	10	Diethylphthalate	BDL	10
Benzylalcohol	BDL	10	4-Chlorophenyl phenylether	BDL	10
1,2-Dichlorobenzene	BDL	10	Fluorene	BDL	10
2-Methylphenol	BDL	10	4-Nitroaniline	BDL	50
Bis(2-chloroethyl)amine	BDL	10	4,6-Dinitro-2-cresylpyrene	BDL	50
4-Methylphenol	BDL	10	N-Nitrosodiphenylamine	BDL	10
N-Nitroso-di-N-propylamine	BDL	10	Azobenzene	BDL	10
Hexachloroethane	BDL	10	4-Bromophenyl-phenylether	BDL	10
Nitrobenzene	BDL	10	Hexachlorobenzene	BDL	10
Isophorone	BDL	10	Pentachlorophenol	BDL	10
2-Nitrophenol	BDL	10	Phenanthrene	BDL	10
2,4-Diethylphenol	BDL	10	Anthracene	BDL	10
Benzoic acid	BDL	50	Di-N-butylphthalate	BDL	10
Bis(2-chloroethoxy)ethane	BDL	10	Fluoranthene	BDL	10
2,4-Dichlorophenol	BDL	10	Benzidine	BDL	50
1,2,4-Trichlorobenzene	BDL	10	Pyrene	BDL	10
Naphthalene	BDL	10	Butylbenzylphthalate	BDL	10
4-Chloroaniline	BDL	10	3,3'-Dichlorobenzidine	BDL	20
Hexachlorobutadiene	BDL	10	Benzo(A)anthracene	BDL	10
4-Chloro-3-ethylphenol	BDL	10	Chrysene	BDL	10
2-Methylnaphthalene	BDL	10	Bis(2-ethylhexyl)phthalate	BDL	10
Hexachlorocyclopentadiene	BDL	10	Di-N-octylphthalate	BDL	10
2,4,6-Trichlorophenol	BDL	10	Benzo(B)fluoranthene	BDL	10
2,4,5-Trichlorophenol	BDL	50	Benzo(K)fluoranthene	BDL	10
2-Chloronaphthalene	BDL	10	Benzo(A)pyrene	BDL	10
2-Nitroaniline	BDL	50	Indeno(1,2,3-CD)pyrene	BDL	10
Diethylphthalate	BDL	10	Dibenz(A,H)anthracene	BDL	10
Acenaphthylene	BDL	10	Benzo(B,K)perylene	BDL	10
2,6-Dinitrotoluene	BDL	10			

METHOD REFERENCE: 40 CFR PART 136, FRIDAY, OCTOBER 26, 1994
 METHOD 625(MODIFIED)

BDL = Below reporting limit
 S = Probable presence below listed detection limit.

**TOXICITY CHARACTERISTIC LEACHING PROCEDURE
ANALYSIS FOR VOLATILE CONSTITUENTS**

Laboratory number: 45748-009
 Sample Designation: CLJ44-CC-106-R8
 Date Analyzed: 10/23/95 20:38
 QC Batch: BD102395A1
 TCLP Batch:
 Matrix: TCLP EXTRACT

VOLATILES	Concentration (mg/L)	Regulatory Limit (mg/L)	Reporting Limit (mg/L)
Vinyl chloride	BDL	0.2	0.01
1,1-Dichloroethene	BDL	0.7	0.005
1,2-Dichloroethane	BDL	0.5	0.005
Chloroform	BDL	6.0	0.005
Methyl ethyl ketone	BDL	200	0.025
Carbon Tetrachloride	BDL	0.5	0.005
Trichloroethene	BDL	0.5	0.005
Benzene	BDL	0.5	0.005
Tetrachloroethene	BDL	0.7	0.005
Chlorobenzene	BDL	100	0.005

METHOD REFERENCE: EPA SW 846, 3rd Edition
 METHOD 8248

Results uncorrected for matrix spike recovery.

BDL = Below reporting limit

Laboratory number: 45749-002
 Sample Designation: CLJ44-CC-107-1B
 Date Analyzed: 10/25/95
 Matrix: WATER

Instrument File Name: D3907

VOLATILE ORGANICS	CONCENTRATION (ug/L)	REPORTING LIMIT (ug/L)
Chloroethane	BDL	10
Bromoethane	BDL	10
Vinyl chloride	BDL	10
Chloroethane	BDL	5
Methylene chloride	BDL	10
Acetone	100	25
Carbon disulfide	BDL	5
Tetrahydrofuran	BDL	25
Trichlorofluoroethane	BDL	5
1,1-Dichloroethene	BDL	5
1,1-Dichloroethane	BDL	5
1,2-Dichloroethene (total)	BDL	5
Chloroform	BDL	5
1,2-Dichloroethane	2.9 J	5
2-Butanone	BDL	25
1,1,1-Trichloroethane	BDL	5
Carbon Tetrachloride	BDL	5
Vinyl acetate	BDL	10
Bromodichloroethane	BDL	5
1,2-Dichloropropane	3.2 J	5
cis-1,3-Dichloropropene	BDL	5
trans-1,3-Dichloropropene	BDL	5
Trichloroethene	BDL	5
Dibromochloroethane	BDL	5
1,1,2-Trichloroethane	BDL	5
Benzene	BDL	5
Bromoform	BDL	5
4-Methyl-2-Pentanone	BDL	25
2-Hexanone	BDL	25
Tetrachloroethane	BDL	5
1,1,2,2-Tetrachloroethane	BDL	5
Toluene	BDL	5
Chlorobenzene	BDL	5
Ethylbenzene	BDL	5
Styrene	BDL	5
Xylene (total)	BDL	5

METHOD REFERENCE: EPA SW 846, 3rd Edition
 METHOD 8240

BDL = Below reporting limit
 J = Probable presence below listed detection limit

APPENDIX H ANALYTICAL DATA

Sample Date Chain of Custody No.

6/20/95	144107
6/20/95	144108
8/2/94	144099
8/4/95	166402
8/4/95	166403
8/4/95	166404
8/7/95	144100
8/8/95	166405
8/9/95	166406
8/10/95	166409
8/14/95	166445
9/27/95	166725
9/27/95	166410
9/28/95	166411
10/2/95	166687
10/2/95	166688
10/3/95	166412
10/4/95	166413
10/5/95	166414
10/9/95	166415
10/10/95	166416
10/10/95	166417
10/19/95	166422
10/20/95	166423
10/26/95	166458
10/26/95	166459
10/31/95	166460
11/15/95	166464
11/15/95	166465

Note: The analytical laboratory data in this Appendix is organized by the sample date as indicated in the above list of chain of custody forms. Refer to Tables 6-1 through 6-5 for a detailed description of each sample on these chain of custody forms.



REPORT OF LABORATORY ANALYSIS

July 11, 1995

OHM Remediation Services Corporation
5335 Triangle Parkway
Suite 450
Norcross, GA 30092

SAMPLE DELIVERY GROUP NARRATIVE

Case: OHMRC
SDG: LJN05
Laboratory: PACE New England - New Hampshire of Hampton, NH
Lab Numbers: 44436
Protocol: SW846 Method 8080. NEESA C deliverables. No diskette.

Sample Receipt: Samples were received at PACE, Inc. on June 21, 1995. Laboratory sample numbers were assigned for test parameters as listed on the Sample Table which follows this narrative. Sample shipments were checked for custody seal integrity and cooler temperature. Samples were checked for appropriate preservation and accuracy against the Chains-of-Custody provided. Other than the exceptions noted below, samples were received between 2-6° C and in good condition. PACE Sample Receipt Condition Reports can be found with the Chains-of-Custody.

Shipment received 6/21/95 (44436): Samples were received in one cooler. A temperature blank was not included with the shipment, therefore the cooler temperature could not be verified upon receipt of samples at PACE. Samples were received cool, and had been packed on ice. Custody seals were not present on the cooler. Three 1 liter bottles were received for both the rinsate blank and field blank. Because it was inappropriate to perform GRO (a purge and trap volatiles determination) on a water sample not received in VOA vials, the field and rinsate blanks were not logged in for GRO. Additionally, the trip blank was only logged in for GRO, even though both DRO and GRO were checked off on the COC. Rakesh Mishra (OHM) was notified of this problem. Batch, rather than sample QC was assigned for this SDG. The solid sample spiked (PACE Lab# 44383-10) and reported in this SDG as MS/MSD was provided by another PACE client, and was not one selected from this set of OHM samples.

Two ampules of solid reference material were received from Environmental Resource Associates (ERA) in a separate shipment for use as a QC sample with these field samples (ERA Project No. 0613-95-03). The Quality Control Standards provided were for Hydrocarbon Fuels in Soil for both Gasoline and Diesel. Gretchen Franzheim (PACE) notified Rakesh Mishra (OHM) that the instructions for the GRO ampule were for the California DHS headspace analysis method which PACE would not be using for the determination of GRO for these samples. Since the True Values supplied to Theresa Rojas (OHM) for this standard were determined using the California DHS headspace method, it was communicated in conversation that there would probably be little correlation to the value determined by PACE and the ERA-supplied true value for GRO.

GRO Analysis: Analyses proceeded without difficulty. Matrix spikes and duplicates met all acceptance criteria.



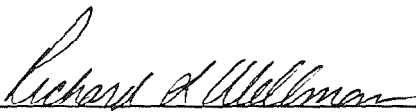
REPORT OF LABORATORY ANALYSIS

SDG Narrative
Case: OHMRC, SDG: LJN05

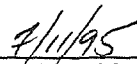
DRO Analysis: The following laboratory numbers 44436-1 through -12 for diesel range organics contained petroleum hydrocarbon products which did not match diesel.

Statement of Compliancy and Data Authorization

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature.



PACE Incorporated, New England-New Hampshire



July 11, 1995



NEW ENGLAND - NEW HAMPSHIRE LABORATORY
SAMPLE RECEIPT CONDITION REPORT

Tel. (603) 926-7777
FAX (603) 926-7939

LAB# 44436

PAGE 1 of 1
COOLER of
COC# 144107 + 144108
SDG# L J N 05
CASE# 04MRC

CLIENT DHM CORPORATION

DATE/TIME RECEIVED 6-21-95 1000

LIMS ENTRY BY Gmf

DELIVERED BY FED-EX

TRANSCRIPTION REVIEW BY bd

RECEIVED BY BM

LIMS REVIEW BY/PM Gmf

	NA	YES	EXCEPTION	COMMENT	RESOLUTION			
1. CUSTODY SEALS PRESENT/INTACT	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>					
2. CHAIN OF CUSTODY PRESENT IN THIS COOLER	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>					
3. CHAIN OF CUSTODY SIGNED	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>					
4. CHAIN OF CUSTODY MATCHES SAMPLES	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>					
5. SAMPLES RECEIVED AT 2° - 6° C Ice/Ice Packs Present? <input checked="" type="checkbox"/> Y or N	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<u>NO TEMP BLANK</u>				
6. VOLATILES FREE OF HEAD SPACE	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>					
7. TRIP BLANK PRESENT IN THIS COOLER	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>					
8. PROPER SAMPLE CONTAINERS AND VOLUME	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>					
9. SAMPLES WITHIN HOLD TIME	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>					
10. SAMPLES PROPERLY PRESERVED	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>					
11. ANALYTICAL PROGRAMS (circle one)	COMMERCIAL	CLP	EPA-CLP	NYASP	NJ ISRA	<u>NEESA</u>	AFCEE	Other
12. NUMBER OF PACE FILTRATIONS:	_____							
13. CORRECTIVE ACTIONS REPORT #	_____							

Log-in Notes:

-15 TEAS Ref. material
-16 D2O Ref material

CLIENT AUTHORIZATION SIGNATURE _____

DATE

0000003



NEW ENGLAND - NEW HAMPSHIRE LABORATORY
SAMPLE RECEIPT CONDITION REPORT

Tel. (603) 926-7777
FAX (603) 926-7939

LAB# 44436

PAGE 1 of 1
COOLER _____ of _____
COC# 144157 & 144118
SDG# LJN05
CASE# 011R2

CLIENT DHM CORPORATION

DATE/TIME RECEIVED 6-21-95 1000

LIMS ENTRY BY GWF

DELIVERED BY FED-EX

TRANSCRIPTION REVIEW BY bd

RECEIVED BY BM

LIMS REVIEW BY/PM GWF

	NA	YES	EXCEPTION	COMMENT	RESOLUTION			
1. CUSTODY SEALS PRESENT/INTACT	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>					
2. CHAIN OF CUSTODY PRESENT IN THIS COOLER	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>					
3. CHAIN OF CUSTODY SIGNED	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>					
4. CHAIN OF CUSTODY MATCHES SAMPLES	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>					
5. SAMPLES RECEIVED AT 2° - 6° C Ice/Ice Packs Present? <input checked="" type="checkbox"/> Y or N	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<u>NO TEMP BLANK</u>				
6. VOLATILES FREE OF HEAD SPACE	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>					
7. TRIP BLANK PRESENT IN THIS COOLER	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>					
8. PROPER SAMPLE CONTAINERS AND VOLUME	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>					
9. SAMPLES WITHIN HOLD TIME	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>					
10. SAMPLES PROPERLY PRESERVED	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>					
11. ANALYTICAL PROGRAMS (circle one)	COMMERCIAL	CLP	EPA-CLP	NYASP	NJ ISRA	<u>NEESA</u>	AFCEE	Other _____
12. NUMBER OF PACE FILTRATIONS:	_____							
13. CORRECTIVE ACTIONS REPORT #	_____							

Log-in Notes:

-15 TCAS Ref. material
-16 D20 Ref. material

CLIENT AUTHORIZATION SIGNATURE _____ DATE _____

SAMPLE TABLE

CLIENT ID.	MATRIX	PACE #	PARAMETERS
CLJ44-ACS-001	SOLID	44436-001	TOTAL GASOLINE TOTAL DIESEL
CLJ44-ACS-002	SOLID	44436-002	TOTAL GASOLINE TOTAL DIESEL
CLJ44-ABS-003	SOLID	44436-003	TOTAL GASOLINE TOTAL DIESEL
CLJ44-ABS-004	SOLID	44436-004	TOTAL GASOLINE TOTAL DIESEL
CLJ44-AAS-005	SOLID	44436-005	TOTAL GASOLINE TOTAL DIESEL
CLJ44-AAS-006	SOLID	44436-006	TOTAL GASOLINE TOTAL DIESEL
CLJ44-AAS-007	SOLID	44436-007	TOTAL GASOLINE TOTAL DIESEL
CLJ44-AAS-008	SOLID	44436-008	TOTAL GASOLINE TOTAL DIESEL
CLJ44-AAS-009	SOLID	44436-009	TOTAL GASOLINE TOTAL DIESEL
CLJ44-AAS-009D	SOLID	44436-010	TOTAL GASOLINE TOTAL DIESEL
CLJ44-AAS-010	SOLID	44436-011	TOTAL GASOLINE TOTAL DIESEL
CLJ44-RB	WATER	44436-012	TOTAL DIESEL
CLJ44-FB	WATER	44436-013	TOTAL DIESEL



0000005

SAMPLE TABLE
(CONTINUED)

CLIENT ID.	MATRIX	PACE #	PARAMETERS
CLJ44-TB	WATER	44436-014	TOTAL GASOLINE
ERA GAS REFERENCE MATERIAL	SOLID	44436-015	TOTAL GASOLINE
ERA DIESEL REFERENCE MATERIAL	SOLID	44436-016	TOTAL DIESEL

Field Identification: CLJ44-ACS-001

Matrix: SOLID

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Total Gasoline (ug/g)	BDL	14	44436-001	06/12/95	BG1028A	8015(mod)/2
Total Diesel (ug/g)	9.7	3.7	44436-001	06/21/95		8015(mod),3350/2

Field Identification: CLJ44-ACS-002

Matrix: SOLID

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Total Gasoline (ug/g)	BDL	14	44436-002	06/12/95	BG1028A	8015(mod)/2
Total Diesel (ug/g)	17	3.7	44436-002	06/21/95		8015(mod),3350/2

Field Identification: CLJ44-ABS-003

Matrix: SOLID

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Total Gasoline (ug/g)	BDL	14	44436-003	06/12/95	BG1028A	8015(mod)/2
Total Diesel (ug/g)	87	3.4	44436-003	06/21/95		8015(mod),3350/2

Field Identification: CLJ44-ABS-004

Matrix: SOLID

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Total Gasoline (ug/g)	BDL	15	44436-004	06/12/95	BG1028A	8015(mod)/2
Total Diesel (ug/g)	58	3.8	44436-004	06/22/95		8015(mod),3350/2

Field Identification: CLJ44-AAS-005

Matrix: SOLID

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Total Gasoline (ug/g)	BDL	15	44436-005	06/12/95	BG1028A	8015(mod)/2
Total Diesel (ug/g)	15	3.9	44436-005	06/22/95		8015(mod),3350/2

Results expressed on a dry weight basis.

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0000007

Field Identification: CLJ44-AAS-006

Matrix: SOLID

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Total Gasoline (ug/g)	35	19	44436-006	06/12/95	BG1028A	8015(mod)/2
Total Diesel (ug/g)	36	5.0	44436-006	06/22/95		8015(mod),3350/2

Field Identification: CLJ44-AAS-007

Matrix: SOLID

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Total Gasoline (ug/g)	BDL	16	44436-007	06/12/95	BG1028A	8015(mod)/2
Total Diesel (ug/g)	50	4.1	44436-007	06/22/95		8015(mod),3350/2

Field Identification: CLJ44-AAS-008

Matrix: SOLID

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Total Gasoline (ug/g)	BDL	15	44436-008	06/12/95	BG1028A	8015(mod)/2
Total Diesel (ug/g)	63	4.1	44436-008	06/22/95		8015(mod),3350/2

Field Identification: CLJ44-AAS-009

Matrix: SOLID

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Total Gasoline (ug/g)	BDL	15	44436-009	06/12/95	BG1028A	8015(mod)/2
Total Diesel (ug/g)	250	3.9	44436-009	06/22/95		8015(mod),3350/2

Field Identification: CLJ44-AAS-009D

Matrix: SOLID

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Total Gasoline (ug/g)	BDL	15	44436-010	06/12/95	BG1028A	8015(mod)/2
Total Diesel (ug/g)	590	40	44436-010	06/22/95		8015(mod),3350/2

Results expressed on a dry weight basis.

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0000008

Field Identification: CLJ44-AAS-010

Matrix: SOLID

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Total Gasoline (ug/g)	BDL	15	44436-011	06/12/95	BG1028A	8015(mod)/2
Total Diesel (ug/g)	24	4.0	44436-011	06/22/95		8015(mod),3350/2

Field Identification: CLJ44-RB

Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Total Diesel (ug/L)	140	100	44436-012	06/22/95		8015(mod),3350/2

Field Identification: CLJ44-FB

Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Total Diesel (ug/L)	BDL	110	44436-013	06/22/95		8015(mod),3350/2

Field Identification: CLJ44-TB

Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Total Gasoline (ug/L)	BDL	100	44436-014	06/21/95		8015(mod)/2

Field Identification: ERA GAS REFERENCE MATERIAL

Matrix: SOLID

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Total Gasoline (ug/g)	422	62	44436-015	06/22/95	BG1028A	8015(mod)/2

Field Identification: ERA DIESEL REFERENCE MATERIAL

Matrix: SOLID

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Total Diesel (ug/g)	230	5.0	44436-016	06/21/95		8015(mod),3350/2

Results for solid samples are expressed on a dry weight basis.

References: 2) EPA SW 846, 3rd Edition

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0000009

QUALITY CONTROL DATA
TOTAL GASOLINE

BLANK DATA

Laboratory Number: BG1028A
Sample Designation: LABORATORY BLANK
Date Analyzed: 06/21/95
Matrix: SOLID

COMPOUND	CONCENTRATION ug/g	DETECTION LIMIT ug/g
GASOLINE	BDL	12

MATRIX SPIKE RECOVERY

Laboratory Number: LS-G1028
Sample Designation: LABORATORY CONTROL SAMPLE
Date Analyzed: 06/21/95
Matrix: SOLID

COMPOUND	ug/g IN SAMPLE	ug/g SPIKE	ug/g FOUND	%REC- OVERY
GASOLINE	0	50	55	110

METHOD REFERENCE: METHOD 8015 (MODIFIED)

Calibration Curve for total gas

Title

Test: total gas
Date: 06/02/95
X-Axis: concentration
Y-Axis: area

Regression Output:

Constant 724456.9
Std Err of Y Est 305148.5
R Squared 0.997547
No. of Observations 5
Degrees of Freedom 3

	Conc.	Obs.	Calc-Abs.
1	100	1088898	1410739
2	200	184617	2097020
3	500	4045128	4155865
4	1000	7950574	7587273
5	2000	14048965	14450089

X Coefficient(s) 6862.816
Std Err of Ccoef. 196.4519

Slope = 6862.816
Y-Intercept = 724456.9

Calibration Curve for bromofluorobenzene

Titles

Test: bromofluorobenzene
Date: 06/03/93
X-Axis: concentration
Y-Axis: area

Regression Output:

Constant 15694.93
Std Err of Y Est 11300.24
R Squared 0.999535
No. of Observations 5
Degrees of Freedom 3

	Conc.	Abs.	Calc-Abs.
1	10	71195.62	74025.06
2	20	120201.1	132355.2
3	50	320495.9	307345.5
4	100	605433.7	566976.2
5	200	1177067	1162297

X Coefficient(s) 5633.012
Std Err of Coef. 72.76106
Slope = 5633.012
Y-Intercept = 15694.93

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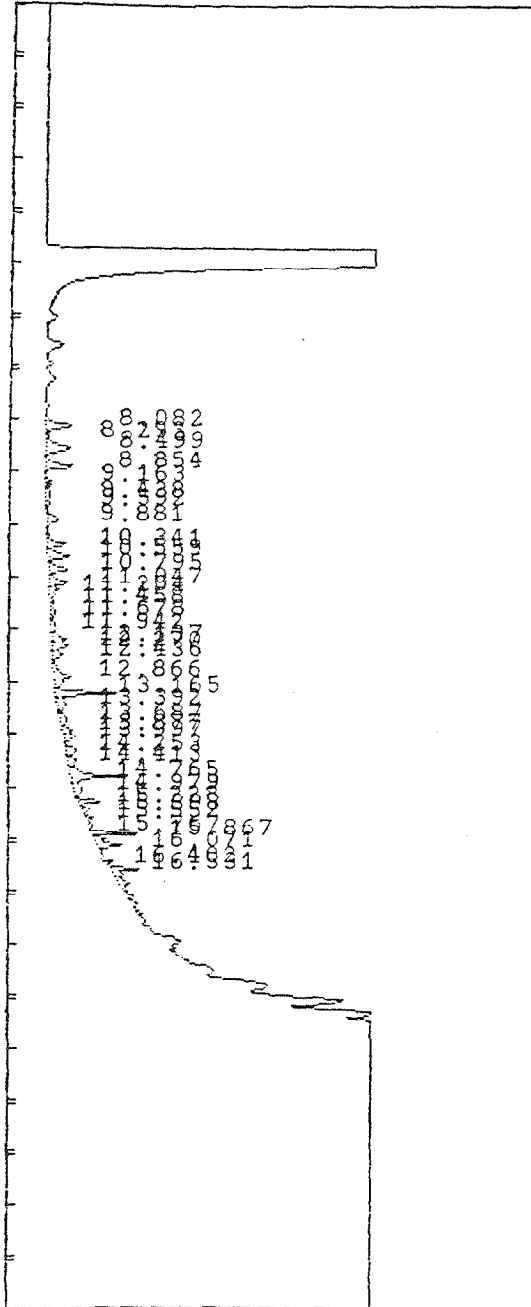
CARBON SIX-CARBON TEN

Sample Name : vstd 100 5ml Spl V6241

Page 1
Report No : 247.01

Instrument : GC07

Subseq/Sample/Bottle: 1/ 6/ 6



Sequence File: /DATA/GC07/SEQUENCE/G70608.SEQ
Method File : /DATA/GC07/METHOD/TGAS0322.MTH
Result File : /DATA/GC07/RESULT/G7CF117071.RES

Run Time : 25.02 Minutes Injected on 1546 08Jun1995
Report Time : 1415 12Jun1995
Run Status : RunStatusOK
SpecialInteg

Dil-Fact : 100.00% Sample Amt: 0.0000 Standard Amt: 1.0000

Pk#	RT	ID-tm	Factor	Area	Code	US/L	Name
1	8.08			69675	VV	2.0903	
2	8.29			4018	VV	.1206	
3	8.50			66286	VV	1.9886	
4	8.85			58092	VV	1.7428	
5	9.16			13984	PV	.4195	
6	9.44			13982	VV	.4195	
7	9.59			6390	VV	.1917	
8	9.88			29436	PV	.8831	
9	10.34			36805	VV	1.1042	
10	10.56			56401	VV	1.6920	
11	10.80			40283	VV	1.2085	
12	11.05			140590	VV	27.7272	C7 N-HEPTANE
13	11.20			22785	VV	.6835	
14	11.46			5915	VV	.1774	
15	11.68			14110	PV	.4233	
16	11.94			18892	VV	.5668	
17	12.14			29567	VV	.8870	
18	12.27			39357	VV	1.1807	
19	12.44			25792	VV	.7738	
21	13.17			80258	PV	2.4077	
22	13.39			39269	VV	1.1781	
23	13.69			24840	PV	.7452	
24	13.88			22040	VV	.6612	
25	14.00			21843	VV	.6553	
26	14.25			29527	VV	.8858	
28	14.77			115978	VV	3.4793	
29	14.98			36655	VV	1.0996	
30	15.23			36037	PV	1.0811	
31	15.40			14669	VV	.4401	
32	15.55			19332	VV	.5800	
34	15.87 #15.85			71199	FF	71198.6200	4 BROMOFLUOROBENZENE
35	16.07			62116	PV	1.8635	
36	16.40			12385	PV	.3716	
37	16.53			81388	PV	2.4416	

Total Area DR0 only : 1359895 - 71198.62 = 1288696

PACE INCORPORATED

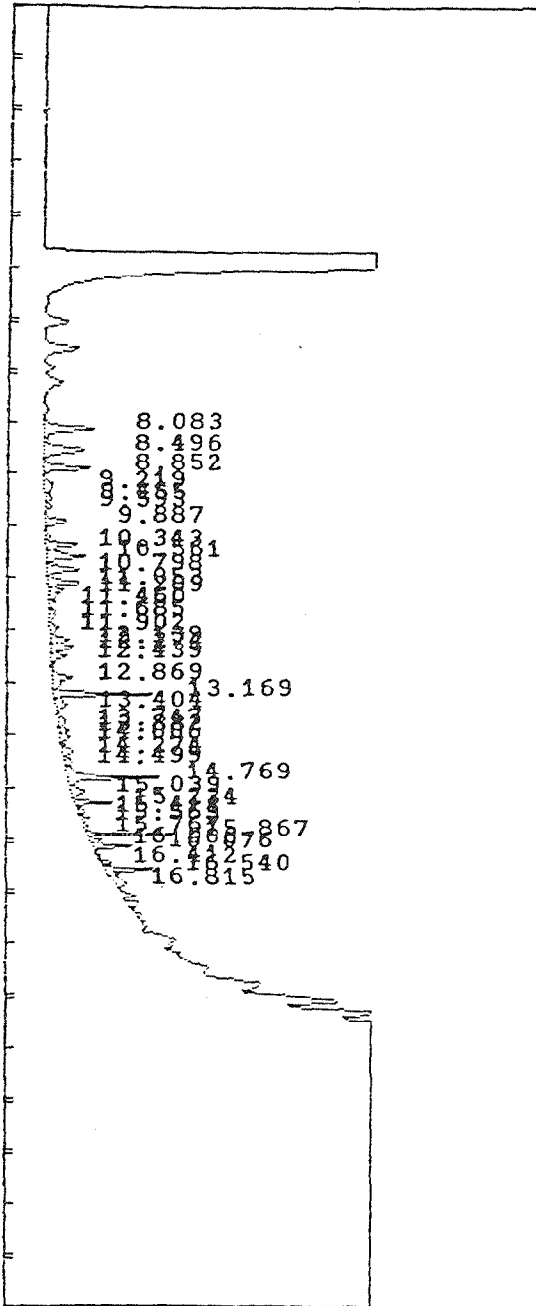
CARBON SIX-CARBON TEN

Sample Name : vstd 200 5ml 10pl V6241

Page 1
Report No :248.03

Instrument : GC07

Subseq/Sample/Bottle: 1/ 7/ 7



Sequence File: /DATA/GC07/SEQUENCE/G70608.SEQ
Method File : /DATA/GC07/METHOD/TGAS0322.MTH
Result File : /DATA/GC07/RESULT/G7CF117072.RES

Run Time : 25.00 Minutes Injected on 1616 08Jun1995
Report Time : 1447 12Jun1995
Run Status : RunStatusOK
SpecialInteg

Dil-Fact : 100.00% Sample Amt: 0.0000 Standard Amt: 1.0000

PK#	RT	ID-tm	Factor	Area	Code	UG/L	Name
1	8.08			132886	VV	3.9866	
2	8.50			115075	VV	3.4523	
3	8.85			98626	VV	2.9588	
4	9.22			29376	PV	.8813	
5	9.45			26153	VV	.7846	
6	9.59			12361	VV	.3708	
7	9.89			44846	VV	1.3454	
8	10.34			64957	PV	1.9487	
9	10.56			100530	VV	3.0159	
10	10.80			70640	VV	2.1192	
11	11.05			159006	VV	29.2807	C7 N-HEPTANE
12	11.21			40346	VV	1.2104	
13	11.46			12849	VV	.3855	
14	11.69			21052	VV	.6316	
15	11.90			24394	VV	.7318	
16	12.14			37859	VV	1.1358	
17	12.27			54834	VV	1.6450	
18	12.44			35065	VV	1.0520	
20	13.17			122562	PV	3.6769	
21	13.40			38507	VV	1.1552	
22	13.75			24997	VV	.7499	
23	13.88			21619	VV	.6486	
24	14.01			23394	VV	.7018	
25	14.27			32578	PV	.9774	
27	14.77			164465	VV	4.9340	
28	15.04			47774	VV	1.4332	
29	15.23			49944	PV	1.4983	
30	15.41			12747	VV	.3824	
31	15.57			19342	VV	.5803	
33	15.87	#15.85		120801	FF	120801.1000	4 BROMOFLUOROBENZENE
34	16.00			12682	FF	.3805	
35	16.08			74431	VV	2.2329	
36	16.41			21329	PV	.6399	
37	16.54			75543	VV	2.2663	
38	16.82			41857	VV	1.2557	

Total Area DRD only : 1985428 - 120801.1 = 1864627

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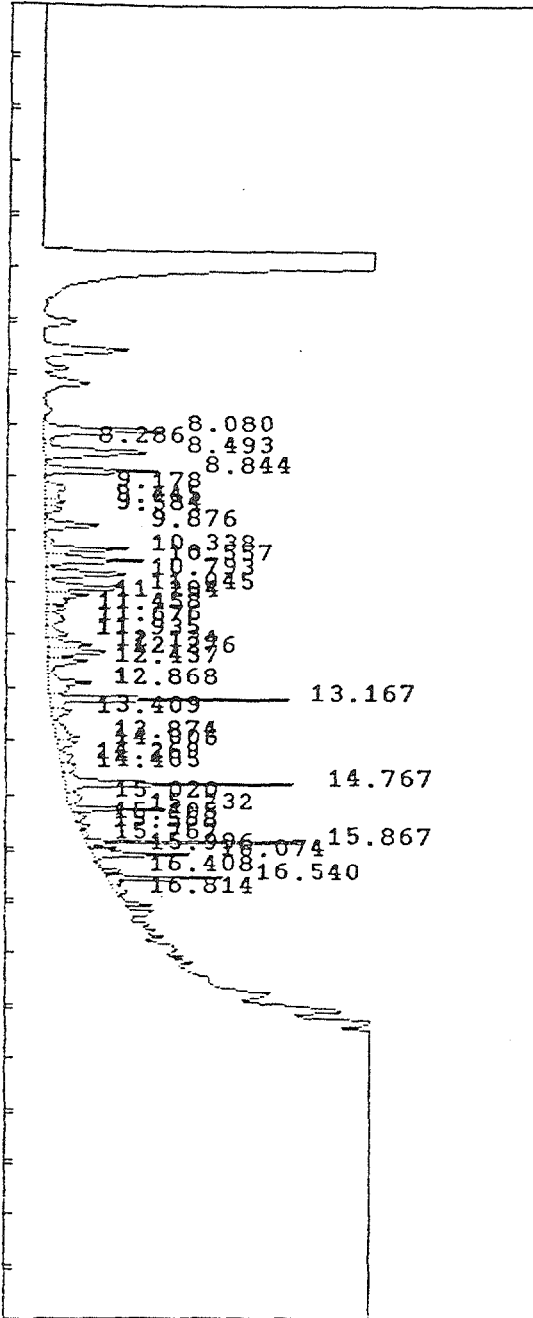
CARBON SIX-CARBON TEN

Sample Name : VSTD ^{5ml} ~~500~~ 5pl V 6247

Page 1
Report No : 249.01

Instrument : GC07

Subseq/Sample/Bottle: 1/ 8/ 8



Sequence File : /DATA/GC07/SEQUENCE/G70608.SEQ
Method File : /DATA/GC07/METHOD/TCAS0322.MTH
Result File : /DATA/GC07/RESULT/G7CF117073.RES

Run Time : 25.02 Minutes Injected on 1647 08Jun1995
Report Time : 1427 12Jun1995
Run Status : RunStatusOK
SpecialInteg

Dil-Fact : 100.00% Sample Amt: 0.0000 Standard Amt: 1.0000

PK#	RT	ID-tm	Factor	Area	Code	UG/L	Name
1	8.08			325767	VV	9.7730	
2	8.29			16822	VV	.5047	
3	8.49			265257	VV	7.9577	
4	8.84			233247	VV	6.9974	
5	9.18			95227	PV	2.8568	
6	9.44			50008	VV	1.5002	
7	9.58			33375	VV	1.0013	
8	9.88			108106	VV	3.2432	
9	10.34			168930	VV	5.0679	
10	10.56			257228	VV	7.7169	
11	10.79			182597	VV	5.4779	
12	11.05			375607	VV	48.9766	C7 N-HEPTANE
13	11.20			107005	VV	3.2102	
14	11.46			35975	VV	1.0793	
15	11.68			67084	VV	2.0125	
16	11.93			64289	VV	1.9287	
17	12.13			92860	VV	2.7858	
18	12.28			137625	VV	4.1287	
19	12.44			107478	VV	3.2243	
21	13.17			321531	PV	9.6459	
22	13.41			58233	VV	1.7470	
23	13.87			100703	VV	3.0211	
24	14.01			44479	VV	1.3344	
25	14.27			38005	VV	1.1401	
27	14.77			374985	VV	11.2496	
28	15.02			56603	VV	1.6981	
29	15.23			128637	PV	3.8591	
30	15.41			22694	VV	.6808	
31	15.57			27516	VV	.8255	
33	15.87	#15.85		320499	FF	320498.9000	4 BROMOFLOUROBENZENE
34	16.00			18127	FF	.5438	
35	16.07			174394	VV	5.2318	
36	16.41			40966	PV	1.2290	
37	16.54			166363	VV	4.9909	
38	16.81			47397	VV	1.4219	

Total Area DRD only : 4665622 - 3 20498.9 = 4345123

PACE INCORPORATED

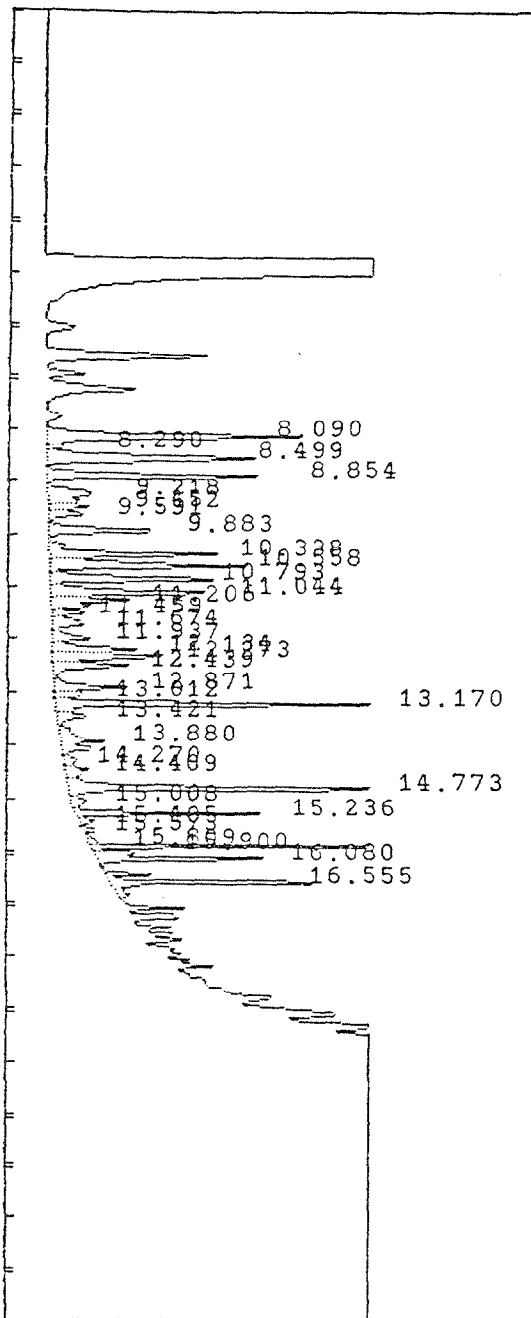
CARBON SIX-CARBON TEN

Sample Name : V STD ^{500 5ml} ₁₀₀₀ V6145

Page 1
Report No : 250.01

Instrument : GC07

Subseq/Sample/Bottle: 1/ 9/ 9



Sequence File: /DATA/GC07/SEQUENCE/G70608.SEQ
Method File : /DATA/GC07/METHOD/TGAS0322.MTH
Result File : /DATA/GC07/RESULT/G7CF117074.RES

Run Time : 25.00 Minutes Injected on 1717 08Jun1995
Report Time : 1431 12Jun1995
Run Status : RunStatusOK
SpecialInteg

Dil-Fact : 100.00% Sample Amt: 0.0000 Standard Amt: 1.0000

PK#	RT	ID-tm	Factor	Area	Code	UG/L	Name
1	8.09			666092	VV	19.9828	
2	8.29			34119	VV	1.0236	
3	8.50			530089	VV	15.9027	
4	8.85			474430	VV	14.2329	
5	9.22			203618	PV	6.1085	
6	9.45			97204	VV	2.9161	
7	9.59			68241	VV	2.0472	
8	9.88			211608	VV	6.3483	
9	10.34			339658	VV	10.1897	
10	10.56			516418	VV	15.4925	
11	10.79			365312	VV	10.9594	
12	11.04			551363	VV	64.8184	C7 N-HEPTANE
13	11.21			195893	VV	5.8768	
14	11.46			60834	VV	1.8250	
15	11.67			118588	VV	3.5576	
16	11.94			105967	VV	3.1790	
17	12.13			163606	VV	4.9082	
18	12.27			259941	VV	7.7982	
19	12.44			186511	VV	5.5953	
21	13.01			70590	VV	2.1177	
22	13.17			589132	PV	17.6740	
23	13.42			71777	VV	2.1533	
24	13.88			200051	VV	6.0015	
25	14.27			36124	VV	1.0837	
27	14.77			687566	VV	20.6270	
28	15.01			55268	VV	1.4580	
29	15.24			239386	PV	7.1816	
30	15.40			29582	VV	.8875	
31	15.57			30765	VV	.9229	
33	15.90	#15.85		605434	FF	605433.7000	4 BROMOFLOUROBENZENE
34	16.08			375142	VV	11.2543	
35	16.55			418699	PV	12.5610	

Total Area DRD only : 8559008 - 605433.7 = 7953574

PACE INCORPORATED

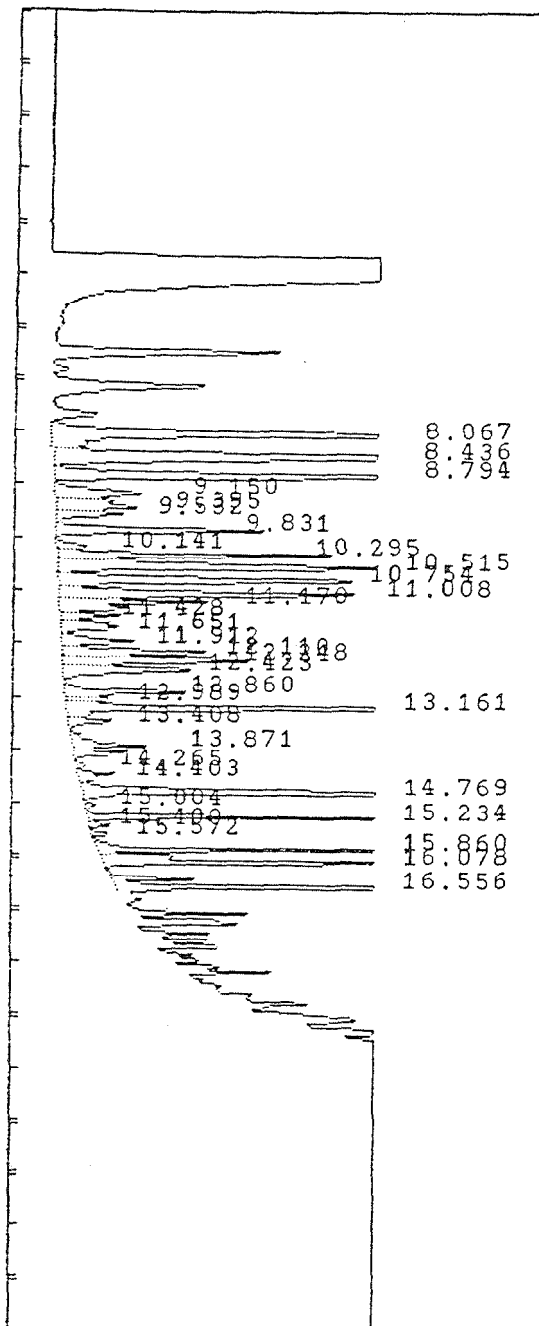
CARBON SIX-CARBON TEN

Sample Name : VSTO 2000 9ml 10pl V6145

Page 1
Report No : 251.02

Instrument : GC07

Subseq/Sample/Bottle: 1/ 10/ 10



Sequence File: /DATA/GC07/SEQUENCE/G70608.SEQ
Method File : /DATA/GC07/METHOD/TGAS0322.MTH
Result File : /DATA/GC07/RESULT/G7CF117075.RES

Run Time : 25.02 Minutes Injected on 1748 08Jun1995
Report Time : 1451 12Jun1995
Run Status : RunStatusOK
SpecialInteg

Dil-Fact : 100.00% Sample Amt: 0.0000 Standard Amt: 1.0000

Pk#	RT	ID-tm	Factor	Area	Code	UG/L	Name
1	8.07			1328316	FF	39.8495	
2	8.44			1143347	VV	34.3004	
3	8.79			1783316	VV	175.7038	C6 H-HEXANE
4	9.15			296166	VV	8.8850	
5	9.40			276058	VV	8.2817	
6	9.53			133180	VV	3.9954	
7	9.83			398672	VV	11.9602	
8	10.14			57286	PV	1.7186	
9	10.30			578324	VV	17.3497	
10	10.51			974849	VV	29.2455	
11	10.75			681491	VV	20.4447	
13	11.17			359799	VV	10.7940	
14	11.43			111177	VV	3.3353	
15	11.65			207490	VV	6.2247	
16	11.91			180264	VV	5.4079	
17	12.11			282796	VV	8.4839	
18	12.25			479851	VV	14.3955	
19	12.42			318515	VV	9.5555	
21	12.99			98041	VV	2.9412	
22	13.16			1063126	VV	31.8938	
23	13.41			91342	VV	2.7403	
24	13.87			272257	PV	8.1677	
25	14.26			18050	PV	.5415	
27	14.77			1201453	VV	36.0436	
28	15.00			25823	VV	.7747	
29	15.23			415274	VV	12.4582	
30	15.40			30109	VV	.9033	
31	15.57			33410	VV	1.0023	
32	15.86 #15.85			1177087	PV	1177087.0000	4 BROMOFLOUROBENZENE
33	16.08			698340	VV	20.9502	
34	16.56			710840	PV	21.3252	

Total Area DRO only : 15426052 - 1177087 = 14248965

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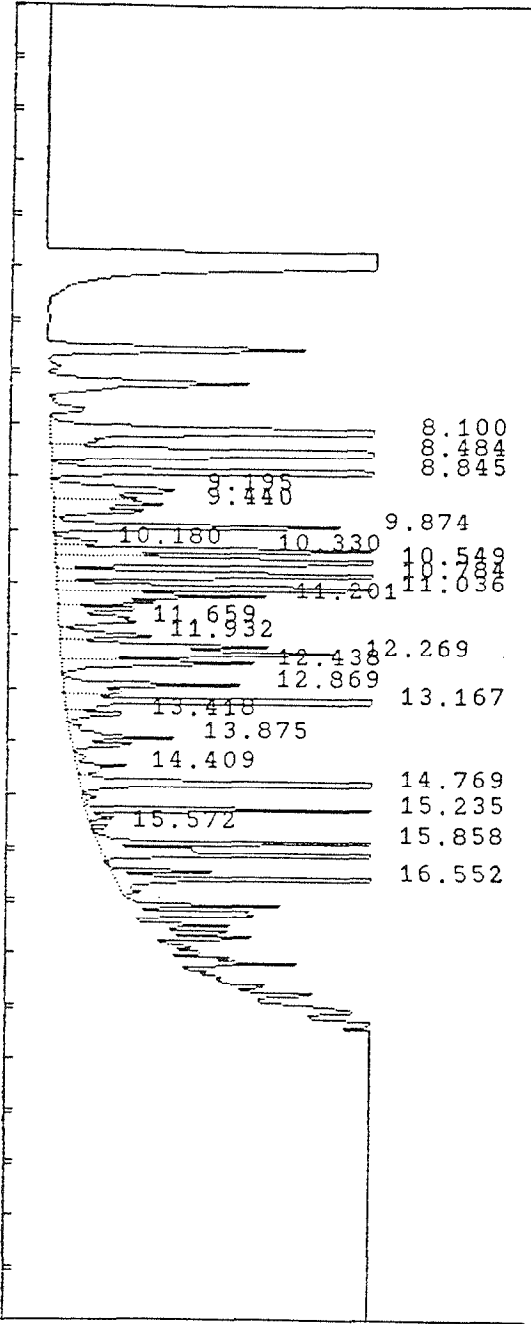
CARBON SIX-CARBON TEN

Sample Name : VSTY 3000 5ml 15 pl V6145

Page 1
Report No : 252.02

Instrument : GC07

Subseq/Sample/Bottle: 1/ 11/ 11



Sequence File: /DATA/GC07/SEQUENCE/G70608.SEQ
Method File : /DATA/GC07/METHOD/TGAS0322.MTH
Result File : /DATA/GC07/RESULT/G7CF117076.RES

Run Time : 25.02 Minutes Injected on 1819 08Jun1995
Report Time : 1454 12Jun1995
Run Status : RunStatusOK
SpecialInteg

Dil-Fact : 100.00% Sample Amt: 0.0000 Standard Amt: 1.0000

Pk#	RT	ID-tm	Factor	Area	Code	UG/L	Name
1	8.10			1862301	FF	55.8690	
2	8.48			1399897	VV	41.9969	
3	8.84			1250981	VV	37.5294	
4	9.19			528178	VV	15.8454	
5	9.44			466729	VV	14.0019	
6	9.87			555778	VV	16.6733	
7	10.18			79045	PV	2.3714	
8	10.33			814298	VV	24.4289	
9	10.55			1366773	VV	41.0032	
10	10.78			956826	VV	28.7048	
11	11.04			1369312	VV	133.7754	C7 N-HEPTANE
12	11.20			493976	VV	14.8193	
13	11.66			438804	VV	13.1641	
14	11.93			248605	VV	7.4582	
15	12.27			1049009	VV	31.4703	
16	12.44			440308	VV	13.2092	
18	13.17			1450417	VV	43.5125	
19	13.42			121711	VV	3.6513	
20	13.88			359236	PV	10.7771	
22	14.77			1647026	VV	49.4108	
23	15.23			595961	PV	17.8788	
24	15.57			35660	PV	1.0698	
25	15.86 #15.85			2678321	VV	2678321.0000	4 BROMOFLOUROBENZENE
26	16.55			972720	PV	29.1816	

Total Area DRD only : 21181872 - 2678321 = 18503551

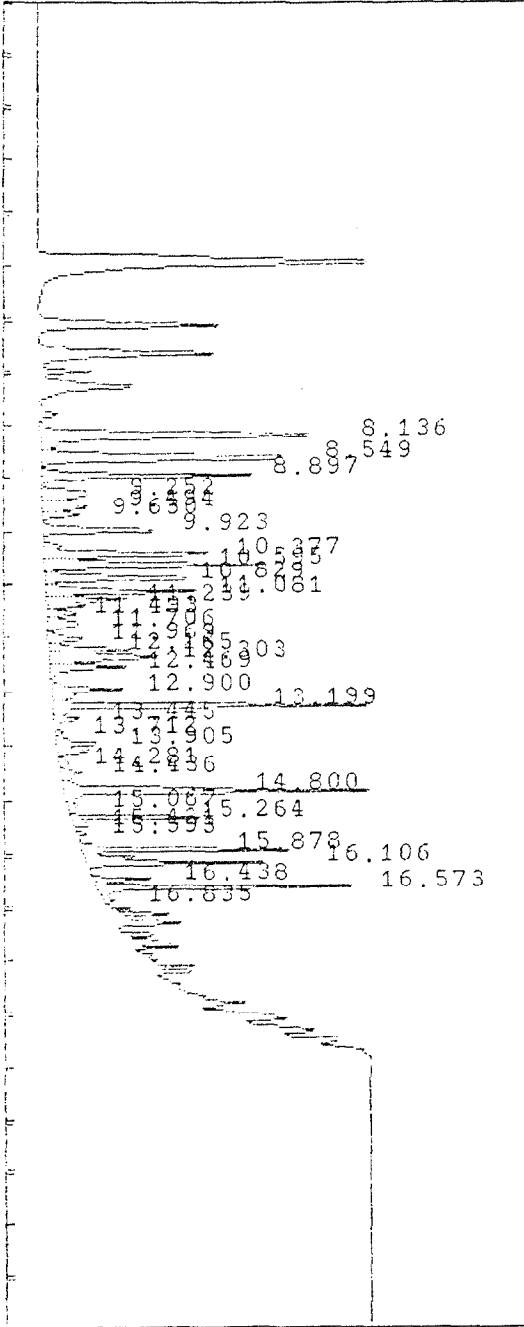
PACE INCORPORATED

CARBON SIX-CARBON TEN
 Sample Name : VSTD 1000 5UL V6145

Page 1
 Report No : 310.01

Instrument : GC07

Subseq/Sample/Bottle: 1/ 2/ 2



Sequence File: /DATA/GC07/SEQUENCE/G70621.SEQ
 Method File : /DATA/GC07/METHOD/TGAS0612.MTH
 Result File : /DATA/GC07/RESULT/S7CF117135.RES

Run Time : 25.02 Minutes Injected on 1425 21Jun1995
 Report Time : 1150 22Jun1995
 Run Status : RunStatusOK

Dil-Fact : 100.00% Sample Amt: 0.0000 Standard Amt: 1.0000

PK#	RT	10-tm Factor	Area	Code	UG/L	Name
1	8.14		714252	VV	21.4275	
2	8.55		652804	VV	19.5841	
3	8.90		476478	VV	14.2943	
4	9.25		161217	VV	4.8365	
5	9.49		149174	VV	4.4752	
6	9.63		73024	VV	2.1907	
7	9.92		214915	VV	6.4475	
8	10.58		345965	PV	10.3790	
9	10.59		523796	VV	15.7136	
10	10.83		366535	VV	10.9961	
11	11.08		564321	VV	61.3051	C7 N-HEPTANE
12	11.24		197097	VV	5.9129	
13	11.49		55571	VV	1.6671	
14	11.71		111848	VV	3.3554	
15	11.97		96398	VV	2.8919	
16	12.16		154623	VV	4.6387	
17	12.30		254481	VV	7.6344	
18	12.47		173930	VV	5.2179	
20	13.20		602635	VV	18.0791	
21	13.44		54850	VV	1.6455	
22	13.71		15494	VV	.4648	
23	13.90		166309	VV	4.9893	
24	14.28		27653	PV	.8296	
26	14.80		723955	VV	21.7187	
27	15.07		30708	VV	.9212	
28	15.26		256741	PV	7.7022	
29	15.42		26533	VV	.7960	
30	15.59		20264	VV	.6079	
31	15.88	#15.89	408329	PV	408328.9000	4 BROMDFLUOROBENZENE
32	16.11		375441	VV	11.2632	
33	16.44		75230	PV	2.2569	
34	16.57		354301	VV	10.6290	
35	16.83		22484	VV	.6745	

Total Area DRO only : 8447346 - 408328.9 - 724456.9 1065

6862.816

408328.9 - 15694.93 = 67/50
 5833.012

PACE INCORPORATED

CARBON SIX-CARBON TEN
 Sample Name : VSTD1000 SULV6145

Page 1
 Report No : 311.01

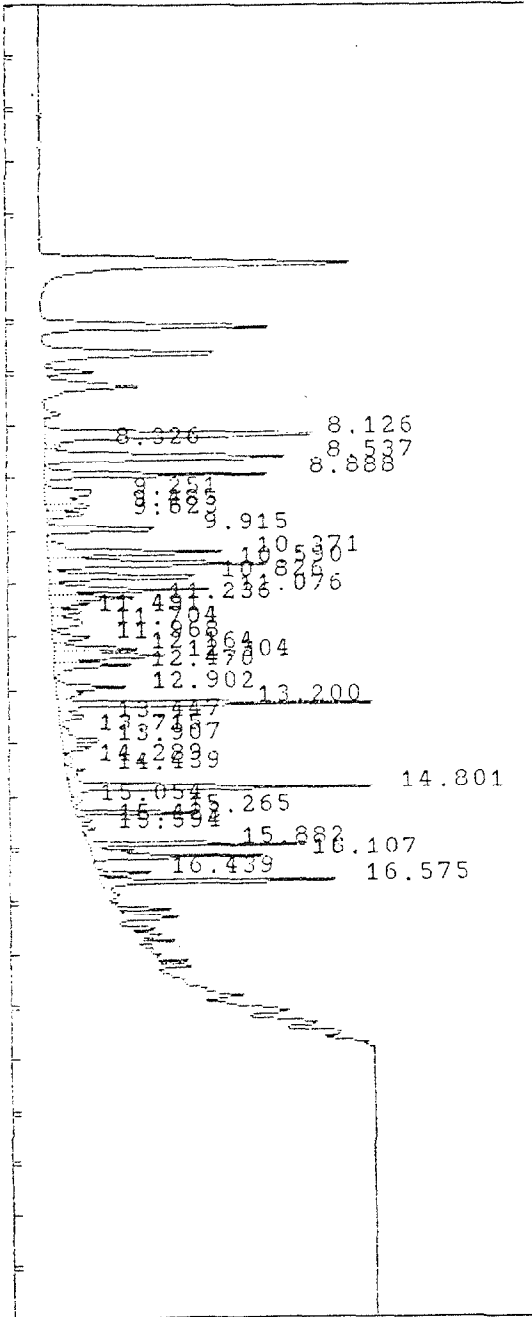
Instrument : GC07

Subseq/Sample/Bottle: 1/ 3/ 3

Sequence File: /DATA/GC07/SEQUENCE/G70621.SEQ
 Method File : /DATA/GC07/METHOD/TGAS0612.MTH
 Result File : /DATA/GC07/RESULT/G7CF117134.RES

Run Time : 25.02 Minutes Injected on 1456 21Jun1995
 Report Time : 1153 22Jun1995
 Run Status : RunStatusOK

Dil-Fact : 100.00% Sample Amt: 0.0000 Standard Amt: 1.0000



PK#	RT	10-tr. Factor	Area	Code	UG/L	Name
1	8.13		687554	VV	29.6266	
2	8.33		36356	VV	1.0907	
3	8.54		619809	VV	19.5943	
4	8.89		494857	VV	14.5457	
5	9.25		212493	PV	6.3761	
6	9.48		102016	VV	3.0605	
7	9.62		72841	VV	2.1952	
8	9.91		215819	VV	6.4746	
9	10.37		362321	PV	10.5789	
10	10.59		532216	VV	16.0965	
11	10.85		379593	VV	11.3928	
12	11.00		562821	VV	61.0950	D7 N-HEPTANE
13	11.24		197788	VV	5.9336	
14	11.49		57300	VV	1.7190	
15	11.70		114715	VV	3.4415	
16	11.97		98001	VV	2.9400	
17	12.16		169675	VV	4.8203	
18	12.30		258700	VV	7.7610	
19	12.47		175665	VV	5.2699	
21	13.20		592793	VV	17.7836	
22	13.45		61256	VV	1.8377	
23	13.71		15592	PV	.4673	
24	13.91		151382	VV	4.5415	
25	14.29		23255	VV	.6976	
27	14.80		703598	VV	21.1080	
28	15.05		28876	VV	.8663	
29	15.26		237915	PV	7.1375	
30	15.42		20225	VV	.6060	
31	15.59		23256	VV	.6977	
32	15.88	#15.89	374549	VV	374548.0000	4 BROMOFLUOROBENZENE
33	16.11		349075	VV	10.4723	
34	16.44		65975	PV	1.9792	
35	16.58		336473	VV	10.0942	

Total Area DR0 only : 8309982 - 374548.8 - 724456.9 = 1050
 6862.816

374548.8 - 15694.93 = 61
 5833.012

PACE New England
VOA SOILS PREP

TOTAL GASOLINE

61028024

61028024
V6254
V6253
61028024

Date/Init	Smpl Ct.	SAMPLE #	Prep Wt. (g)	Pan #	Pan Wt. (g)	Wet Wt. + Pan (g)	Dry Wt. + Pan (g)	% Solid	average	gashes	COMMENTS
CF 6/21/95		B-G1028A	4.0						1ml		MeOH Lot# 9
		LS-G1028A	4.0						1ml	1ml	8
	S1	44436-1	4.2	C1	1.3	7.9	7.1		1ml		9
	S2	-1ms	4.1						1ml	1ml	8
	S3	-1ms0	4.3						1ml	1ml	8
	S4	-2	4.4	C2	1.3	7.8	7.1		2ml		double pressur 9
	S5	-3	4.0	C3	1.3	8.6	8.2		2ml		
	S6	-4	4.4	C4	1.3	8.3	7.3		2ml		
	S7	-5	4.1	C5	1.3	7.0	6.1		2ml		
	S8	-6	4.1	C6	1.3	16.3	11.2		2ml		
	S9	-7	4.4	C7	1.3	10.1	8.3		2ml		
	S10	-8	4.0	C8	1.3	10.4	8.6		2ml		
	S11	-9	4.0	C9	1.3	9.5	8.2		2ml		
	S12	-10	4.4	C10	1.3	9.2	7.8		2ml		
	S13	-11	4.1	C11	1.3	9.1	7.4		2ml		
	S14	-15	4.0	C12	WAR				2ml		

CF 6/22/95

PACE, Incorporated New England - New Hampshire Laboratory

0000037

Instrument GC07
 Reviewed by _____ Date _____

TOTAL GAS

Logbook # 1
 Method EPA modified 8015

surr recov	result file	surr μ L	tube #	sample #	vol	MI	COMMENTS/DATE/INITIALS/METHOD FILE
	G706117132	5 μ l	2	B6062195TG-A	5 μ l		G70621 cfca/2/15 TB-A50612
	33	5 μ l	3	VSTD 1000			5 μ l V6145
	34	5 μ l	3	VSTD 1000			5 μ l V6145
	35		4	B-1028A	100 μ l		
	36		5	LG-1028			
	37		6	44436-1			
	38		7	2			
	39		8	3			
	40		9	4			
	41		10	5			
	42		1	6			
	43		2	7			
	44		3	8			
	45		4	9			
	46		5	10			
	47		6	11			
	48		7	15			near 20ME
	49		8	1MS			
	50		9	1MSD			
	51	5 μ l	10	14	5ml		TB pH > 2 sp. DTS v- cfca/2/15 TB-A50612
	G706117152			BAKE			
	53	5 μ l	1	B6062295TG-A	5ml		
	54	5 μ l	2	VSTD 1000			5 μ l V6145
	55	5 μ l	3	VSTD 1000			5 μ l V6145
	56		4	B-61027B	100 μ l		
	57		5	44421-9			
	58		6	-10			
	59		7	-11			
	60		8	-12			
	61		9	-13			
	62		10	-14			
	63		1	44436-15			
cfca/2/15							sunlight H ₂ O V6255

QUALITY CONTROL DATA
PETROLEUM HYDROCARBONS BY GCFID

BLANK DATA

Laboratory Number: B-H1331
Sample Designation: LABORATORY BLANK
Date Analyzed: 06/21/95
Matrix: SOLID

HYDROCARBON TYPE	CONCENTRATION ug/g	DETECTION LIMIT ug/g
DIESEL	BDL	3

MATRIX SPIKE RECOVERY

Laboratory Number: LSH133
Sample Designation: LABORATORY CONTROL SAMPLE
Date Analyzed: 06/21/95
Matrix: SOLID

COMPOUND	ug/g SAMPLE	ug/g SPIKE	ug/g FOUND	%REC- OVERY
DIESEL	0	33.5	15.9	47

METHOD REFERENCE: EPA SW 846, 3RD EDITION METHOD 8015 (MODIFIED)
AND 3350

QUALITY CONTROL DATA
PETROLEUM HYDROCARBONS BY GCFID

BLANK DATA

Laboratory Number: B-H1332
Sample Designation: LABORATORY BLANK
Date Analyzed: 06/22/95
Matrix: WATER

HYDROCARBON TYPE	CONCENTRATION ug/L	DETECTION LIMIT ug/L
DIESEL	BDL	100

MATRIX SPIKE RECOVERY

Laboratory Number: LSH1332
Sample Designation: LABORATORY CONTROL SAMPLE
Date Analyzed: 06/22/95
Matrix: SOLID

COMPOUND	ug/L IN SAMPLE	ug/L SPIKE	ug/L FOUND	%REC- OVERY
DIESEL	0	1004	803	80

METHOD REFERENCE: EPA SW 846, 3RD EDITION METHOD 8015 (MODIFIED)
AND 3350

PAGE INCORPORATED
Organics Extraction
SOLIDS PREP LOG

PROTOCOL: EPA SW846

SOP #: QA 5547

METHOD: SONC/3550

MATRIX: SOLID

Commercial TEST / LEVEL: PHC 1

COUNT	DATE/INIT	BLANK/SPIKES SAMPLE #	INIT WT (g)	SURR # AMT/CONC.	LCS MS/MSD	SPIKE # AMT/CONC.	HAZSO ₆ (g)	INTER VOL (ml)	ALIQOUT VOL (ml)	FINAL VOL (ml)
-	PA	8H1331	30.	E1342 0.5 mL	LSH1331		60	10.0	10.0	1.0
-	6-21-95	LSH1331	30.	101 PAR	44383-10ms	E1319 200 mL				
3		44436-1	30.86		MSD	5019 N/A				
4		-2	30.56							
5		-3	30.86							
6		-4	30.54							
7		-5	30.64							
8		-6	30.56							
9		-7	30.89							
10		-8	30.83 30.46							
11		-9	30.69 31.22							
12		-10	30.26							
13		-11	30.65							
-		8H1331 B	E10							
-		LSH1331 B				E1319 200 mL				
-		44436-16	30.02 28.02			N/A				

COMMENTS: (E10) Test blank + LCS using 100% Me₂C₁₂
PAR 6-21-95
(210A) - PE ampule - snapped ampule
in (L.S.M.) - and weighed entire

0000032

PACE, INC. NEW ENGLAND - NEW HAMPSHIRE LAB
Organic Extractions
AQUEOUS PREP LOG

PROTOCOL: EPA SWS46

LOGBOOK NO: 2

SOP: PACE NE-NH SOP 5501

METHOD: CONT/3520 SEPF/3510

MATRIX: AQUEOUS

Comm.

TEST/LEVEL: PHC 1

COUNT	DATE/ INT	CONT #	BLANK/ SPIKE/ SAMPLE #	INIT VOL (L)	SURR AMT/ CONC	LCS MS/MSD	SPIKE # AMT/CONC	INTER VOL (mL)	ALIUQUOT VOL (mL)	FINAL VOL (mL)
	<i>Annua</i> 6/22/95	N/A	8H1332	1.0	E1342 0.5mV	(SH)332	N/A	10.0	10.0	1.0
			LSH1332	1.0	0.1ppm	441937ms ASD	E1319 200ml 4.8			
(EID) 16			44436-12	0.955			N/A			
17			-13	0.910						
18			44438-16	1.0						

(EID)

6/28/95
from
fund

(EID)
Annua
6/23/95

COMMENTS: (EID) SAMPLES 44436-12/13 WERE NOT PRESERVED ACIDIC. (Annua)

PACE, Incorporated

```
+-----+  
| INITIAL CALIBRATION SUMMARY |  
+-----+
```

for /DATA/GC12/METHOD/DIESEL004.MTH
Method created: 05/05/95 09:24:55
Method updated: 05/05/95 09:49:40

Result files used for Calibration data:
Level 1 /DATA/GC12/RESULT/G12H00715.RES
Level 2 /DATA/GC12/RESULT/G12H00716.RES
Level 3 /DATA/GC12/RESULT/G12H00717.RES
Level 4 /DATA/GC12/RESULT/G12H00718.RES
Level 5 /DATA/GC12/RESULT/G12H00719.RES

#	Time	Analyte	Correlation	B0 Intercept	B1 Slope	B2 Quadratic
1	4.15	SOLVENT PEAK	.00000	0.00	*****	*****
2	22.25	DIESEL FUEL	1.0000	130.00	4585.31	.15

$$R = B_0 + B_1X + B_2X^2$$

Profil Incorporated
Continuing Calibration Report

Thu Jul 6, 1995 11:20:22 am

\\010012\RESULT\012H01025.RES
\\010012\METHODS\012ESFL004.NTH

Sample: DIESEL 2500PPM PASS5
Injected: Wed Jun 21, 1995 11:20:49 am

RetTime	Analyte	Found	Nominal	SD	Recovery
20.09	DIESEL FUEL	2019.26	2500.000	19.2	80.8

Lab, Incorporated
Continuing Calibration Report

Thu Jun 22, 1995 11:20:39 am

DATA: I2\RESULT\012H01036.RES
Z0018\Z017\REF1000\DI0SELC004.MTH

Sample: DIESEL 2500PPM P0583
Injected: Thu Jun 22, 1995 6:08:08 am

Serial	Analyte	Found	Nominal	%	Recovery
11.0	DIESEL FUEL	2311.0*	2500.000	7.6	92.4

PAGE, Incorporated
Continuing Calibration Report

Thu Jul 6, 1995 11:20:54 am

DATA/G012/RESULT/G12H01047.RES
/DATA/G012/METHOD/DIESEL004.MTH

Sample: DIESEL 2500PPM P0583
Injected: Thu Jun 22, 1995 9:10:21 pm

RetTime	Analyte	Found	Nominal	%D	Recovery
21.36	DIESEL FUEL	2111.23	2500.000	15.6	84.4

PACE, INCORPORATED
GC Instrument Run Log

000029

Reviewed by _____ Date _____

Circle one:
CLP/PHC/OPP/HERB/P-P

Date	init	result file	Sample	MI	v	Method	column	Sequence
5/2/95	HS	T121100714	P8591 J14/C18 500/25 PPM	Y	Y	Calib007	131	G120503
			715 DRU 500ppm P8585			Diesel004		
			716 DRU 500ppm P8584					
			717 DRU 2500ppm P8583					
			718 DRU 5000ppm P8582					
			719 DRU 10000ppm P8581					
			720 1211284 PHC-S			Calib007		
			721 1211284 PHC-S					
			722 43833-3 DRU-S Shed 11-5/12					
			723 43833-4 DRU-S Shed 11-5/12					
			724 43846-1 PHC-S Ramson 11-5/12					
			725 43846-2 PHC-S Ramson 11-5/12					
			726 43846-3 PHC-S Ramson 11-5/12					
			727 43846-4 PHC-S Ramson 11-5/12					
			728 P8580 (145/cube 5042/5104/51ppm) ^{12/13/11}					
5/5/95	HS	G121100729	P8580 (145/cube 5042/5104/51ppm) ^{08/12/07}					
			730 Diesel 2500ppm P8583			Diesel004		
			731 P8580 (145/cube 5042/5104/51ppm) ^{08/12/07}			Calib007		
5/6/95	HS	T121100732	1311286 PENTANE	Y	Y	Calib007	131	G120503
			733 43858-1 PENTANE PHC-S					
			734 43858-2 PENTANE PHC-S					
			735 43858-3 PENTANE PHC-S					
			736 43860-1 PENTANE PHC-S					
			737 43860-2 PENTANE PHC-S					
			738 43860-3 PENTANE PHC-S					
			739 1311287 DRU-S					
			740 1211287 DRU-S NJ-PALE ^{08/12/07}					
			741 DRU 200ppm P8583 ^{08/12/07}			need print		
			742 DRU 200ppm P8583 ^{08/12/07}			Diesel004		
			743 43894-12 DRU-S NJ-PALE 1:10			need print		
			744 43894-13 DRU-S NJ-PALE 1:10					

000031

PACE, INCORPORATED
GC Instrument Run Log

0000036

Circle one:
CLP/PHC/OPP/HERE/P-P

Reviewed by _____ Date _____

Date	init	result file	Sample	MI	✓	Method	column	Sequence
6/24/95	135	G121101015	44346-1 DRO-W Shell 06/21	Y	Y	Diesel004	131	G120620
		016	BH1330 DRO-S					
		017	LSH1330 DRO-S					
		018	44383-10 Shell					
		019	-10MSE					
		020	-10MSOI					
		021	BH133013 Test					
		022	LSH1330B ↓					
		023	Gas/Lube 5042/5104/51 ppm ^{4/11/95} p8580	Y	Y	Calib007A		
6/24/95		024	↓ 9/11-1/95	Y	Y	Diesel004		
		025	Diesel 250ppm p8583 81	↓	↓	Diesel004 Calib007A		
6/24/95	135	G121101026	BH1331 DRO-S	Y	Y	Diesel004	131	G120621
		027	LSH1331					
		028	44436-16					
		029	-1					
		030	-2					
		031	-3					
		032	-4					
		033	-5					
		034	-6					
		035	-7					
		036	Diesel 2500 ppm p8583 92	Y	Y			
		037	44436-8 DRO-S					
		038	-9					
		039	-10			need 1:10		
		040	-11					
		041	BH1331B Test					
		042	LSH1331B ↓					
6/24/95	135	G121101043	44436-10 DRO-S 1210			Diesel004	131	G120622
		044	BH1332 DRO-W					
		045	LSH1332 ↓					

PACE, INCORPORATED
GC Instrument Run Log

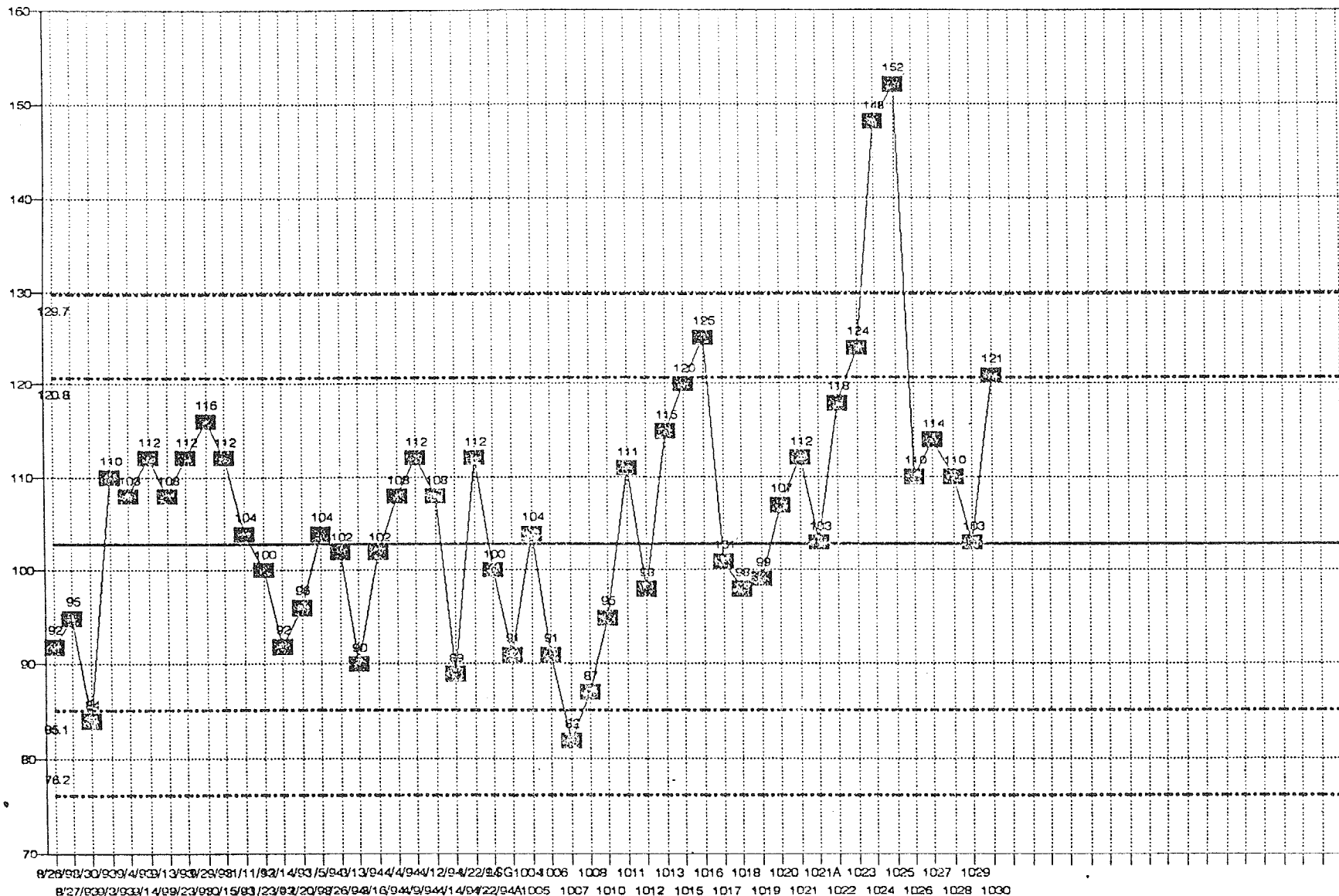
0000037

Reviewed by _____ Date _____

Circle one:
CLP/PHC/OPP/HERB/P-P

Date	init	result file	Sample	MI	V	Method	column	Sequence
11/27/95	115	G121101046	44436-12 WPO-W	Y	Y	Dieselool	131	G120622
		047	Diesel 2500ppm P8883 84					
		048	44436-13 WPO-W					
		049	44438-16 ↓					
		050	Diesel 2500ppm P8883					
6/27/95		051	Bad injectant - Gas/Lube 504/5104/51 ppm ^{10/25/95}	N	N			
		052	change lines, Septa					
11/27/95	115	G121101052	Gas/Lube 504/5104/51 ppm P8883	N	N	Dieselool	131	G120622
		053	↓ ^{105/112/99}	Y	Y	Calibro7A		
		054	BH1336 PHC-0					
		055	44412-1 PHC-0 1:10					
11/27/95	115	G121101056	BH1335 PHC-W	Y	Y	Calibro7A	131	G120627
		057	LSH1335 PHC-W					
		058	44438-16 RE ENSAFE PHC-W					
		059	44455-10 ↓					
		060	-11 ↓					
		061	44495-19 R B SW PHC-W					
		062	-20 ↓					
		063	-21 ↓					
		064	Gas/Lube 504/5104/51 ppm ^{10/25/95}	Y	N			
		065	↓ ^{107/108/100}	Y	Y			
		066	BH1334 PHC-S					
		067	44431-1 PENTANE PHC-S					
		068	-2 ↓					
		069	-3 ↓					
		070	44432-1 ↓					
		071	-2 ↓					
		072	-3 ↓					G120628
11/28/95	115	073	BH1337 PHC-S			Calibro7A	131	
		074	LSH1337 ↓					
		075	44497-4 ↓					

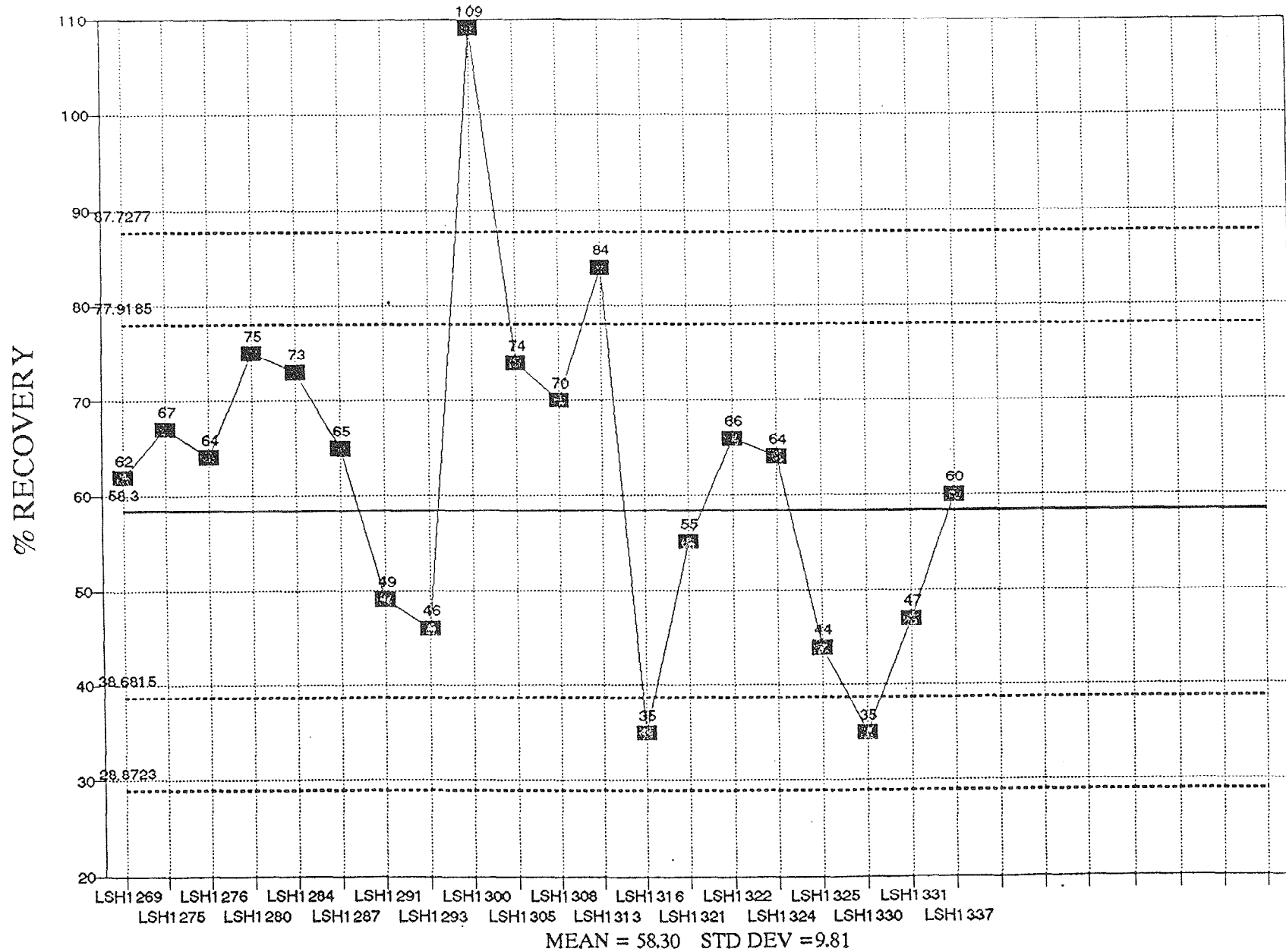
TOTAL GAS LCS RECOVERIES LIMITS SET 4/13/94



0000034

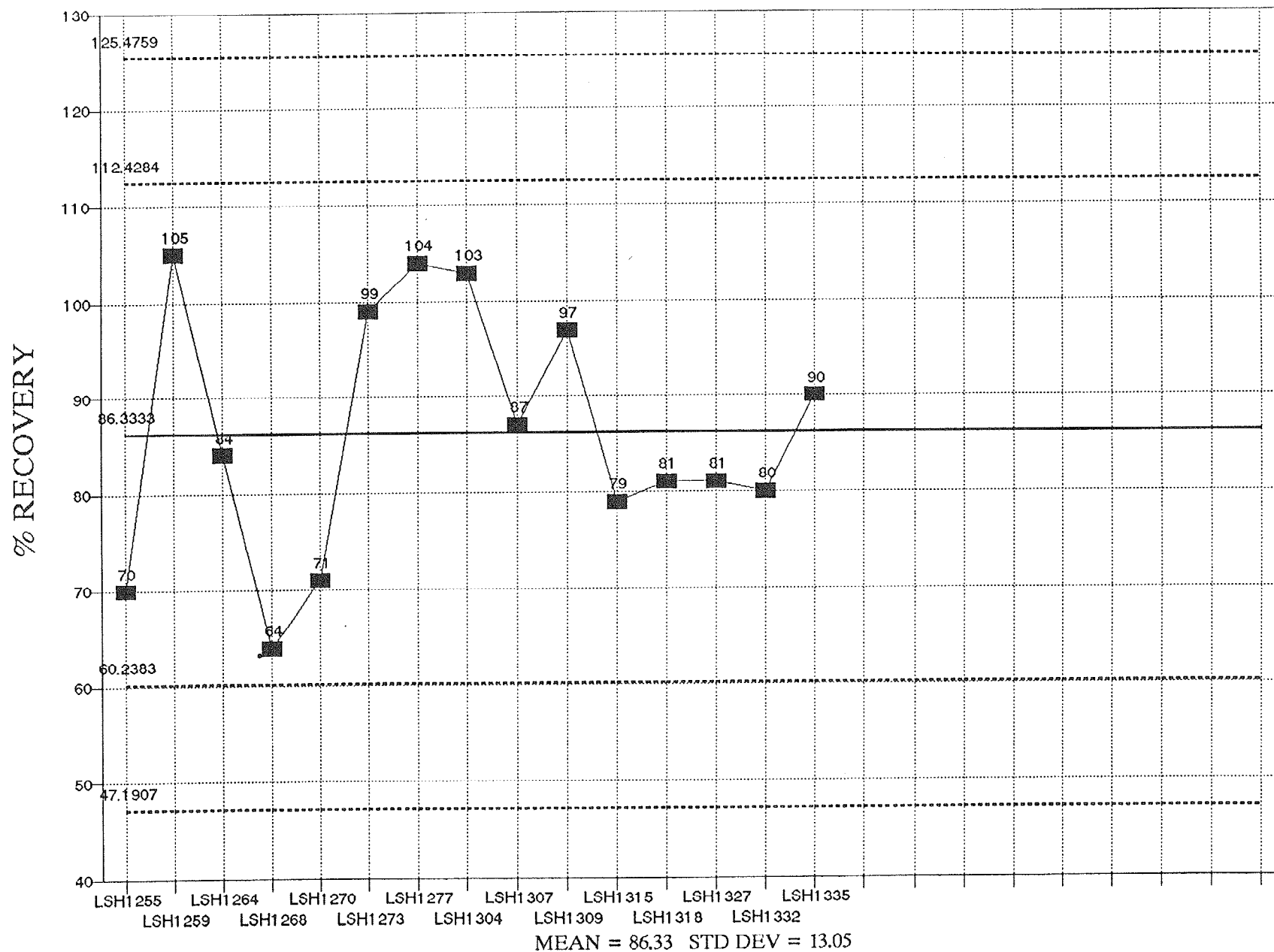
STD DEV = 8.93 MEAN = 103

PHC LOW SOLIDS - DIESEL
 SPK REC LIMS SET6/6/95-PPCBCH\PHCS1294



0000000

PHC WATERS BY SEPF - DIESEL
 SPK REC LIMS SET0795 PPCBCHT\PHCWSF94



0000036



OHM Corporation

CHAIN-OF-CUSTODY RECORD

LAB COPY

Form 0019
Field Technical Services
Rev. 08/89

144107

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME <i>Camp Lejeune DO44</i>		PROJECT LOCATION <i>Camp Greiger</i>	
PROJ. NO. <i>16487</i>	PROJECT CONTACT <i>Randy Smith</i>	PROJECT TELEPHONE NO. <i>(910) 451-1809</i>	
CLIENT'S REPRESENTATIVE		PROJECT MANAGER/SUPERVISOR <i>Jim Dunn</i>	

NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)	REMARKS
	<p style="text-align: center;">5030/8015 TPH 3550/8015 TPH</p> <p style="text-align: center;"><i>44436</i></p>	

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)
1	CLT44-ACS-001	6/20	929		X	Soil Sample from Area C
2	CLT44-ACS-002	6/20	932		X	Soil Sample from Area C
3	CLT44-ABS-003	6/20	951		X	Soil Sample from Area B
4	CLT44-ABS-004	6/20	955		X	Soil Sample from Area B
5	CLT44-AAS-005	6/20	1000		X	Soil Sample from Area A
6	CLT44-AAS-006	6/20	1003		X	Soil Sample from Area A
7	CLT44-AAS-007	6/20	1007		X	Soil Sample from Area A
8	CLT44-AAS-008	6/20	1010		X	Soil Sample from Area A
9	CLT44-AAS-009	6/20	1013		X	Soil Sample from Area A
10	CLT44-AAS-009D	6/20	1013		X	Soil Sample from Area A

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
1	1-10			6/20	1600
2			Betty M. Merrill PACE NH	6/21/89	10:00
3					
4					

REMARKS
<i>48 hr. TAT</i>
SAMPLER'S SIGNATURE

0000037



OHM Corporation

CHAIN-OF-CUSTODY RECORD

LAB COPY

Form 0019
Field Technical Services
Rev. 08/89

144108

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526											
PROJECT NAME <i>Camp Lejeune DO 44</i>				PROJECT LOCATION <i>Camp Geiger</i>						NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)
PROJ. NO. <i>16487</i>		PROJECT CONTACT <i>Randy Smith</i>				PROJECT TELEPHONE NO. <i>(910) 451-1809</i>					
CLIENT'S REPRESENTATIVE				PROJECT MANAGER/SUPERVISOR <i>Jim Dunn</i>							
<div style="display: flex; justify-content: space-between;"> 5030/8015 TPH 3550/8015 TPH </div>											
ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)				REMARKS	
1	CLJ44-ARS-010	6/20	1017		X	<i>Soil Sample from Area A</i>				44436	
2	CLJ44-RB	6/20	1019			<i>Lensate Blank</i>				-11	
3	CLJ44-FB	6/20	1022			<i>Field Blank</i>				-12	
4	CLJ44-TB	6/20	1025			<i>Trip Blank</i>				-13	
5										-14	
6											
7											
8											
9											
10											
TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY			TRANSFERS ACCEPTED BY			DATE	TIME	REMARKS	
1	1-4	<i>[Signature]</i>						6/20	1600	48 hr. TAT	
2					<i>Betty McMorrell PACE NH</i>			6/21/95	10-00		
3										<i>[Signature]</i>	
4										SAMPLER'S SIGNATURE	

0000038

144108



OHM Corporation

CHAIN-OF-CUSTODY RECORD

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526												
PROJECT NAME <i>Camp Lejeune DO 44</i>				PROJECT LOCATION <i>Camp Geiger</i>				NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS) <i>5530/8015 TPH</i> <i>3530/8015 TPH</i>			
PROJ. NO. <i>16487</i>		PROJECT CONTACT <i>Randy Smith</i>		PROJECT TELEPHONE NO. <i>(910) 451-1809</i>								
CLIENT'S REPRESENTATIVE				PROJECT MANAGER/SUPERVISOR <i>Jim Dunn</i>								
ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)						
1	CLJ44-AAS-010	6/20	1017		X	<i>Soil Sample from Area A</i>	1	X	X	-11	44436 REMARKS	
2	CLJ44-RB	6/20	1017			<i>Resate Blank</i>	3	X	X	-12		
3	CLJ44-FB	6/20	1022			<i>Field Blank</i>	3	X	X	-13		
4	CLJ44-TB	6/20	1025			<i>Trip Blank</i>	1	X	X	-14		
5												
6												
7												
8												
9												
10												
TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY			TRANSFERS ACCEPTED BY			DATE	TIME	REMARKS		
1	1-4	<i>[Signature]</i>						6/20	1600	48 hr. TAT <i>[Signature]</i> SAMPLER'S SIGNATURE		
2					Betty McMorrell PAGE NH			6/21/85	10:00			
3												
4												

0000039

144107

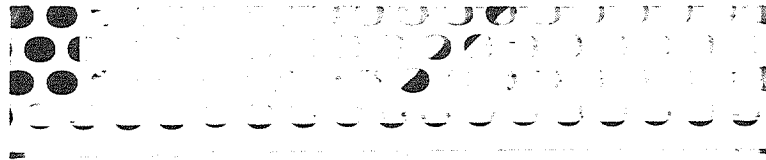


OHM Corporation

CHAIN-OF-CUSTODY RECORD

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526											
PROJECT NAME <i>Camp Lejeune DO44</i>				PROJECT LOCATION <i>Camp Geiger</i>						NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS) <i>5030/8015 3550/8015 TPH</i>
PROJ. NO. <i>16487</i>		PROJECT CONTACT <i>Randy Smith</i>				PROJECT TELEPHONE NO. <i>(910) 451-1909</i>					
CLIENT'S REPRESENTATIVE						PROJECT MANAGER/SUPERVISOR <i>Jim Dunn</i>					
ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)					
									#4436 REMARKS		
1	CLT44-ACS-001	6/20	929		X	Soil Sample from Area C					
2	CLT44-ACS-002	6/20	932		X	Soil Sample from Area C					
3	CLT44-ABS-003	6/20	951		X	Soil Sample from Area B					
4	CLT44-ABS-004	6/20	955		X	Soil Sample from Area B					
5	CLT44-AAS-005	6/20	1000		X	Soil Sample from Area A					
6	CLT44-AAS-006	6/20	1003		X	Soil Sample from Area A					
7	CLT44-AAS-007	6/20	1007		X	Soil Sample from Area A					
8	CLT44-AAS-008	6/20	1010		X	Soil Sample from Area A					
9	CLT44-AAS-009	6/20	1013		X	Soil Sample from Area A					
10	CLT44-AAS-0090	6/20	1013		X	Soil Sample from Area A					
TRANSFER NUMBER	Final Page	ITEM NUMBER	TRANSFERS RELINQUISHED BY			TRANSFERS ACCEPTED BY			DATE	TIME	REMARKS
	1	1-10	<i>[Signature]</i>						6/20	1000	4/8 hr. TAT
	2					Betty M. McNeill FOLEY			6/21/89	10:00	
	3										<i>[Signature]</i> SAMPLER'S SIGNATURE
4											

00000040



OHM REMEDIATION SERVICES CORP.

CASE: OHMRC SDG: LJN05

PACE LAB NUMBER 44436

JULY 11, 1995



REPORT OF LABORATORY ANALYSIS

July 11, 1995

OHM Remediation Services Corporation
5335 Triangle Parkway
Suite 450
Norcross, GA 30092

SAMPLE DELIVERY GROUP NARRATIVE

Case: OHMRC
SDG: LJN05
Laboratory: PACE New England - New Hampshire of Hampton, NH
Lab Numbers: 44436
Protocol: SW846 Method 8080. NEESA C deliverables. No diskette.

Sample Receipt: Samples were received at PACE, Inc. on June 21, 1995. Laboratory sample numbers were assigned for test parameters as listed on the Sample Table which follows this narrative. Sample shipments were checked for custody seal integrity and cooler temperature. Samples were checked for appropriate preservation and accuracy against the Chains-of-Custody provided. Other than the exceptions noted below, samples were received between 2-6° C and in good condition. PACE Sample Receipt Condition Reports can be found with the Chains-of-Custody.

Shipment received 6/21/95 (44436): Samples were received in one cooler. A temperature blank was not included with the shipment, therefore the cooler temperature could not be verified upon receipt of samples at PACE. Samples were received cool, and had been packed on ice. Custody seals were not present on the cooler. Three 1 liter bottles were received for both the rinsate blank and field blank. Because it was inappropriate to perform GRO (a purge and trap volatiles determination) on a water sample not received in VOA vials, the field and rinsate blanks were not logged in for GRO. Additionally, the trip blank was only logged in for GRO, even though both DRO and GRO were checked off on the COC. Rakesh Mishra (OHM) was notified of this problem. Batch, rather than sample QC was assigned for this SDG. The solid sample spiked (PACE Lab# 44383-10) and reported in this SDG as MS/MSD was provided by another PACE client, and was not one selected from this set of OHM samples.

Two ampules of solid reference material were received from Environmental Resource Associates (ERA) in a separate shipment for use as a QC sample with these field samples (ERA Project No. 0613-95-03). The Quality Control Standards provided were for Hydrocarbon Fuels in Soil for both Gasoline and Diesel. Gretchen Franzheim (PACE) notified Rakesh Mishra (OHM) that the instructions for the GRO ampule were for the California DHS headspace analysis method which PACE would not be using for the determination of GRO for these samples. Since the True Values supplied to Theresa Rojas (OHM) for this standard were determined using the California DHS headspace method, it was communicated in conversation that there would probably be little correlation to the value determined by PACE and the ERA-supplied true value for GRO.

GRO Analysis: Analyses proceeded without difficulty. Matrix spikes and duplicates met all acceptance criteria.



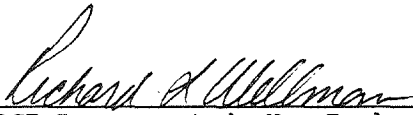
REPORT OF LABORATORY ANALYSIS

SDG Narrative
Case: OHMRC, SDG: LJN05

DRO Analysis: The following laboratory numbers 44436-1 through -12 for diesel range organics contained petroleum hydrocarbon products which did not match diesel.

Statement of Compliancy and Data Authorization

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature.



PACE Incorporated, New England-New Hampshire



July 11, 1995



NEW ENGLAND - NEW HAMPSHIRE LABORATORY
SAMPLE RECEIPT CONDITION REPORT

Tel. (603) 926-7777
FAX (603) 926-7939

LAB# 44436

PAGE 1 of 1
COOLER _____ of _____
COC# 144107 + 144108
SDG# LSN 05
CASE# 04MRC

CLIENT DHM CORPORATION

DATE/TIME RECEIVED 6-21-95 1000

LIMS ENTRY BY GWF

DELIVERED BY FED-EX

TRANSCRIPTION REVIEW BY bd

RECEIVED BY BM

LIMS REVIEW BY/PM GWF

	NA	YES	EXCEPTION	COMMENT	RESOLUTION			
1. CUSTODY SEALS PRESENT/INTACT	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>					
2. CHAIN OF CUSTODY PRESENT IN THIS COOLER	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>					
3. CHAIN OF CUSTODY SIGNED	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>					
4. CHAIN OF CUSTODY MATCHES SAMPLES	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>					
5. SAMPLES RECEIVED AT 2° - 6° C Ice/Ice Packs Present? <input checked="" type="checkbox"/> Y or N	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<u>NO TEMP BLANK</u>				
6. VOLATILES FREE OF HEAD SPACE	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>					
7. TRIP BLANK PRESENT IN THIS COOLER	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>					
8. PROPER SAMPLE CONTAINERS AND VOLUME	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>					
9. SAMPLES WITHIN HOLD TIME	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>					
10. SAMPLES PROPERLY PRESERVED	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>					
11. ANALYTICAL PROGRAMS (circle one)	COMMERCIAL	CLP	EPA-CLP	NYASP	NJ ISRA	<u>NEESA</u>	AFCEE	Other _____
12. NUMBER OF PACE FILTRATIONS:	_____							
13. CORRECTIVE ACTIONS REPORT #	_____							

Log-in Notes:

-15 TGAS Ref. material
-16 DRO Ref material

CLIENT AUTHORIZATION SIGNATURE _____

DATE



NEW ENGLAND - NEW HAMPSHIRE LABORATORY
 SAMPLE RECEIPT CONDITION REPORT
 Tel. (603) 926-7777
 FAX (603) 926-7939

LAB# 44436
 PAGE 1 of 1
 COOLER _____ of _____
 COC# 144157 + 144168
 SDG# L J N 95
 CASE# CitmRe

CLIENT DHM CORPORATION
 DATE/TIME RECEIVED 6-21-95 1000
 DELIVERED BY FED-EX
 RECEIVED BY BM

LIMS ENTRY BY GWF
 TRANSCRIPTION REVIEW BY ed
 LIMS REVIEW BY/PM GWF

	NA	YES	EXCEPTION	COMMENT	RESOLUTION			
1. CUSTODY SEALS PRESENT/INTACT	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>					
2. CHAIN OF CUSTODY PRESENT IN THIS COOLER	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>					
3. CHAIN OF CUSTODY SIGNED	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>					
4. CHAIN OF CUSTODY MATCHES SAMPLES	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>					
5. SAMPLES RECEIVED AT 2° - 6° C Ice/Ice Packs Present? <input checked="" type="checkbox"/> or N	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	NO TEMP BLANK				
6. VOLATILES FREE OF HEAD SPACE	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>					
7. TRIP BLANK PRESENT IN THIS COOLER	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>					
8. PROPER SAMPLE CONTAINERS AND VOLUME	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>					
9. SAMPLES WITHIN HOLD TIME	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>					
10. SAMPLES PROPERLY PRESERVED	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>					
11. ANALYTICAL PROGRAMS (circle one)	COMMERCIAL	CLP	EPA-CLP	NYASP	NJ ISRA	<u>NEESA</u>	AFCEE	Other _____
12. NUMBER OF PACE FILTRATIONS:	_____							
13. CORRECTIVE ACTIONS REPORT #	_____							

Log-in Notes:

-15 TCAS Ref. material
 -16 D20 Ref. material

CLIENT AUTHORIZATION SIGNATURE _____

DATE _____

SAMPLE TABLE

CLIENT ID.	MATRIX	PACE #	PARAMETERS
-----	-----	-----	-----
CLJ44-ACS-001	SOLID	44436-001	TOTAL GASOLINE TOTAL DIESEL
CLJ44-ACS-002	SOLID	44436-002	TOTAL GASOLINE TOTAL DIESEL
CLJ44-ABS-003	SOLID	44436-003	TOTAL GASOLINE TOTAL DIESEL
CLJ44-ABS-004	SOLID	44436-004	TOTAL GASOLINE TOTAL DIESEL
CLJ44-AAS-005	SOLID	44436-005	TOTAL GASOLINE TOTAL DIESEL
CLJ44-AAS-006	SOLID	44436-006	TOTAL GASOLINE TOTAL DIESEL
CLJ44-AAS-007	SOLID	44436-007	TOTAL GASOLINE TOTAL DIESEL
CLJ44-AAS-008	SOLID	44436-008	TOTAL GASOLINE TOTAL DIESEL
CLJ44-AAS-009	SOLID	44436-009	TOTAL GASOLINE TOTAL DIESEL
CLJ44-AAS-009D	SOLID	44436-010	TOTAL GASOLINE TOTAL DIESEL
CLJ44-AAS-010	SOLID	44436-011	TOTAL GASOLINE TOTAL DIESEL
CLJ44-RB	WATER	44436-012	TOTAL DIESEL
CLJ44-FB	WATER	44436-013	TOTAL DIESEL



SAMPLE TABLE
(CONTINUED)

CLIENT ID.	MATRIX	PACE #	PARAMETERS
-----	-----	-----	-----
CLJ44-TB	WATER	44436-014	TOTAL GASOLINE
ERA GAS REFERENCE MATERIAL	SOLID	44436-015	TOTAL GASOLINE
ERA DIESEL REFERENCE MATERIAL	SOLID	44436-016	TOTAL DIESEL

Field Identification: CLJ44-ACS-001

Matrix: SOLID

Parameter	Result	Reporting	Lab No.	Date	QC	Method/Ref.
		Limit		Analyzed	Batch	
Total Gasoline (ug/g)	BDL	14	44436-001	06/12/95	BG1028A	8015(mod)/2
Total Diesel (ug/g)	9.7	3.7	44436-001	06/21/95		8015(mod),3350/2

Field Identification: CLJ44-ACS-002

Matrix: SOLID

Parameter	Result	Reporting	Lab No.	Date	QC	Method/Ref.
		Limit		Analyzed	Batch	
Total Gasoline (ug/g)	BDL	14	44436-002	06/12/95	BG1028A	8015(mod)/2
Total Diesel (ug/g)	17	3.7	44436-002	06/21/95		8015(mod),3350/2

Field Identification: CLJ44-ABS-003

Matrix: SOLID

Parameter	Result	Reporting	Lab No.	Date	QC	Method/Ref.
		Limit		Analyzed	Batch	
Total Gasoline (ug/g)	BDL	14	44436-003	06/12/95	BG1028A	8015(mod)/2
Total Diesel (ug/g)	87	3.4	44436-003	06/21/95		8015(mod),3350/2

Field Identification: CLJ44-ABS-004

Matrix: SOLID

Parameter	Result	Reporting	Lab No.	Date	QC	Method/Ref.
		Limit		Analyzed	Batch	
Total Gasoline (ug/g)	BDL	15	44436-004	06/12/95	BG1028A	8015(mod)/2
Total Diesel (ug/g)	58	3.8	44436-004	06/22/95		8015(mod),3350/2

Field Identification: CLJ44-AAS-005

Matrix: SOLID

Parameter	Result	Reporting	Lab No.	Date	QC	Method/Ref.
		Limit		Analyzed	Batch	
Total Gasoline (ug/g)	BDL	15	44436-005	06/12/95	BG1028A	8015(mod)/2
Total Diesel (ug/g)	15	3.9	44436-005	06/22/95		8015(mod),3350/2

Results expressed on a dry weight basis.

Field Identification: CLJ44-AAS-006

Matrix: SOLID

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Total Gasoline (ug/g)	35	19	44436-006	06/12/95	BG1028A	8015(mod)/2
Total Diesel (ug/g)	36	5.0	44436-006	06/22/95		8015(mod),3350/2

Field Identification: CLJ44-AAS-007

Matrix: SOLID

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Total Gasoline (ug/g)	BDL	16	44436-007	06/12/95	BG1028A	8015(mod)/2
Total Diesel (ug/g)	50	4.1	44436-007	06/22/95		8015(mod),3350/2

Field Identification: CLJ44-AAS-008

Matrix: SOLID

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Total Gasoline (ug/g)	BDL	15	44436-008	06/12/95	BG1028A	8015(mod)/2
Total Diesel (ug/g)	63	4.1	44436-008	06/22/95		8015(mod),3350/2

Field Identification: CLJ44-AAS-009

Matrix: SOLID

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Total Gasoline (ug/g)	BDL	15	44436-009	06/12/95	BG1028A	8015(mod)/2
Total Diesel (ug/g)	250	3.9	44436-009	06/22/95		8015(mod),3350/2

Field Identification: CLJ44-AAS-009D

Matrix: SOLID

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Total Gasoline (ug/g)	BDL	15	44436-010	06/12/95	BG1028A	8015(mod)/2
Total Diesel (ug/g)	590	40	44436-010	06/22/95		8015(mod),3350/2

Results expressed on a dry weight basis.

Field Identification: CLJ44-AAS-010

Matrix: SOLID

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Total Gasoline (ug/g)	BDL	15	44436-011	06/12/95	BG1028A	8015(mod)/2
Total Diesel (ug/g)	24	4.0	44436-011	06/22/95		8015(mod),3350/2

Field Identification: CLJ44-RB

Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Total Diesel (ug/L)	140	100	44436-012	06/22/95		8015(mod),3350/2

Field Identification: CLJ44-FB

Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Total Diesel (ug/L)	BDL	110	44436-013	06/22/95		8015(mod),3350/2

Field Identification: CLJ44-TB

Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Total Gasoline (ug/L)	BDL	100	44436-014	06/21/95		8015(mod)/2

Field Identification: ERA GAS REFERENCE MATERIAL

Matrix: SOLID

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Total Gasoline (ug/g)	422	62	44436-015	06/22/95	BG1028A	8015(mod)/2

Field Identification: ERA DIESEL REFERENCE MATERIAL

Matrix: SOLID

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Total Diesel (ug/g)	230	5.0	44436-016	06/21/95		8015(mod),3350/2

Results for solid samples are expressed on a dry weight basis.

References: 2) EPA SW 846, 3rd Edition



0000009

QUALITY CONTROL DATA
TOTAL GASOLINE

BLANK DATA

Laboratory Number: BG1028A
Sample Designation: LABORATORY BLANK
Date Analyzed: 06/21/95
Matrix: SOLID

COMPOUND	CONCENTRATION ug/g	DETECTION LIMIT ug/g
GASOLINE	BDL	12

MATRIX SPIKE RECOVERY

Laboratory Number: LS-G1028
Sample Designation: LABORATORY CONTROL SAMPLE
Date Analyzed: 06/21/95
Matrix: SOLID

COMPOUND	ug/g IN SAMPLE	ug/g SPIKE	ug/g FOUND	%REC- OVERY
GASOLINE	0	50	55	110

METHOD REFERENCE: METHOD 8015 (MODIFIED)

Calibration Curve for total gas

Title:

Test: total gas
 Date: 06/02/95
 X-Axis: concentration
 Y-Axis: area

Regression Output:

Constant 724456.9
 Std Err of Y Est 305148.5
 R Squared 0.997547
 No. of Observations 5
 Degrees of Freedom 3

	Conc.	Abs.	Calc-Abs.
1	100	1058896	1410737
2	200	1844827	2077020
3	500	4045123	4155865
4	1000	7957574	7587273
5	2000	14248965	14450089

X Coefficient(s) 6862.816
 Std Err of Coef. 196.4819
 Slope = 6862.816
 Y-Intercept = 724456.9

Calibration Curve for bromofluorobenzene

Titles

Test: bromofluorobenzene
 Date: 08/09/98
 X-Axis: concentration
 Y-Axis: area

Regression Output:

Constant 15694.93
 Std Err of Y Est 11300.24
 R Squared 0.997533
 No. of Observations 5
 Degrees of Freedom 3

	Conc.	Abs.	Calc-Abs.
1	10	71195.62	74025.06
2	20	120801.1	132355.2
3	50	320498.9	307345.5
4	100	645433.7	598996.2
5	200	1177067	1182297

X Coefficient(s) 5833.012
 Std Err of Coef. 72.76106
 Slope = 5833.012
 Y-Intercept = 15694.93

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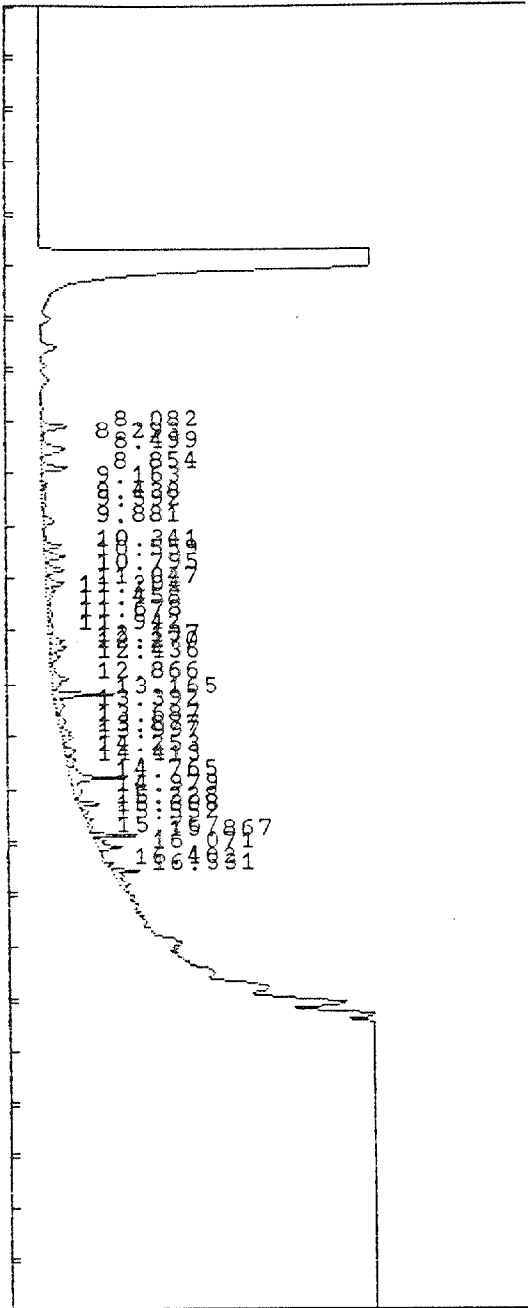
CARBON SIX-CARBON TEN

Sample Name : vstd 100 5ml 5pl v6241

Page 1
Report No : 247.01

Instrument : GC07

Subseq/Sample/Bottle: 1/ 6/ 6



Sequence File: /DATA/GC07/SEQUENCE/G70608.SEQ
Method File : /DATA/GC07/METHOD/TGAS0322.MTH
Result File : /DATA/GC07/RESULT/G7CF117071.RES

Run Time : 25.02 Minutes Injected on 1546 08Jun1995
Report Time : 1415 12Jun1995
Run Status : RunStatusOK
SpecialInteg

Dil-Fact : 100.00% Sample Amt: 0.0000 Standard Amt: 1.0000

PK#	RT	ID-tm	Factor	Area	Code	US/L	Name
1	8.08			69675	VV	2.0903	
2	8.29			4018	VV	.1206	
3	8.50			66286	VV	1.9886	
4	8.85			58092	VV	1.7428	
5	9.16			13984	PV	.4195	
6	9.44			13902	VV	.4195	
7	9.59			6390	VV	.1917	
8	9.88			29436	PV	.8831	
9	10.34			36805	VV	1.1042	
10	10.56			56401	VV	1.6920	
11	10.80			40283	VV	1.2085	
12	11.05			140590	VV	27.7272	C7 N-HEPTANE
13	11.20			22785	VV	.6835	
14	11.46			5915	VV	.1774	
15	11.68			14110	PV	.4233	
16	11.94			18892	VV	.5668	
17	12.14			29567	VV	.8870	
18	12.27			39357	VV	1.1807	
19	12.44			25792	VV	.7738	
21	13.17			80258	PV	2.4077	
22	13.39			39269	VV	1.1781	
23	13.69			24840	PV	.7452	
24	13.88			22040	VV	.6612	
25	14.00			21843	VV	.6553	
26	14.25			29527	VV	.8858	
28	14.77			115978	VV	3.4793	
29	14.98			36655	VV	1.0996	
30	15.23			36037	PV	1.0811	
31	15.40			14669	VV	.4401	
32	15.55			19332	VV	.5800	
34	15.87	#15.85		71199	FF	71198.6200	4 BROMOFLOURBENZENE
35	16.07			62116	PV	1.8635	
36	16.40			12385	PV	.3716	
37	16.53			81388	PV	2.4416	

Total Area DR0 only : 1359895 - 71198.62 = 1288696

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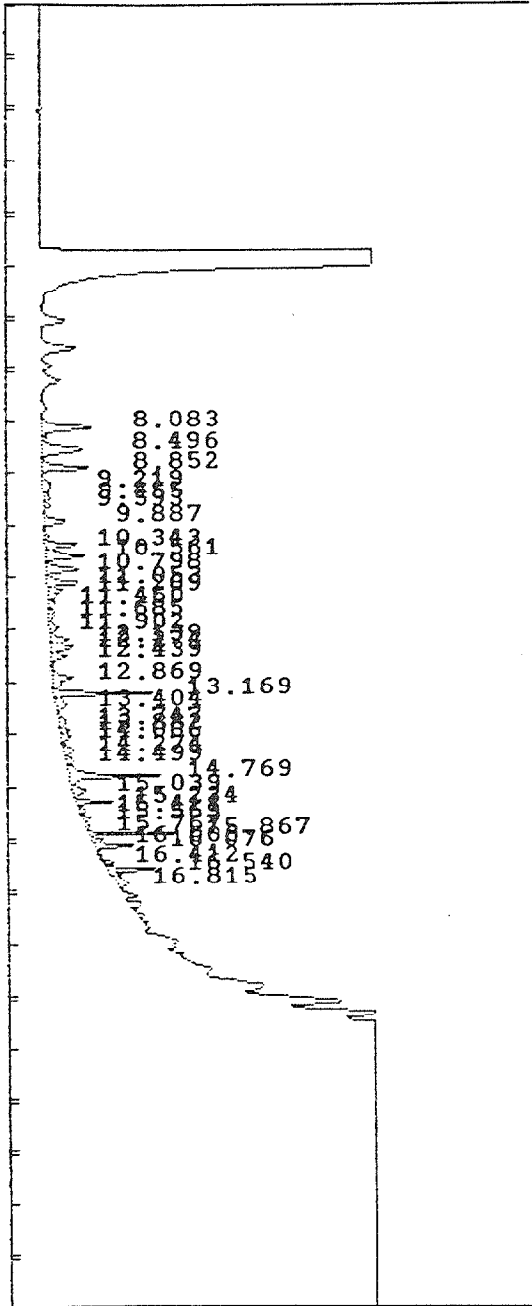
CARBON SIX-CARBON TEN

Sample Name : vstd 200 5ml 10pl V6241

Page 1
Report No : 248.03

Instrument : GC07

Subseq/Sample/Bottle: 1/ 7/ 7



Sequence File: /DATA/GC07/SEQUENCE/G70608.SEQ
Method File : /DATA/GC07/METHOD/TGAS0322.MTH
Result File : /DATA/GC07/RESULT/G7CF117072.RES

Run Time : 25.00 Minutes Injected on 1616 08Jun1995
Report Time : 1447 12Jun1995
Run Status : RunStatusOK
SpecialInteg

Dil-Fact : 100.00% Sample Amt: 0.0000 Standard Amt: 1.0000

Pk#	RT	ID-tm	Factor	Area	Code	UG/L	Name
1	8.08			132886	VV	3.9866	
2	8.50			115075	VV	3.4523	
3	8.85			98626	VV	2.9588	
4	9.22			29376	PV	.8813	
5	9.45			26153	VV	.7846	
6	9.59			12361	VV	.3700	
7	9.89			44846	VV	1.3454	
8	10.34			64957	PV	1.9487	
9	10.56			100530	VV	3.0159	
10	10.80			70640	VV	2.1192	
11	11.05			159006	VV	29.2807	C7 N-HEPTANE
12	11.21			40346	VV	1.2104	
13	11.46			12849	VV	.3855	
14	11.69			21052	VV	.6316	
15	11.90			24394	VV	.7318	
16	12.14			37859	VV	1.1358	
17	12.27			54834	VV	1.6450	
18	12.44			35065	VV	1.0520	
20	13.17			122562	PV	3.6769	
21	13.40			38507	VV	1.1552	
22	13.75			24997	VV	.7499	
23	13.88			21619	VV	.6486	
24	14.01			23394	VV	.7018	
25	14.27			32578	PV	.9774	
27	14.77			164465	VV	4.9340	
28	15.04			47774	VV	1.4332	
29	15.23			49944	PV	1.4983	
30	15.41			12747	VV	.3824	
31	15.57			19342	VV	.5803	
33	15.87	#15.85		120801	FF	120801.1000	4 BROMOFLOUROBENZENE
34	16.00			12682	FF	.3805	
35	16.08			74431	VV	2.2329	
36	16.41			21329	PV	.6399	
37	16.54			75543	VV	2.2663	
38	16.82			41857	VV	1.2557	

Total Area DRO only : 1985428 - 120801.1 = 1864627

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CARBON SIX-CARBON TEN

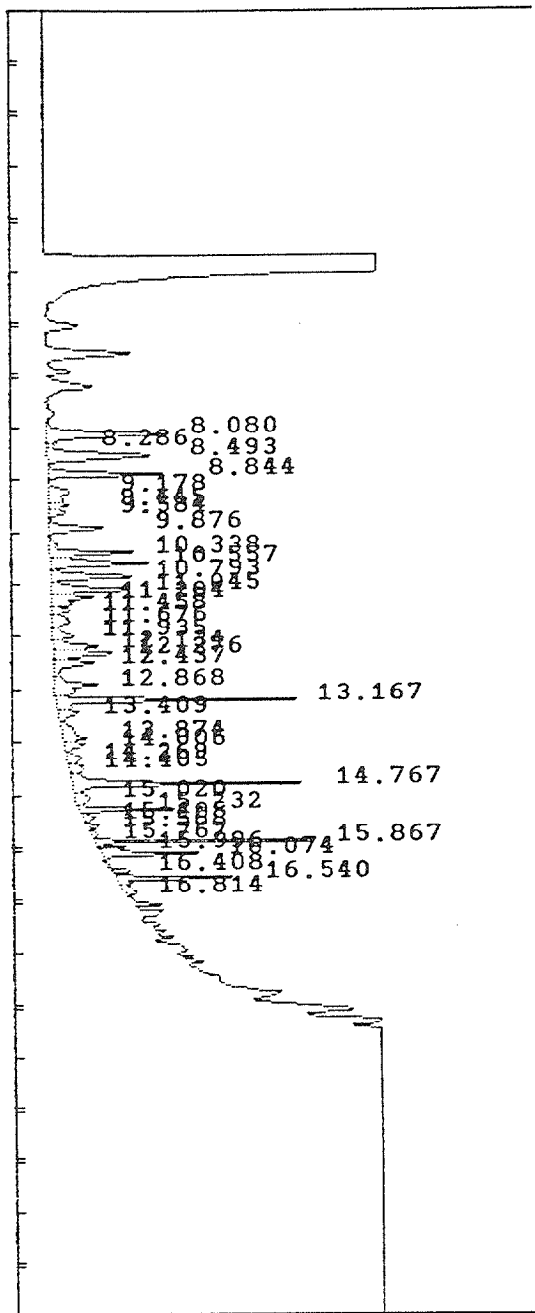
Sample Name : VSTD ^{5ml} ~~500~~ 5pl V 6247

Page 1

Report No : 249.01

Instrument : GC07

Subseq/Sample/Bottle: 1/ 8/ 8



Sequence File: /DATA/GC07/SEQUENCE/G70608.SEQ
 Method File : /DATA/GC07/METHOD/TCAS0322.MTH
 Result File : /DATA/GC07/RESULT/G7CF117073.RES

Run Time : 25.02 Minutes Injected on 1647 08Jun1995
 Report Time : 1427 12Jun1995
 Run Status : RunStatusOK
 SpecialInteg

Dil-Fact : 100.00% Sample Amt: 0.0000 Standard Amt: 1.0000

PK#	RT	ID-tm	Factor	Area	Code	UG/L	Name
1	8.08			325767	VV	9.7730	
2	8.29			16822	VV	.5047	
3	8.49			265257	VV	7.9577	
4	8.84			233247	VV	6.9974	
5	9.18			95227	PV	2.8568	
6	9.44			50008	VV	1.5002	
7	9.58			33375	VV	1.0013	
8	9.88			108106	VV	3.2432	
9	10.34			168930	VV	5.0679	
10	10.56			257228	VV	7.7169	
11	10.79			182597	VV	5.4779	
12	11.05			375607	VV	48.9766	C7 N-HEPTANE
13	11.20			107005	VV	3.2102	
14	11.46			35975	VV	1.0793	
15	11.68			67084	VV	2.0125	
16	11.93			64289	VV	1.9287	
17	12.13			92860	VV	2.7858	
18	12.28			137625	VV	4.1287	
19	12.44			107478	VV	3.2243	
21	13.17			321531	PV	9.6459	
22	13.41			58233	VV	1.7470	
23	13.87			100703	VV	3.0211	
24	14.01			44479	VV	1.3344	
25	14.27			38005	VV	1.1401	
27	14.77			374985	VV	11.2496	
28	15.02			56603	VV	1.6981	
29	15.23			128637	PV	3.8591	
30	15.41			22694	VV	.6808	
31	15.57			27516	VV	.8255	
33	15.87	#15.85		320499	FF	320498.9000	4 BROMOFLOUROBENZENE
34	16.00			18127	FF	.5438	
35	16.07			174394	VV	5.2318	
36	16.41			40966	PV	1.2290	
37	16.54			166363	VV	4.9909	
38	16.81			47397	VV	1.4219	

Total Area DRO only : 4665622 - 3 20 498.9 = 434 5123

PACE INCORPORATED

CARBON SIX-CARBON TEN

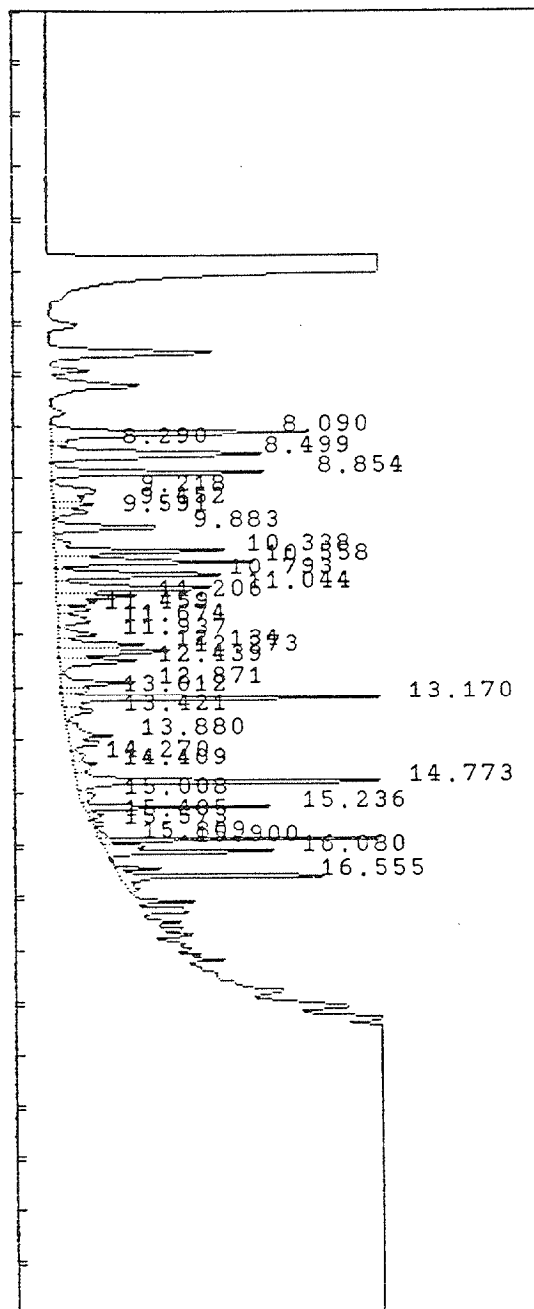
Sample Name : V STD 500 5ml 1000 5 ml V6145

Page 1

Report No : 250.01

Instrument : GC07

Subseq/Sample/Bottle: 1/ 9/ 9



Sequence File: /DATA/GC07/SEQUENCE/G70608.SEQ
 Method File : /DATA/GC07/METHOD/TGAS0322.MTH
 Result File : /DATA/GC07/RESULT/G7CF117074.RES

Run Time : 25.00 Minutes Injected on 1717 08Jun1995
 Report Time : 1431 12Jun1995
 Run Status : RunStatusOK
 SpecialInteg

Dil-Fact : 100.00% Sample Amt: 0.0000 Standard Amt: 1.0000

Pk#	RT	ID-tm	Factor	Area	Code	UG/L	Name
1	8.09			666092	VV	19.9828	
2	8.29			34119	VV	1.0236	
3	8.50			530089	VV	15.9027	
4	8.85			474430	VV	14.2329	
5	9.22			203618	PV	6.1085	
6	9.45			97204	VV	2.9161	
7	9.59			68241	VV	2.0472	
8	9.88			211608	VV	6.3483	
9	10.34			339658	VV	10.1897	
10	10.56			516418	VV	15.4925	
11	10.79			365312	VV	10.9594	
12	11.04			551363	VV	64.8184	C7 N-HEPTANE
13	11.21			195893	VV	5.8768	
14	11.46			60834	VV	1.8250	
15	11.67			118588	VV	3.5576	
16	11.94			105967	VV	3.1790	
17	12.13			163606	VV	4.9082	
18	12.27			259941	VV	7.7982	
19	12.44			186511	VV	5.5953	
21	13.01			70590	VV	2.1177	
22	13.17			589132	PV	17.6740	
23	13.42			71777	VV	2.1533	
24	13.88			200051	VV	6.0015	
25	14.27			36124	VV	1.0837	
27	14.77			687566	VV	20.6270	
28	15.01			55268	VV	1.6580	
29	15.24			239386	PV	7.1816	
30	15.40			29582	VV	.8875	
31	15.57			30765	VV	.9229	
33	15.90	#15.85		605434	FF	605433.7000	4 BROMOFLOUROBENZENE
34	16.08			375142	VV	11.2543	
35	16.55			418699	PV	12.5610	

Total Area DR0 only : 8559008 - 605433.7 = 7953574

PACE INCORPORATED

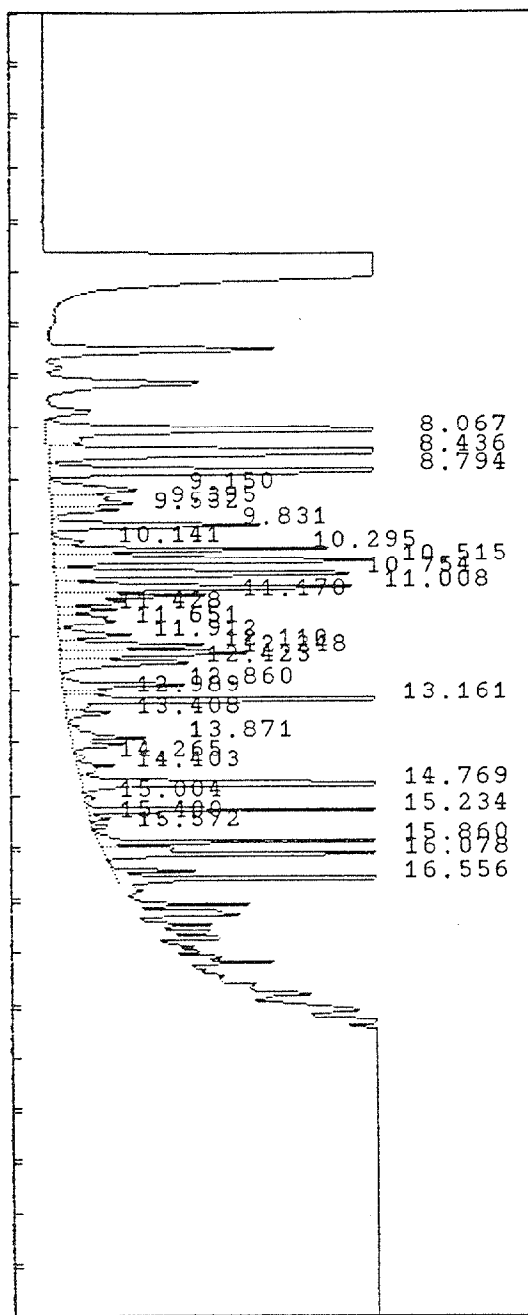
CARBON SIX-CARBON TEN

Sample Name : VSTD 2000 5ml 10pl V6145

Page 1
Report No : 251.02

Instrument : GC07

Subseq/Sample/Bottle: 1/ 10/ 10



Sequence File: /DATA/GC07/SEQUENCE/G70608.SEQ
Method File : /DATA/GC07/METHOD/TGAS0322.MTH
Result File : /DATA/GC07/RESULT/G7CF117075.RES

Run Time : 25.02 Minutes Injected on 1748 08Jun1995
Report Time : 1451 12Jun1995
Run Status : RunStatusOK
SpecialInteg

Dil-Fact : 100.00% Sample Amt: 0.0000 Standard Amt: 1.0000

Pk#	RT	ID-tm	Factor	Area	Code	UG/L	Name
1	8.07			1328316	FF	39.8495	
2	8.44			1143347	VV	34.3004	
3	8.79			1783316	VV	175.7038	C6 N-HEXANE
4	9.15			296166	VV	8.8850	
5	9.40			276058	VV	8.2817	
6	9.53			133180	VV	3.9954	
7	9.83			398672	VV	11.9602	
8	10.14			57286	PV	1.7186	
9	10.30			578324	VV	17.3497	
10	10.51			974849	VV	29.2455	
11	10.75			681491	VV	20.4447	
13	11.17			359799	VV	10.7940	
14	11.43			111177	VV	3.3353	
15	11.65			207490	VV	6.2247	
16	11.91			180264	VV	5.4079	
17	12.11			282796	VV	8.4839	
18	12.25			479851	VV	14.3955	
19	12.42			318515	VV	9.5555	
21	12.99			98041	VV	2.9412	
22	13.16			1063126	VV	31.8938	
23	13.41			91342	VV	2.7403	
24	13.87			272257	PV	8.1677	
25	14.26			18050	PV	.5415	
27	14.77			1201453	VV	36.0436	
28	15.00			25823	VV	.7747	
29	15.23			415274	VV	12.4582	
30	15.40			30109	VV	.9033	
31	15.57			33410	VV	1.0023	
32	15.86	#15.85		1177087	PV	1177087.0000	4 BROMOFLOUROBENZENE
33	16.08			698340	VV	20.9502	
34	16.56			710840	PV	21.3252	

Total Area DRO only : 15426052 - 1177087 = 14248965

PACE INCORPORATED

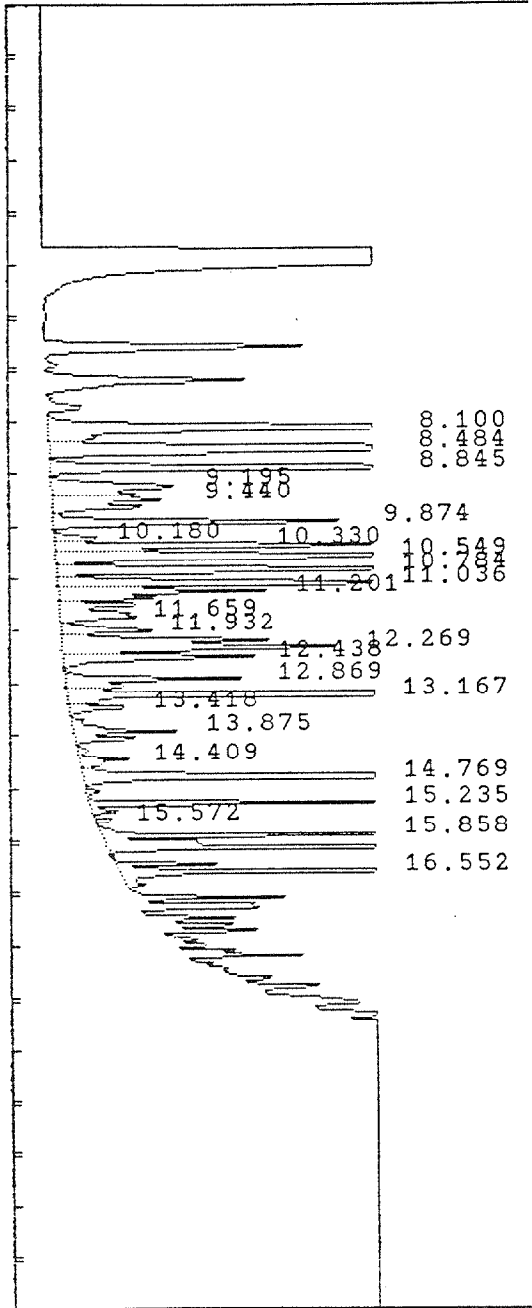
CARBON SIX-CARBON TEN

Sample Name : VSTD 3000 5ml 15 pl V6145

Page 1
Report No : 252.02

Instrument : GC07

Subseq/Sample/Bottle: 1/ 11/ 11



Sequence File: /DATA/GC07/SEQUENCE/G70608.SEQ
Method File : /DATA/GC07/METHOD/TGAS0322.MTH
Result File : /DATA/GC07/RESULT/G7CF117076.RES

Run Time : 25.02 Minutes Injected on 1819 08Jun1995
Report Time : 1454 12Jun1995
Run Status : RunStatusOK
SpecialInteg

Dil-Fact : 100.00% Sample Amt: 0.0000 Standard Amt: 1.0000

Pk#	RT	ID-tm	Factor	Area	Code	UG/L	Name
1	8.10			1862301	FF	55.8690	
2	8.48			1399897	VV	41.9969	
3	8.84			1250981	VV	37.5294	
4	9.19			528178	VV	15.8454	
5	9.44			466729	VV	14.0019	
6	9.87			555778	VV	16.6733	
7	10.18			79045	PV	2.3714	
8	10.33			814298	VV	24.4289	
9	10.55			1366773	VV	41.0032	
10	10.78			956826	VV	28.7048	
11	11.04			1369312	VV	133.7754	C7 N-HEPTANE
12	11.20			493976	VV	14.8193	
13	11.66			438804	VV	13.1641	
14	11.93			248605	VV	7.4582	
15	12.27			1049009	VV	31.4703	
16	12.44			440308	VV	13.2092	
18	13.17			1450417	VV	43.5125	
19	13.42			121711	VV	3.6513	
20	13.88			359236	PV	10.7771	
22	14.77			1647026	VV	49.4108	
23	15.23			595961	PV	17.8788	
24	15.57			35660	PV	1.0698	
25	15.86	#15.85		2678321	VV	2678321.0000	4 BROMOFLUOROBENZENE
26	16.55			972720	PV	29.1816	

Total Area DRD only : 21181872 - 2678321 = 18503551

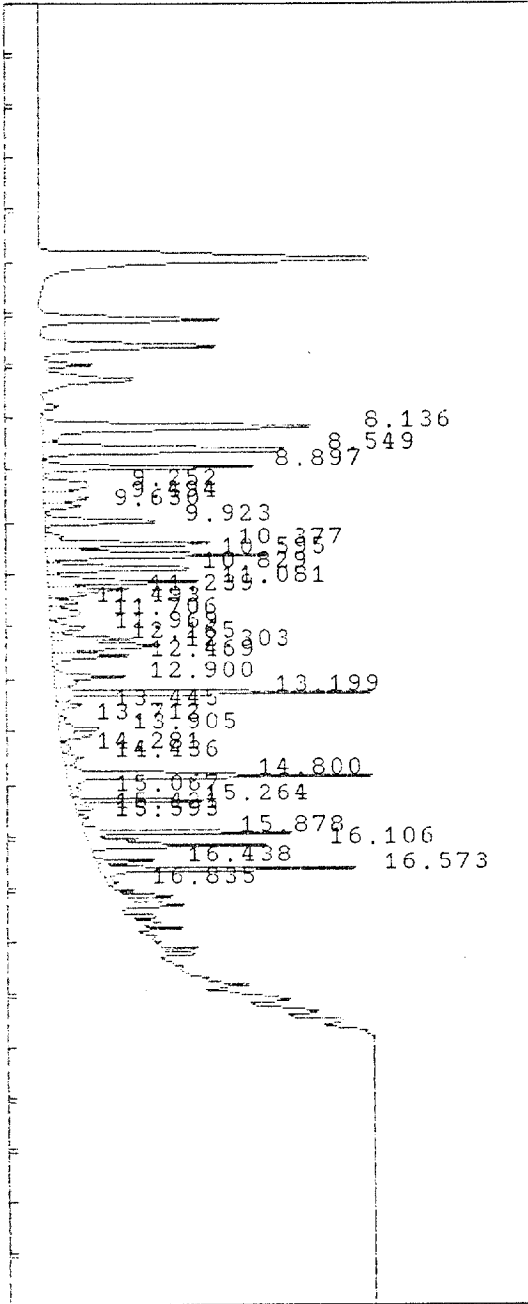
PACE INCORPORATED

CARBON SIX-CARBON TEN
 Sample Name : VSTD 1000 SUL V6145

Page 1
 Report No : 310.01

Instrument : GC07

Subseq/Sample/Bottle: 1/ 2/ 2



Sequence File: /DATA/GC07/SEQUENCE/G70621.SEQ
 Method File : /DATA/GC07/METHOD/TCAS0612.MTH
 Result File : /DATA/GC07/RESULT/G7CF117133.RES

Run Time : 25.02 Minutes Injected on 1425 21Jun1995
 Report Time : 1150 22Jun1995
 Run Status : RunStatusOK

Dil-Fact : 100.00% Sample Amt: 0.0000 Standard Amt: 1.0000

PK#	RT	ID-tm	Factor	Area	Code	UG/L	Name
1	8.14			714252	VV	21.4275	
2	8.55			652804	VV	19.5841	
3	8.90			476478	VV	14.2943	
4	9.25			161217	VV	4.8365	
5	9.49			149174	VV	4.4752	
6	9.63			73024	VV	2.1907	
7	9.92			214915	VV	6.4475	
8	10.38			345965	PV	10.3790	
9	10.59			523786	VV	15.7136	
10	10.83			366535	VV	10.9961	
11	11.08			564321	VV	61.3051	C7 N-HEPTANE
12	11.24			197077	VV	5.9129	
13	11.49			55571	VV	1.6671	
14	11.71			111848	VV	3.3554	
15	11.97			96398	VV	2.8919	
16	12.16			154623	VV	4.6387	
17	12.30			254481	VV	7.6344	
18	12.47			173930	VV	5.2179	
20	13.20			602635	VV	18.0791	
21	13.44			54850	VV	1.6455	
22	13.71			15494	VV	.4648	
23	13.90			166309	VV	4.9893	
24	14.28			27653	PV	.8296	
26	14.80			723955	VV	21.7187	
27	15.07			30708	VV	.9212	
28	15.26			256741	PV	7.7022	
29	15.42			26533	VV	.7960	
30	15.59			20264	VV	.6079	
31	15.88	#15.89		408329	PV	408328.9000	4 BROMOFLUOROBENZENE
32	16.11			375441	VV	11.2632	
33	16.44			75230	PV	2.2569	
34	16.57			354301	VV	10.6290	
35	16.83			22484	VV	.6745	

Total Area DR0 only : 8447346 - 408328.9 - 724456.9 1065

6862.816

408328.9 - 15694.93 = 67/50
 5833.012

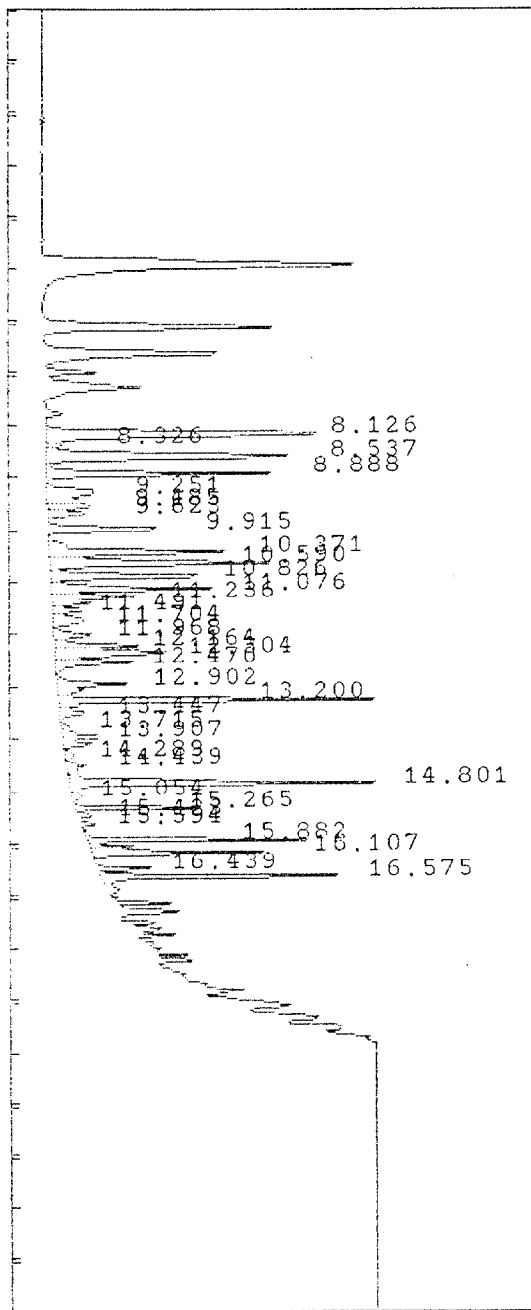
PACE INCORPORATED

CARBON SIX-CARBON TEN
 Sample Name : VSTD1000 5ULV6145

Page 1
 Report No : 311.01

Instrument : GC07

Subseq/Sample/Bottle: 1/ 3/ 3



Sequence File : /DATA/GC07/SEQUENCE/G70621.SEQ
 Method File : /DATA/GC07/METHOD/TGAS0612.MTH
 Result File : /DATA/GC07/RESULT/G7CF117134.RES

Run Time : 25.02 Minutes Injected on 1456 21Jun1995
 Report Time : 1153 22Jun1995
 Run Status : RunStatusOK

Dil-Fact : 100.00% Sample Amt: 0.0000 Standard Amt: 1.0000

PK#	RT	ID-tn	Factor	Area	Code	UG/L	Name
1	8.13			687554	UV	20.6266	
2	8.33			36356	UV	1.0907	
3	8.54			619809	UV	18.5943	
4	8.89			484857	UV	14.5457	
5	9.25			212603	PV	6.3781	
6	9.48			102016	UV	3.0605	
7	9.62			72841	UV	2.1852	
8	9.91			215019	UV	6.4746	
9	10.37			352631	PV	10.5789	
10	10.59			536216	UV	16.0865	
11	10.83			379593	UV	11.3878	
12	11.08			562621	UV	61.8950	C7 N-HEPTANE
13	11.24			197788	UV	5.9336	
14	11.49			57300	UV	1.7190	
15	11.70			114715	UV	3.4415	
16	11.97			98001	UV	2.9400	
17	12.16			160675	UV	4.8203	
18	12.30			258700	UV	7.7610	
19	12.47			175665	UV	5.2699	
21	13.20			592793	UV	17.7838	
22	13.45			61256	UV	1.8377	
23	13.71			15592	PV	.4678	
24	13.91			151382	UV	4.5415	
25	14.29			23255	UV	.6976	
27	14.80			703598	UV	21.1080	
28	15.05			28876	UV	.8663	
29	15.26			237915	PV	7.1375	
30	15.42			20225	UV	.6068	
31	15.59			23256	UV	.6977	
32	15.88	#15.89		374549	UV	374548.8000	4 BROMOFLUOROCENZENE
33	16.11			349075	UV	10.4723	
34	16.44			65975	PV	1.9792	
35	16.58			336473	UV	10.0942	

Total Area DRO only : 8309982 - 374548.8 - 724456.9 = 1050
 6862.816

374548.8 - 15694.93 = 61
 5833.012

PACE New England
VOA SOILS PREP

TOTAL GASOLINE

61028024

average to 16254
16253
order 34280

Date/Init	Smpi Ct.	SAMPLE #	Prep Wt. (g)	Pan #	Pan Wt. (g)	Wet Wt. + Pan (g)	Dry Wt. + Pan (g)	% Solid	average to 16254	16253	COMMENTS
CF 6/21/95		B-G1028A	4.0						1ml MeOH Lot# 9		
		LS-G1028D	4.0						1ml	1ml	8
	S1	44436-1	4.2	C1	1.3	7.9	7.1		1ml		9
	S2	-1m5	4.1						1ml	1ml	8
	S3	-1m5D	4.3						1ml	1ml	8
	S4	-2	4.4	C2	1.3	7.8	7.1		2ml		double essur/ 9
	S5	-3	4.0	C3	1.3	8.6	8.2		2ml		
	S6	-4	4.4	C4	1.3	8.3	7.3		2ml		
	S7	-5	4.1	C5	1.3	7.0	6.1		2ml		
	S8	-6	4.1	C6	1.3	16.3	11.2		2ml		
	S9	-7	4.4	C7	1.3	10.1	8.3		2ml		
	S10	-8	4.0	C8	1.3	10.4	8.6		2ml		
	S11	-9	4.0	C9	1.3	9.5	8.2		2ml		
	S12	-10	4.4	C10	1.3	9.2	7.8		2ml		
	S13	-11	4.1	C11	1.3	9.1	7.4		2ml		
	S14	-15	4.0	C14	WAR				2ml		
<p>CF 6/22/95</p>											

PACE, Incorporated New England - New Hampshire Laboratory

0000037

Instrument GC07
Reviewed by _____ Date _____

TOTAL GAS

Logbook # 1
Method EPA modified 8015

surr recov	result file	surr μL	tube #	sample #	vol	MI	COMMENTS/DATE/INITIALS/METHOD FILE	
	G706117132	5μl	1	B6062195TB-A	5μl		G70621 CF 6/21/95 TB-A50612	
	33	5μl	2	VSTD1000	↓		5μl V6145	
	34	5μl	3	VSTD1000	↓		5μl V6145	
	35		4	B61028A	100μl			
	36		5	L61028B				
	37		6	44436-1				
	38		7	2				
	39		8	3				
	40		9	4				
	41		10	5				
	42		1	6				
	43		2	7				
	44		3	8				
	45		4	9				
	46		5	10				
	47		6	11				
	48		7	15			near 20μl	
	49		8	1MS				
	50		9	1MSD	↓			
	51	5μl	10	14	5ml		TB pH > 2 Spd DFB V-	
	G706117152			BAKE			CF 6/22/95 TB-A50612	
	53	5μl	1	B6062295TB-A	5ml			
	54	5μl	2	VSTD1000	↓		5μl V6145	
	55	5μl	3	VSTD1000	↓		5μl V6145	
	56		4	B61027B	100μl			
	57		5	44421-9				
	58		6	-10				
	59		7	-11				
	60		8	-12				
	61		9	-13				
	62		10	-14	↓			
	63		1	44436-15	some some			
CF 6/23/95								some right to H2O V6255

QUALITY CONTROL DATA
PETROLEUM HYDROCARBONS BY GCFID

BLANK DATA

Laboratory Number: B-H1331
Sample Designation: LABORATORY BLANK
Date Analyzed: 06/21/95
Matrix: SOLID

HYDROCARBON TYPE	CONCENTRATION ug/g	DETECTION LIMIT ug/g
DIESEL	BDL	3

MATRIX SPIKE RECOVERY

Laboratory Number: LSH133
Sample Designation: LABORATORY CONTROL SAMPLE
Date Analyzed: 06/21/95
Matrix: SOLID

COMPOUND	ug/g SAMPLE	ug/g SPIKE	ug/g FOUND	%REC- OVERY
DIESEL	0	33.5	15.9	47

METHOD REFERENCE: EPA SW 846, 3RD EDITION METHOD 8015 (MODIFIED)
AND 3350

QUALITY CONTROL DATA
PETROLEUM HYDROCARBONS BY GCFID

BLANK DATA

Laboratory Number: B-H1332
Sample Designation: LABORATORY BLANK
Date Analyzed: 06/22/95
Matrix: WATER

HYDROCARBON TYPE	CONCENTRATION ug/L	DETECTION LIMIT ug/L
DIESEL	BDL	100

MATRIX SPIKE RECOVERY

Laboratory Number: LSH1332
Sample Designation: LABORATORY CONTROL SAMPLE
Date Analyzed: 06/22/95
Matrix: SOLID

COMPOUND	ug/L IN SAMPLE	ug/L SPIKE	ug/L FOUND	%REC- OVERY
DIESEL	0	1004	803	80

METHOD REFERENCE: EPA SW 846, 3RD EDITION METHOD 8015 (MODIFIED)
AND 3350

PACE INCORPORATED
Organics Extraction
SOLIDS PREP LOG

PROTOCOL: EPA 846

SOP #:

2A5547

METHOD: SONC/3550

MATRIX: SOLID

Commerad

TEST / LEVEL: PHC 1

COUNT	DATE/INIT	BLANK/SPIKES SAMPLE #	INIT WT (g)	SURR # AMT/CONC.	LCS MS/MSD	SPIKE # AMT/CONC.	HA2SO4 (g)	INTER VOL (ml)	ALIQOT VOL (ml)	FINAL VOL (ml)
-	PA	BH 1331	30.	E1342 0.5 ml	LSH1331		60	10.0	10.0	1.0
-	6-21-95	LSH1331	30.	101 ppm	44383-10ms	E1319 200 ml				
3		44436-1	30.86		msd	5019 ppm 2/1A				
4		-2	30.56							
5		-3	30.86							
6		-4	30.54							
7		-5	30.64							
8		-6	30.56							
9		-7	30.89							
10		-8	30.83 30.46							
11		-9	30.69 30.69							
12		-10	30.26							
13		-11	30.65							
-		BH1331 B (E10)								
-		LSH1331 B				E1319 200 ml				
-		44436-16 (not)	20.07			N/A				

COMMENTS: (E10) Test blank T LCS using 100% Me₂S
 PA 6-21-95
 (not) PE ampule - snapped around
 in lab - and weighed fine

PACE, INC. NEW ENGLAND - NEW HAMPSHIRE LAB
Organic Extractions
AQUEOUS PREP LOG

PROTOCOL: EPA SWS46

LOGBOOK NO: 2

SOP: PACE NE-NH SOP 5501

METHOD: CONT/3520 SEPF/3610

MATRIX: AQUEOUS

Comm.

TEST/LEVEL: PHC 1

COUNT	DATE/INT	CONT #	BLANK/SPIKE/SAMPLE #	INT VOL (L)	SURR AMT/CONC	LCS MS/MSD	SPIKE # AMT/CONC	INTER VOL (mL)	ALIQVOT VOL (mL)	FINAL VOL (mL)
	<i>anum</i> 6/22/95	N/A	BH1332	1.0	E1342 0.5mV	LSH1332	N/A	10.0	10.0	1.0
			LSH1332	1.0	101ppm	441937us a.d.	E1317 200ul 98			
(80) 16			44436-12	0.955			N/A			
17			-13	910						
18			44438-16	1.0						
<p>(12) <i>anum</i> 6/23/95</p>										

6 tests from 16-18

COMMENTS: (80) SAMPLES 44436-12/13 WERE NOT PRESERVED ACIDIC. (anum)

PACE, Incorporated

+-----+
| INITIAL CALIBRATION SUMMARY |
+-----+

for /DATA/GC12/METHOD/DIESEL004.MTH
Method created: 05/05/95 09:24:55
Method updated: 05/05/95 09:49:40

Result files used for Calibration data:
Level 1 /DATA/GC12/RESULT/G12H00715.RES
Level 2 /DATA/GC12/RESULT/G12H00716.RES
Level 3 /DATA/GC12/RESULT/G12H00717.RES
Level 4 /DATA/GC12/RESULT/G12H00718.RES
Level 5 /DATA/GC12/RESULT/G12H00719.RES

#	Time	Analyte	Correlation	B ₀ Intercept	B ₁ Slope	B ₂ Quadratic
1	4.15	SOLVENT PEAK	.00000	0.00	*****	*****
2	22.25	DIESEL FUEL	1.0000	130.00	4585.31	.15

$$R = B_0 + B_1X + B_2X^2$$

PROF, Incorporated
Controlling Calibration Report

Thu Jul 6, 1995 11:20:22 am

\\PROF\SLIC\RESULT\012H01025.885
X:\PROF\SLIC\METHOD\DIESEL004.BTH

Sample: DIESEL 2500PPM P8585
Injection: Wed Jun 21, 1995 11:20:49 am

RefTime	Analyte	Found	Nominal	SD	Recovery
27.997	DIESEL FUEL	2019.20	2500.000	19.2	80.8

Conf. Incorporated
Calibration Report

Thu Jul 6, 1995 11:20:39 am

ACQ/DB/12/RESULTS/012R01006.RES
ACQ/DB/12/METHOD/DIESEL004.MTH

Sample: DIESEL 2500PPM P8583
Injected: Thu Jun 22, 1995 6:08:08 am

Ref ID	Analyte	Found	Nominal	%D	Recovery
71.40	DIESEL FUEL	2311.09	2500.000	7.6	92.4

PAOF, Incorporated
Comparing Calibration Report

Thu Jul 6, 1995 11:20:54 am

DATA/0012/RESULT/G12H01047.RES
DATA/0012/METHOD/DIESEL00A.MTH

Sample: DIESEL 2500PPM P8505
Injected: Thu Jun 22, 1995 9:10:21 pm

RetTime	Analyte	Found	Nominal	%D	Recovery
21.20	DIESEL FUEL	2111.23	2500.000	15.6	84.4

PACE, INCORPORATED
GC Instrument Run Log

0000020

Circle one:
CLP/PHC/OPP/HERB/P-P

Reviewed by _____ Date _____

Date	init	result file	Sample	MI	v	Method	column	Sequence
5/3/95	HS	7121100	714 P8591 SP4/C18 500/25 PPM	Y	Y	Calib007	131	G120503
			715 DR0 50ppm P8585			Diesel004		
			716 DR0 500ppm P8584					
			717 DR0 2500ppm P8583					
			718 DR0 5000ppm P8582					
			719 DR0 10000 PPM P8581					
			720 PH1284 PHC-S			Calib007		
			721 LSH1284 PHC-S					
			722 43833-3 DR0-S Shell 11-5/12					
			723 43833-4 DR0-S Shell 11-5/12					
			724 43846-1 PHC-S Ramson 11-5/12					
			725 43846-2 PHC-S Ramson 11-5/12					
			726 43846-3 PHC-S Ramson 11-5/12					
			727 43846-4 PHC-S Ramson 11-5/12					
			728 P8580 GAS/cube 5042/5104/51ppm ^{11/13/47}					
5/5/95	HS	7171100	729 P8580 GAS/cube 5042/5104/51ppm ^{11/13/47}					
			730 Diesel 2500ppm P8583			Diesel004		
			731 P8580 GAS/cube 5042/5104/51ppm ^{11/13/47}			Calib007		
5/4/95	HS	7121100	732 PH1286 PENTANE	Y	Y	Calib007	131	G120503
			733 43858-1 PENTANE PHC-S					
			734 43858-2 PENTANE PHC-S					
			735 43858-3 PENTANE PHC-S					
			736 43860-1 PENTANE PHC-S					
			737 43860-2 PENTANE PHC-S					
			738 43860-3 PENTANE PHC-S					
			739 13H1287 DR0-S					
			740 LSH1287 DR0-S NJ-PACE ^{11/13/47}					
			741 DR0 2500ppm P8583 ^{11/13/47}			need p.lite		
			742 DR0 2500ppm P8583 87			Diesel004 need p.lite		
			743 43894-12 DR0-S NJ-PACE 1:10					
			744 43894-13 DR0-S NJ-PACE 1:10					

0000031

PACE, INCORPORATED
GC Instrument Run Log

0000036

Circle one:
CLP/PHC/OPP/HERB/P-P

Reviewed by _____ Date _____

Date	init	result file	Sample	MI	✓	Method	column	Sequence
6/24/95	115	G121101015	44346-1 DRO-W Shell 06/21	Y	Y	Diesel004	131	G120620
		016	BH1330 DRO-S					
		017	LSH1330 DRO-S					
		018	44383-10 Shell					
		019	-10MSI					
		020	-10MSI					
		021	BH1330B Test					
		022	LSH1330B ↓					
		023	Gas/Lube 5042/5104/51 ppm 4/11/95 p8580	Y	Y	Calib 007A		
6/24/95		024	↓ 9/11/95	Y	Y	Diesel004 Calib 007A		
		025	Diesel 2500ppm p8583 81	↓	↓	Diesel004 Calib 007A		
6/24/95	115	G121101026	BH1331 DRO-S	Y	Y	Diesel004	131	G120621
		027	LSH1331					
		028	44436-16					
		029	-1					
		030	-2					
		031	-3					
		032	-4					
		033	-5					
		034	-6					
		035	-7					
		036	Diesel 2500 ppm p8583 92	Y	Y			
		037	44436-8 DRO-S					
		038	-9					
		039	-10			head 110	N	N
		040	-11				Y	Y
		041	BH1331B Test					
		042	LSH1331B ↓					
6/24/95	115	G121101043	44436-10 DRO-S 120			Diesel004	131	G120622
		044	BH1332 DRO-W					
		045	LSH1332 ↓					

0000032

PACE, INCORPORATED
GC Instrument Run Log

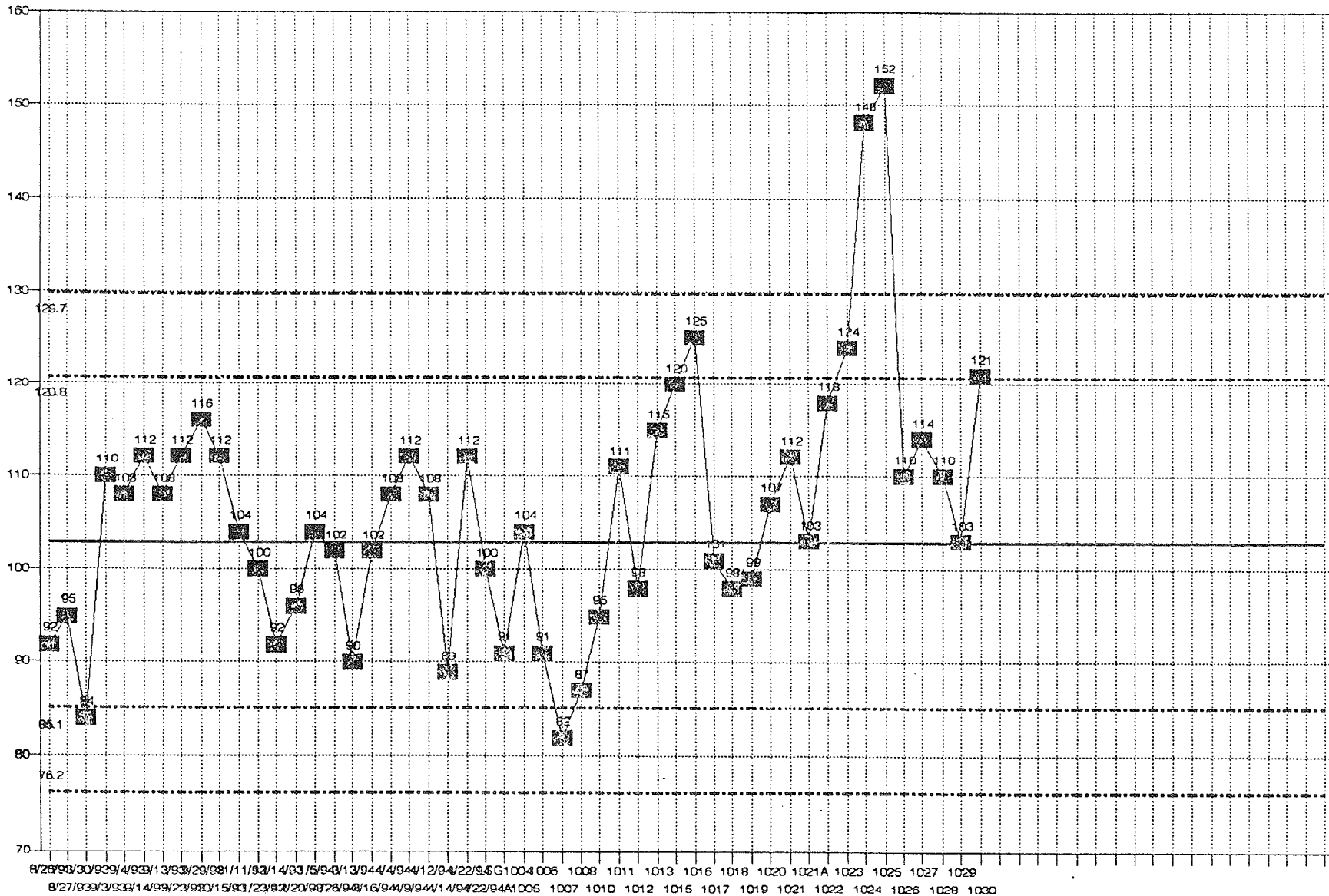
0000037

Reviewed by _____ Date _____

Circle one:
CLP/PHC/OPP/HERB/P-P

Date	init	result file	Sample	MI	V	Method	column	Sequence
11/17/95	135	G121101046	44436-12 PPO-W	Y	Y	Dieselool	131	G120622
		047	Diesel 250ppm P8383 84					
		048	44436-13 PPO-W					
		049	44438-16 ↓					
		050	Diesel 250ppm P8383					
6/27/95		051	Bad injection ^{6/25/95} Gas/Lube 5042/5104/51 PPM P8383	N	N			
		6/27/95 052	change lines, Septa					
11/21/95	135	G121101052	Gas/Lube 5042/5104/51 PPM P8383	N	N	Dieselool	131	G120622
		053	↓ 105/112/99	Y	Y	CaliboolA		
		054	BH1336 PHC-0					
		055	44412-1 PHC-0 1:10					
11/27/95	135	G121101056	BH1335 PHC-W	Y	Y	CaliboolA	131	G120627
		057	LSH1335 PHC-W					
		058	44438-16 RE ENSAFE PHC-W					
		059	44455-10 ↓					
		060	-11 ↓					
		061	44495-19 RB BUV PHC-W					
		062	-20 ↓					
		063	-21 ↓					
		064	Gas/Lube 5042/5104/51 PPM ^{06/10/97 121 P8383}	Y	N			
		065	↓ ^{102/108/100}	Y	Y			
		066	BH1334 PHC-S					
		067	44431-1 PENTANE PHC-S					
		068	-2 ↓					
		069	-3 ↓					
		070	44432-1 ↓					
		071	-2 ↓					
		072	-3 ↓					G120628
11/29/95	135	073	BH1337 PHC-S			CaliboolA	131	
		074	LSH1337 ↓					
		075	44497-4 ↓					

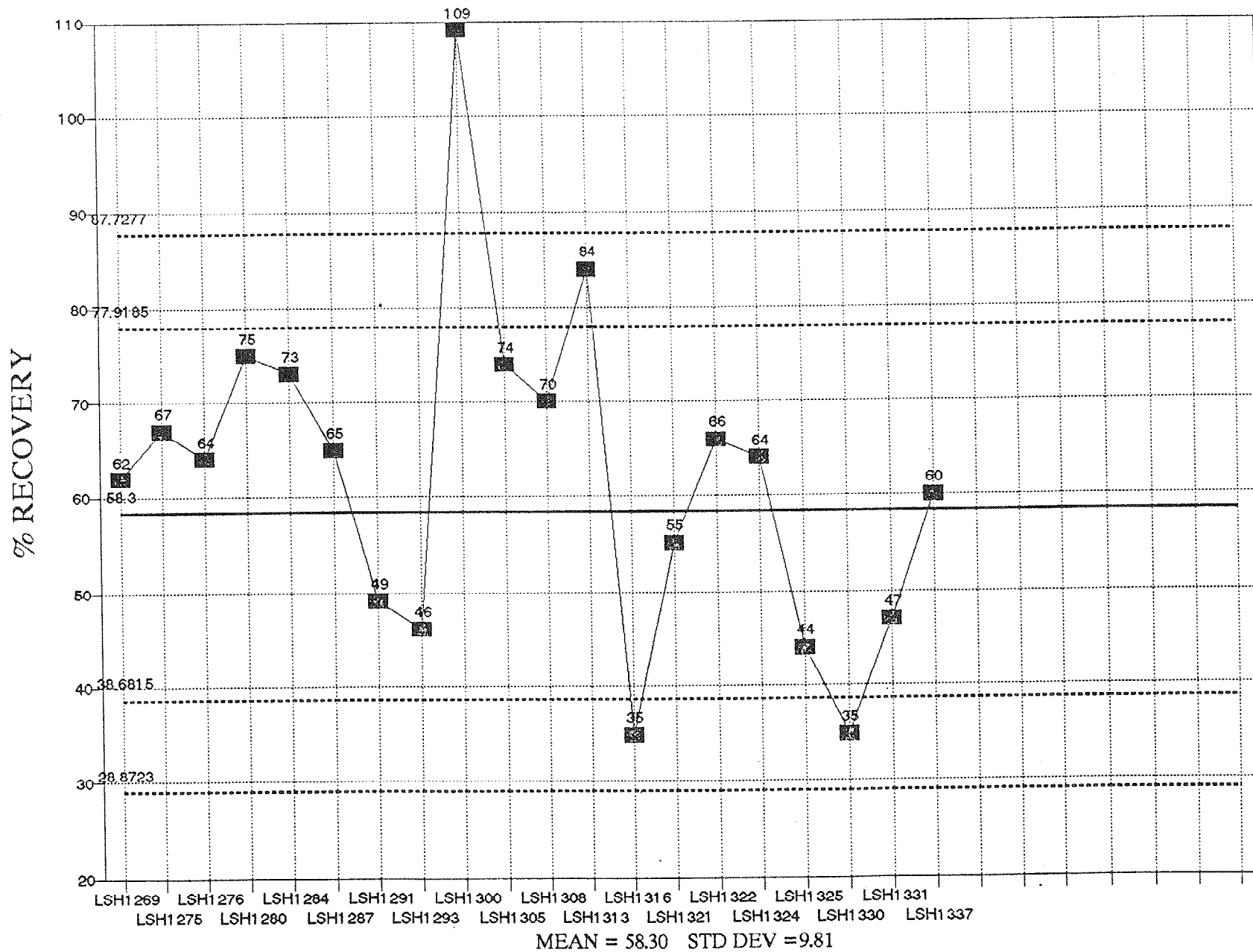
TOTAL GAS LCS RECOVERIES LIMITS SET 4/13/94



STD DEV = 8.93 MEAN = 103

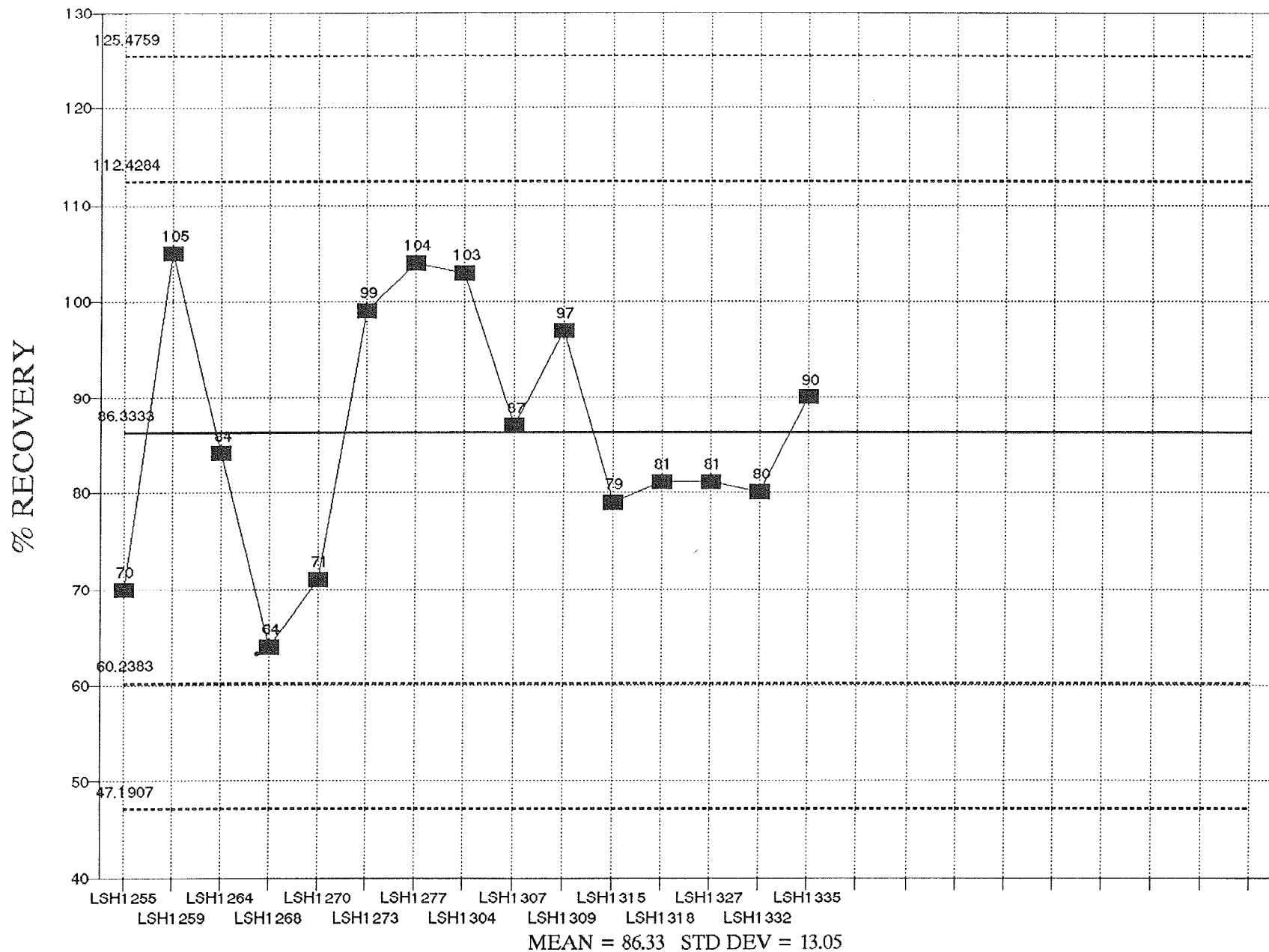
0000034

PHC LOW SOLIDS - DIESEL
 SPK REC LIMS SET6/6/95-PPCBCHT\PHCS1294



0000035

PHC WATERS BY SEPF - DIESEL
 SPK REC LIMS SET0795-PPCBCHT\PHCWSF94



000000



OHM Corporation

CHAIN-OF-CUSTODY RECORD

LAB COPY

Form 0019
Field Technical Services
Rev. 08/89

144107

O.H. MATERIALS CORP.		P.O. BOX 551		FINDLAY, OH 45839-0551		419-423-3526		
PROJECT NAME <i>Camp Lejeune DO44</i>			PROJECT LOCATION <i>Camp Geiger</i>			ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS) 5030/8015 TPH 3550/8015 TPH		
PROJ. NO. <i>16487</i>	PROJECT CONTACT <i>Randy Smith</i>		PROJECT TELEPHONE NO. <i>(910) 451-1809</i>					
CLIENT'S REPRESENTATIVE			PROJECT MANAGER/SUPERVISOR <i>Jim Dunn</i>					
ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB			SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)
							<i>44436</i> REMARKS	
<i>1</i>	<i>CLJ44-ACS-001</i>	<i>6/20</i>	<i>929</i>		<i>X</i>	<i>Soil sample from Area C</i>	<i>1</i>	
<i>2</i>	<i>CLJ44-ACS-002</i>	<i>6/20</i>	<i>932</i>		<i>X</i>	<i>Soil sample from Area C</i>	<i>1</i>	
<i>3</i>	<i>CLJ44-ABS-003</i>	<i>6/20</i>	<i>951</i>		<i>X</i>	<i>Soil sample from Area B</i>	<i>1</i>	
<i>4</i>	<i>CLJ44-ABS-004</i>	<i>6/20</i>	<i>955</i>		<i>X</i>	<i>Soil sample from Area B</i>	<i>1</i>	
<i>5</i>	<i>CLJ44-AAS-005</i>	<i>6/20</i>	<i>1000</i>		<i>X</i>	<i>Soil sample from Area A</i>	<i>1</i>	
<i>6</i>	<i>CLJ44-AAS-006</i>	<i>6/20</i>	<i>1003</i>		<i>X</i>	<i>Soil sample from Area A</i>	<i>1</i>	
<i>7</i>	<i>CLJ44-AAS-007</i>	<i>6/20</i>	<i>1007</i>		<i>X</i>	<i>Soil sample from Area A</i>	<i>1</i>	
<i>8</i>	<i>CLJ44-AAS-008</i>	<i>6/20</i>	<i>1010</i>		<i>X</i>	<i>Soil sample from Area A</i>	<i>1</i>	
<i>9</i>	<i>CLJ44-AAS-009</i>	<i>6/20</i>	<i>1013</i>		<i>X</i>	<i>Soil sample from Area A</i>	<i>1</i>	
<i>10</i>	<i>CLJ44-AAS-009P</i>	<i>6/20</i>	<i>1013</i>		<i>X</i>	<i>Soil sample from Area A</i>	<i>1</i>	
TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY		TRANSFERS ACCEPTED BY		DATE	TIME	REMARKS
<i>1</i>	<i>1-10</i>	<i>[Signature]</i>				<i>6/20</i>	<i>1000</i>	<i>48 hr. TAT</i> <i>[Signature]</i> SAMPLER'S SIGNATURE
<i>2</i>				<i>Betty M. Morrell PACE NH</i>		<i>6/21/95</i>	<i>10:00</i>	
<i>3</i>								
<i>4</i>								

0000037



OHM Corporation

CHAIN-OF-CUSTODY RECORD

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Form 0019
Field Technical Services
Rev. 08/89

144108

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME <i>Camp Lejeune DO 44</i>		PROJECT LOCATION <i>Camp Geiger</i>	
PROJ. NO. <i>16487</i>	PROJECT CONTACT <i>Randy Smith</i>	PROJECT TELEPHONE NO. <i>(910) 451-1809</i>	
CLIENT'S REPRESENTATIVE		PROJECT MANAGER/SUPERVISOR <i>Jim Dunn</i>	

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)										REMARKS									
								5030/8015 TPH		3550/8015 TPH																	
1	CLJ44-AAS-010	6/20	1017		X	Soil Sample from Area A	1	X	X																	44436	
2	CLJ44-RB	6/20	1019			Linsate Blank	3	X	X																		
3	CLJ44-FB	6/20	1022			Field Blank	3	X	X																		
4	CLJ44-TB	6/20	1025			Trip Blank	1	X	X																		
5																											
6																											
7																											
8																											
9																											
10																											

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1-4			6/20	1600	48 hr. TAT
2			Betty McMorrell PACE NH	6/21/95	10:00	
3						
4						

0000038



OHM Corporation

CHAIN-OF-CUSTODY RECORD

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Form 0019
Field Technical Services
Rev. 08/89

144108

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526										
PROJECT NAME <i>Camp Levens DO 44</i>					PROJECT LOCATION <i>Camp Geiger</i>					ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS) <i>5030/8015 TPH</i> <i>3550/8015 TPH</i>
PROJ. NO. <i>16487</i>			PROJECT CONTACT <i>Randy Smith</i>		PROJECT TELEPHONE NO. <i>(910) 451-1809</i>					
CLIENT'S REPRESENTATIVE					PROJECT MANAGER/SUPERVISOR <i>Jim Dunn</i>					
ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	REMARKS		
1	CLJ44-AAS-010	6/20	1017		X	Soil Sample from Area A	1	X	X	-11
2	CLJ44-RB	6/20	1019			Rinsate Blank	3	X	X	-12
3	CLJ44-FB	6/20	1022			Field Blank	3	X	X	-13
4	CLJ44-TB	6/20	1025			Trip Blank	1	X	X	-14
5										
6										
7										
8										
9										
10										
TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY			TRANSFERS ACCEPTED BY			DATE	TIME	REMARKS
1	1-4	<i>[Signature]</i>						6/20	1600	48 hr. TAT <i>[Signature]</i> SAMPLER'S SIGNATURE
2					Betty McMorrell PACE NH			6/21/95	10:00	
3										
4										

6E000000



OHM Corporation

CHAIN-OF-CUSTODY RECORD

LAB COPY

Form 0019
Field Technical Services
Rev. 08/89

144107

O.H. MATERIALS CORP.		P.O. BOX 551		FINDLAY, OH 45839-0551		419-423-3526				
PROJECT NAME <i>Camp Lejeune DO44</i>				PROJECT LOCATION <i>Camp Greiger</i>				ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS) <div style="display: flex; justify-content: space-around;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">5030/8015</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">3550/8015</div> </div> <div style="text-align: right; margin-top: 10px;"> <i>TPH</i> <i>TPH</i> </div>		
PROJ. NO. <i>16487</i>		PROJECT CONTACT <i>Randy Smith</i>		PROJECT TELEPHONE NO. <i>(910) 451-1909</i>						
CLIENT'S REPRESENTATIVE				PROJECT MANAGER/SUPERVISOR <i>Jim Dunn</i>						
ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)				
1	<i>CLT44-ACS-001</i>	<i>6/20</i>	<i>929</i>		<i>X</i>	<i>Soil Sample from Area C</i>				
2	<i>CLT44-ACS-002</i>	<i>6/20</i>	<i>932</i>		<i>X</i>	<i>Soil Sample from Area C</i>				
3	<i>CLT44-ABS-003</i>	<i>6/20</i>	<i>951</i>		<i>X</i>	<i>Soil Sample from Area B</i>				
4	<i>CLT44-ABS-004</i>	<i>6/20</i>	<i>955</i>		<i>X</i>	<i>Soil Sample from Area B</i>				
5	<i>CLT44-AAS-005</i>	<i>6/20</i>	<i>1000</i>		<i>X</i>	<i>Soil Sample from Area A</i>				
6	<i>CLT44-AAS-006</i>	<i>6/20</i>	<i>1003</i>		<i>X</i>	<i>Soil Sample from Area A</i>				
7	<i>CLT44-AAS-007</i>	<i>6/20</i>	<i>1007</i>		<i>X</i>	<i>Soil Sample from Area A</i>				
8	<i>CLT44-AAS-008</i>	<i>6/20</i>	<i>1010</i>		<i>X</i>	<i>Soil Sample from Area A</i>				
9	<i>CLT44-AAS-009</i>	<i>6/20</i>	<i>1013</i>		<i>X</i>	<i>Soil Sample from Area A</i>				
10	<i>CLT44-AAS-009D</i>	<i>6/20</i>	<i>1013</i>		<i>X</i>	<i>Soil Sample from Area A</i>				
Final Page		TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY		TRANSFERS ACCEPTED BY		DATE	TIME	REMARKS <i>48 hr. TAT</i>
		1	<i>1-10</i>	<i>[Signature]</i>				<i>6/20</i>	<i>1600</i>	
		2				<i>Betty M. McNeill</i>		<i>6/21/20</i>	<i>10:00</i>	
		3								
4									SAMPLER'S SIGNATURE <i>[Signature]</i>	

0000040



August 28, 1995

OHM Remediation Services Corporation
5335 Triangle Parkway
Suite 450
Norcross, GA 30092

SAMPLE DELIVERY GROUP NARRATIVE

Case: OHMRC
SDG: LJN09
Laboratory: PACE New England - New Hampshire of Hampton, NH
Lab Numbers: 44862/44897/44898
Protocol: SW846 Methods. NEESA C deliverables. No diskette.

Sample Receipt: These samples were received at PACE, Inc. between August 3rd and 5th, 1995. Laboratory sample numbers were assigned for test parameters as listed on the Sample Table which follows this narrative. Sample shipments were checked for custody seal integrity and cooler temperature. Samples were checked for appropriate preservation and accuracy against the Chains-of-Custody provided. Other than the exceptions noted below, samples were received between 2-6° C and in good condition. PACE Sample Receipt Condition Reports can be found with the Chains-of-Custody.

Shipment received 8/3/95 (44862): Samples were received in a cooler with a sample logged in under PACE# 44861. A temperature blank was not included with the shipment, therefore the cooler temperature could not be verified upon receipt of samples at PACE. The samples were received cool, and had been packed on ice. One of the two VOA vials received for the Field Blank was labeled "CLJ44-CU-007-RB". The other VOA vial was labeled as "CLJ44-CU-007-FB". The sampling dates and times on both vials were 8/2/95 and 0725, respectively. Per conversation with Rakesh Mishra (OHM), both VOA vials were to be analyzed as the field blank. Three containers were received for the Trip Blank. One of the VOA vials was analyzed for GRO and the remaining vials were analyzed for Volatiles by EPA Method 8240. The TCLP volatile target list is a subset of the Method 8240 list and is not reported or billed as a separate sample. Water samples requesting metals were subsampled and preserved upon receipt at PACE, since a separate preserved bottle was not provided by OHM.

Shipment received 8/5/95 (44897): Samples were received in coolers and assigned PACE Lab# 44897. A temperature blank was not included with the shipment, therefore the cooler temperature could not be verified upon receipt of samples at PACE. The samples were received cool, and had been packed on ice. One discrepancy was noted upon receipt at PACE: Field IDs listed on the bottle labels read "CC" rather than "CU" which was listed in the field IDs on the COC. Per conversation with Rakesh Mishra (OHM), the field IDs were listed incorrectly on the COC, and he requested that the samples be logged in the the "CC" as part of the field ID rather than "CU".

Shipment received 8/5/95 (44898): Samples were received in coolers and assigned PACE Lab# 44898. A temperature blank was not included with the shipment, therefore the cooler temperature could not be verified upon receipt of samples at PACE. The samples were received cool, and had been packed on ice. The TCLP volatile target list is a subset of the Method 8240 list and is not reported or billed as a separate sample. Water samples requesting metals were subsampled and preserved upon receipt at PACE, since a separate preserved bottle was not provided by OHM.

Volatiles Analysis: Samples were analyzed within holding time and in accordance with SW-846 methods with the following comments: The method 624 blanks "BC080495A1", "BC080795A1", "BV1117A" and "BV1117B" contained low levels of methylene chloride. The sample results for this analyte should be used with due consideration. Samples 44862-2, -16, -23 and 44898-10 were not at pH < 2 at time of analysis.

SDG Narrative

Case: OHMRC, SDG: LJN09

GRO Analysis: Samples were analyzed within holding time and in accordance with SW-846 methods with the following comments: The surrogate was not quantitated in diluted samples. Laboratory numbers 44897-10, -10MS and -10MSD were spiked at the normal level. The recovery could not be quantitated in the presence of high levels of targets. Surrogate was not added to 44898-4 at the instrument.

DRO Analysis: Samples were analyzed within holding time and in accordance with SW-846 methods with the following comments: The spike recoveries for diesel for the laboratory control samples LSH1361, LSH1355 and LSH1357 were outside the control limits. A corrective action report has been initiated and the problem is currently being investigated. The following samples (laboratory number 44862-10 through -15 for Diesel Range Organics contained petroleum hydrocarbon products which did not match diesel.

Conventional Chemistry Parameters: Analyses proceeded without difficulty. Matrix spikes and duplicates met all acceptance criteria.

Semivolatiles Analysis: Samples were analyzed within holding time and in accordance with SW-846 methods with the following comments: Control charts have been included but the lab is planning to reset the limits. There has been a slight change in procedure which requires that new limits be set once twenty points have been collected.

Oil and Grease Analysis: Analyses proceeded without difficulty. Matrix spikes and duplicates met all acceptance criteria.

PCB Analysis: Analyses proceeded without difficulty. Matrix spikes and duplicates met all acceptance criteria.

Metals Analysis: Samples were analyzed within holding time and in accordance with SW846 methods for the TCLP list of eight metals (Ag, As, Ba, Cd, Cr, Hg, Pb, Se). Sample matrices consisted of waters, soils, and TCLP extracts run as waters. Soils without TCLP extraction required analysis for lead only. Sample QC analyses were performed on soil CLJ44-CC-025 (4CC025). Due to software restrictions, sample field identifications were shortened to six characters. The correct full identifications have been included as comments on the Form I sample data. NEESA control charts showed acceptable recoveries for laboratory control samples. One high trend was evident for cadmium, but the LCS of batch 12423 brought it back into control.

Samples were prepared in four ICP batches and one mercury batch. Analyses were conducted in four sequences on three instruments:

- TJA01 08/09/95 for Ag, As, Ba, Cd, Cr, Pb, Se.
- TJA01 08/14/95 for Ag, As, Ba, Cd, Cr, Pb, Se.
- TJA02 08/09/95 for As, Pb, Se for non-TCLP samples.
- PE02 08/10/95 for Hg.

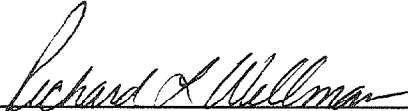
The TJA02 instrument achieves lower detection limits for As, Pb, and Se than the TJA01. Therefore, non-TCLP samples were run on the TJA02 instrument for these elements. Forms have different detection limits depending on which instrument was used. Standards met all compliance criteria. Blanks were also acceptable, although they had low hits on the TJA01 instrument for arsenic, lead, and selenium. This should not affect the TCLP sample data for which the action limits are high. The soil spike and duplicate results were acceptable for lead. Laboratory control sample data were also acceptable for all analytes of this project. The soil LCS was a reference solid which also received laboratory spike due to analyst error. Recovery of lead was calculated accordingly.



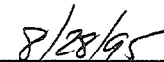
SDG Narrative
Case: OHMRC, SDG: LJN09

Statement of Compliancy and Data Authorization

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature.



Richard Wellman, Operations Manager
PACE Incorporated, New England-New Hampshire



August 28, 1995

Case: _____

SDG: _____

TABLE 1: MANUAL INTEGRATIONS PERFORMED

SPA ID	LAB ID	FILE NUMBER	COMPOUNDS MANUALLY INTEGRATED
	VST0010	109104	Reference, 1,2-DCE (total) 4-nitro-RP-2-Pentamethyl
	VST0050	109679	1,2-DCE (total)
	VST0050	109698	1,2-DCE (total)
	VST0050	109753	1,2-DCE (total) + trans-1,3-DCP

Manual Integrations were performed as required to correct faulty integrations made by the automated software. The manual integrations began and ended at the points where the peak intersected the baseline (unless otherwise indicated), in order that the entire peak and only the peak would be integrated. Hardcopies of the manually-integrated peaks have been provided with the data.

Angela Richard
Analyst Signature, PACE Incorporated
PACE Incorporated

8/17/95
Date

ref: PACE SOP ALL-Q-013-A c:\document\manint.frm



SAMPLE RECEIPT CONDITION REPORT

Tel. (603) 926-7777
FAX (603) 926-7939

PAGE 1 of 1
COOLER of
COC#
SDG# LTN09
CASE# OtmKO

CLIENT OHM Remediation

DATE/TIME RECEIVED 8/31/95 1025

LIMS ENTRY BY Gmf

DELIVERED BY FedEx

TRANSCRIPTION REVIEW BY Gmf

RECEIVED BY Gretchen Fra-chain

LIMS REVIEW BY/PM Gmf

Table with columns: NA, YES, EXCEPTION, COMMENT, RESOLUTION. Rows include: 1. CUSTODY SEALS PRESENT/INTACT, 2. CHAIN OF CUSTODY PRESENT IN THIS COOLER, 3. CHAIN OF CUSTODY SIGNED, 4. CHAIN OF CUSTODY MATCHES SAMPLES, 5. SAMPLES RECEIVED AT 2° - 6° C, 6. VOLATILES FREE OF HEAD SPACE, 7. TRIP BLANK PRESENT IN THIS COOLER, 8. PROPER SAMPLE CONTAINERS AND VOLUME, 9. SAMPLES WITHIN HOLD TIME, 10. SAMPLES PROPERLY PRESERVED, 11. ANALYTICAL PROGRAMS (circle one) COMMERCIAL CLP EPA-CLP NYASP NJ ISRA NEESA AFCEE Other, 12. NUMBER OF PACE FILTRATIONS, 13. CORRECTIVE ACTIONS REPORT #

Log-in Notes:

44862-7
1 VOA received for the sample labeled "Field Blank" is ID'd "CLJ44-CU-007-RB"
sampled 8/2/95 at 0725. The other VOA vial is labeled "CLJ44-CU-007-FB"
and was sampled at 8/2/95, 0725. ← 44862-16

- 7 1 VOA vial } Field Blank
-16 1 VOA vial }



NEW ENGLAND - NEW HAMPSHIRE LABORATORY
SAMPLE RECEIPT CONDITION REPORT

44897

Tel. (603) 926-7777
FAX (603) 926-7939

PAGE _____ of _____
COOLER 1 of 2
COC# _____
SDG# LTNo9
CASE# ATMRC

CLIENT OHM

DATE/TIME RECEIVED 8/5/95 1200

LIMS ENTRY BY Gmf

DELIVERED BY Fed Ex

TRANSCRIPTION REVIEW BY Gmf

RECEIVED BY [Signature]

LIMS REVIEW BY/PM Gmf

	NA	YES	EXCEPTION	COMMENT	RESOLUTION			
1. CUSTODY SEALS PRESENT/INTACT	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<u>Custody Seals not on cooler - on some bottles</u>				
2. CHAIN OF CUSTODY PRESENT IN THIS COOLER	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>					
3. CHAIN OF CUSTODY SIGNED	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>					
4. CHAIN OF CUSTODY MATCHES SAMPLES	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>					
5. SAMPLES RECEIVED AT 2° - 6° C Ice/Ice Packs Present? <input checked="" type="checkbox"/> or N	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<u>No Temp Blank</u>				
6. VOLATILES FREE OF HEAD SPACE	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>					
7. TRIP BLANK PRESENT IN THIS COOLER	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>					
8. PROPER SAMPLE CONTAINERS AND VOLUME	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>					
9. SAMPLES WITHIN HOLD TIME	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>					
10. SAMPLES PROPERLY PRESERVED	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>					
11. ANALYTICAL PROGRAMS (circle one)	COMMERCIAL	CLP	EPA-CLP	NYASP	NJ ISRA	<u>NEESA</u>	AFCEE	Other _____
12. NUMBER OF PACE FILTRATIONS:	_____							
13. CORRECTIVE ACTIONS REPORT #	_____							

Log-in Notes: rec'd in this cooler 2 jars for each site (250-ml. glass amber)
Bottle labels differ from coc: CU on coc is CC on bottle label
Per Rajesh Mishra, samples labeled CU need to be logged in as "CC".

CLIENT AUTHORIZATION SIGNATURE _____ DATE _____





NEW ENGLAND - NEW HAMPSHIRE LABORATORY
SAMPLE RECEIPT CONDITION REPORT

44891

Tel. (603) 926-7777
FAX (603) 926-7939

PAGE _____ of _____
COOLER 2 of 2
COC# _____
SDG# LJND9
CASE# 01MRC

CLIENT OHM

DATE/TIME RECEIVED 8/5/95 12:00

LIMS ENTRY BY Gmf

DELIVERED BY Fed Ex

TRANSCRIPTION REVIEW BY Gmf

RECEIVED BY [Signature]

LIMS REVIEW BY/PM Gmf

	NA	YES	EXCEPTION	COMMENT	RESOLUTION
1. CUSTODY SEALS PRESENT/INTACT	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
2. CHAIN OF CUSTODY PRESENT IN THIS COOLER	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
3. CHAIN OF CUSTODY SIGNED	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
4. CHAIN OF CUSTODY MATCHES SAMPLES	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
5. SAMPLES RECEIVED AT 2° - 6° C Ice/Ice Packs Present? <input checked="" type="checkbox"/> or N	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<u>No Temp Blank</u>	
6. VOLATILES FREE OF HEAD SPACE	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
7. TRIP BLANK PRESENT IN THIS COOLER	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
8. PROPER SAMPLE CONTAINERS AND VOLUME	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
9. SAMPLES WITHIN HOLD TIME	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
10. SAMPLES PROPERLY PRESERVED	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		

ANALYTICAL PROGRAMS (circle one) COMMERCIAL CLP EPA-CLP NYASP NJ ISRA NEESA AFCEE Other _____

NUMBER OF PACE FILTRATIONS: _____

13. CORRECTIVE ACTIONS REPORT # _____

Log-in Notes:

rec'd in this cooler one glass jar for each site except for item #10 on chain #166402 - rec'd 2 jars for this site

CLIENT AUTHORIZATION SIGNATURE _____ DATE _____ 0000007



NEW ENGLAND - NEW HAMPSHIRE LABORATORY

SAMPLE RECEIPT CONDITION REPORT

Tel. (603) 926-7777
FAX (603) 926-7939

PAGE 1 of 1
COOLER
COC#
SDG# L5N09
CASE# OTHMRC

CLIENT CHM

DATE/TIME RECEIVED 8/5/95 1200

LIMS ENTRY BY Gmf

DELIVERED BY Ted Goy

TRANSCRIPTION REVIEW BY Gmf

RECEIVED BY KAZ

LIMS REVIEW BY/PM Gmf

Table with columns: NA, YES, EXCEPTION, COMMENT, RESOLUTION. Rows include: 1. CUSTODY SEALS PRESENT/INTACT, 2. CHAIN OF CUSTODY PRESENT IN THIS COOLER, 3. CHAIN OF CUSTODY SIGNED, 4. CHAIN OF CUSTODY MATCHES SAMPLES, 5. SAMPLES RECEIVED AT 2° - 6° C, 6. VOLATILES FREE OF HEAD SPACE, 7. TRIP BLANK PRESENT IN THIS COOLER, 8. PROPER SAMPLE CONTAINERS AND VOLUME, 9. SAMPLES WITHIN HOLD TIME, 10. SAMPLES PROPERLY PRESERVED, 11. ANALYTICAL PROGRAMS (circle one) COMMERCIAL, CLP, EPA-CLP, NYASP, NJ ISRA, NEESA, AFCEE, Other.

NUMBER OF PACE FILTRATIONS:

13. CORRECTIVE ACTIONS REPORT #

Log-in Notes:

- 3 Vial
- 4 sampling date = 7/27/95 1700
- 10 vials
- 11 BNA (TCLP list)
- 12 metals (TCLP list)
- 13 RCRA Haz W Char.

Rinsate = -3, -7, -10, -11, 12, -13

CLIENT AUTHORIZATION SIGNATURE

DATE

000008

SAMPLE TABLE

CLIENT ID.	MATRIX	PACE #	PARAMETERS
CLJ44-CC-001	SOLID	44862-001	GC/MS VOA TOTAL GASOLINE
		44862-009	TOTAL DIESEL CORROSIVITY FLASH POINT RELEASABLE CYANIDE RELEASABLE SULFIDE
		44862-018	GC/MS VOA ACID EXTRACTABLES BASE/NEUTRAL EXTRACTABLES TCLP VOA EXTRACT TCLP ORGANICS EXTRACT TCLP METALS EXTRACTION Ba, Cd, Cr, Pb, Hg, Ag, As, Se
		44862-026	PCBS OIL & GREASE BY GRAVIMETRY Pb
CLJ44-CC-002-RB	WATER	44862-002	GC/MS VOA TOTAL GASOLINE
		44862-010	TOTAL DIESEL
		44862-019	ACID EXTRACTABLES BASE/NEUTRAL EXTRACTABLES
		44862-031	As, Ba, Cd, Cr, Pb, Hg, Se, Ag
		44862-032	CORROSIVITY FLASH POINT RELEASABLE CYANIDE RELEASABLE SULFIDE
CLJ44-CU-003	SOLID	44862-003	TOTAL GASOLINE
		44832-011	TOTAL DIESEL
		44862-020	GC/MS VOA ACID EXTRACTABLES BASE/NEUTRAL EXTRACTABLES TCLP VOA EXTRACT TCLP ORGANICS EXTRACT TCLP METALS EXTRACTION Ba, Cd, Cr, Pb, Hg, Ag, As, Se
		44862-033	CORROSIVITY FLASH POINT RELEASABLE CYANIDE

SAMPLE TABLE
(CONTINUED)

CLIENT ID.	MATRIX	PACE #	PARAMETERS
-----	-----	-----	-----
CLJ44-CU-003	SOLID	44862-033	RELEASABLE SULFIDE
CLJ44-CU-004	SOLID	44862-004	TOTAL GASOLINE
		44862-012	TOTAL DIESEL
		44862-021	GC/MS VOA
			ACID EXTRACTABLES
			BASE/NEUTRAL EXTRACTABLES
			TCLP VOA EXTRACT
			TCLP ORGANICS EXTRACT
			TCLP METALS EXTRACTION
			Ba, Cd, Cr, Pb, Hg, Ag, As, Se
		44862-034	CORROSIVITY
			FLASH POINT
			RELEASABLE CYANIDE
			RELEASABLE SULFIDE
CLJ44-CU-005	SOLID	44862-005	TOTAL GASOLINE
		44862-013	TOTAL DIESEL
		44862-022	GC/MS VOA
			ACID EXTRACTABLES
			BASE/NEUTRAL EXTRACTABLES
			TCLP VOA EXTRACT
			TCLP ORGANICS EXTRACT
			TCLP METALS EXTRACTION
			Ba, Cd, Cr, Pb, Hg, Ag, As, Se
		44862-035	CORROSIVITY
			FLASH POINT
			RELEASABLE CYANIDE
			RELEASABLE SULFIDE
CLJ44-CU-006-RB	WATER	44862-006	TOTAL GASOLINE
		44862-014	TOTAL DIESEL
		44862-023	GC/MS VOA
		44862-024	ACID EXTRACTABLES
			BASE/NEUTRAL EXTRACTABLES
		44862-036	CORROSIVITY
			FLASH POINT
			RELEASABLE CYANIDE
			RELEASABLE SULFIDE
		44862-037	As, Ba, Cd, Cr, Pb, Hg, Se, Ag

SAMPLE TABLE
(CONTINUED)

CLIENT ID.	MATRIX	PACE #	PARAMETERS
-----	-----	-----	-----
CLJ44-007-FB	WATER	44862-007	TOTAL GASOLINE
		44862-015	TOTAL DIESEL
		44862-016	GC/MS VOA
		44862-025	ACID EXTRACTABLES
			BASE/NEUTRAL EXTRACTABLES
		44862-027	As, Ba, Cd, Cr, Pb, Hg, Se, Ag
		44862-028	OIL & GREASE BY GRAVIMETRY
		44862-029	PCBS
		44862-030	CORROSIVITY
			FLASH POINT
	RELEASABLE CYANIDE		
	RELEASABLE SULFIDE		
CLJ44-008-TB	WATER	44862-008	TOTAL GASOLINE
		44862-017	GC/MS VOA

SAMPLE TABLE

CLIENT ID.	MATRIX	PACE #	PARAMETERS
CLJ44-CC-016	SOLID	44897-001 44897-013	TOTAL GASOLINE OIL & GREASE BY GRAVIMETRY TOTAL DIESEL
CLJ44-CC-017	SOLID	44897-002 44897-014	TOTAL GASOLINE OIL & GREASE BY GRAVIMETRY TOTAL DIESEL
CLJ44-CC-018	SOLID	44897-003 44897-015	TOTAL GASOLINE OIL & GREASE BY GRAVIMETRY TOTAL DIESEL
CLJ44-CC-019	SOLID	44897-004 44897-016	TOTAL GASOLINE OIL & GREASE BY GRAVIMETRY TOTAL DIESEL
CLJ44-CC-020	SOLID	44897-005 44897-017	TOTAL GASOLINE OIL & GREASE BY GRAVIMETRY TOTAL DIESEL
CLJ44-CC-021	SOLID	44897-006 44897-018	TOTAL GASOLINE OIL & GREASE BY GRAVIMETRY TOTAL DIESEL
CLJ44-CC-022	SOLID	44897-007 44897-019	TOTAL GASOLINE OIL & GREASE BY GRAVIMETRY TOTAL DIESEL
CLJ44-CC-023	SOLID	44897-008 44897-020	TOTAL GASOLINE OIL & GREASE BY GRAVIMETRY TOTAL DIESEL
CLJ44-CC-024	SOLID	44897-009 44897-021	TOTAL GASOLINE OIL & GREASE BY GRAVIMETRY TOTAL DIESEL
CLJ44-CC-025 *SQC*	SOLID	44897-010 44897-022 44897-025 44897-026	TOTAL GASOLINE OIL & GREASE BY GRAVIMETRY TOTAL DIESEL GC/MS VOA ACID EXTRACTABLES BASE/NEUTRAL EXTRACTABLES TCLP VOA EXTRACT TCLP ORGANICS EXTRACT TCLP METALS EXTRACTION Ba, Cd, Cr, Pb, Hg, Ag, As, Se PCBS CORROSIVITY

SAMPLE TABLE
(CONTINUED)

CLIENT ID.	MATRIX	PACE #	PARAMETERS
CLJ44-CC-025	SOLID	44897-026	FLASH POINT RELEASABLE CYANIDE RELEASABLE SULFIDE Pb
		44897-027	GC/MS VOA
CLJ44-CC-026	SOLID	44897-011	TOTAL GASOLINE
		44897-023	OIL & GREASE BY GRAVIMETRY TOTAL DIESEL
CLJ44-CC-027	SOLID	44897-012	TOTAL GASOLINE
		44897-024	OIL & GREASE BY GRAVIMETRY TOTAL DIESEL

SAMPLE TABLE

CLIENT ID.	MATRIX	PACE #	PARAMETERS
CLJ44-CU-012	SOLID	44898-001	TOTAL GASOLINE
		44898-005	TOTAL DIESEL
		44898-008	GC/MS VOA
			ACID EXTRACTABLES
			BASE/NEUTRAL EXTRACTABLES
			TCLP VOA EXTRACT
			TCLP ORGANICS EXTRACT
			CORROSIVITY
			FLASH POINT
			RELEASABLE CYANIDE
			RELEASABLE SULFIDE
			TCLP METALS EXTRACTION
			Ba, Cd, Cr, Pb, Hg, Ag, As, Se
CLJ44-CU-013	SOLID	44898-002	TOTAL GASOLINE
		44898-006	TOTAL DIESEL
		44898-009	GC/MS VOA
			ACID EXTRACTABLES
			BASE/NEUTRAL EXTRACTABLES
			TCLP VOA EXTRACT
			TCLP ORGANICS EXTRACT
			CORROSIVITY
			FLASH POINT
			RELEASABLE CYANIDE
			RELEASABLE SULFIDE
			TCLP METALS EXTRACTION
			Ba, Cd, Cr, Pb, Hg, Ag, As, Se
CLJ44-CU-014-RB	WATER	44898-003	TOTAL GASOLINE
		44898-007	TOTAL DIESEL
		44898-010	GC/MS VOA
		44898-011	ACID EXTRACTABLES
			BASE/NEUTRAL EXTRACTABLES
		44898-012	Ba, Cd, Cr, Pb, Hg, Ag, As, Se
		44898-013	CORROSIVITY
			FLASH POINT
			RELEASABLE CYANIDE
			RELEASABLE SULFIDE
CLJ44-CU-015-TB	WATER	44898-004	GC/MS VOA
			TOTAL GASOLINE

Laboratory number: 44862-001
Sample Designation: CLJ44-CC-001
Date Analyzed: 08/07/95
Matrix: SOLID

Instrument File Name: >C9693

Results are expressed on a dry (103 degrees C) basis.
Moisture content was 11 % , elevating the reporting limits
by a factor of 1.12 .

VOLATILE ORGANICS	CONCENTRATION (ug/g)	REPORTING LIMIT (ug/g)
Chloromethane	BDL	1.4
Bromomethane	BDL	1.4
Vinyl chloride	BDL	1.4
Chloroethane	BDL	0.7
Methylene chloride	0.9 JB	1.4
Acetone	BDL	3.5
Carbon disulfide	BDL	0.7
1,1-Dichloroethene	BDL	0.7
Tetrahydrofuran	BDL	3.5
1,1-Dichloroethane	BDL	0.7
1,2-Dichloroethene (total)	BDL	0.7
Chloroform	BDL	0.7
Methyl ethyl ketone	BDL	3.5
1,2-Dichloroethane	BDL	0.7
1,1,1-Trichloroethane	BDL	0.7
Carbon Tetrachloride	BDL	0.7
Vinyl acetate	BDL	1.4
Bromodichloromethane	BDL	0.7
cis-1,3-Dichloropropene	BDL	0.7
trans-1,3-Dichloropropene	BDL	0.7
Trichloroethene	BDL	0.7
Benzene	BDL	0.7
Dibromochloromethane	BDL	0.7
1,1,2-Trichloroethane	BDL	0.7
1,2-Dichloropropane	BDL	0.7
2-Chloroethyl vinyl ether	BDL	0.7
Bromoform	BDL	0.7
Methyl isobutyl ketone	BDL	3.5
2-Hexanone	BDL	3.5
1,1,2,2-Tetrachloroethane	BDL	0.7
Tetrachloroethene	BDL	0.7
Toluene	BDL	0.7
Chlorobenzene	BDL	0.7
Ethylbenzene	BDL	0.7
Xylene (total)	BDL	0.7
Styrene	BDL	0.7

METHOD REFERENCE: EPA SW 846, 3rd Edition
METHOD 8240

BDL = Below reporting limit

J = Probable presence below listed detection limit



0000015

Laboratory number: 44862-002
Sample Designation: CLJ44-CC-002-RB
Date Analyzed: 08/07/95
Matrix: WATER

Instrument File Name: >C9688

VOLATILE ORGANICS	CONCENTRATION (ug/L)	REPORTING LIMIT (ug/L)
Chloromethane	BDL	10
Bromomethane	BDL	10
Vinyl chloride	BDL	10
Chloroethane	BDL	5.0
Methylene chloride	3.2 JB	10
Acetone	BDL	25
Carbon disulfide	BDL	5.0
Trichlorofluoromethane	BDL	5.0
1,1-Dichloroethene	BDL	5.0
Tetrahydrofuran	BDL	25
1,1-Dichloroethane	BDL	5.0
1,2-Dichloroethene (total)	BDL	5.0
Chloroform	BDL	5.0
Methyl ethyl ketone	BDL	25
1,2-Dichloroethane	BDL	5.0
1,1,1-Trichloroethane	BDL	5.0
Carbon Tetrachloride	BDL	5.0
Vinyl acetate	BDL	10
Bromodichloromethane	BDL	5.0
cis-1,3-Dichloropropene	BDL	5.0
trans-1,3-Dichloropropene	BDL	5.0
Trichloroethene	BDL	5.0
Benzene	BDL	5.0
Dibromochloromethane	BDL	5.0
1,1,2-Trichloroethane	BDL	5.0
1,2-Dichloropropane	BDL	5.0
2-Chloroethyl vinyl ether	BDL	5.0
Bromoform	BDL	5.0
Methyl isobutyl ketone	BDL	25
2-Hexanone	BDL	25
1,1,2,2-Tetrachloroethane	BDL	5.0
Tetrachloroethene	BDL	5.0
Toluene	BDL	5.0
Chlorobenzene	BDL	5.0
Ethylbenzene	BDL	5.0
Xylene (total)	BDL	5.0
Styrene	BDL	5.0

METHOD REFERENCE: 40 CFR PART 136, FRIDAY, OCTOBER 26, 1984
METHOD 624 (MODIFIED)

BDL = Below reporting limit
J = Probable presence below listed detection limit

pace
INCORPORATED
THE ASSURANCE OF QUALITY

0000016

Laboratory number: 44862-016
Sample Designation: CLJ44-007-FB
Date Analyzed: 08/07/95
Matrix: WATER

Instrument File Name: >C9689

VOLATILE ORGANICS	CONCENTRATION (ug/L)	REPORTING LIMIT (ug/L)
Chloromethane	BDL	10
Bromomethane	BDL	10
Vinyl chloride	BDL	10
Chloroethane	BDL	5.0
Methylene chloride	BDL	10
Acetone	BDL	25
Carbon disulfide	BDL	5.0
Trichlorofluoromethane	BDL	5.0
1,1-Dichloroethene	BDL	5.0
Tetrahydrofuran	BDL	25
1,1-Dichloroethane	BDL	5.0
1,2-Dichloroethene (total)	BDL	5.0
Chloroform	BDL	5.0
Methyl ethyl ketone	BDL	25
1,2-Dichloroethane	BDL	5.0
1,1,1-Trichloroethane	BDL	5.0
Carbon Tetrachloride	BDL	5.0
Vinyl acetate	BDL	10
Bromodichloromethane	BDL	5.0
cis-1,3-Dichloropropene	BDL	5.0
trans-1,3-Dichloropropene	BDL	5.0
Trichloroethene	BDL	5.0
Benzene	BDL	5.0
Dibromochloromethane	BDL	5.0
1,1,2-Trichloroethane	BDL	5.0
1,2-Dichloropropane	BDL	5.0
2-Chloroethyl vinyl ether	BDL	5.0
Bromoform	BDL	5.0
Methyl isobutyl ketone	BDL	25
2-Hexanone	BDL	25
1,1,2,2-Tetrachloroethane	BDL	5.0
Tetrachloroethene	BDL	5.0
Toluene	BDL	5.0
Chlorobenzene	BDL	5.0
Ethylbenzene	BDL	5.0
Xylene (total)	BDL	5.0
Styrene	BDL	5.0

METHOD REFERENCE: 40 CFR PART 136, FRIDAY, OCTOBER 26, 1984
METHOD 624 (MODIFIED)

BDL = Below reporting limit

Laboratory number: 44862-017
Sample Designation: CLJ44-008-TB
Date Analyzed: 08/04/95
Matrix: WATER

Instrument File Name: >C9660

VOLATILE ORGANICS	CONCENTRATION (ug/L)	REPORTING LIMIT (ug/L)
Chloromethane	BDL	10
Bromomethane	BDL	10
Vinyl chloride	BDL	10
Chloroethane	BDL	5.0
Methylene chloride	3.9 JB	10
Acetone	BDL	25
Carbon disulfide	BDL	5.0
Trichlorofluoromethane	BDL	5.0
1,1-Dichloroethene	BDL	5.0
Tetrahydrofuran	BDL	25
1,1-Dichloroethane	BDL	5.0
1,2-Dichloroethene (total)	BDL	5.0
Chloroform	BDL	5.0
Methyl ethyl ketone	BDL	25
1,2-Dichloroethane	BDL	5.0
1,1,1-Trichloroethane	BDL	5.0
Carbon Tetrachloride	BDL	5.0
Vinyl acetate	BDL	10
Bromodichloromethane	BDL	5.0
cis-1,3-Dichloropropene	BDL	5.0
trans-1,3-Dichloropropene	BDL	5.0
Trichloroethene	BDL	5.0
Benzene	BDL	5.0
Dibromochloromethane	BDL	5.0
1,1,2-Trichloroethane	BDL	5.0
1,2-Dichloropropane	BDL	5.0
2-Chloroethyl vinyl ether	BDL	5.0
Bromoform	BDL	5.0
Methyl isobutyl ketone	BDL	25
2-Hexanone	BDL	25
1,1,2,2-Tetrachloroethane	BDL	5.0
Tetrachloroethene	BDL	5.0
Toluene	BDL	5.0
Chlorobenzene	BDL	5.0
Ethylbenzene	BDL	5.0
Xylene (total)	BDL	5.0
Styrene	BDL	5.0

METHOD REFERENCE: 40 CFR PART 136, FRIDAY, OCTOBER 26, 1984
METHOD 624 (MODIFIED)

BDL = Below reporting limit

J = Probable presence below listed detection limit

pace
INCORPORATED
THE ASSURANCE OF QUALITY

0000018

TOXICITY CHARACTERISTIC LEACHING PROCEDURE (1)
EXTRACTION FOR VOLATILE CONSTITUENTS

Laboratory Number : 44862-018
Field Identification : CLJ44-CC-001
Extraction Date : 08-07-95
TCLP Blank : 90,002-386

Sample description : NON-HOMOGENEOUS GRANULAR SOIL

Extraction Fluid Selection (1,2):

Extraction Fluid #1 was used as specified in the method.

Sample Preparation (1):

Since the sample contained no free liquid, it was not filtered before extraction. 25 g of sample was added to the extractor with 500 mL of Extraction Fluid #1.

Extraction Time : 16.00 hrs

% Solids as defined in method : 100

References:

1. 40 CFR Part 261, Appendix II, Nov. 24, 1992
2. Extraction Fluid #1: 0.57% by volume glacial acetic acid to which 0.1N NaOH has been added to yield a pH of 4.93 +/- 0.05.

TOXICITY CHARACTERISTIC LEACHING PROCEDURE
ANALYSIS FOR VOLATILE CONSTITUENTS

Laboratory number: 44862-018
Sample Designation: CLJ44-CC-001
Matrix: TCLP EXTRACT

Parameter	Result (mg/L)	Regulatory Limit (mg/L)	Reporting Limit (mg/L)

VOLATILES		Date Analyzed: 08/08/95	
Vinyl chloride	BDL	0.2	.01
1,1-Dichloroethene	BDL	0.7	.005
1,2-Dichloroethane	BDL	0.5	.005
Chloroform	BDL	6.0	.005
Methyl ethyl ketone	BDL	200	.025
Carbon Tetrachloride	BDL	0.5	.005
Trichloroethene	BDL	0.5	.005
Benzene	BDL	0.5	.005
Tetrachloroethene	BDL	0.7	.005
Chlorobenzene	BDL	100	.005

Results uncorrected for matrix spike recovery.

TOXICITY CHARACTERISTIC LEACHING PROCEDURE (1)
EXTRACTION FOR VOLATILE CONSTITUENTS

Laboratory Number : 44862-020
Field Identification : CLJ44-CU-003
Extraction Date : 08-07-95
TCLP Blank : 90,002-386

Sample description : NON-HOMOGENEOUS GRANULAR SOIL

Extraction Fluid Selection (1,2):

Extraction Fluid #1 was used as specified in the method.

Sample Preparation (1):

Since the sample contained no free liquid, it was not filtered before extraction. 25 g of sample was added to the extractor with 500 mL of Extraction Fluid #1.

Extraction Time : 16.00 hrs

% Solids as defined in method : 100

References:

1. 40 CFR Part 261, Appendix II, Nov. 24, 1992
2. Extraction Fluid #1: 0.57% by volume glacial acetic acid to which 0.1N NaOH has been added to yield a pH of 4.93 +/- 0.05.

TOXICITY CHARACTERISTIC LEACHING PROCEDURE
ANALYSIS FOR VOLATILE CONSTITUENTS

Laboratory number: 44862-020
Sample Designation: CLJ44-CU-003
Matrix: TCLP EXTRACT

Parameter	Result (mg/L)	Regulatory Limit (mg/L)	Reporting Limit (mg/L)

VOLATILES		Date Analyzed: 08/08/95	
Vinyl chloride	BDL	0.2	.01
1,1-Dichloroethene	BDL	0.7	.005
1,2-Dichloroethane	BDL	0.5	.005
Chloroform	BDL	6.0	.005
Methyl ethyl ketone	BDL	200	.025
Carbon Tetrachloride	BDL	0.5	.005
Trichloroethene	BDL	0.5	.005
Benzene	BDL	0.5	.005
Tetrachloroethene	BDL	0.7	.005
Chlorobenzene	BDL	100	.005

Results uncorrected for matrix spike recovery.

TOXICITY CHARACTERISTIC LEACHING PROCEDURE (1)
EXTRACTION FOR VOLATILE CONSTITUENTS

Laboratory Number : 44862-021
Field Identification : CLJ44-CU-004
Extraction Date : 08-07-95
TCLP Blank : 90,002-386

Sample description : NON-HOMOGENEOUS GRANULAR SOIL

Extraction Fluid Selection (1,2):

Extraction Fluid #1 was used as specified in the method.

Sample Preparation (1):

Since the sample contained no free liquid, it was not filtered before extraction. 25 g of sample was added to the extractor with 500 mL of Extraction Fluid #1.

Extraction Time : 16.00 hrs

% Solids as defined in method : 100

References:

1. 40 CFR Part 261, Appendix II, Nov. 24, 1992
2. Extraction Fluid #1: 0.57% by volume glacial acetic acid to which 0.1N NaOH has been added to yield a pH of 4.93 +/- 0.05.

TOXICITY CHARACTERISTIC LEACHING PROCEDURE
ANALYSIS FOR VOLATILE CONSTITUENTS

Laboratory number: 44862-021
 Sample Designation: CLJ44-CU-004
 Matrix: TCLP EXTRACT

Parameter	Result (mg/L)	Regulatory Limit (mg/L)	Reporting Limit (mg/L)
Date Analyzed: 08/08/95			
VOLATILES			
Vinyl chloride	BDL	0.2	.01
1,1-Dichloroethene	BDL	0.7	.005
1,2-Dichloroethane	BDL	0.5	.005
Chloroform	BDL	6.0	.005
Methyl ethyl ketone	BDL	200	.025
Carbon Tetrachloride	BDL	0.5	.005
Trichloroethene	BDL	0.5	.005
Benzene	BDL	0.5	.005
Tetrachloroethene	BDL	0.7	.005
Chlorobenzene	BDL	100	.005

Results uncorrected for matrix spike recovery.

TOXICITY CHARACTERISTIC LEACHING PROCEDURE (1)
EXTRACTION FOR VOLATILE CONSTITUENTS

Laboratory Number : 44862-022
Field Identification : CLJ44-CU-005
Extraction Date : 07/08/95
TCLP Blank : 90,002-386

Sample description : NON-HOMOGENEOUS GRANULAR SOIL

Extraction Fluid Selection (1,2):

Extraction Fluid #1 was used as specified in the method.

Sample Preparation (1):

Since the sample contained no free liquid, it was not filtered before extraction. 25 g of sample was added to the extractor with 500 mL of Extraction Fluid #1.

Extraction Time : 16.00 hrs

% Solids as defined in method : 100

References:

1. 40 CFR Part 261, Appendix II, Nov. 24, 1992
2. Extraction Fluid #1: 0.57% by volume glacial acetic acid to which 0.1N NaOH has been added to yield a pH of 4.93 +/- 0.05.

TOXICITY CHARACTERISTIC LEACHING PROCEDURE
ANALYSIS FOR VOLATILE CONSTITUENTS

Laboratory number: 44862-022
Sample Designation: CLJ44-CU-005
Matrix: TCLP EXTRACT

Parameter	Result (mg/L)	Regulatory Limit (mg/L)	Reporting Limit (mg/L)

VOLATILES		Date Analyzed: 08/08/95	
Vinyl chloride	BDL	0.2	.01
1,1-Dichloroethene	BDL	0.7	.005
1,2-Dichloroethane	BDL	0.5	.005
Chloroform	BDL	6.0	.005
Methyl ethyl ketone	BDL	200	.025
Carbon Tetrachloride	BDL	0.5	.005
Trichloroethene	BDL	0.5	.005
Benzene	BDL	0.5	.005
Tetrachloroethene	BDL	0.7	.005
Chlorobenzene	BDL	100	.005

Results uncorrected for matrix spike recovery.

TOXICITY CHARACTERISTIC LEACHING PROCEDURE
ANALYSIS FOR VOLATILE CONSTITUENTS

Laboratory number: 44862-023
Sample Designation: CLJ44-CU-006-RB
Matrix: WATER

Parameter	Result (mg/L)	Regulatory Limit (mg/L)	Reporting Limit (mg/L)

VOLATILES		Date Analyzed: 08/07/95	
Vinyl chloride	BDL	0.2	.01
1,1-Dichloroethene	BDL	0.7	.005
1,2-Dichloroethane	BDL	0.5	.005
Chloroform	BDL	6.0	.005
Methyl ethyl ketone	BDL	200	.025
Carbon Tetrachloride	BDL	0.5	.005
Trichloroethene	BDL	0.5	.005
Benzene	BDL	0.5	.005
Tetrachloroethene	BDL	0.7	.005
Chlorobenzene	BDL	100	.005

Results uncorrected for matrix spike recovery.

TOXICITY CHARACTERISTIC LEACHING PROCEDURE (1)
EXTRACTION FOR VOLATILE CONSTITUENTS

Laboratory Number : 44897-025
Field Identification : CLJ44-CC-025
Extraction Date : 08-08-95
TCLP Blank : 90,002-387

Sample description : NON-HOMOGENEOUS GRANULAR SOIL

Extraction Fluid Selection (1,2):

Extraction Fluid #1 was used as specified in the method.

Sample Preparation (1):

Since the sample contained no free liquid, it was not filtered before extraction. 25 g of sample was added to the extractor with 500 mL of Extraction Fluid #1.

Extraction Time : 16.00 hrs

% Solids as defined in method : 100

References:

1. 40 CFR Part 261, Appendix II, Nov. 24, 1992
2. Extraction Fluid #1: 0.57% by volume glacial acetic acid to which 0.1N NaOH has been added to yield a pH of 4.93 +/- 0.05.

TOXICITY CHARACTERISTIC LEACHING PROCEDURE
ANALYSIS FOR VOLATILE CONSTITUENTS

Laboratory number: 44897-025
Sample Designation: CLJ44-CC-025
Matrix: TCLP EXTRACT

Parameter	Result (mg/L)	Regulatory	Reporting
		Limit (mg/L)	Limit (mg/L)

VOLATILES		Date Analyzed: 08/09/95	
Vinyl chloride	BDL	0.2	.01
1,1-Dichloroethene	BDL	0.7	.005
1,2-Dichloroethane	BDL	0.5	.005
Chloroform	BDL	6.0	.005
Methyl ethyl ketone	BDL	200	.025
Carbon Tetrachloride	BDL	0.5	.005
Trichloroethene	BDL	0.5	.005
Benzene	BDL	0.5	.005
Tetrachloroethene	BDL	0.7	.005
Chlorobenzene	BDL	100	.005

Results uncorrected for matrix spike recovery.

TOXICITY CHARACTERISTIC LEACHING PROCEDURE (1)
EXTRACTION FOR VOLATILE CONSTITUENTS

Laboratory Number : 44897-025
Field Identification : CLJ44-CC-025
Extraction Date : 08-08-95
TCLP Blank : 90,002-387

Sample description : NON-HOMOGENEOUS GRANULAR SOIL

Extraction Fluid Selection (1,2):

Extraction Fluid #1 was used as specified in the method.

Sample Preparation (1):

Since the sample contained no free liquid, it was not filtered before extraction. 25 g of sample was added to the extractor with 500 mL of Extraction Fluid #1.

Extraction Time : 16.00 hrs

% Solids as defined in method : 100

References:

1. 40 CFR Part 261, Appendix II, Nov. 24, 1992
2. Extraction Fluid #1: 0.57% by volume glacial acetic acid to which 0.1N NaOH has been added to yield a pH of 4.93 +/- 0.05.

TOXICITY CHARACTERISTIC LEACHING PROCEDURE
ANALYSIS FOR VOLATILE CONSTITUENTS

Laboratory number: 44897-025
Sample Designation: CLJ44-CC-025
Matrix: TCLP EXTRACT

Parameter	Result (mg/L)	Regulatory	Reporting
		Limit (mg/L)	Limit (mg/L)

VOLATILES		Date Analyzed: 08/09/95	
Vinyl chloride	BDL	0.2	.01
1,1-Dichloroethene	BDL	0.7	.005
1,2-Dichloroethane	BDL	0.5	.005
Chloroform	BDL	6.0	.005
Methyl ethyl ketone	BDL	200	.025
Carbon Tetrachloride	BDL	0.5	.005
Trichloroethene	BDL	0.5	.005
Benzene	BDL	0.5	.005
Tetrachloroethene	BDL	0.7	.005
Chlorobenzene	BDL	100	.005

Results uncorrected for matrix spike recovery.

Laboratory number: 44897-027
 Sample Designation: CLJ44-CC-025
 Date Analyzed: 08/11/95
 Matrix: SOLID

Instrument File Name: >C9765

Results are expressed on a dry (103 degrees C) basis.
 Moisture content was 21 % , elevating the reporting limits
 by a factor of 1.26 .

VOLATILE ORGANICS	CONCENTRATION (ug/g)	REPORTING LIMIT (ug/g)
Chloromethane	BDL	3.2
Bromomethane	BDL	3.2
Vinyl chloride	BDL	3.2
Chloroethane	BDL	1.6
Methylene chloride	BDL	3.2
Acetone	BDL	8
Carbon disulfide	BDL	1.6
1,1-Dichloroethene	BDL	1.6
Tetrahydrofuran	BDL	8
1,1-Dichloroethane	BDL	1.6
1,2-Dichloroethene (total)	BDL	1.6
Chloroform	BDL	1.6
Methyl ethyl ketone	BDL	8
1,2-Dichloroethane	BDL	1.6
1,1,1-Trichloroethane	BDL	1.6
Carbon Tetrachloride	BDL	1.6
Vinyl acetate	BDL	3.2
Bromodichloromethane	BDL	1.6
cis-1,3-Dichloropropene	BDL	1.6
trans-1,3-Dichloropropene	BDL	1.6
Trichloroethene	BDL	1.6
Benzene	BDL	1.6
Dibromochloromethane	BDL	1.6
1,1,2-Trichloroethane	BDL	1.6
1,2-Dichloropropane	BDL	1.6
2-Chloroethyl vinyl ether	BDL	1.6
Bromoform	BDL	1.6
Methyl isobutyl ketone	BDL	8
2-Hexanone	BDL	8
1,1,2,2-Tetrachloroethane	BDL	1.6
Tetrachloroethene	BDL	1.6
Toluene	0.9 J	1.6
Chlorobenzene	1.1 J	1.6
Ethylbenzene	1.1 J	1.6
Xylene (total)	8	1.6
Styrene	BDL	1.6

METHOD REFERENCE: EPA SW 846, 3rd Edition
 METHOD 8240

BDL = Below reporting limit
 J = Probable presence below listed detection limit

Detection limit raised by the presence of non-listed compounds.



TOXICITY CHARACTERISTIC LEACHING PROCEDURE
ANALYSIS FOR VOLATILE CONSTITUENTS

Laboratory number: 44898-004
Sample Designation: CLJ44-CU-015-TB
Matrix: WATER

Parameter	Result (mg/L)	Regulatory Limit (mg/L)	Reporting Limit (mg/L)
Date Analyzed: 08/07/95			
VOLATILES			
Vinyl chloride	BDL	0.2	.01
1,1-Dichloroethene	BDL	0.7	.005
1,2-Dichloroethane	BDL	0.5	.005
Chloroform	BDL	6.0	.005
Methyl ethyl ketone	BDL	200	.025
Carbon Tetrachloride	BDL	0.5	.005
Trichloroethene	BDL	0.5	.005
Benzene	BDL	0.5	.005
Tetrachloroethene	BDL	0.7	.005
Chlorobenzene	BDL	100	.005

Results uncorrected for matrix spike recovery.

TOXICITY CHARACTERISTIC LEACHING PROCEDURE (1)
EXTRACTION FOR VOLATILE CONSTITUENTS

Laboratory Number : 44898-008
Field Identification : CLJ44-CU-012
Extraction Date : 08/08/95
TCLP Blank : 90,002-387

Sample description : NON-HOMOGENEOUS GRANULAR SOIL

Extraction Fluid Selection (1,2):

Extraction Fluid #1 was used as specified in the method.

Sample Preparation (1):

Since the sample contained no free liquid, it was not filtered before extraction. 25 g of sample was added to the extractor with 500 mL of Extraction Fluid #1.

Extraction Time : 16.00 hrs

% Solids as defined in method : 100

References:

1. 40 CFR Part 261, Appendix II, Nov. 24, 1992
2. Extraction Fluid #1: 0.57% by volume glacial acetic acid to which 0.1N NaOH has been added to yield a pH of 4.93 +/- 0.05.

TOXICITY CHARACTERISTIC LEACHING PROCEDURE
ANALYSIS FOR VOLATILE CONSTITUENTS

Laboratory number: 44898-008
Sample Designation: CLJ44-CU-012
Matrix: TCLP EXTRACT

Parameter	Result (mg/L)	Regulatory Limit (mg/L)	Reporting Limit (mg/L)

VOLATILES			
		Date Analyzed: 08/09/95	
Vinyl chloride	BDL	0.2	.01
1,1-Dichloroethene	BDL	0.7	.005
1,2-Dichloroethane	BDL	0.5	.005
Chloroform	BDL	6.0	.005
Methyl ethyl ketone	BDL	200	.025
Carbon Tetrachloride	BDL	0.5	.005
Trichloroethene	BDL	0.5	.005
Benzene	BDL	0.5	.005
Tetrachloroethene	BDL	0.7	.005
Chlorobenzene	BDL	100	.005

Results uncorrected for matrix spike recovery.

TOXICITY CHARACTERISTIC LEACHING PROCEDURE (1)
EXTRACTION FOR VOLATILE CONSTITUENTS

Laboratory Number : 44898-009
Field Identification : CLJ44-CU-013
Extraction Date : 08/08/95
TCLP Blank : 90,002-387

Sample description : NON-HOMOGENEOUS GRANULAR SOIL

Extraction Fluid Selection (1,2):

Extraction Fluid #1 was used as specified in the method.

Sample Preparation (1):

Since the sample contained no free liquid, it was not filtered before extraction. 25 g of sample was added to the extractor with 500 mL of Extraction Fluid #1.

Extraction Time : 16.00 hrs

% Solids as defined in method : 100

References:

1. 40 CFR Part 261, Appendix II, Nov. 24, 1992
2. Extraction Fluid #1: 0.57% by volume glacial acetic acid to which 0.1N NaOH has been added to yield a pH of 4.93 +/- 0.05.

TOXICITY CHARACTERISTIC LEACHING PROCEDURE
ANALYSIS FOR VOLATILE CONSTITUENTS

Laboratory number: 44898-009
Sample Designation: CLJ44-CU-013
Matrix: TCLP EXTRACT

Parameter	Result (mg/L)	Regulatory Limit (mg/L)	Reporting Limit (mg/L)

VOLATILES		Date Analyzed: 08/09/95	
Vinyl chloride	BDL	0.2	.01
1,1-Dichloroethene	BDL	0.7	.005
1,2-Dichloroethane	BDL	0.5	.005
Chloroform	BDL	6.0	.005
Methyl ethyl ketone	BDL	200	.025
Carbon Tetrachloride	BDL	0.5	.005
Trichloroethene	BDL	0.5	.005
Benzene	BDL	0.5	.005
Tetrachloroethene	BDL	0.7	.005
Chlorobenzene	BDL	100	.005

Results uncorrected for matrix spike recovery.

TOXICITY CHARACTERISTIC LEACHING PROCEDURE
ANALYSIS FOR VOLATILE CONSTITUENTS

Laboratory number: 44898-010
Sample Designation: CLJ44-CU-014-RB
Matrix: WATER

Parameter	Result (mg/L)	Regulatory Limit (mg/L)	Reporting Limit (mg/L)

VOLATILES			
		Date Analyzed: 08/07/95	
Vinyl chloride	BDL	0.2	.01
1,1-Dichloroethene	BDL	0.7	.005
1,2-Dichloroethane	BDL	0.5	.005
Chloroform	BDL	6.0	.005
Methyl ethyl ketone	BDL	200	.025
Carbon Tetrachloride	BDL	0.5	.005
Trichloroethene	BDL	0.5	.005
Benzene	BDL	0.5	.005
Tetrachloroethene	BDL	0.7	.005
Chlorobenzene	BDL	100	.005

Results uncorrected for matrix spike recovery.

WATER VOLATILES SURROGATE RECOVERY

Client: OHM REMEDIATION SERVICES CORP.
Project: CAMP LEJEUNE/16487

Lab No.: 44862

CLIENT SAMPLE NO.	S1 (TOL) #	S2 (BFB) #	S3 (DCE) #	S4 (DBFM) #	OTHER	TOT OUT
CLJ44-CC-002-RB	96	96	101			0
CLJ44-007-FB	98	97	103			0
CLJ44-008-TB	96	97	94			0
CLJ44-CC-001	94	99	100			0
CLJ44-CU-003	93	96	103			0
CLJ44-CU-004	97	98	103			0
CLJ44-CU-005	95	99	100			0
CLJ44-CU-006-RB	95	98	102			0
BC080795A1	100	98	98			0
BC080495A1	96	98	96			0
TCLP BLANK #386	95	98	102			0
BC080895A1	98	103	99			0
BV1117A	92	96	103			0
BV1117B	97	102	97			0

QC LIMITS

S1 (TOL) = Toluene-d8 86 - 114
S2 (BFB) = Bromofluorobenzene 72 - 132
S3 (DCE) = 1,2-Dichloroethane-d4 70 - 138
S4 (DBFM) = Dibromofluoromethane 80 - 120

Column to be used to flag recovery values with an asterisk
* Values outside of designated QC limits
D Surrogates diluted out

Laboratory Number: BV1117B
Sample Designation: LABORATORY BLANK
Date Analyzed: 08/04/95
Matrix: WATER

VOLATILE ORGANICS	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
Chloromethane	BDL	10
Bromomethane	BDL	10
Vinyl chloride	BDL	10
Chloroethane	BDL	5
Methylene chloride	5.6 J	10
Acetone	BDL	25
Carbon disulfide	BDL	5
1,1-Dichloroethene	BDL	5
Tetrahydrofuran	BDL	25
1,1-Dichloroethane	BDL	5
1,2-Dichloroethene (cis)	BDL	5
1,2-Dichloroethene (trans)	BDL	5
Chloroform	BDL	5
Methyl ethyl ketone	BDL	25
1,2-Dichloroethane	BDL	5
1,1,1-Trichloroethane	BDL	5
Carbon Tetrachloride	BDL	5
Vinyl acetate	BDL	10
Bromodichloromethane	BDL	5
cis-1,3-Dichloropropene	BDL	5
trans-1,3-Dichloropropene	BDL	5
Trichloroethene	BDL	5
Benzene	BDL	5
Dibromochloromethane	BDL	5
1,1,2-Trichloroethane	BDL	5
1,2-Dichloropropane	BDL	5
2-Chloroethyl vinyl ether	BDL	5
Bromoform	BDL	5
Methyl isobutyl ketone	BDL	25
2-Hexanone	BDL	25
1,1,2,2-Tetrachloroethane	BDL	5
Tetrachloroethene	BDL	5
Toluene	BDL	5
Chlorobenzene	BDL	5
Ethylbenzene	BDL	5
m-Xylene	BDL	5
o,p-Xylene	BDL	5
Styrene	BDL	5

METHOD REFERENCE: 40 CFR Part 136, Friday, October 26, 1984
METHOD 624

BDL = Below detection limit



0000040

Laboratory Number: BC080495A1
 Sample Designation: LABORATORY BLANK
 Date Analyzed: 08/04/95
 Matrix: WATER

VOLATILE ORGANICS	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
Chloromethane	BDL	10
Bromomethane	BDL	10
Vinyl chloride	BDL	10
Chloroethane	BDL	5
Methylene chloride	4.8 J	10
Acetone	BDL	25
Carbon disulfide	BDL	5
1,1-Dichloroethene	BDL	5
Tetrahydrofuran	BDL	25
1,1-Dichloroethane	BDL	5
1,2-Dichloroethene (cis)	BDL	5
1,2-Dichloroethene (trans)	BDL	5
Chloroform	BDL	5
Methyl ethyl ketone	BDL	25
1,2-Dichloroethane	BDL	5
1,1,1-Trichloroethane	BDL	5
Carbon Tetrachloride	BDL	5
Vinyl acetate	BDL	10
Bromodichloromethane	BDL	5
cis-1,3-Dichloropropene	BDL	5
trans-1,3-Dichloropropene	BDL	5
Trichloroethene	BDL	5
Benzene	BDL	5
Dibromochloromethane	BDL	5
1,1,2-Trichloroethane	BDL	5
1,2-Dichloropropane	BDL	5
2-Chloroethyl vinyl ether	BDL	5
Bromoform	BDL	5
Methyl isobutyl ketone	BDL	25
2-Hexanone	BDL	25
1,1,2,2-Tetrachloroethane	BDL	5
Tetrachloroethene	BDL	5
Toluene	BDL	5
Chlorobenzene	BDL	5
Ethylbenzene	BDL	5
m-Xylene	BDL	5
o,p-Xylene	BDL	5
Styrene	BDL	5

METHOD REFERENCE: 40 CFR Part 136, Friday, October 26, 1984
 METHOD 624

BDL = Below detection limit



0000041

MATRIX SPIKE RECOVERY
VOLATILE ORGANIC COMPOUNDS

Laboratory Number: LCC080495A1
Sample Designation: LABORATORY CONTROL SAMPLE
Date Analyzed: 08/04/95
Matrix: WATER

COMPOUND	ug/L IN SAMPLE	ug/L SPIKE	ug/L FOUND	%REC- OVERY
1,1-DICHLOROETHENE	0	50	57	114
TRICHLOROETHYLENE	0	50	52	103
BENZENE	0	50	48	95
TOLUENE	0	50	48	96
CHLOROBENZENE	0	50	50	100

METHOD REFERENCE: 40 CFR PART 136, FRIDAY, OCTOBER 26, 1984
METHOD 624

Laboratory Number: BC080795A1
Sample Designation: LABORATORY BLANK
Date Analyzed: 08/07/95
Matrix: WATER

VOLATILE ORGANICS	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
Chloromethane	BDL	10
Bromomethane	BDL	10
Vinyl chloride	BDL	10
Chloroethane	BDL	5
Methylene chloride	3.5 J	10
Acetone	BDL	25
Carbon disulfide	BDL	5
1,1-Dichloroethene	BDL	5
Tetrahydrofuran	BDL	25
1,1-Dichloroethane	BDL	5
1,2-Dichloroethene (cis)	BDL	5
1,2-Dichloroethene (trans)	BDL	5
Chloroform	BDL	5
Methyl ethyl ketone	BDL	25
1,2-Dichloroethane	BDL	5
1,1,1-Trichloroethane	BDL	5
Carbon Tetrachloride	BDL	5
Vinyl acetate	BDL	10
Bromodichloromethane	BDL	5
cis-1,3-Dichloropropene	BDL	5
trans-1,3-Dichloropropene	BDL	5
Trichloroethene	BDL	5
Benzene	BDL	5
Dibromochloromethane	BDL	5
1,1,2-Trichloroethane	BDL	5
1,2-Dichloropropane	BDL	5
2-Chloroethyl vinyl ether	BDL	5
Bromoform	BDL	5
Methyl isobutyl ketone	BDL	25
2-Hexanone	BDL	25
1,1,2,2-Tetrachloroethane	BDL	5
Tetrachloroethene	BDL	5
Toluene	BDL	5
Chlorobenzene	BDL	5
Ethylbenzene	BDL	5
m-Xylene	BDL	5
o,p-Xylene	BDL	5
Styrene	BDL	5

METHOD REFERENCE: 40 CFR Part 136, Friday, October 26, 1984
METHOD 624

BDL = Below detection limit



0000043

MATRIX SPIKE RECOVERY
VOLATILE ORGANIC COMPOUNDS

Laboratory Number: LCC080795A1
Sample Designation: LABORATORY CONTROL SAMPLE
Date Analyzed: 08/07/95
Matrix: WATER

COMPOUND	ug/L IN SAMPLE	ug/L SPIKE	ug/L FOUND	%REC- OVERY
1,1-DICHLOROETHENE	0	50	52	103
TRICHLOROETHYLENE	0	50	51	102
BENZENE	0	50	49	98
TOLUENE	0	50	51	102
CHLOROBENZENE	0	50	53	106

METHOD REFERENCE: 40 CFR PART 136, FRIDAY, OCTOBER 26, 1984
METHOD 624

Laboratory number: TCLP BLANK #386
Client ID: TCLP BLANK
Date Analyzed: 08/08/95
Matrix: TCLP EXTRACT

Parameter	Result (ug/L)	Regulatory Limit (ug/L)	Detection Limit (ug/L)
Vinyl chloride	BDL	200	10
1,1-Dichloroethene	BDL	700	5
1,2-Dichloroethane	BDL	500	5
Chloroform	BDL	6000	5
Methyl ethyl ketone	BDL	200000	25
Carbon Tetrachloride	BDL	500	5
Trichloroethene	BDL	500	5
Benzene	BDL	500	5
Tetrachloroethene	BDL	700	5
Chlorobenzene	BDL	100000	5

METHOD REFERENCE: EPA SW846 3rd EDITION
METHOD 8240

BDL = Below detection limit

Laboratory number: BC080895A1
 Sample Designation: LABORATORY BLANK
 Date Analyzed: 08/08/95
 Matrix: WATER

VOLATILE ORGANICS	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
Chloromethane	BDL	10
Bromomethane	BDL	10
Vinyl chloride	BDL	10
Chloroethane	BDL	5
Methylene chloride	BDL	10
Acetone	BDL	25
Carbon disulfide	BDL	5
1,1-Dichloroethene	BDL	5
Tetrahydrofuran	BDL	25
1,1-Dichloroethane	BDL	5
1,2-Dichloroethene (total)	BDL	5
Chloroform	BDL	5
Methyl ethyl ketone	BDL	25
1,2-Dichloroethane	BDL	5
1,1,1-Trichloroethane	BDL	5
Carbon Tetrachloride	BDL	5
Vinyl acetate	BDL	10
Bromodichloromethane	BDL	5
cis-1,3-Dichloropropene	BDL	5
trans-1,3-Dichloropropene	BDL	5
Trichloroethene	BDL	5
Benzene	BDL	5
Dibromochloromethane	BDL	5
1,1,2-Trichloroethane	BDL	5
1,2-Dichloropropane	BDL	5
2-Chloroethyl vinyl ether	BDL	5
Bromoform	BDL	5
Methyl isobutyl ketone	BDL	25
2-Hexanone	BDL	25
1,1,2,2-Tetrachloroethane	BDL	5
Tetrachloroethene	BDL	5
Toluene	BDL	5
Chlorobenzene	BDL	5
Ethylbenzene	BDL	5
m-Xylene	BDL	5
o,p-Xylene	BDL	5
Styrene	BDL	5

METHOD REFERENCE: EPA SW 846 3RD EDITION
 METHOD 8240

BDL = Below detection limit

MATRIX SPIKE RECOVERY
VOLATILE ORGANIC COMPOUNDS

Laboratory Number: LCC080895A1
Sample Designation: LABORATORY CONTROL SAMPLE
Date Analyzed: 08/08/95
Matrix: WATER

COMPOUND	ug/L IN SAMPLE	ug/L SPIKE	ug/L FOUND	%REC- OVERY
1,1-DICHLOROETHENE	0	50	53	105
TRICHLOROETHYLENE	0	50	51	102
BENZENE	0	50	49	97
TOLUENE	0	50	49	98
CHLOROBENZENE	0	50	51	102

METHOD REFERENCE: EPA SW 846, 3RD EDITION
METHOD 8240

SOIL VOLATILES SURROGATE RECOVERY

Client: OHM REMEDIATION SERVICES CORP.
Project: CAMP LEJEUNE/16487
Level: Soil

Lab No.: 44862

CLIENT SAMPLE NO.	S1 (TOL) #	S2 (BFB) #	S3 (DCE) #	OTHER	TOT OUT
CLJ44-CC-001	97	100	98		0

QC LIMITS
S1 (TOL) = Toluene-d8 86 - 114
S2 (BFB) = Bromofluorobenzene 72 - 132
S3 (DCE) = 1,2-Dichloroethane-d4 70 - 138

Column to be used to flag recovery values with an asterisk
* Values outside of designated QC limits
D Surrogates diluted out



SOIL VOLATILES SURROGATE RECOVERY

Client: OHM REMEDIATION SERVICES CORP.
 Project: CAMP LEJEUNE/16487
 Level: Soil

Lab No.: 44897

CLIENT SAMPLE NO.	S1 (TOL) #	S2 (BFB) #	S3 (DCE) #	OTHER	TOT OUT
=====	=====	=====	=====	=====	=====
CLJ44-CC-025MS	95	109	91		0
CLJ44-CC-025MSD	93	106	88		0
BV1118D	95	96	100		0

QC LIMITS

- S1 (TOL) = Toluene-d8 86 - 114
- S2 (BFB) = Bromofluorobenzene 72 - 132
- S3 (DCE) = 1,2-Dichloroethane-d4 70 - 138

Column to be used to flag recovery values with an asterisk
 * Values outside of designated QC limits
 D Surrogates diluted out



Laboratory number: BV1118D
Sample Designation: LABORATORY BLANK
Date Analyzed: 08/11/95
Matrix: SOLID

VOLATILE ORGANICS	CONCENTRATION (ug/g)	DETECTION LIMIT (ug/g)
Chloromethane	BDL	1.0
Bromomethane	BDL	1.0
Vinyl chloride	BDL	1.0
Chloroethane	BDL	0.5
Methylene chloride	BDL	1.0
Acetone	BDL	2.5
Carbon disulfide	BDL	0.5
1,1-Dichloroethene	BDL	0.5
Tetrahydrofuran	BDL	2.5
1,1-Dichloroethane	BDL	0.5
Chloroform	BDL	0.5
Methyl ethyl ketone	BDL	2.5
1,2-Dichloroethane	BDL	0.5
1,1,1-Trichloroethane	BDL	0.5
Carbon Tetrachloride	BDL	0.5
Vinyl acetate	BDL	1.0
Bromodichloromethane	BDL	0.5
cis-1,3-Dichloropropene	BDL	0.5
cis-1,3-Dichloropropene	BDL	0.5
trans-1,3-Dichloropropene	BDL	0.5
Trichloroethene	BDL	0.5
Benzene	BDL	0.5
Dibromochloromethane	BDL	0.5
1,1,2-Trichloroethane	BDL	0.5
1,2-Dichloropropane	BDL	0.5
2-Chloroethyl vinyl ether	BDL	0.5
Bromoform	BDL	0.5
Methyl isobutyl ketone	BDL	2.5
2-Hexanone	BDL	2.5
1,1,2,2-Tetrachloroethane	BDL	0.5
Tetrachloroethene	BDL	0.5
Toluene	BDL	0.5
Chlorobenzene	BDL	0.5
Ethylbenzene	BDL	0.5
m-Xylene	BDL	0.5
o,p-Xylene	BDL	0.5
Styrene	BDL	0.5

METHOD REFERENCE: EPA SW 846, 3RD EDITION
METHOD 8240

BDL = Below detection limit



0000050

VOLATILE ORGANIC COMPOUNDS
MATRIX SPIKE RECOVERY

Laboratory Number: LS-V1118
Field Identification: LABORATORY CONTROL SAMPLE
Date Analyzed: 08/08/95
Matrix: SOLID

COMPOUND	ug/g IN SAMPLE	ug/g SPIKE	ug/g FOUND	%REC- OVERY
1,1-DICHLOROETHENE	0.00	6.25	6.76	108
TRICHLOROETHYLENE	0.00	6.25	6.42	103
BENZENE	0.00	6.25	6.13	98
TOLUENE	0.00	6.25	6.04	97
CHLOROBENZENE	0.00	6.25	6.04	97

METHOD REFERENCE: EPA SW 846, 3RD EDITION METHOD 8240

WATER VOLATILES SURROGATE RECOVERY

Client: OHM REMEDIATION SERVICES CORP.
 Project: CAMP LEJEUNE/16487

Lab No.: 44897

CLIENT SAMPLE NO.	S1 (TOL) #	S2 (BFB) #	S3 (DCE) #	OTHER	TOT OUT
===== CLJ44-CC-025	===== 99	===== 104	===== 101	===== _____	===== 0

QC LIMITS

S1 (TOL) = Toluene-d8 86 - 114
 S2 (BFB) = Bromofluorobenzene 72 - 132
 S3 (DCE) = 1,2-Dichloroethane-d4 70 - 138

Column to be used to flag recovery values with an asterisk
 * Values outside of designated QC limits
 D Surrogates diluted out



WATER VOLATILES SURROGATE RECOVERY

Client: OHM REMEDIATION SERVICES CORP.
 Project: CAMP LEJEUNE/16487

Lab No.: 44898

CLIENT SAMPLE NO.	S1 (TOL) #	S2 (BFB) #	S3 (DCE) #	S4 (DBFM) #	OTHER	TOT OUT
CLJ44-CU-015-TB	98	99	99			0
CLJ44-CU-012	103	104	103			0
CLJ44-CU-013	101	102	111			0
CLJ44-CU-014-RB	95	97	104			0
TCLP BLANK #387	105	106	105			0
BI080995A1	100	100	100			0

QC LIMITS

S1 (TOL) = Toluene-d8 86 - 114
 S2 (BFB) = Bromofluorobenzene 72 - 132
 S3 (DCE) = 1,2-Dichloroethane-d4 70 - 138
 S4 (DBFM) = Dibromofluoromethane 80 - 120

Column to be used to flag recovery values with an asterisk
 * Values outside of designated QC limits
 D Surrogates diluted out



Laboratory number: TCLP BLANK #387
Client ID: TCLP BLANK
Date Analyzed: 08/09/95
Matrix: TCLP EXTRACT

Parameter	Result (ug/L)	Regulatory Limit (ug/L)	Detection Limit (ug/L)
Vinyl chloride	BDL	200	10
1,1-Dichloroethene	BDL	700	5
1,2-Dichloroethane	BDL	500	5
Chloroform	BDL	6000	5
Methyl ethyl ketone	BDL	200000	25
Carbon Tetrachloride	BDL	500	5
Trichloroethene	BDL	500	5
Benzene	BDL	500	5
Tetrachloroethene	BDL	700	5
Chlorobenzene	BDL	100000	5

METHOD REFERENCE: EPA SW846 3rd EDITION
METHOD 8240

BDL = Below detection limit

Laboratory number: BI080995A1
Sample Designation: LABORATORY BLANK
Date Analyzed: 08/09/95
Matrix: WATER

VOLATILE ORGANICS	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
Chloromethane	BDL	10
Bromomethane	BDL	10
Vinyl chloride	BDL	10
Chloroethane	BDL	5
Methylene chloride	BDL	10
Acetone	BDL	25
Carbon disulfide	BDL	5
1,1-Dichloroethene	BDL	5
Tetrahydrofuran	BDL	25
1,1-Dichloroethane	BDL	5
1,2-Dichloroethene (total)	BDL	5
Chloroform	BDL	5
Methyl ethyl ketone	BDL	25
1,2-Dichloroethane	BDL	5
1,1,1-Trichloroethane	BDL	5
Carbon Tetrachloride	BDL	5
Vinyl acetate	BDL	10
Bromodichloromethane	BDL	5
cis-1,3-Dichloropropene	BDL	5
trans-1,3-Dichloropropene	BDL	5
Trichloroethene	BDL	5
Benzene	BDL	5
Dibromochloromethane	BDL	5
1,1,2-Trichloroethane	BDL	5
1,2-Dichloropropane	BDL	5
2-Chloroethyl vinyl ether	BDL	5
Bromoform	BDL	5
Methyl isobutyl ketone	BDL	25
2-Hexanone	BDL	25
1,1,2,2-Tetrachloroethane	BDL	5
Tetrachloroethene	BDL	5
Toluene	BDL	5
Chlorobenzene	BDL	5
Ethylbenzene	BDL	5
m-Xylene	BDL	5
o,p-Xylene	BDL	5
Styrene	BDL	5

METHOD REFERENCE: EPA SW 846 3RD EDITION
METHOD 8240

BDL = Below detection limit

VOLATILE ORGANIC COMPOUNDS
MATRIX SPIKE RECOVERY

Laboratory Number: LCI080995A1 5ML
Field Identification: LABORATORY CONTROL SAMPLE
Date Analyzed: 9 Aug 95 11:08 am
Matrix: WATER

COMPOUND	ug/L IN SAMPLE	ug/L SPIKE	ug/L FOUND	%REC- OVERY
C045 1,1-Dichloroethene	0.00	50.00	50.44	101
C150 Trichloroethene	0.00	50.00	54.79	110
C165 Benzene	0.00	50.00	52.33	105
C230 Toluene	0.00	50.00	51.63	103
C235 Chlorobenzene	0.00	50.00	54.12	108

METHOD REFERENCE: EPA SW-846, 3RD EDITION
METHOD 8240

5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: PACE New England

Project:

Lab File ID: >C9099

BFB Injection Date: 06/23/95

Instrument ID: CMS

BFB Injection Time: 16:33

ION ABUNDANCE CRITERIA for C9099 are reported on a separate sheet.

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS

CLIENT I.D.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	DATE ANALYZED
VSTD200	VSTD200	C9100	06/23/95	17:04
VSTD100	VSTD100	C9101	06/23/95	17:39
VSTD050	VSTD050	C9102	06/23/95	18:14
VSTD020	VSTD020	C9103	06/23/95	18:48
VSTD010	VSTD010	C9104	06/23/95	19:23

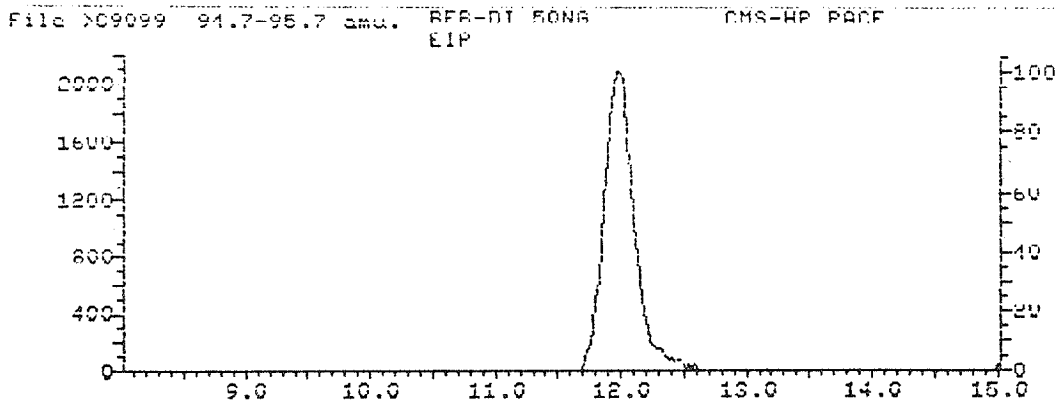
GC/MS PERFORMANCE STANDARD

Bromofluorobenzene (BFB) 'RR

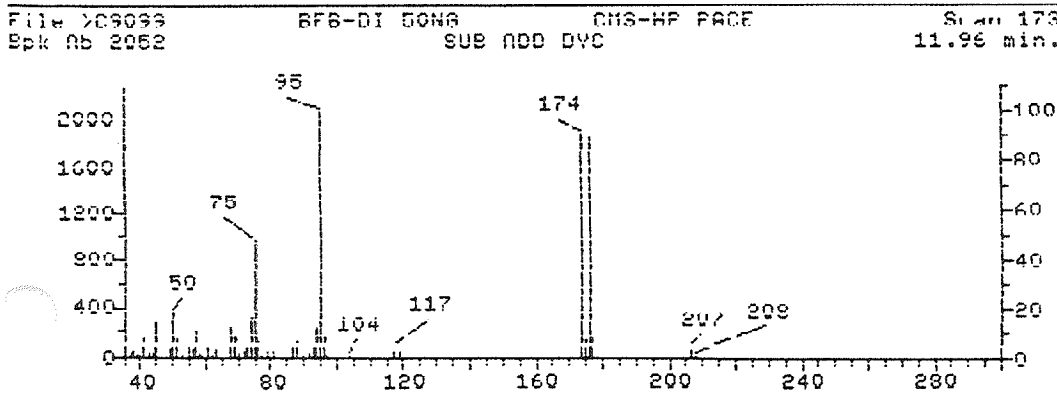
m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	% Relative Abundance Appropriate Peak	Status
50	15-40% of mass 95	17.24	17.24	OK
75	30-60% of mass 95	45.22	45.22	OK
95	Base peak, 100% relative abundance	100.00	100.00	OK
96	5-9% of mass 95	7.99	7.99	OK
123	Less than 2% of mass 174	0.00	0.00	OK
124	Greater than 50% of mass 95	90.59	90.59	OK
125	5-9% of mass 124	6.43	7.10	OK
126	95-100% of mass 124	89.47	98.76	OK
127	5-9% of mass 126	7.26	8.12	OK

Injection Date: 06/23/95
 Injection Time: 16:33
 Data File: >09099
 Scan: 173

THIS IS THE RESULT OF AVERAGING 172.000 173.000 174.000
 AND SUBTRACTING BACKGROUND SCAN 153.000



Handwritten: 8/18/95



5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: PACE New England

Contract:

Lab Code: RESAN

Case No.: OHMRC

SAS No.:

SDG No.: LJN09

Lab File ID: >C9655

BFB Injection Date: 08/04/95

Instrument ID: CMS

BFB Injection Time: 09:31

ION ABUNDANCE CRITERIA for C9655 are reported on a separate sheet.

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS

CLIENT I.D.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	DATE ANALYZED
VSTD050	VSTD050	C9657	08/04/95	10:30
BC080495A1	90182-059	C9658	08/04/95	11:04
LCC080495A1	90182-059MS	C9659	08/04/95	11:52
CLJ44-008-TB	44862-017	C9660	08/04/95	12:27
BV1117B	90186-045	C9746	08/10/95	20:57

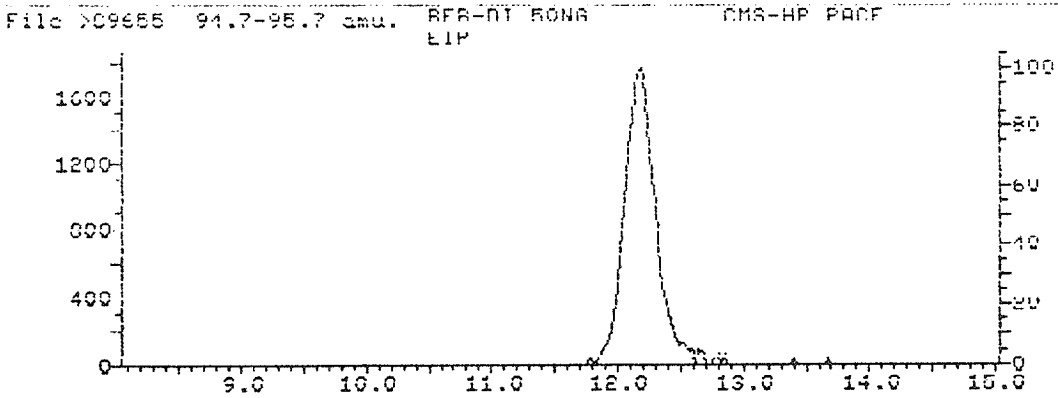
GC/MS PERFORMANCE STANDARD

Bromofluorobenzene (BFB) '88

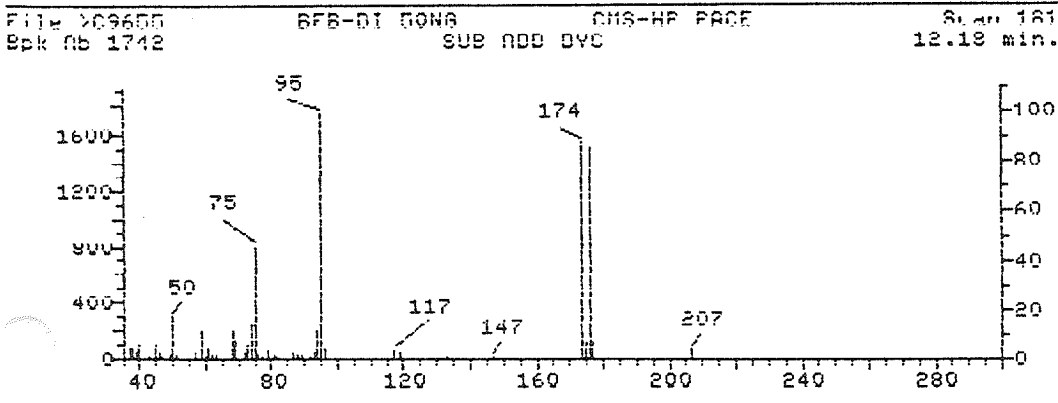
m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	% Relative Abundance Appropriate Peak	Status
50	15-40% of mass 95	17.12	17.12	OK
75	30-60% of mass 95	45.90	45.90	OK
95	Base peak, 100% relative abundance	100.00	100.00	OK
96	5-9% of mass 95	5.28	5.28	OK
173	Less than 2% of mass 174	0.00	0.00	OK
174	Greater than 50% of mass 95	88.25	88.25	OK
175	5-9% of mass 174	6.20	7.59	OK
176	95-100% of mass 174	86.09	97.55	OK
177	5-9% of mass 176	6.45	7.49	OK

Injection Date: 08/04/95
 Injection Time: 09:31
 Data File: >09655
 Scan: 181

THIS IS THE RESULT OF AVERAGING 180.000 181.000 182.000
 AND SUBTRACTING BACKGROUND SCAN 161.000



72
8/18/95



VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: PACE New England

Contract:

Lab Code: RESAN Case No.: OHMRC

SAS No.:

SDG No.: LJN09

Lab File ID: >C9678

BFB Injection Date: 08/07/95

Instrument ID: CMS

BFB Injection Time: 12:17

ION ABUNDANCE CRITERIA for C9678 are reported on a separate sheet.

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS

CLIENT I.D.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	DATE ANALYZED
VSTD050	VSTD050	C9679	08/07/95	12:56
BC080795A1	90182-060	C9680	08/07/95	13:30
LCC080795A1	90182-060MS	C9681	08/07/95	14:19
CLJ44-CC-002-RB	44862-002	C9688	08/07/95	18:35
CLJ44-007-FB	44862-016	C9689	08/07/95	19:11
CLJ44-CU-006-RB	44862-023	C9690	08/07/95	19:46
CLJ44-CU-015-TB	44898-004	C9691	08/07/95	20:21
CLJ44-CU-014-RB	44898-010	C9692	08/07/95	20:56
CLJ44-CC-001	44862-001	C9693	08/07/95	21:31

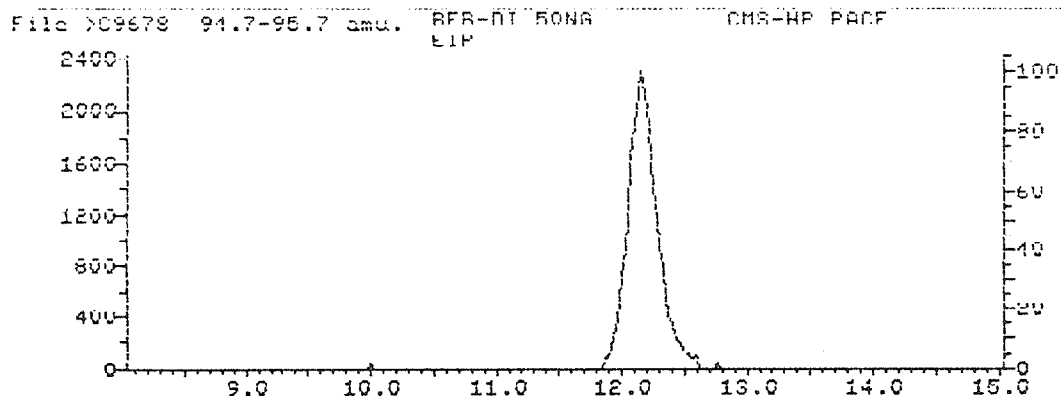
GC/MS PERFORMANCE STANDARD

Bromofluorobenzene (BFB) 188

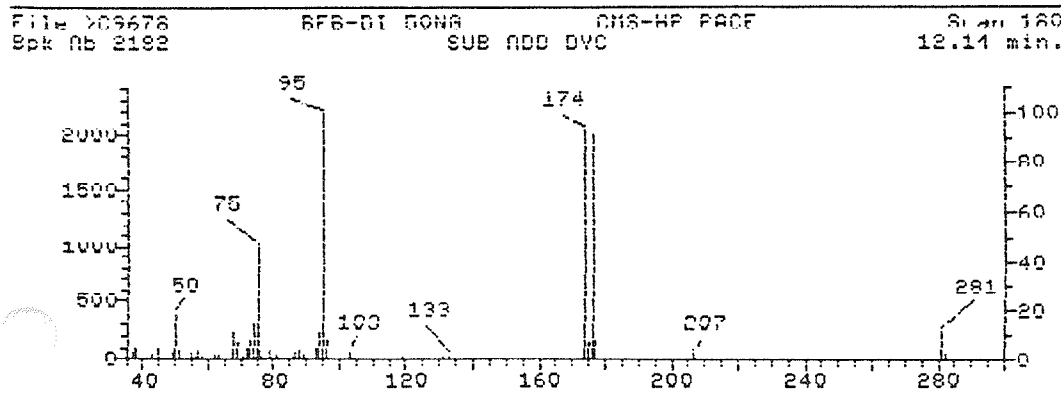
m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	Appropriate Peak	Status
50	15-40% of mass 95	17.46	17.46	Ok
75	30-60% of mass 95	45.46	45.46	Ok
95	Base peak, 100% relative abundance	100.00	100.00	Ok
96	5-9% of mass 95	7.93	7.93	Ok
123	Less than 2% of mass 174	0.00	0.00	Ok
174	Greater than 50% of mass 95	93.28	93.28	Ok
175	5-9% of mass 174	6.71	7.19	Ok
176	95-101% of mass 174	91.28	98.40	Ok
177	5-9% of mass 176	7.13	7.22	Ok

Injection Date: 08/02/95
 Injection Time: 12:12
 Data File: >19678
 Scan: 180

THIS IS THE RESULT OF AVERAGING AND SUBTRACTING BACKGROUND SCAN
 179.000 180.000 181.000
 160.000



*70
8(8/9)*



5A
 VOLATILE ORGANIC GC/MS TUNING AND MASS
 CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: PACE New England

Contract:

Lab Code: RESAN

Case No.: OHMRC

SAS No.:

SDG No.: LJN09

Lab File ID: >C9696

BFB Injection Date: 08/08/95

Instrument ID: CMS

BFB Injection Time: 12:43

ION ABUNDANCE CRITERIA for C9696 are reported on a separate sheet.

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS

CLIENT I.D.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	DATE ANALYZED
VSTD050	VSTD050	C9698	08/08/95	13:43
BC080895A1	90182-061	C9699	08/08/95	14:18
LCC080895A1	90182-061MS	C9700	08/08/95	15:04
BV1118A	90186-046	\I4366	08/09/95	16:23
LSV1118	90186-046MS	\I4386	08/10/95	16:09
CLJ44-CC-001	44862-018	C9710	08/08/95	20:54
CLJ44-CU-003	44862-020	C9711	08/08/95	21:29
CLJ44-CU-004	44862-021	C9712	08/08/95	22:04
CLJ44-CU-005	44862-022	C9713	08/08/95	22:39
BC082095A1	90182-069	C9714	08/08/95	23:13



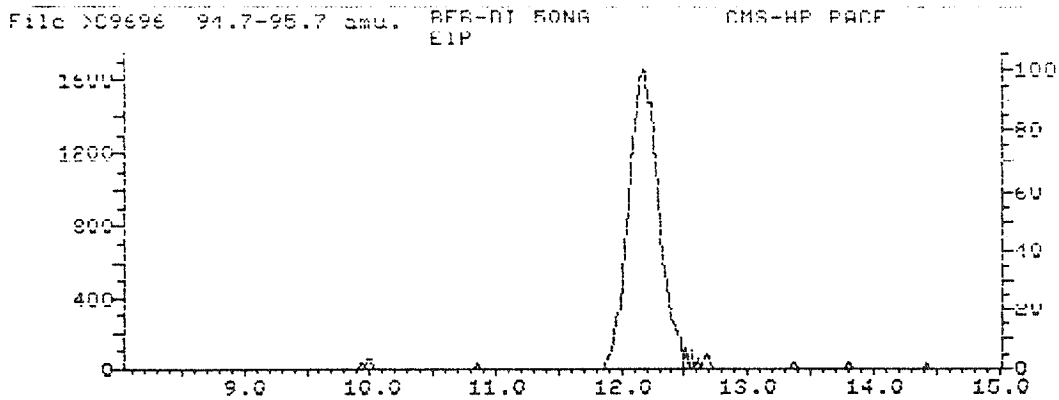
GC/MS PERFORMANCE STANDARD

Bromofluorobenzene (BFB) 188

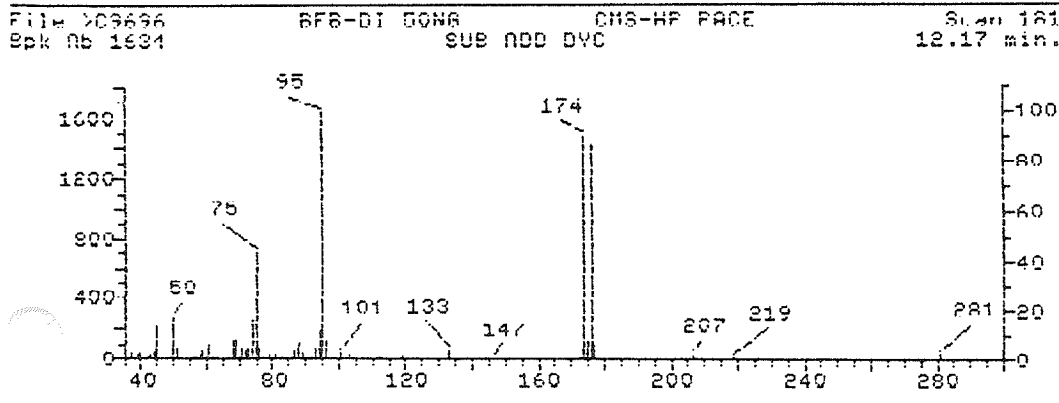
m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	Appropriate Peak	Status
50	15-40% of mass 95	16.34	16.34	OK
75	30-60% of mass 95	43.20	43.20	OK
95	Base peak, 100% relative abundance	100.00	100.00	OK
96	5-9% of mass 95	7.36	7.36	OK
123	Less than 2% of mass 124	.21	.29	OK
124	Greater than 50% of mass 95	90.17	90.17	OK
125	5-9% of mass 124	7.18	7.96	OK
126	95-100% of mass 124	87.35	96.88	OK
127	5-9% of mass 126	6.18	7.07	OK

Injection Date: 08/08/95
 Injection Time: 12:43
 Data File: >C9696
 Scan: 181

THIS IS THE RESULT OF AVERAGING 180.000 181.000 182.000
 AND SUBTRACTING BACKGROUND SCAN 161.000



TW
8/8/95



5A

VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: PACE New England

Contract:

Lab Code: RESAN Case No.: OHMRC

SAS No.:

SDG No.: UNKNOWN

Lab File ID: >C9751

BFB Injection Date: 08/11/95

Instrument ID: CMS

BFB Injection Time: 11:04

ION ABUNDANCE CRITERIA for C9751 are reported on a separate sheet.

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS

CLIENT I.D.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	DATE ANALYZED
VSTD050	VSTD050	C9753	08/11/95	12:30
BV1118D	90186-046	\I4366	08/09/95	16:23
CLJ44-CC-025	44897-027	C9765	08/11/95	19:41
CLJ44-CC-025MS	44897-027MS	C9766	08/11/95	20:31
CLJ44-CC-025MSD	44897-027MSD	C9768	08/11/95	21:56

GC/MS PERFORMANCE STANDARD

Bromofluorobenzene (BFB) '88

m/z	Ion Abundance Criteria	% Relative Abundance		Status
		Base Peak	Appropriate Peak	
50	15-40% of mass 95	18.48	18.48	Ok
75	30-60% of mass 95	56.18	56.18	Ok
95	Base peak, 100% relative abundance	100.00	100.00	Ok
96	5-9% of mass 95	6.84	6.84	Ok
173	Less than 2% of mass 174	0.00	0.00	Ok
174	Greater than 50% of mass 95	95.50	95.50	Ok
175	5-9% of mass 174	7.85	8.21	Ok
176	95-101% of mass 174	95.28	100.81	Ok
177	5-9% of mass 176	7.00	7.27	Ok

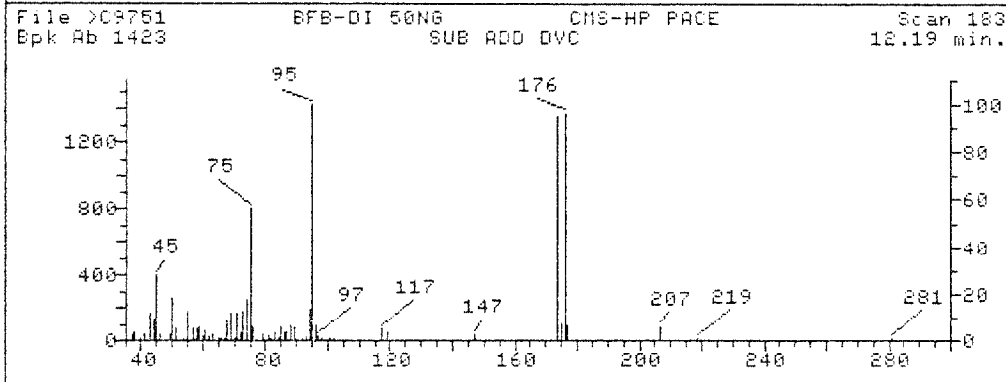
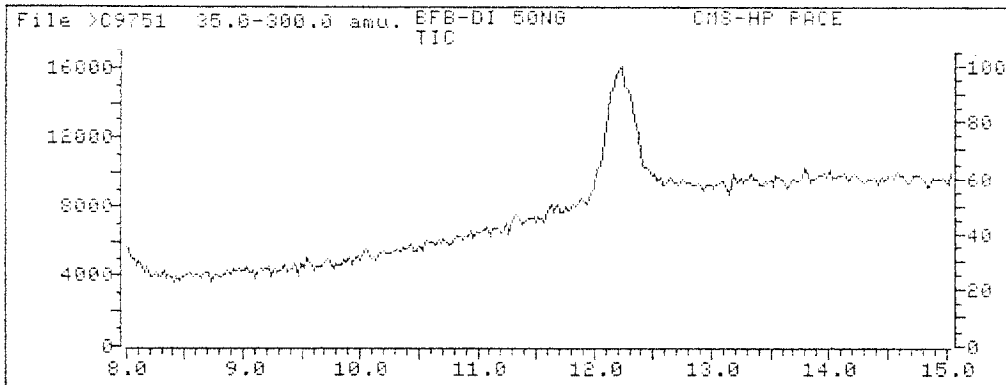
Injection Date: 08/11/95

Injection Time: 11:04

Data File: >C9751

Scan: 183 +184 +185 - 138

Handwritten: 8(22/95)
@C9751



5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: PACE New England

Contract:

Lab Code: RESAN Case No.: OHMRC

SAS No.:

SDG No.: UNKNOWN

Lab File ID: >I4328

BFB Injection Date: 08/07/95

Instrument ID: IMS

BFB Injection Time: 10:16

ION ABUNDANCE CRITERIA for I4328 are reported on a separate sheet.

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS

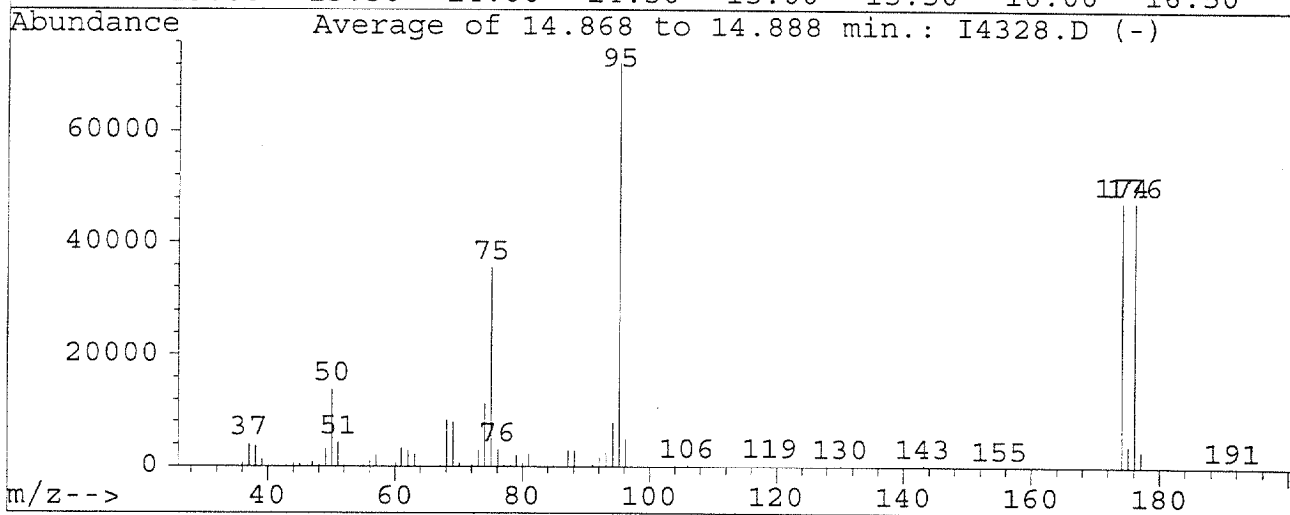
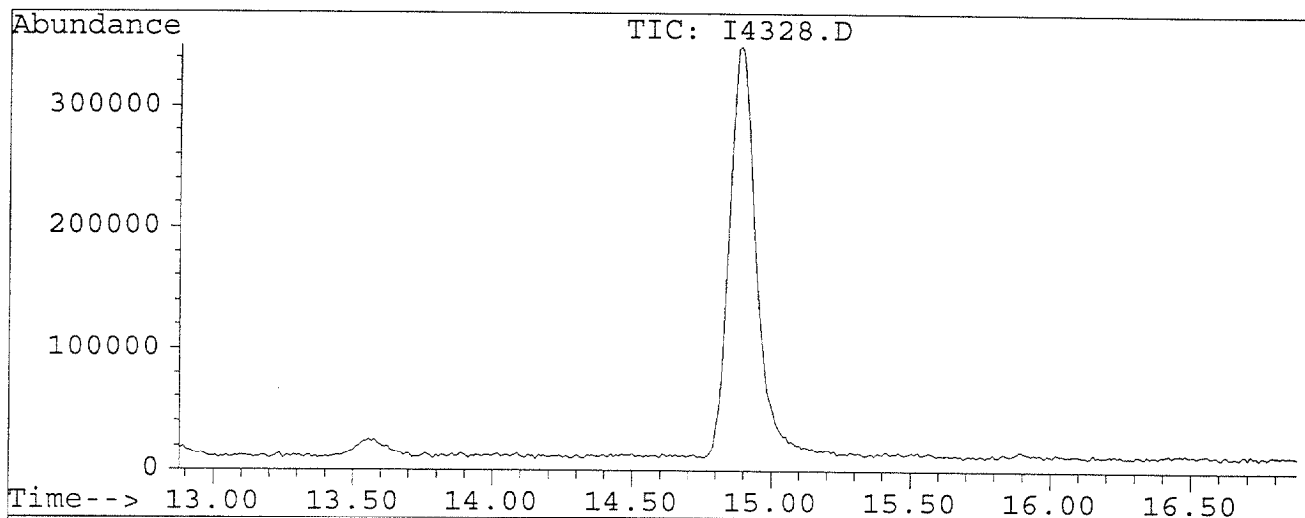
CLIENT I.D.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	DATE ANALYZED
VSTD200	VSTD200	I4331	08/07/95	13:03
VSTD100	VSTD100	I4332	08/07/95	13:40
VSTD050	VSTD050	I4333	08/07/95	14:18
VSTD020	VSTD020	I4334	08/07/95	14:56
VSTD010	VSTD010	I4335	08/07/95	15:34

GC/MS PERFORMANCE STANDARD -- 8/91 SOW
 PACE, Inc
 Bromofluorobenzene

13K
 8-15-95

Data File : C:\HPCHEM\1\DATA\I080795\I4328.D
 Acq On : 7 Aug 95 10:16 am
 Sample : BFB-DI 50NG/UL
 Misc : IMS-HP, PACE

Vial: 2
 Operator: LGM
 Inst : 5970 - In
 Multiplr: 1.00



Tune scans: 918 + 919 + 920 - 905

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	19.2	13876	PASS
75	95	30	66	49.2	35616	PASS
95	95	100	100	100.0	72429	PASS
96	95	5	9	7.0	5049	PASS
173	174	0	2	0.0	0	PASS
174	95	50	120	65.5	47459	PASS
175	174	4	9	8.2	3906	PASS
176	174	93	101	100.0	47437	PASS
177	176	5	9	6.4	3038	PASS

5A

VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: PACE New England

Contract:

Lab Code: RESAN

Case No.: OHMRC

SAS No.:

SDG No.: UNKNOWN

Lab File ID: >I4358

BFB Injection Date: 08/09/95

Instrument ID: IMS

BFB Injection Time: 09:20

ION ABUNDANCE CRITERIA for I4358 are reported on a separate sheet.

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS

CLIENT I.D.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	DATE ANALYZED
VSTD050	VSTD050	I4359	08/09/95	09:50
BI080995A1	90185-055	\I4360	08/09/95	10:28
LCI080995A1	90185-055MS	\I4361	08/09/95	11:08
TCLP BLANK387	90185-065	\I4368	08/09/95	17:44
CLJ44-CU-012	44898-008	\I4370	08/09/95	19:06
CLJ44-CU-013	44898-009	\I4371	08/09/95	19:46
CLJ44-CC-025	44897-025	\I4372	08/09/95	20:26

pace
INCORPORATED
THE ASSURANCE OF QUALITY

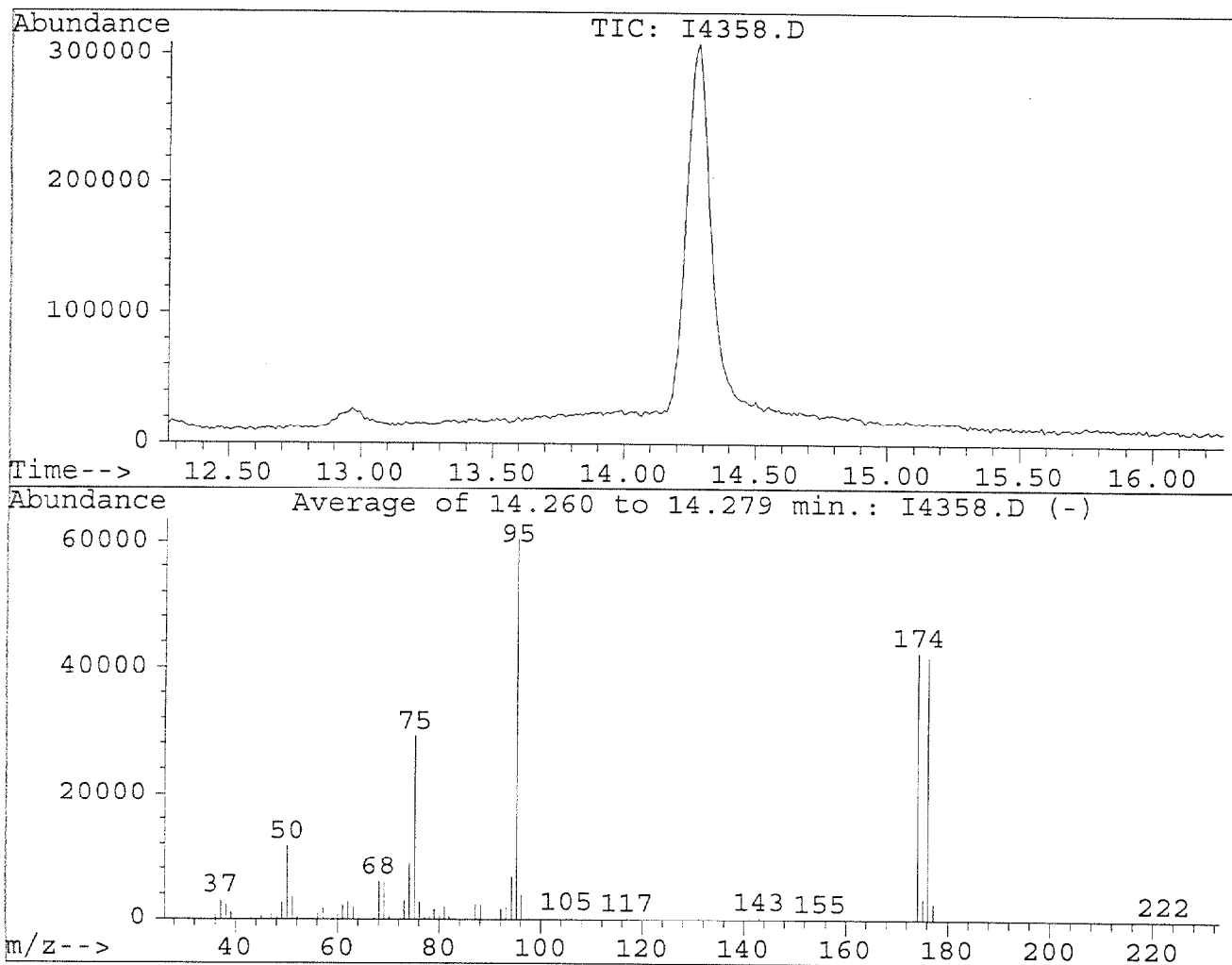
0000069

GC/MS PERFORMANCE STANDARD -- 8/91 SOW
 PACE, Inc
 Bromofluorobenzene

PK
 8-14-95

Data File : C:\HPCHEM\1\DATA\I080995\I4358.D
 Acq On : 9 Aug 95 9:20 am
 Sample : BFB-DI 50NG/UL
 Misc : IMS-HP, PACE

Vial: 1
 Operator: LGM
 Inst : 5970 - In
 Multiplr: 1.00



Tune scans: 855 + 856 + 857 - 841

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.2	11611	PASS
75	95	30	60	48.1	29139	PASS
95	95	100	100	100.0	60597	PASS
96	95	5	9	6.4	3908	PASS
173	174	0	2	0.0	0	PASS
174	95	50	100	70.3	42592	PASS
175	174	5	9	8.0	3428	PASS
176	174	95	101	98.5	41960	PASS
177	176	5	9	6.3	2662	PASS

Initial Calibration Data
HSL Compounds

NLR
6/26/95

Case No: _____ Instrument ID: CMS-HP
 Contractor: RESAM Calibration Date: ~~06/26/95~~ 6/23/95
 Contract No: 68020026 *NLR*
 6/26/95
 (3)

CC0623 / IC0623

Minimum RF for SPCC is .30 Maximum % RSD for CCC is 30%

Compound	Laboratory ID: >C9104 >C9103 >C9102 >C9101 >C9100					RR1	RF	% RSD	CCC	SPCC
	RF 10.00	RF 20.00	RF 50.00	RF 100.00	RF 200.00					
C010 CHLOROMETHANE	.44111	.47892	.43883	.44213	.42666	.214	.44553	4.414	**	✓
C015 BROMOMETHANE	1.16219	1.20325	1.14649	1.21862	1.20167	.292	1.18644	2.575		
C020 VINYL CHLORIDE	.65743	.73678	.68291	.72002	.69786	.354	.69900	4.443	*	✓
C025 CHLOROETHANE	.37753	.44550	.40659	.44271	.44451	.435	.42337	7.177		
C030 METHYLENE CHLORIDE	1.28878	1.17373	1.01633	1.00839	.97652	.626	1.09275	12.231		
C035 ACETONE	.34619	.28698	.16263	.14432	.11643	.718	.21131	47.191	OK	
C040 CARBON DISULFIDE	2.60964	2.83092	2.69218	2.11613	2.72336	.832	2.59445	10.749		
C042 TRICHLOROFLUOROMETHANE	2.59125	2.79585	2.60479	2.64426	2.59431	.896	2.64609	3.263		
C045 1,1-DICHLOROETHENE	.89885	.94021	.91494	.92055	.90566	.980	.91605	1.734	*	✓
C058 TETRAHYDROFURAN	.02735	.02715	.05066	.05617	.05167	1.133	.04260	33.250	OK - noa clp	
C050 1,1-DICHLOROETHANE	1.63841	1.75796	1.64674	1.66338	1.59399	1.128	1.66010	3.640	**	✓
C053 1,2-DICHLOROETHENE (total)	1.03216	1.10286	1.06407	1.08872	1.05839	1.225	1.06924	2.573		(Conc=20.0,40.0,100.0,200
C060 CHLOROFORM	2.59660	2.72050	2.53178	2.55614	2.44103	1.278	2.56921	3.971	*	✓
C110 2-BUTANONE	.42552	.38522	.27731	.28076	.22415	1.405	.31859	26.227	OK	
C065 1,2-DICHLOROETHANE	1.54349	1.54943	1.53859	1.56006	1.45559	1.388	1.52943	2.749		
MTBE	1.81306	1.81258	1.70064	1.69466	1.51541	1.549	1.70727	7.132		
C515 1,2-DICHLOROETHANE-d4	1.50326	1.39407	1.35789	1.36355	1.25332	1.375	1.37442	6.512		
C115 1,1,1-TRICHLOROETHANE	.69839	.72645	.69731	.69466	.69962	.639	.70329	1.859		
C120 CARBON TETRACHLORIDE	.72352	.74585	.71789	.70999	.72995	.660	.72544	1.870		
C125 VINYL ACETATE	.49945	.43341	.42886	.41222	.38742	.681	.43227	9.636		
C130 BROMODICHLOROMETHANE	.84039	.80884	.79241	.77807	.79210	.682	.80236	2.977		
C140 1,2-DICHLOROPROPANE	.29110	.29789	.27865	.28285	.27668	.768	.28543	3.117	*	✓
C143 CIS-1,3-DICHLOROPROPENE	.48081	.47282	.46907	.47801	.47853	.780	.47585	1.006		
C150 TRICHLOROETHENE	.47278	.48281	.48008	.45509	.45917	.818	.46999	2.634		
C155 DIBROMODICHLOROMETHANE	.82091	.79930	.77186	.77017	.76601	.836	.78565	3.016		
C160 1,1,2-TRICHLOROETHANE	.35577	.34425	.32595	.32092	.29906	.849	.32919	6.655		
C165 BENZENE	.74143	.73148	.70580	.70061	.68233	.854	.71233	3.362		
C172 TRANS-1,3-DICHLOROPROPENE	.45094	.44416	.43799	.44579	.44169	.853	.44411	1.085		
C176 2-CHLORODETHYLVINYLETHYER	.11279	.11512	.11643	.12513	.12206	.920	.11831	4.325		✓
C180 BROMOFORM	.67840	.67970	.66705	.62931	.62601	.987	.65609	4.031	**	✓

RF - Response Factor (Subscript is amount in ug/L)

RR1 - Average Relative Retention Time (RT Std/RT Istd)

RF - Average Response Factor

XRSD - Percent Relative Standard Deviation

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

Initial Calibration Data
HSL Compounds

Case No: _____ Instrument ID: CMS-HP
 Contractor: RESAM Calibration Date: ~~06/26/95~~ 6/23/95
 Contract No: 68020026
MAL
4/26/95

CC0623 / IC0623

Minimum RF for SPCC is .30 Maximum % RSD for CCC is 30%

Compound	Laboratory ID: >C9104 >C9103 >C9102 >C9101 >C9100					RR1	RF	% RSD	CCC	SPCC
	RF	RF	RF	RF	RF					
	10.00	20.00	50.00	100.00	200.00					
C505 TOLUENE-d8	1.03191	1.01040	.96869	.98472	.94411	.950	.98797	3.484		
C205 4-METHYL-2-PENTANONE	.31566	.27172	.23076	.23245	.20627	.814	.25137	17.068		
C210 2-HEXANONE	.19333	.19267	.16894	.15660	.13748	.884	.16980	14.111		
C220 TETRACHLOROETHENE	.55657	.60396	.56390	.57770	.56904	.895	.57423	3.189		
C225 1,1,2,2-TETRACHLOROETHANE	.61589	.59586	.56297	.57818	.54269	.883	.57912	4.900	**	✓
C230 TOLUENE	1.09937	1.12361	1.08256	1.09458	1.06627	.959	1.09328	1.942	*	✓
C235 CHLORO BENZENE	.95413	.99569	.94105	.92963	.92169	1.005	.94844	3.069	**	✓
C240 ETHYL BENZENE	.43746	.44906	.42847	.44287	.42954	1.088	.43748	2.004	*	✓
C245 STYRENE	.95027	.94350	.88876	.89022	.86434	1.207	.90742	4.137		
C251 XYLENE	.54129	.54229	.52494	.50758	.49606	1.216	.52243	3.914		
C250 XYLENE (total)	.55102	.55236	.52631	.51593	.50162	1.241	.52945	4.178		
C510 BROMOFLUOROBENZENE	1.04312	.93476	.89359	.88607	.83735	1.164	.91898	8.438		

(Conc=20.0, 40.0, 100.0, 200)

- RF - Response Factor (Subscript is amount in ug/L)
 RR1 - Average Relative Retention Time (RI Std/RI Istd)
 RF - Average Response Factor
 %RSD - Percent Relative Standard Deviation
 CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

Continuing Calibration Check
HSL Compounds

Case No: _____ Calibration Date: 08/02/95
 Contractor: RESAH _____ Time: 14:44
 Contract No: 68020026 _____ Laboratory ID: >C9615
 Instrument ID: CMS-HP _____ Initial Calibration Date: 06/26/95

Minimum \bar{RF} for SPCC is .30 Maximum % Diff for CCC is 25%

IC0802

Compound	\bar{RF}	RF	%Diff	CCC	SPCC
C010 CHLOROMETHANE	.44553	.44616	.14	**	
C015 BROMOMETHANE	1.18644	1.14957	3.11		
C020 VINYL CHLORIDE	.69900	.67429	3.54	*	
C025 CHLOROETHANE	.42337	.41308	2.43		
C030 METHYLENE CHLORIDE	1.09275	1.05906	3.08		
C035 ACETONE	.21131	.15900	24.75		
C040 CARBON DISULFIDE	2.59445	1.76328	32.04		
C042 TRICHLOROFLUOROMETHANE	2.64609	2.40456	9.13		
C045 1,1-DICHLOROETHENE	.91605	.88447	3.45	*	
C050 TETRAHYDROFURAN	.04260	.06473	51.95		
C050 1,1-DICHLOROETHANE	1.66010	1.58815	4.33	**	
C053 1,2-DICHLOROETHENE(total)	1.06924	1.01696	4.89		(Conc=100.00)
C060 CHLOROFORM	2.56921	2.50360	2.55	*	
C110 2-BUTANONE	.31859	.32585	2.28		
C065 1,2-DICHLOROETHANE	1.52943	1.54137	.78		
MTBE	1.70727	1.78390	4.49		(Conc=50.00)
CS15 1,2-DICHLOROETHANE-d4	1.37442	1.32841	3.35		
C115 1,1,1-TRICHLOROETHANE	.70329	.67345	4.24		
C120 CARBON TETRACHLORIDE	.72544	.68109	6.11		
C125 VINYL ACETATE	.43227	.44642	3.27		
C130 BROMODICHLOROMETHANE	.80236	.79677	.70		
C140 1,2-DICHLOROPROPANE	.28543	.28324	.77	*	
C143 CIS-1,3-DICHLOROPROPENE	.47585	.47325	.55		(Conc=50.00)
C150 TRICHLOROETHENE	.46999	.45095	4.05		
C155 DIBROMOCHLOROMETHANE	.78565	.77785	.99		
C160 1,1,2-TRICHLOROETHANE	.32919	.33203	.86		
C165 BENZENE	.71233	.73219	2.79		
C172 TRANS-1,3-DICHLOROPROPENE	.44411	.45184	1.74		(Conc=50.00)
C176 2-CHLOROETHYLVINYLETHER	.11831	.14620	23.58		
C180 BROMOFORM	.65609	.64687	1.41	**	
CS05 TOLUENE-d8	.98797	.94529	4.32		
C205 4-METHYL-2-PENTANONE	.25137	.28149	11.98		

RF - Response Factor from daily standard file at 50.00 ug/L

\bar{RF} - Average Response Factor from Initial Calibration Form UI

%Diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

Continuing Calibration Check
HSL Compounds

Case No: _____ Calibration Date: 08/02/95
 Contractor: RESAN _____ Time: 14:44
 Contract No: 68020026 _____ Laboratory ID: >C9615
 Instrument ID: CMS-HP _____ Initial Calibration Date: 06/26/95

Minimum RF for SPCC is .30 Maximum % Diff for CCC is 25%

Compound	\bar{RF}	RF	%Diff	CCC	SPCC
C210 2-HEXANONE	.16980	.19773	16.45		
C220 TETRACHLOROETHENE	.57423	.55813	2.80		
C225 1,1,2,2-TETRACHLOROETHANE	.57912	.61457	6.12	**	
C230 TOLUENE	1.09328	1.06597	2.50	*	
C235 CHLOROBENZENE	.94844	.93993	.90	**	
C240 ETHYLBENZENE	.43748	.42913	1.91	*	
C245 STYRENE	.90742	.88543	2.42		
C251 XYLENE	.52243	.48973	6.26		
C250 XYLENE (total)	.52945	.51800	2.16		(Conc=100.00)
CS10 BROMOFLUOROBENZENE	.91898	.91832	.07		

RF - Response Factor from daily standard file at 50.00 ug/L

\bar{RF} - Average Response Factor from Initial Calibration Form VI

%Diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

Continuing Calibration Check
HSL Compounds

Case No: _____ Calibration Date: 08/04/95
 Contractor: RESAM _____ Time: 10:30
 Contract No: 68020026 _____ Laboratory ID: X09657
 Instrument ID: CMS-HP _____ Initial Calibration Date: 06/26/95

IC0804

Minimum RF for SPCC is .30 Maximum % Diff for CCC is 25%

Compound	RF	RF	%Diff	CCC	SPCC
C010 CHLOROMETHANE	.44553	.46917	5.31	**	
C015 BROMOMETHANE	1.18644	1.16968	1.41		
C020 VINYL CHLORIDE	.69900	.71866	2.81	*	
C025 CHLOROETHANE	.42337	.41925	.97		
C030 METHYLENE CHLORIDE	1.09275	1.08458	.75		
C035 ACETONE	.21131	.22565	6.79		
C040 CARBON DISULFIDE	2.59445	2.35235	9.33		
C042 TRICHLOROFLUOROMETHANE	2.64609	2.73762	3.46		
C045 1,1-DICHLOROETHENE	.91605	.86971	5.06	*	
C058 TETRAHYDROFURAN	.04260	.05205	22.18	OK	
C050 1,1-DICHLOROETHANE	1.66010	1.69608	2.17	**	
C053 1,2-DICHLOROETHENE(total)	1.06924	1.02492	4.14		(Conc=100.00)
C060 CHLOROFORM	2.56921	2.70129	5.14	*	
C110 2-BUTANONE	.31859	.33862	6.29		
C065 1,2-DICHLOROETHANE	1.52943	1.70069	11.20		
MTBE	1.70727	1.69838	.52		(Conc=50.00)
C015 1,2-DICHLOROETHANE-d4	1.37442	1.48928	8.36		
C115 1,1,1-TRICHLOROETHANE	.70329	.76780	9.17		
C120 CARBON TETRACHLORIDE	.72544	.76025	4.80		
C125 VINYL ACETATE	.43227	.45080	4.29		
C130 BROMODICHLOROMETHANE	.80236	.86268	7.52		
C140 1,2-DICHLOROPROPANE	.28543	.28751	.73	*	
C143 CIS-1,3-DICHLOROPROPENE	.47585	.47706	.25		(Conc=50.00)
C150 TRICHLOROETHENE	.46999	.47332	.71		
C155 DIBROMOCHLOROMETHANE	.78565	.80829	2.88		
C160 1,1,2-TRICHLOROETHANE	.32919	.34279	4.13		
C165 BENZENE	.71233	.75412	5.87		
C172 TRANS-1,3-DICHLOROPROPENE	.44411	.46390	4.46		(Conc=50.00)
C176 2-CHLOROETHYLVINYLETHYR	.11831	.11083	6.32		
C180 BROMOFORM	.65609	.64852	1.16	**	
C005 TOLUENE-d8	.98797	.91312	7.58		
C205 4-METHYL-2-PENTANONE	.25137	.25554	1.66		

OKAY 91 C/P
624 + 8240
TW
8/4/95

RF - Response Factor from daily standard file at 50.00 ug/L

RF - Average Response Factor from Initial Calibration Form UI

%Diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

Continuing Calibration Check
HSL Compounds

Case No: _____ Calibration Date: 08/04/95
 Contractor: RESAN _____ Time: 10:30
 Contract No: 68020026 _____ Laboratory ID: >C9657
 Instrument ID: CMS-HP _____ Initial Calibration Date: 06/26/95

Minimum RF for SPCC is .30 Maximum % Diff for CCC is 25%

Compound	RF	RF	%Diff	CCC	SPCC
C210 2-HEXANONE	.16980	.17792	4.78		
C220 TETRACHLOROETHENE	.57423	.54659	4.81		
C225 1,1,2,2-TETRACHLOROETHANE	.57912	.58137	.39	**	
C230 TOLUENE	1.09328	1.04743	4.19	*	
C235 CHLOROBENZENE	.94844	.92865	2.09	**	
C240 ETHYLBENZENE	.43748	.42903	1.93	*	
C245 STYRENE	.90742	.89976	.84		
C251 XYLENE	.52243	.52327	.16		
C250 XYLENE (total)	.52945	.53921	1.84		(Conc=100.00)
C510 BROMOFLUOROBENZENE	.91898	.89932	2.14		

RF - Response Factor from daily standard file at 50.00 ug/L

RF - Average Response Factor from Initial Calibration Form VI

%Diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

Continuing Calibration Check
HSL Compounds

Case No: _____ Calibration Date: 08/07/95
 Contractor: RESAM _____ Time: 12:56
 Contract No: 68020026 _____ Laboratory ID: >C9679
 Instrument ID: CMS-HP _____ Initial Calibration Date: 06/26/95

Minimum RF for SPCC is .30 Maximum % Diff for CCC is 25%

IC0807

Compound	RF	RF	%Diff	CCC	SPCC
C010 CHLOROMETHANE	.44553	.43399	2.59	**	✓
C015 BROMOMETHANE	1.18644	1.18402	.20		
C020 VINYL CHLORIDE	.69900	.71167	1.81	*	✓
C025 CHLOROETHANE	.42337	.44623	5.40		
C030 METHYLENE CHLORIDE	1.09275	1.10289	.93		
C035 ACETONE	.21131	.21728	2.82		
C040 CARBON DISULFIDE	2.59445	2.49851	3.70		
C042 TRICHLOROFLUOROMETHANE	2.64609	2.74796	3.85		
C045 1,1-DICHLOROETHENE	.91605	.90812	.87	*	✓
C050 TETRAMETHYLOXANE	.04260	.05422	27.27		
C050 1,1-DICHLOROETHANE	1.66010	1.68330	1.40	**	✓
C053 1,2-DICHLOROETHENE(total)	1.06924	1.04972	1.83		(Conc=100.00)
C060 CHLOROFORM	2.56921	2.64101	2.79	*	✓
C110 2-BUTANONE	.31859	.26050	18.23		
C065 1,2-DICHLOROETHANE	1.52943	1.65650	8.31		
MTBE	1.70727	1.72519	1.05		(Conc=50.00)
C015 1,2-DICHLOROETHANE-d4	1.37442	1.43530	4.43		
C115 1,1,1-TRICHLOROETHANE	.70329	.75369	7.17		
C120 CARBON TETRACHLORIDE	.72544	.77124	6.31		
C125 VINYL ACETATE	.43227	.45073	4.27		
C130 BROMODICHLOROMETHANE	.80236	.85402	6.44		
C140 1,2-DICHLOROPROPANE	.28543	.28763	.77	*	✓
C143 CIS-1,3-DICHLOROPROPENE	.47585	.48610	2.16		(Conc=50.00)
C150 TRICHLOROETHENE	.46999	.48430	3.05		
C155 DIBROMOCHLOROMETHANE	.78565	.81336	3.53		
C160 1,1,2-TRICHLOROETHANE	.32919	.33961	3.17		
C165 BENZENE	.71233	.73196	2.76		
C172 TRANS-1,3-DICHLOROPROPENE	.44411	.45821	3.17		(Conc=50.00)
C176 2-CHLOROETHYL VINYL ETHER	.11831	.10769	8.99		
C180 BROMOFORM	.65609	.67590	3.02	**	✓
C005 TOLUENE-d8	.98797	.89843	9.06		
C205 4-METHYL-2-PENTANONE	.25137	.24716	1.67		

RF - Response Factor from daily standard file at 50.00 ug/L

RF - Average Response Factor from Initial Calibration Form VI

%Diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

Continuing Calibration Check
HSL Compounds

Case No: _____ Calibration Date: 08/07/95
 Contractor: RESAM _____ Time: 12:56
 Contract No: 68020026 _____ Laboratory ID: >C9679
 Instrument ID: CMS-HP _____ Initial Calibration Date: 06/26/95

Minimum RF for SPCC is .30 Maximum % Diff for CCC is 25%

Compound	RF	RF	%Diff	CCC	SPCC
C210 2-HEXANONE	.16980	.15422	9.17		
C220 TETRACHLOROETHENE	.57423	.54635	4.86		
C225 1,1,2,2-TETRACHLOROETHANE	.57912	.54498	5.89	**	/
C230 TOLUENE	1.09328	1.01995	6.71	*	/
C235 CHLOROBENZENE	.94844	.91564	3.46	**	/
C240 ETHYLBENZENE	.43748	.41236	5.74	*	/
C245 STYRENE	.90742	.83395	8.10		
C251 XYLENE	.52243	.48582	7.01		
C250 XYLENE (total)	.52945	.50214	5.16		(Conc=100.00)
C510 BROMOFLUOROBENZENE	.91898	.90142	1.91		

RF - Response Factor from daily standard file at 50.00 ug/L

RF - Average Response Factor from Initial Calibration Form UI

%Diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

Continuing Calibration Check
HSL Compounds

Ic0808

Case No: -----

Calibration Date: 08/08/95 -----

Contractor: RESAN -----

Time: 13:43 -----

Contract No: 68020026 -----

Laboratory ID: >C9698 -----

Instrument ID: CMS-HP -----

Initial Calibration Date: 06/26/95 -----

Minimum RF for SPCC is .30

Maximum % Diff for CCC is 25%

Compound	RF	RF	%Diff	CCC	SPCC
C010 CHLOROMETHANE	.44553	.51414	15.40	**	✓
C015 BROMOMETHANE	1.18644	1.26414	6.55		
C020 VINYL CHLORIDE	.69900	.76706	9.74	*	✓
C025 CHLOROETHANE	.42337	.46994	11.00		
C030 METHYLENE CHLORIDE	1.09275	1.02055	6.61		
C035 ACETONE	.21131	.37848	79.11		
C040 CARBON DISULFIDE	2.59445	2.45694	5.30		
C042 TRICHLOROFLUOROMETHANE	2.64609	2.72290	2.90		
C045 1,1-DICHLOROETHENE	.91605	.92712	1.21	*	✓
C058 TETRAHYDROFURAN	.04260	.05004	17.46		
C050 1,1-DICHLOROETHANE	1.66010	1.72023	3.62	**	✓
C053 1,2-DICHLOROETHENE (total)	1.06924	1.06987	.06		(Conc=100.00)
C060 CHLOROFORM	2.56921	2.64058	2.78	*	✓
C110 2-BUTANONE	.31859	.47724	49.80		
C065 1,2-DICHLOROETHANE	1.52943	1.63747	7.06		
MTBE	1.70727	1.80989	6.01		(Conc=50.00)
CS15 1,2-DICHLOROETHANE-d4	1.37442	1.44407	5.07		
C115 1,1,1-TRICHLOROETHANE	.70329	.74345	5.71		
C120 CARBON TETRACHLORIDE	.72544	.74778	3.08		
C125 VINYL ACETATE	.43227	.45251	4.68		
C130 BROMODICHLOROMETHANE	.80236	.84618	5.46		
C140 1,2-DICHLOROPROPANE	.28543	.29726	4.14	*	✓
C143 CIS-1,3-DICHLOROPROPENE	.47585	.48272	1.44		(Conc=50.00)
C150 TRICHLOROETHENE	.46999	.46855	.31		
C155 DIBROMOCHLOROMETHANE	.78565	.79441	1.11		
C160 1,1,2-TRICHLOROETHANE	.32919	.33867	2.88		
C165 BENZENE	.71233	.73801	3.60		
C172 TRANS-1,3-DICHLOROPROPENE	.44411	.45833	3.20		(Conc=50.00)
C176 2-CHLOROETHYL VINYLETHER	.11831	.11090	6.26		
C180 BROMOFORM	.65609	.64286	2.02	**	✓
CS05 TOLUENE-d8	.98797	.91330	7.56		
C205 4-METHYL-2-PENTANONE	.25137	.25247	.44		

RF - Response Factor from daily standard file at 50.00 ug/L

RF - Average Response Factor from Initial Calibration Form VI

%Diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

0000079

Continuing Calibration Check
HSL Compounds

Case No: _____

Calibration Date: 08/08/95

Contractor: RESAN

Time: 13:43

Contract No: 68020026

Laboratory ID: >C9698

Instrument ID: CMS-HP

Initial Calibration Date: 06/26/95

Minimum RF for SPCC is .30

Maximum % Diff for CCC is 25%

Compound	RF	RF	%Diff	CCC	SPCC
C210 2-HEXANONE	.16980	.22851	34.58		
C220 TETRACHLOROETHENE	.57423	.54017	5.93		
C225 1,1,2,2-TETRACHLOROETHANE	.57912	.55383	4.37		
C230 TOLUENE	1.09328	1.01630	7.04	*	**
C235 CHLOROBENZENE	.94844	.91359	3.67		**
C240 ETHYLBENZENE	.43748	.41658	4.78	*	
C245 STYRENE	.90742	.85013	6.31		
C251 XYLENE	.52243	.48685	6.81		
C250 XYLENE (total)	.52945	.49758	6.02		(Conc=100.00)
CS10 BROMOFLUOROBENZENE	.91898	.90133	1.92		

IC0811

Continuing Calibration Check
HSL Compounds

Case No: _____

Calibration Date: 08/11/95

Contractor: RESAN

Time: 12:30

Contract No: 68020026

Laboratory ID: >C9753

Instrument ID: CMS-HP

Initial Calibration Date: 06/26/95

Minimum RF for SPCC is .30

Maximum % Diff for CCC is 25%

Compound	RF	RF	%Diff	CCC	SPCC
C010 CHLOROMETHANE	.44553	.40595	8.88	**	
C015 BROMOMETHANE	1.18644	1.05038	11.47		
C020 VINYL CHLORIDE	.69900	.62797	10.16	*	
C025 CHLOROETHANE	.42337	.40296	4.82		
C030 METHYLENE CHLORIDE	1.09275	1.03589	5.20		
C035 ACETONE	.21131	.18478	12.55		
C040 CARBON DISULFIDE	2.59445	1.98810	23.37		
C042 TRICHLOROFLUOROMETHANE	2.64609	2.34800	11.27		
C045 1,1-DICHLOROETHENE	.91605	.83468	8.88	*	
C058 TETRAHYDROFURAN	.04260	.05557	30.44		
C050 1,1-DICHLOROETHANE	1.66010	1.58238	4.68	**	
C053 1,2-DICHLOROETHENE (total)	1.06924	.96048	10.17		(Conc=100.00)
C060 CHLOROFORM	2.56921	2.47631	3.62	*	
C110 2-BUTANONE	.31859	.32136	.87		
C065 1,2-DICHLOROETHANE	1.52943	1.50147	1.83		
MTBE	1.70727	1.72217	.87		(Conc=50.00)
C015 1,2-DICHLOROETHANE-d4	1.37442	1.40992	2.58		
C115 1,1,1-TRICHLOROETHANE	.70329	.67527	3.98		
C120 CARBON TETRACHLORIDE	.72544	.66744	7.99		
C125 VINYL ACETATE	.43227	.41241	4.59		
C130 BROMODICHLOROMETHANE	.80236	.78938	1.62		
C140 1,2-DICHLOROPROPANE	.28543	.27813	2.56	*	
C143 CIS-1,3-DICHLOROPROPENE	.47585	.46550	2.18		(Conc=50.00)
C150 TRICHLOROETHENE	.46999	.45227	3.77		
C155 DIBROMOCHLOROMETHANE	.78565	.76045	3.21		
C160 1,1,2-TRICHLOROETHANE	.32919	.33397	1.45		
C165 BENZENE	.71233	.70035	1.68		
C172 TRANS-1,3-DICHLOROPROPENE	.44411	.42695	3.86		(Conc=50.00)
C176 2-CHLOROETHYL VINYLETHER	.11831	.10557	10.77		
C180 BROMOFORM	.65609	.60099	8.40	**	
C005 TOLUENE-d8	.98797	.91624	7.26		
C205 4-METHYL-2-PENTANONE	.25137	.24988	.59		

RF - Response Factor from daily standard file at 50.00 ug/L

RF - Average Response Factor from Initial Calibration Form VI

%Diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPCC - System Performance Check

0000081

Continuing Calibration Check
HSL Compounds

Case No: _____

Calibration Date: 08/11/95 _____

Contractor: RESAN _____

Time: 12:30 _____

Contract No: 68020026 _____

Laboratory ID: >C9753 _____

Instrument ID: CMS-HP _____

Initial Calibration Date: 06/26/95 _____

Minimum \overline{RF} for SPCC is .30

Maximum % Diff for CCC is 25%

Compound	\overline{RF}	RF	%Diff	CCC	SPCC
C210 2-HEXANONE	.16980	.14451	14.90		
C220 TETRACHLOROETHENE	.57423	.50101	12.75		
C225 1,1,2,2-TETRACHLOROETHANE	.57912	.52914	8.63		**
C230 TOLUENE	1.09328	.96321	11.90	*	
C235 CHLOROBENZENE	.94844	.84785	10.61		**
C240 ETHYLBENZENE	.43748	.39812	9.00	*	
C245 STYRENE	.90742	.79508	12.38		
C251 XYLENE	.52243	.46171	11.62		
C250 XYLENE (total)	.52945	.46892	11.43		(Conc=100.00)
CS10 BROMOFLUOROBENZENE	.91898	.90400	1.63		

Response Factor Report 5970 - In

Method : C:\HPCHEM\1\METHODS\WIC0807.M
 Title : 624 5 POINT WATER CALIBRATION, INST. IMS-HP
 Last Update : Fri Aug 11 09:45:26 1995
 Response via : Initial Calibration

Calibration Files

200 =I4331.D 100 =I4332.D 50 =I4333.D
 20 =I4334.D 10 =I4335.D

Compound	200	100	50	20	10	Avg	%RSD
-----ISTD-----							
1) I CI01 Bromochlorometha							
2) T C010 Chloromethane	0.771	0.770	0.790	0.805	0.799	0.7867	2.01
3) TCP C015 Bromomethane	1.148	1.196	1.219	1.213	1.204	1.1962	2.35
4) TCP C020 Vinyl Chloride	0.823	0.844	0.871	0.888	0.882	0.8616	3.19
5) T C025 Chloroethane	0.619	0.627	0.625	0.615	0.616	0.6202	0.87
6) T C030 Methylene Chlori	1.536	1.559	1.602	1.642	1.756	1.6189	5.37
7) T Freon-113	2.724	2.738	2.781	2.785	3.053	2.8161	4.79
8) T C035 Acetone	0.205	0.215	0.267	0.334	0.343	0.2728	23.68
9) T C040 Carbon Disulfide	3.534	3.441	3.363	3.120	2.960	3.2836	7.22
10) T C042 Trichlorofluorom	3.113	3.088	3.086	3.055	2.987	3.0657	1.59
11) MCP C045 1,1-Dichloroethe	2.219	2.229	2.223	2.160	2.144	2.1948	1.81
12) C058 Tetrahydrofuran	0.075	0.079	0.078	0.078	0.078	0.0777	1.86
13) TCP C050 1,1-Dichloroetha	2.386	2.393	2.447	2.381	2.399	2.4014	1.10
14) T C054 1,2-Dichloroethe	2.093	2.082	2.091	2.051	2.018	2.0672	1.55
15) T C053 1,2-Dichloroethe	2.093	2.082	2.091	2.051	2.018	2.0672	1.55
16) TCP C060 Chloroform	3.223	3.275	3.246	3.201	3.177	3.2244	1.18
17) T C110 2-Butanone	0.303	0.308	0.337	0.390	0.335	0.3348	10.33
18) T C065 1,2-Dichloroetha	2.020	2.054	2.058	2.063	2.007	2.0403	1.23
19) T MTBE	2.728	2.831	2.875	2.882	2.799	2.8230	2.22
20) S CS15 1,2-Dichloroetha	1.599	1.639	1.582	1.657	1.669	1.6291	2.29
-----ISTD-----							
21) I CI10 1,4-Difluorobenz							
22) TCP C115 1,1,1-Trichloroe	0.664	0.684	0.676	0.668	0.653	0.6691	1.75
23) TCP C120 Carbon Tetrachlo	0.606	0.612	0.596	0.568	0.549	0.5861	4.52
24) T C125 Vinyl Acetate	0.387	0.402	0.392	0.378	0.360	0.3837	4.11
25) TCP C130 Bromodichloromet	0.755	0.772	0.746	0.716	0.705	0.7388	3.74
26) T C140 1,2-Dichloroprop	0.307	0.321	0.318	0.319	0.320	0.3170	1.87
27) TCP C143 cis-1,3-Dichloro	0.480	0.485	0.468	0.449	0.441	0.4648	4.08
28) MTC C150 Trichloroethene	0.422	0.429	0.422	0.421	0.419	0.4226	0.87
29) TCP C155 Dibromochloromet	0.580	0.606	0.597	0.551	0.547	0.5761	4.64
30) TCP C160 1,1,2-Trichloroe	0.293	0.313	0.315	0.314	0.315	0.3098	3.14
31) MCP C165 Benzene	0.815	0.843	0.834	0.827	0.828	0.8297	1.25
32) TCP C172 trans-1,3-Dichlo	0.382	0.392	0.382	0.354	0.341	0.3702	5.86
33) T C176 2-Chloroethylvin	0.090	0.083	0.072	0.062	0.052	0.0720	21.49
34) TCP C180 Bromoform	0.436	0.447	0.427	0.395	0.349	0.4108	9.58
-----ISTD-----							
35) I CI20 Chlorobenzene-d5							
36) S CS05 Toluene-d8	1.085	1.092	1.053	1.093	1.137	1.0920	2.75
37) T C205 4-Methyl-2-Penta	0.326	0.337	0.337	0.339	0.315	0.3309	3.07
38) T C210 2-Hexanone	0.155	0.169	0.177	0.195	0.180	0.1752	8.32
39) TCP C220 Tetrachloroethen	0.600	0.618	0.617	0.629	0.627	0.6182	1.85
40) TCP C225 1,1,2,2-Tetrachl	0.676	0.717	0.734	0.745	0.725	0.7193	3.65
41) MCP C230 Toluene	1.328	1.379	1.365	1.385	1.376	1.3663	1.67

(#) = Out of Range

WIC0807.M

Mon Aug 14 11:09:05 1995

1

Page 1

0000083

Response Factor Report 5970 -

Data File : c:\p
 Acq On : 9 2
 Sample : VSTI
 Method : C
 Title : 6
 Last Update : F
 Response via : M

Method : C:\HPCHEM\1\METHODS\WIC0807.M
 Title : 624 5 POINT WATER CALIBRATION, INST. I
 Last Update : Fri Aug 11 09:45:26 1995
 Response via : Initial Calibration

Calibration Files
 200 =I4331.D 100 =I4332.D 50 =I4333.D
 20 =I4334.D 10 =I4335.D

Min. RRF :
 Max. RRF Dev :

Compound		200	100	50	20	10
1	I CI01 Bromoc					
2	T C010 Chloro					
3	TCP C015 Bromom					
4	TCP C020 Vinyl (
5	T C025 Chloro					
6	T C030 Methyl					
7	T Freon-113					
8	T C035 Acetone					
9	T C040 Carbon					
10	T C042 Trichl					
11	MCP C045 1,1-Dic					
12	C058 Tetrahy					
13	TCP C050 1,1-Dic					
14	T C054 1,2-Dic					
15	T C053 1,2-Dic					
16	TCP C060 Chlorof					
17	T C110 2-Butan					
18	T C065 1,2-Dic					
19	T MTBE					
20	S CS15 1,2-Dic					
21	I CI10 1,4-Dif					
22	TCP C115 1,1,1-Tr					
23	TCP C120 Carbon					
24	T C125 Vinyl Ac					
25	TCP C130 Bromodic					
26	T C140 1,2-Dic					
27	TCP C143 cis-1,3-					
28	MTC C150 Trichlor					
29	TCP C155 Dibromoc					
30	TCP C160 1,1,2-Tr					
31	MCP C165 Benzene					
32	TCP C172 trans-1,					
33	T C176 2-Chloro					
34	TCP C180 Bromofor					
35	I CI20 Chlorobe					
36	S CS05 Toluene-					
37	T C205 4-Methyl					
38	T C210 2-Hexano					
39	TCP C220 Tetrachl					
40	TCP C225 1,1,2,2-					

(#) = Out of Range
 i4359.d WIC0807.M

(#) = Out of Range
 WIC0807.M

Mon Aug 14 11:09:08 1995

Evaluate Continuing Calibration Report

Data File : c:\hpchem\1\data\i080995\i4359.d Vial: 2
 Acq On : 9 Aug 95 9:50 am Operator: LGM
 Sample : VSTD050 5ML Inst : 5970 - In
 Method : C:\HPCHEM\1\METHODS\WIC0807.M Multiplr: 1.00
 Title : 624 5 POINT WATER CALIBRATION, INST. IMS-HP
 Last Update : Fri Aug 11 09:45:26 1995
 Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 1% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 500%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev (Min)
41 MCP	C230 Toluene	1.366	1.265	7.4	110	-0.33
42 MCP	C235 Chlorobenzene	1.025	0.962	6.2	111	-0.31
43 TCP	C240 Ethylbenzene	1.621	1.502	7.3	108	-0.31
44 TCP	C245 Styrene	0.896	0.859	4.1	109	-0.37
45 TCP	C251 Xylene (o)	1.324	1.231	7.0	108	-0.36
46 TCP	C250 Xylene (total)	1.300	1.204	7.4	109	-0.32
47 S	CS10 Bromofluorobenzene	0.866	0.843	2.7	117	-0.40

VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: PACE New England

Contract:

Lab Code: RESAN Case No.: OHMRC

SAS No.:

SDG No.: LJJN09

Lab File ID (Standard): >C9679

Date Analyzed: 08/07/95

Instrument ID: CMS

Time Analyzed: 12:56

	IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	65497	7.25	217912	17.82	189386	22.61
=====	=====	=====	=====	=====	=====	=====
UPPER LIMIT	130994	7.75	435824	18.32	378772	23.11
=====	=====	=====	=====	=====	=====	=====
LOWER LIMIT	32749	6.75	108956	17.32	94693	22.11
=====	=====	=====	=====	=====	=====	=====
CLIENT I.D.						
=====	=====	=====	=====	=====	=====	=====
BC080795A1	62793	7.29	205585	17.82	180411	22.68
LCC080795A1	65185	7.28	215552	17.82	190946	22.63
CLJ44-CC-002-RB	61170	7.24	198564	17.82	181807	22.68
CLJ44-007-FB	59622	7.28	199052	17.81	180806	22.69
CLJ44-CU-006-RB	60595	7.30	198382	17.82	178954	22.67
CLJ44-CU-015-TB	60439	7.28	195178	17.81	181068	22.67
CLJ44-CU-014-RB	59080	7.26	194033	17.82	181072	22.67
CLJ44-CC-001	57514	7.19	186189	17.80	169419	22.63

IS1 (BCM) = Bromochloromethane
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CBZ) = Chlorobenzene

UPPER LIMIT = + 100%
 of internal standard area.
 LOWER LIMIT = - 50%

Column used to flag internal standard area values outside of
 UPPER and LOWER LIMIT with an asterisk

VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: PACE New England

Contract:

Lab Code: RESAN

Case No.: OHMRC

SAS No.:

SDG No.: LJN09

Lab File ID (Standard): >C9698

Date Analyzed: 08/08/95

Instrument ID: CMS

Time Analyzed: 13:43

	IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	65589	7.29	221843	17.83	195249	22.64
UPPER LIMIT	131178	7.79	443686	18.33	390498	23.14
LOWER LIMIT	32795	6.79	110922	17.33	97625	22.14
CLIENT I.D.						
BC080895A1	63164	7.31	215571	17.85	191040	22.68
LCC080895A1	62197	7.28	216340	17.84	191030	22.67
BV1118A	62159	7.21	201675	17.82	181713	22.67
LSV1118	60012	7.25	198282	17.83	181231	25.64
CLJ44-CC-001	54535	7.28	180191	17.82	167167	22.67
CLJ44-CU-003	59043	7.30	194632	17.83	182934	22.64
CLJ44-CU-004	56766	7.28	199524	17.84	181365	22.65
CLJ44-CU-005	61860	7.29	206588	17.80	188406	22.65
BC082095A1	59645	7.29	200897	17.85	185919	22.66

IS1 (BCM) = Bromochloromethane
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CBZ) = Chlorobenzene

UPPER LIMIT = + 100%
 of internal standard area.
 LOWER LIMIT = - 50%

Column used to flag internal standard area values outside of
 UPPER and LOWER LIMIT with an asterisk

VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: PACE New England

Contract:

Lab Code: RESAN Case No.: OHMRC

SAS No.:

SDG No.: UNKNOWN

Lab File ID (Standard): >I4359

Date Analyzed: 08/09/95

Instrument ID: IMS

Time Analyzed: 09:50

	IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	1185983	15.03	5537506	17.24	4056545	25.45
=====	=====	=====	=====	=====	=====	=====
UPPER LIMIT	2371966	15.53	11075012	17.74	8113090	25.95
=====	=====	=====	=====	=====	=====	=====
LOWER LIMIT	592992	14.53	2768753	16.74	2028273	24.95
=====	=====	=====	=====	=====	=====	=====
CLIENT I.D.						
=====	=====	=====	=====	=====	=====	=====
BI080995A1	1130294	15.06	5109139	17.27	3856352	25.46
LCI080995A1	1042375	15.26	4747495	17.48	3525543	25.70
BI082095A1	1026454	15.19	4860958	17.37	3470498	25.56
CLJ44-CU-012	1103176	15.25	4944507	17.45	3635156	25.66
CLJ44-CU-013	1010199	15.24	4785352	17.45	3582681	25.68
CLJ44-CC-025	1075164	15.28	4759918	17.48	3606999	25.71

IS1 (BCM) = Bromochloromethane
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CBZ) = Chlorobenzene

UPPER LIMIT = + 100%
 of internal standard area.
 LOWER LIMIT = - 50%

Column used to flag internal standard area values outside of
 UPPER and LOWER LIMIT with an asterisk

6 x 5pt
160

Voltage = 1675

PACE New England

TGN

061995TGN

GCMS/VOA

Instr C MS-HP Analyst/Date TRR 6/23/95 STD Lot # V-6211A

FRN	Arqv	ID File	Tube	SAMPLE	AMT	COMMENTS	pH	A	R
207099	#	-	-	BFB-DI	50ng	114R1 m/1675 = 3512 scan: 172+173 +174-153 time: 1633			4
209100		IC0623	1	VSTD000	5mls	IC0623/CC0623			4 5 5 5 5 5 5 5 5 5 5 5
01			2	VSTD100		OK 158 + 191			
02			3	VSTD050					
03			4	VSTD020					
04			5	VSTD010		m2 = C7 m3 = C13 m2 = C36			
05		IC0423	6	RC002395A		VBIKCM			
06			7	LC0062395					
07			8	TCLP Blank 2381					
08			9	44,349-2		(R624TCLP)			
09			10	49,769-23		WP034			
10			1	-24					
11			2	-25		re fn DCB5			
12			3	-26	✓	↓			
13			✓	BAKE					

TRR 6/23/95

CLP

VOLTAGE: 1725
MSCSAM
624/8240

15/55-V-6348

PACE New England

GCMS/VOA

Instr C MS-HP Analyst/Date LMH 8/4/95

STD Lot # V. 6350A

FRN	Arct	ID File	Tube	SAMPLE	AMT	COMMENTS	pH	A	R
>C9655	#469	-	-	BFB -DI	50ng	MTH 1 M/E 95 = 29K		✓	✓
				TIME: 9:31		88 GOOD ALSO (180-181-182-161)			
				SCAN: 180-181-182-161		'91 = 8 C9655			
>C9656		IC0023	1	VSTD 050	5ml	NOT USED			
57			2	VSTD 050	↓			✓	✓
58		IC0804	3	BC080495 A1	↓	VBXCU		✓	✓
>C9659			4	LCC080495 A1	5ml	V-6349		✓	✓
60			5	44862-17	↓	CLJ44-008-TB LJH09	<2	✓	✓
61			6	BV1117B	100ME	(R8240MSKTB)		✓	✓
62			7	44852-47	5ml	MW07A DUP (R9100A) PRLOG	>2	✓	✓
63			8	44839-HB	↓	HOLDING BLANK ↓ REPT 20053	<2	N	
64			9	44842-2	100ME	(R8240)		✓	✓
65			10	-2MS	↓			✓	
66			1	-2MD	↓			✓	
67			2	44839-11	5ml	MW07A (R9100A) PRLOG	<2	✓	✓
68			3	-12		MW07AF		✓	✓
69			4	44852-40		P865		✓	✓
70			5	-46		TB3		✓	✓
71			6	-48		MW05A		✓	✓
72			7	-49		MW04BR		✓	✓
73			8	-50		MW04A		✓	✓
74			9	-51		TB2		✓	✓
75			10	44852-HB	✓	HOLDING BLANK V V	>2	✓	✓
76			1	44862-2	5ml	CLJ44-CC-002 RB LJH09			
77			2	-16	↓	CLJ44-007-FB			
78			3	BAKE	←	INSTR RUN IN (3) 8/4/95			
>C9676				-BAKE-					

VOLTAGE = 17.25
 MSCS AM / MSCOLL
 624/8240

PACÉ New England

GCMS/VOA

Instr C MS-HP Analyst/Date LEH/TGN 8/7/95 STD Lot # V-6358 8/11/95 TGN

FRN	Acq	ID File	Tube	SAMPLE	AMT	COMMENTS	pH	A	R
XC 9677			\	BFB-DI 50mg/ml	1/2			N	N
78	3150		\	BFB-DI 50mg/ml	1/2	37K 179480-181-160 12:17 180 C-13 (M3) TP 8/7/95		✓	✓
79		IC0623	2	VSTD050	5ml			✓	✓
80		IC0807	3	BC080795A1	↓	VBLK CV		✓	✓
81			4	LC080795A1	↓	V-6349		✓	✓
82			5	44907-1	500 µl	(R5240) SCREEN	>2		
83			6	44907-1	5ml	↓	>2	✓	✓
84			7	44857-1	100 µl	(R5240) (M3) (M5)		✓	✓
85			8	-2	↓			✓	✓
86			9	-3	↓			✓	✓
87			10	44858-1	↓	(R5240) (M5)		✓	✓
88			1	44862-2	5ml	CLJ44-CC-002-RB v-8/10 (R5240) LJ 1009	>2	✓	✓
89			2	-16		CLJ44-007-FB		✓	✓
90			3	-23		CLJ44-CU-006-RB (R5240) (M5)	↓	✓	✓
91			4	44898-4		CLJ44-CU-015-TB	<2	✓	✓
92			5	-10	↓	CLJ44-CU-014-RB	>2	✓	✓
93			6	44862-1	100 µl	(R5240) CLJ44-CC-001		✓	✓
94			7	BLANK					
95			8	BACK					
96			9			→ NOT RUN 8/7/95			
			10			→ NOT RUN 8/7/95			

C4P

VOLTAGE = 1775

MSCSAM

C24/8240

PACE New England

GCMS/VOA

Instr C MS-HP Analyst/Date LM 8/15/75

STD Lot # 8/15/75
✓ - G350A

FRN	Arct	ID File	Tube	SAMPLE	AMT	COMMENTS	pH	A	R
>C9696	#470	-	-	BFB. DI	50mg	MTH 1 W/E 95 = 28075		✓	✓
				TIME: 12:43					
				SCAN 181+181+182	-161	'88 + '91			
>C9697		J00623	1	VSPO050	5ml	NOT USED			
98			2	VSPO050	↓	C-13 M-3 P8845 KETONES ↑		✓	✓
99		J00808	3	BC080895A1		UBLKCW		✓	✓
>C9700			4	LC080895A1	5ml	V-6349		✓	✓
01			5	BV1118 A	100ME	(R8240)		✓	✓
02			6	LS1118	↓	↓		✓	✓
03			7	44869-1	5ml	MW12A PRL66 (R9100A)	22	✓	✓
04			8	-2		MW01A		✓	✓
05			9	-3		MW01B		✓	✓
06			10	-4		MW14B		✓	✓
07			1	-5		P868		✓	✓
08			2	-6		TBS	↓	✓	✓
09			3	KB-44869	↓	NOISE BLANK	22	✓	✓
10			4	44862-18	5ml	CLJ44-CU-001 (R8240) L100		✓	✓
11			5	-20		CLJ44-CU-003		✓	✓
12			6	-21		CLJ44-CU-004		✓	✓
13			7	-22		CLJ44-CU-005		✓	✓
14			8	BLANK 386	↓		↓	✓	✓
15			9	44913-3	SOME	(R8240) LR 20ME ONK 12 HR WINDOW		✓	✓
16			10	44913-3	↓	↓ BACK UP ONLY		✓	N
17			1	44886-3	5ml	(R64 AMES)	22	✓	✓
18			2	44887-3	↓	↓	22	✓	✓
19			3	BAKE					

CLP

VOLTAGE = 1725
624/8240 + EDB
MSCSAM

PACE New England

GCMS/VOA

Instr CMS-HP Analyst/Date TN slu/95

STD Lot # V-07503

FRN	Arqv	ID File	Tube	SAMPLE	AMT	COMMENTS	pH	A	R
>C9749	B470	-	-	BFB-DI	50ng			N	
50		-	-	BFB-DI	50ng			N	
51		-	-	BFB-DI	50ng	MTU 1 ME 91 = 29K			✓
				TIME: 11.04		'91 + (88 - @C9751)			
				SCAN: 183-184 +185-138					
>C9752		ICE673	1	VSTD 050 + EDB	5ml	MS USED		N	
53			2	VSTD 050 + EDB	↓	C-12 (12) 2/8/95		✓	✓
54		IC0811	3	BC081195A1	↓	VLK CZ		✓	✓
>C9755			4	LCC081195A1	5ml	V-6349			✓
56			5	TCLP BLK 388	5ml	(R624TCLP)	22	✓	✓
57			6	44913-9		CLJ44-CU-022 ^{SP10} V-8/11 *		✓	✓
58			7	44914-3		CLJ44-CU-016			
59			8	-7		CLJ44-CU-017 ^{LOW} ^{2/8/95}			
60			9	-10		CLJ44-CU-018-RB			
61			10	-15		(R8240) CLJ44-CU-019-TB	22		
62			1	44910-15MS		2669 (R9100A) 2622 V-6349			
63			2	-15MSD	↓	↓ M2-C-20			
64			3	BV1118 D	WME	(R8240)			
65			4	44897-27	SOME	CLJ44-CU-025 ^{V-6349} LJN0912			
66			5	-27MS	↓	M2-C-20 ↓			
67			6	BLANK	5ml				
68			7	44897-27MS	SOME	CLJ44-CU-025 ^{M2-C-20} LJN09			
69			8	BAKE -					
70			9			MS R01			

* INCLUDES EDB + APPURTENANCE

IS/SS-V-6348
SPIKE-V-6349

SS=V-6347
Freon=V-6298

027/0240

PACE New England

GCMS/VOA

Instr I MS-HP Analyst/Date LEM 8/7/95 STD Lot # _____

FRN	Acqv	ID File	Tube	SAMPLE	AMT	COMMENTS	pH	A	R
I4328		NSRFB888		BFB-DI 50ng/ul	1ul	7/29/95 SCANS (88-91) INJ 72K 918+919+920-905 10:16am			✓
29		WC0807	1	VSTD050 + Freon	5mL				N
30		WC0807	3	VSTD200	5mL	DID NOT USE			✓ N
31			4	VSTD200		COMPLIANT 624/8240/CLP	1 MI LGM		✓ ✓
32			5	VSTD100		CIS + TABS 1,2 ZNE RE'S AVERD 8-11-95			✓ ✓
33			6	VSTD050			1 MI LGM		✓ ✓
34			7	VSTD020			1 MI LGM		✓ ✓
35			8	VSTD010			2 MI LGM		✓ ✓
36			9	VSTD000		DID NOT USE			- N
37		WC0807	10	BI080795A1	5mL				Y -
38			11	LCI080795A1					Y -
39			13	44876-4		(R624LN) V8/11			Y -
40			14	-3					Y -
41			15	-1	3.8mL				Y -
<p>26M 8/8/95</p> <p>8-11-95 P.R. Cis + Tabs 1,2 ZNE RE averaged in continuing cal method WC0807 P.R. 8-3-95</p>									
WC0807 updated using VSTD050 (I4333) from 5-point.									

PACE New England

GCMS/VOA

Instr I MS-HP Analyst/Date ^{LM} PL 8-9-95 STD Lot # 0812514

FRN	Acv	ID File	Tube	SAMPLE	AMT	COMMENTS	pH	A	R
I 4358		MS 44888	-	BFB-DE 50ug/L	μL	158+91 Acron 855+856+857-841			Y
59		WC0807	1	VSTD050 + 828	5mL	V-6361			Y
60		WC0809	2	BI080995A1	5mL	VBKIB			Y
61			3	LC080995A1	5mL				Y
62			4	44878-14	5mL	26128			Y
63			5	44908-31	5mL	26193 (SDG 25906)			Y
64			6	44909-13	5mL	26189 (SDG 26113)			Y
65			7	-14	5mL	26171 ↓			Y
66			8	BV1118B	100ME				Y
67			9	44928-4	100ME 100ME 80ME	(R8240) V-8/10			Y Y
68			10	TCLPBLK 387	5mL				Y
69			11	44936-1	5mL	(R624) V8/10			Y Y
				44897-25					
70			12	44898-8	5mL	(R624TCLP) V8/10 ^{LM}			Y
71			13	-9	↓	↓			Y
72			14	44897-25	↓	↓			Y
73			15	BV1118A	100ME	CLEANOUT			N
74			16	BV1118A	100ME				Y
75			1	44903-1	↓	(R8240MS)			Y Y
						<p>8-11-95 PL</p> <p>8-11-95 PL</p> <p>Oil + foam 12 ENE RE analyzed in method WC0809. Samples not requested because neither mud found in samples.</p>			

Field Identification: CLJ44-CC-001

Matrix: SOLID

Parameter	Result	Reporting		Lab No.	Date		QC	Method/Ref.
		Limit			Analyzed	Batch		
Total Gasoline (ug/g)	BDL	14		44862-001	08/04/95	BG1032A		8015(mod)/2
Total Diesel (ug/g)	920	37		44862-009	08/09/85			8015(mod),3350/2
Corrosivity (pH, units)	8.2			44862-009	08/04/95	345		2.1.2/2
Releasable Sulfide (mg/Kg)	BDL	50		44862-009	08/04/95	288		7.3.4.2/2
Releasable Cyanide (mg/Kg)	BDL	1		44862-009	08/07/95	288		7.3.3.2/2
Flash Point (degrees F)	>150	50		44862-009	08/07/95	315		1010/2
Oil and Grease by Gravimetry (ug/g)	1100	280		44862-026	08/09/95	BG1369		9071,503D/2,3

Field Identification: CLJ44-CC-002-RB

Matrix: WATER

Parameter	Result	Reporting		Lab No.	Date		QC	Method/Ref.
		Limit			Analyzed	Batch		
Total Gasoline (ug/L)	BDL	100		44862-002	08/04/95			8015(mod)/2
Total Diesel (ug/L)	110	110		44862-010	08/09/85			8015(mod),3350/2
Corrosivity (pH, units)	6.2			44862-032	08/04/95	345		2.1.2/2
Releasable Sulfide (mg/Kg)	BDL	50		44862-032	08/04/95	288		7.3.4.2/2
Releasable Cyanide (mg/Kg)	BDL	1		44862-032	08/07/95	288		7.3.3.2/2
Flash Point (degrees F)	>150	50		44862-032	08/04/95	314		1010/2

Field Identification: CLJ44-CU-003

Matrix: SOLID

Parameter	Result	Reporting		Lab No.	Date		QC	Method/Ref.
		Limit			Analyzed	Batch		
Total Gasoline (ug/g)	BDL	13		44862-003	08/04/95	BG1032A		8015(mod)/2
Total Diesel (ug/g)	14	3.5		44862-011	08/05/95			8015(mod),3350/2
Corrosivity (pH, units)	8.3			44862-033	08/04/95	345		2.1.2/2
Releasable Sulfide (mg/Kg)	BDL	50		44862-033	08/04/95	288		7.3.4.2/2
Releasable Cyanide (mg/Kg)	BDL	1		44862-033	08/07/95	288		7.3.3.2/2
Flash Point (degrees F)	>150	50		44862-033	08/07/95	315		1010/2

Field Identification: CLJ44-CU-004

Matrix: SOLID

Parameter	Result	Reporting		Lab No.	Date		QC	Method/Ref.
		Limit			Analyzed	Batch		
Total Gasoline (ug/g)	BDL	13		44862-004	08/04/95	BG1032A		8015(mod)/2
Total Diesel (ug/g)	100	3.6		44862-012	08/05/95			8015(mod),3350/2
Corrosivity (pH, units)	8.2			44862-034	08/04/95	345		2.1.2/2
Releasable Sulfide (mg/Kg)	BDL	50		44862-034	08/04/95	288		7.3.4.2/2
Releasable Cyanide (mg/Kg)	BDL	1		44862-034	08/07/95	288		7.3.3.2/2
Flash Point (degrees F)	>150	50		44862-034	08/07/95	315		1010/2

Solid results expressed on a dry weight basis with the exception of releasables, which are expressed on a weight as received basis.

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0000099

Field Identification: CLJ44-CU-005

Matrix: SOLID

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Total Gasoline (ug/g)	BDL	13	44862-005	08/04/95	BG1032A	8015(mod)/2
Total Diesel (ug/g)	57	3.6	44862-013	08/05/95		8015(mod),3350/2
Corrosivity (pH, units)	8.4		44862-035	08/04/95	345	2.1.2/2
Releasable Sulfide (mg/Kg)	BDL	50	44862-035	08/04/95	288	7.3.4.2/2
Releasable Cyanide (mg/Kg)	BDL	1	44862-035	08/07/95	288	7.3.3.2/2
Flash Point (degrees F)	>150	50	44862-035	08/07/95	315	1010/2

Field Identification: CLJ44-CU-006-RB

Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Total Gasoline (ug/L)	BDL	100	44862-006	08/04/95		8015(mod)/2
Total Diesel (ug/L)	BDL	110	44862-014	08/09/95		8015(mod),3350/2
Corrosivity (pH, units)	6.1		44862-036	08/04/95	345	2.1.2/2
Releasable Sulfide (mg/Kg)	BDL	50	44862-036	08/04/95	288	7.3.4.2/2
Releasable Cyanide (mg/Kg)	BDL	1	44862-036	08/07/95	288	7.3.3.2/2
Flash Point (degrees F)	>150	50	44862-036	08/07/95	315	1010/2

Field Identification: CLJ44-007-FB

Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Total Gasoline (ug/L)	BDL	100	44862-007	08/04/95		8015(mod)/2
Total Diesel (ug/L)	BDL	110	44862-015	08/09/95		8015(mod),3350/2
Oil and Grease by Gravimetry (mg/L)	BDL	5.1	44862-028	08/09/95	BG1369	413.1,503A/1,3
Corrosivity (pH, units)	6.4		44862-030	08/04/95	345	2.1.2/2
Releasable Sulfide (mg/Kg)	BDL	50	44862-030	08/04/95	288	7.3.4.2/2
Releasable Cyanide (mg/Kg)	BDL	1	44862-030	08/07/95	288	7.3.3.2/2
Flash Point (degrees F)	>150	50	44862-030	08/07/95	315	1010/2

Field Identification: CLJ44-008-TB

Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Total Gasoline (ug/L)	BDL	100	44862-008	08/04/95		8015(mod)/2

Solid results expressed on a dry weight basis with the exception of releasables, which are expressed on a weight as received basis.

- References: 1) 40 CFR Part 136, Friday, October 26, 1984
 2) EPA SW 846, 3rd Edition
 3) Standard Methods, 16th Edition

Field Identification: CLJ44-CC-016

Matrix: SOLID

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Total Gasoline (ug/g)	BDL	13	44897-001	08/09/95	BG1032B	8015(mod)/2
Total Diesel (ug/g)	320	3.7	44897-013	08/07/95		8015(mod),3350/2
Oil and Grease by Gravimetry (ug/g)	BDL	280	44897-013	08/10/95	BG1370	9071,503D/2,3

Field Identification: CLJ44-CC-017

Matrix: SOLID

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Total Gasoline (ug/g)	BDL	13	44897-002	08/07/95	BG1032B	8015(mod)/2
Total Diesel (ug/g)	190	3.7	44897-014	08/07/95		8015(mod),3350/2
Oil and Grease by Gravimetry (ug/g)	1200	280	44897-014	08/10/95	BB1370	9071,503D/2,3

Field Identification: CLJ44-CC-018

Matrix: SOLID

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Total Gasoline (ug/g)	480	64	44897-003	08/09/95	BG1032B	8015(mod)/2
Total Diesel (ug/g)	5200	360	44897-015	08/10/95		8015(mod),3350/2
Oil and Grease by Gravimetry (ug/g)	1900	280	44897-015	08/10/95	BG1370	9071,503D/2,3

Field Identification: CLJ44-CC-019

Matrix: SOLID

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Total Gasoline (ug/g)	87	14	44897-004	08/09/95	BG1032B	8015(mod)/2
Total Diesel (ug/g)	1400	37	44897-016	08/08/95		8015(mod),3350/2
Oil and Grease by Gravimetry (ug/g)	850	290	44897-016	08/10/95	BB1370	9071,503D/2,3

Field Identification: CLJ44-CC-020

Matrix: SOLID

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Total Gasoline (ug/g)	BDL	12	44897-005	08/07/95	BG1032B	8015(mod)/2
Total Diesel (ug/g)	870	35	44897-017	08/08/95		8015(mod),3350/2
Oil and Grease by Gravimetry (ug/g)	720	270	44897-017	08/10/95	BG1370	9071,503D/2,3

Results expressed on a dry weight basis.



0000101

Field Identification: CLJ44-CC-021

Matrix: SOLID

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Total Gasoline (ug/g)	BDL	15	44897-006	08/07/95	BG1032B	8015(mod)/2
Total Diesel (ug/g)	1700	41	44897-018	08/08/95		8015(mod),3350/2
Oil and Grease by Gravimetry (ug/g)	1300	300	44897-018	08/10/95	BG1370	9071,503D/2,3

Field Identification: CLJ44-CC-022

Matrix: SOLID

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Total Gasoline (ug/g)	BDL	15	44897-007	08/07/95	BG1032B	8015(mod)/2
Total Diesel (ug/g)	1000	40	44897-019	08/08/95		8015(mod),3350/2
Oil and Grease by Gravimetry (ug/g)	690	300	44897-019	08/10/95	BG1370	9071,503D/2,3

Field Identification: CLJ44-CC-023

Matrix: SOLID

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Total Gasoline (ug/g)	380	49	44897-008	08/09/95	BG1032B	8015(mod)/2
Total Diesel (ug/g)	2100	39	44897-020	08/08/95		8015(mod),3350/2
Oil and Grease by Gravimetry (ug/g)	810	290	44897-020	08/10/95	BG1370	9071,503D/2,3

Field Identification: CLJ44-CC-024

Matrix: SOLID

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Total Gasoline (ug/g)	950	74	44897-009	08/08/95	BG1032B	8015(mod)/2
Total Diesel (ug/g)	5300	390	44897-021	08/09/85		8015(mod),3350/2
Oil and Grease by Gravimetry (ug/g)	2000	290	44897-021	08/10/95	BG1370	9071,503D/2,3

Results expressed on a dry weight basis.

Field Identification: CLJ44-CC-025

Matrix: SOLID

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Total Gasoline (ug/g)	960	77	44897-010	08/08/95	BG1032B	8015(mod)/2
Total Diesel (ug/g)	2100	42	44897-022	08/09/85		8015(mod),3350/2
Oil and Grease by Gravimetry (ug/g)	530	310	44897-022	08/10/95	BG1370	9071,503D/2,3
Corrosivity (pH, units)	7.5		44897-026	08/07/95	346	2.1.2/2
Releasable Sulfide (mg/Kg)	BDL	50	44897-026	08/07/95	289	7.3.4.2/2
Releasable Cyanide (mg/Kg)	BDL	1	44897-026	08/07/95	289	7.3.3.2/2
Flash Point (degrees F)	>150	50	44897-026	08/07/95	315	1010/2

Field Identification: CLJ44-CC-026

Matrix: SOLID

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Total Gasoline (ug/g)	790	78	44897-011	08/08/95	BG1032B	8015(mod)/2
Total Diesel (ug/g)	2300	42	44897-023	08/09/85		8015(mod),3350/2
Oil and Grease by Gravimetry (ug/g)	1600	320	44897-023	08/10/95	BG1370	9071,503D/2,3

Field Identification: CLJ44-CC-027

Matrix: SOLID

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Total Gasoline (ug/g)	330	37	44897-012	08/10/95	BG1032B	8015(mod)/2
Total Diesel (ug/g)	3100	40	44897-024	08/09/85		8015(mod),3350/2
Oil and Grease by Gravimetry (ug/g)	1200	310	44897-024	08/10/95	BG1370	9071,503D/2,3

Results expressed on a dry weight basis with the exception of releasables, which are expressed on a weight as received basis.

- References: 1) 40 CFR Part 136, Friday, October 26, 1984
 2) EPA SW 846, 3rd Edition
 3) Standard Methods, 16th Edition

Field Identification: CLJ44-CU-012

Matrix: SOLID

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Total Gasoline (ug/g)	BDL	12	44898-001	08/11/95	BG1032B	8015(mod)/2
Total Diesel (ug/g)	85	3.5	44898-005	08/09/95		8015(mod),3350/2
Corrosivity (pH, units)	8.0		44898-008	08/08/95	347	2.1.2/2
Releasable Sulfide (mg/Kg)	BDL	50	44898-008	08/08/95	290	7.3.4.2/2
Releasable Cyanide (mg/Kg)	BDL	1	44898-008	08/08/95	290	7.3.3.2/2
Flash Point (degrees F)	>150	50	44898-008	08/08/95	316	1010/2

Field Identification: CLJ44-CU-013

Matrix: SOLID

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Total Gasoline (ug/g)	BDL	13	44898-002	08/11/95	BG1032B	8015(mod)/2
Total Diesel (ug/g)	29	3.6	44898-006	08/09/95		8015(mod),3350/2
Corrosivity (pH, units)	8.1		44898-009	08/08/95	347	2.1.2/2
Releasable Sulfide (mg/Kg)	BDL	50	44898-009	08/08/95	290	7.3.4.2/2
Releasable Cyanide (mg/Kg)	BDL	1	44898-009	08/08/95	290	7.3.3.2/2
Flash Point (degrees F)	>150	50	44898-009	08/08/95	316	1010/2

Field Identification: CLJ44-CU-014-RB

Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Total Gasoline (ug/L)	BDL	100	44898-003	08/10/95		8015(mod)/2
Total Diesel (ug/L)	BDL	100	44898-007	08/10/95		8015(mod),3350/2
Corrosivity (pH, units)	6.1		44898-013	08/08/95	347	2.1.2/2
Releasable Sulfide (mg/Kg)	BDL	50	44898-013	08/08/95	290	7.3.4.2/2
Releasable Cyanide (mg/Kg)	BDL	1	44898-013	08/08/95	290	7.3.3.2/2
Flash Point (degrees F)	>150	50	44898-013	08/08/95	316	1010/2

Field Identification: CLJ44-CU-015-TB

Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Total Gasoline (ug/L)	BDL	100	44898-004	08/10/95		8015(mod)/2

Solid results expressed on a dry weight basis with the exception of releasables, which are expressed on a weight as received basis

References: 2) EPA SW 846, 3rd Edition



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CF 8/16/95

PACE New England
A SOILS PREP

TOTAL GASOLINE

Date/Init	Smpl Ct.	SAMPLE #	Prep Wt. (g)	Pan #	Pan Wt. (g)	Wet Wt. + Pan (g)	Dry Wt. + Pan (g)	% Solid	COMMENTS
CF 7/26/95		BG1031A 7/20/95	open	batch					4ml MeOH Lot# 134280 ^{SWFF}
		BG1031C	4.0						
	510	414751-5	4.1	CG	1.3	9.7	8.7	0.88	↓
CF 8/4/95		BG1032A	4.0						1ml
		L61032	4.0						1ml
	51	44862-1	4.1	CT					1ml
		-1ms	4.0						1ml
		↓ -1msD	4.4						1ml
	52	44862-3	4.0	CB	1.3	8.7	8.3	0.94	
	53	4	4.1	CG	1.3	7.3	6.8	0.92	
	54	↓ 5	4.1	CG	1.3	7.3	6.7	0.90	
↓	55	44837-1	4.4	CG	1.3	6.8	6.1	0.87	
8/7/95		BG1032B	4.0						
	56	44897-1	4.3						
	57	2	4.2						
	58	3	4.4						
	59	4	4.1						
	510	5	4.5						
	511	6	4.0						
	512	7	4.0						
	513	8	4.0						
	514	9	4.1						
	515	10	4.1						
	516	10ms	4.0						1ml
	517	10msD	4.0						1ml
	518	11	4.1						
	519	↓ 12	4.2						
	520	44898-1	4.4						
↓	521	↓ -2	4.3						↓

CF 8/16/95

QUALITY CONTROL DATA
TOTAL GASOLINE

MATRIX SPIKE DUPLICATE RECOVERY

Laboratory Number: 44897-10 MS/MSD
Sample Designation: CLJ44-CC-025 MS/MSD
Date Analyzed 08/08/95
Matrix: SOLID

COMPOUND	ug/g IN SAMPLE	ug/g SPIKE	REPLICATE 1	
			ug/g FOUND	%REC- OVERY
GASOLINE	762	50	730	0

COMPOUND	ug/g SPIKE	REPLICATE 2		RELATIVE
		ug/g FOUND	% REC- OVERY	DIFF. %
GASOLINE	50	726	0	0

METHOD REFERENCE: METHOD 8015 (MODIFIED)

QUALITY CONTROL DATA
TOTAL GASOLINE

BLANK DATA

Laboratory Number: B-G1032B
Sample Designation: LABORATORY BLANK
Date Analyzed: 08/07/95
Matrix: SOLID

COMPOUND	CONCENTRATION ug/g	DETECTION LIMIT ug/g
GASOLINE	BDL	12

MATRIX SPIKE RECOVERY

Laboratory Number: LS-G1032
Sample Designation: LABORATORY CONTROL SAMPLE
Date Analyzed: 08/04/95
Matrix: SOLID

COMPOUND	ug/g IN SAMPLE	ug/g SPIKE	ug/g FOUND	%REC- OVERY
GASOLINE	0	50	52	105

METHOD REFERENCE: METHOD 8015 (MODIFIED)

QUALITY CONTROL DATA
TOTAL GASOLINE

BLANK DATA

Laboratory Number: B-G1032A
Sample Designation: LABORATORY BLANK
Date Analyzed: 08/04/95
Matrix: SOLID

COMPOUND	CONCENTRATION ug/g	DETECTION LIMIT ug/g
GASOLINE	BDL	12

MATRIX SPIKE RECOVERY

Laboratory Number: LS-G1032
Sample Designation: LABORATORY CONTROL SAMPLE
Date Analyzed: 08/04/95
Matrix: SOLID

COMPOUND	ug/g IN SAMPLE	ug/g SPIKE	ug/g FOUND	%REC- OVERY
GASOLINE	0	50	52	105

METHOD REFERENCE: METHOD 8015 (MODIFIED)

cf 8/10/95

Calibration Curve for total gas

Titles

Test: total gas
Date: 06/02/95
X-Axis: concentration
Y-Axis: area

Regression Output:

Constant 724456.9
Std Err of Y Est 305148.5
R Squared 0.977347
No. of Observations 5
Degrees of Freedom 3

	Conc.	Obs.	Calc-Abs.
1	100	1288896	1410739
2	200	1864827	2097020
3	500	4743123	4155865
4	1000	7583574	7587273
5	2000	14248965	14450089

X Coefficient(s) 6882.816
Std Err of Coef. 196.4819

Slope = 6882.816
Y-Intercept = 724456.9

CF8/10/95

Calibration Curve for bromofluorobenzene

Titles

Test: bromofluorobenzene
Date: 06/08/95
X-Axis: concentration
Y-Axis: area

Regression Output:

Constant 15694.93
Std Err of Y Est 11300.24
R Squared 0.999533
No. of Observations 5
Degrees of Freedom 3

	Conc.	Abs.	Calc-Abs.
1	10	71195.62	74025.06
2	20	120301.1	132355.2
3	50	320493.9	307345.5
4	100	605433.7	598996.2
5	200	1177057	1182297

X Coefficient(s) 5833.012
Std Err of Coef. 72.76106
Slope = 5833.012
Y-Intercept = 15694.93

Instrument GC07
 Reviewed by _____ Date _____

TOTAL GAS

Logbook # 1
 Method EPA modified 8015

surr recov	result file	surr µL	tube #	sample #	vol	MI	COMMENTS/DATE/INITIALS/METHOD FILE
	G7CF117359	5µl	.	B6080295TB-A			CF 08/02/95 TBA 670802 TLAS0612
		100	5µl	2	VSTD1000		5µl V61245
		61		3	44831-1	200µl	
		62		4	2	640µl	
		63		5	3	500µl	
		64		6	4	625µl	
		65		7	5	500µl	
		66		8	6	625µl	
		67			BAKE		
		68			BAKE		
		69	5µl	1	B6080495TB-A	5ml	CF 08/04/95
		70	5µl	2	VSTD1000	5ml	5µl V6145
		71		3	B61032A	100µl	
		72		4	44862-1		
		73		5	44862-3		
		74		6	44862-4		
		75		7	44862-5		
		76		8	44837-1		
		77		9	L51032		
		78		10	44862-1ms		
		79		1	44862-1msD	✓	
		80	5µl	2	44862-2	5ml	
		81		3	44862-6		
		82		4	44862-7		
		83	✓	5	44862-8	✓	
		84			BAKE		
	G7CF117385	5µl	1	B6080795TB-A	5ml		CF 8/7/95 TLAS0612
		90	5µl	2	VSTD1000	5ml	5µl V6145
		87		3	44897-1	100µl	
		88		4	44897-2		✓
		89		5	3		re 1ml
		90		6	4		re 1ml
		91		7	5		✓
		92		8	6		✓
		93		9	7		✓
		94		10	8		re 1ml
		95		1	44897-1	LD	sum

CF 8/14/95

PACE, Incorporated New England - New Hampshire Laboratory

Instrument GC07
 Reviewed by _____ Date _____

TOTAL GAS

Logbook # 1
 Method EPA modified 8015

surr recov	result file	surr μ L	tube #	sample #	vol	MI	COMMENTS/DATE/INITIALS/METHOD FILE
	670CF117359	5 μ l	1	B6080295TB-A			CF 08/02/95 TBA 670902 TBA 50612
		100	2	VSTD1000			5 μ l V61245
		61	3	44831-1	200 μ l		
		62	4	2	640 μ l		
		63	5	3	500 μ l		
		64	6	4	625 μ l		
		65	7	5	560 μ l		
		66	8	6	625 μ l		
		67		BAKE			
		68		BAKE			
	69	5 μ l	1	B6080495TB-A	5ml		CF 08/04/95
	70	5 μ l	2	VSTD 1000	5ml		5 μ l V6145
		71	3	B61032A	100 μ l		
		72	4	44862-1			
		73	5	44862-3			
		74	6	44862-4			
		75	7	44862-5			
		76	8	44837-1			
		77	9	L51032			
		78	10	44862-1ms			
		79	1	44862-1msD			
		80	2	44862-2	5ml		
		81	3	44862-6			
		82	4	44862-7			
		83	5	44862-8			
		84		BAKE			
	670CF117385	5 μ l	1	B6080795TB-A	5ml		CF 8/7/95 TBA 50612
		96	2	VSTD 1000	5ml		5 μ l V6145
		87	3	44897-1	100 μ l		
		88	4	44897-2			✓
		89	5	3			re 1ml
		90	6	4			re 1ml
		91	7	5			✓
		92	8	6			✓
		93	9	7			✓
		94	10	8			re 1ml
		95	1	44897-1			sum

CF 8/16/95

Instrument GC07
 Reviewed by _____ Date _____

TOTAL GAS

Logbook # 1
 Method EPA modified 8015

CF 8/16/95

surv recov	result file	surv µL	tube #	sample #	vol	MI	COMMENTS/DATE/INITIALS/METHOD FILE
	070E 1172910		2	44897-9	100µL		re 1ml
	97		3	-10			re 1ml
	98		4	-11			re 1ml
	99		5	-12			re 1ml
	400		6	BAKE			
			7				070303 CF 8/16/95
			8				7/21/95 0612
			9				
			10				
	401		1	BG-08089516A			
	2		2	V5101000			
	3		3	44897-3	1ml		same
	4		4	-4	1ml		↓
	5		5	-8	1ml		↓
	6		6	44897-1	5ml		100µL
	7		7	-9	1ml		same
	8		8	-10	1ml		↓
	9		9	-11	1ml		↓
	10		10	-12	1ml		↓
	11		1	44897-10ms	same		
	12		2	-10ms	same		
	13		3	tube blanks			BDL
	14		4				BDL
	15		5				BDL
	16		6				BDL
	17		7				>100
	18		8				BDL
	19		9				BDL
	20		10				BDL
	21		1				BDL
	22		2				BDL
	23		3				BDL
	24		4				BDL
	25		5				BDL
	26		6				BDL
	27		7				BDL

PACE, Incorporated New England - New Hampshire Laboratory

Instrument GC07
Reviewed by _____ Date _____

TOTAL GAS

Logbook # 1
Method EPA modified 8015

surr recov	result file	surr μL	tube #	sample #	vol	MI	COMMENTS/DATE/INITIALS/METHOD FILE
	670K117429		1	B600699576A	5ml		06/09/95 TJA TRAS 0010
	30		2	VSTD 1000	5ml		copy TJA 50308
	31		3	BG1033A	100ml		
	32		4	44913-1	10ml		Screens
	33		5	2	↓		↓
	34		6	3	↓		↓
	35		7	4	↓		↓
	36		8	LS1033	100ml		
	37		9	44913-1	50ml		
	38		10	2	100ml		
	39		1	3	20ml		
	40		2	4	100ml		
	41		3	BG1033B	100ml		
	42		4	44928-1	10ml		
	43		5	-2	10ml		
	44		6	-3	10ml		
	45		7	-4	10ml		
	46		8	-5	10ml		
	47		9	-6	10ml		
	48		10	44897-3	20ml		
	49		1	-4	100ml		
	50		2	-8	30ml		
	51		3	-1	100ml		
	52		4	TUBE blanks			BDL
	53		5	↓			BDL
	54		6	↓			BDL
	55		7	↓			BDL
	56		8	↓			BDL
	57		9	↓			BDL
	58			BAKE			
cr 01/95							

06/09/95

Instrument GC07
 Reviewed by _____ Date _____

TOTAL GAS

Logbook # 2
 Method EPA modified 8015

C# 8/16/95

surrogate	result file	surrogate μL	tube #	sample #	vol	MI	COMMENTS/DATE/INITIALS/METHOD FILE
	6'UR 117459		1	B608109516A	5ml		at 8/16/95 74 P. 10612 repeated
	65		2	V5101000	5ml		up 10/1/95
	61		3	44928-1	30ml		
	62		4	2	100ml		
	63		5	3	100ml		
	64		6	4	100ml		
	65		7	5	100ml		
	67		8	44897-12	10ml		
	68		9	44898-3	5ml		pH neutral
	69		10	4	5ml		pH = 2
	70		1	44914-1	10ml		
	71		2	5	10ml		
	72		3	9	5ml		pH neutral
	73		4	15	5ml		pH = 2
	74		5	44881-3	5ml		pH = 2
	75		6	4	5ml		pH = 2
	76		7	5	5ml		pH = 2
	77		8	L1008109516A	5ml		
	78		9	7008 blank			NDL
	79		10				NDL
	80		1				NDL
	81		2				NDL
	82		3				NDL
	83		4				NDL
	84		5				"
	85		6				"
	86		7				"
	87		8	blank			

Instrument GC07
 Reviewed by _____ Date _____

TOTAL GAS

Logbook # 2

Method EPA modified 8015

CFE/10/105

surr recov	result file	surr μL	tube #	sample #	vol	MI	COMMENTS/DATE/INITIALS/METHOD FILE
	67CF117488	1		6608119516A	5ml		01/21/15 2:00 PM 10/11/15
	89	2		45101000	5ml		9/11/14
	90	3		061034A	100μL		
	91	4		4499-1	↓		
	92	5		2	↓		
	93	6		3	↓		
	94	7		4	↓		
	95	8		5	↓		
	96	9		6	↓		
		10		7	↓		
		11		8	↓		
		12		9	↓		
	47	3		44898-1	100μL		
	98	4		44898-2	100μL		
	99	5		43939-10	100μL		
	100	6		-11	100μL		
	1	7		44881-3	200μL		
	2	8		4	↓		
	3	9		5	↓		
	4	10		44939-7	100μL		
	5	1		44939-8	100μL		
	6	2		44939-9	100μL		
	7	3		44914-1	100μL		
	8	4		5	100μL		
	9	5		061034	100μL		
	10	6		44951-1	20μL		
	11	7		-2	20μL		
	12	8		-3	20μL		
	13	9		44939-1ms	100μL		
	14	10		-1msD	↓		
	15	1		LS1034	↓		

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QUALITY CONTROL DATA
 PETROLEUM HYDROCARBONS BY GCFID

MATRIX SPIKE RECOVERY

Laboratory Number: 44897-022 MS/MSD
 Sample Designation: CLJ44-CC-025 MS/MSD
 Date Analyzed 04/06/95
 Matrix: SOLID

COMPOUND	ug/g SAMPLE	REPLICATE 1		% RECOVERY	
		ug/g SPIKE	ug/g FOUND		
DIESEL	2100	42.05	2568	1113	
		REPLICATE 2			REL
	ug/g SAMPLE	ug/g SPIKE	ug/g FOUND	% RECOVERY	% DIFF
DIESEL	2100	42.12	2752	1548	33

METHOD REFERENCE: EPA SW 846, 3RD EDITION METHOD 8100 (MODIFIED)
 AND ASTM D 3328-78

QUALITY CONTROL DATA
PETROLEUM HYDROCARBONS BY GCFID

BLANK DATA

Laboratory Number: B-H1355
Sample Designation: LABORATORY BLANK
Date Analyzed: 08/05/95
Matrix: SOLID

HYDROCARBON TYPE	CONCENTRATION ug/g	DETECTION LIMIT ug/g
DIESEL	BDL	3

MATRIX SPIKE RECOVERY

Laboratory Number: LSH1355
Sample Designation: LABORATORY CONTROL SAMPLE
Date Analyzed: 08/05/95
Matrix: SOLID

COMPOUND	ug/g SAMPLE	ug/g SPIKE	ug/g FOUND	%REC- OVERY
DIESEL	0	33.46	32.78	98

METHOD REFERENCE: EPA SW 846, 3RD EDITION METHOD 8100 (MODIFIED)
AND ASTM D 3328-78



QUALITY CONTROL DATA
PETROLEUM HYDROCARBONS BY GCFID

BLANK DATA

Laboratory Number: B-H1357
Sample Designation: LABORATORY BLANK
Date Analyzed: 08/07/95
Matrix: SOLID

HYDROCARBON TYPE	CONCENTRATION ug/g	DETECTION LIMIT ug/g
DIESEL	BDL	3

MATRIX SPIKE RECOVERY

Laboratory Number: LSH1357
Sample Designation: LABORATORY CONTROL SAMPLE
Date Analyzed: 08/07/95
Matrix: SOLID

COMPOUND	ug/g SAMPLE	ug/g SPIKE	ug/g FOUND	%REC- OVERY
DIESEL	0	33.46	34.50	103

METHOD REFERENCE: EPA SW 846, 3RD EDITION METHOD 8100 (MODIFIED)
AND ASTM D 3328-78

QUALITY CONTROL DATA
PETROLEUM HYDROCARBONS BY GCFID

BLANK DATA

Laboratory Number: B-H1358
Sample Designation: LABORATORY BLANK
Date Analyzed: 08/09/95
Matrix: SOLID

HYDROCARBON TYPE	CONCENTRATION ug/g	DETECTION LIMIT ug/g
DIESEL	BDL	3

MATRIX SPIKE RECOVERY

Laboratory Number: LSH1358
Sample Designation: LABORATORY CONTROL SAMPLE
Date Analyzed: 08/09/95
Matrix: SOLID

COMPOUND	ug/g SAMPLE	ug/g SPIKE	ug/g FOUND	%REC- OVERY
DIESEL	0	33.46	25.05	75

METHOD REFERENCE: EPA SW 846, 3RD EDITION METHOD 8100 (MODIFIED)
AND ASTM D 3328-78

QUALITY CONTROL DATA
PETROLEUM HYDROCARBONS BY GCFID

BLANK DATA

Laboratory Number: B-H1356
Sample Designation: LABORATORY BLANK
Date Analyzed: 08/09/95
Matrix: WATER

HYDROCARBON TYPE	CONCENTRATION ug/L	DETECTION LIMIT ug/L
Total Diesel	BDL	100

MATRIX SPIKE RECOVERY

Laboratory Number: LSH1356
Sample Designation: LABORATORY CONTROL SAMPLE
Date Analyzed: 08/09/95
Matrix: WATER

COMPOUND	ug/L IN SAMPLE	ug/L SPIKE	ug/L FOUND	% RECOVERY
DIESEL	0	1003.8	1072.0	107

METHOD REFERENCE: EPA SW 846, 3RD EDITION METHOD 8100 (MODIFIED)
AND ASTM D 3328-78

QUALITY CONTROL DATA
PETROLEUM HYDROCARBONS BY GCFID

BLANK DATA

Laboratory Number: B-H1361
Sample Designation: LABORATORY BLANK
Date Analyzed: 08/10/95
Matrix: WATER

HYDROCARBON TYPE	CONCENTRATION ug/L	DETECTION LIMIT ug/L
Total Diesel	BDL	100

MATRIX SPIKE RECOVERY

Laboratory Number: LSH1361
Sample Designation: LABORATORY CONTROL SAMPLE
Date Analyzed: 08/10/95
Matrix: WATER

COMPOUND	ug/L IN SAMPLE	ug/L SPIKE	ug/L FOUND	% RECOVERY
DIESEL	0	1003.8	1337.3	133

METHOD REFERENCE: EPA SW 846, 3RD EDITION METHOD 8100 (MODIFIED)
AND ASTM D 3328-78

PACE, INC. NEW ENGLAND - NEW HAMPSHIRE LAB
Organic Extractions
AQUEOUS PREP LOG

PROTOCOL: EPA SW846

LOGBOOK NO: 2

SOP: PACE NE-NH SOP 5501

METHOD: CONT/3520 SEPF/3510

MATRIX: AQUEOUS

TEST/LEVEL: PHC /

COUNT	DATE/INIT	CONT #	BLANK/SPIKE/SAMPLE #	INIT VOL (L)	SURR AMT/CONC	LCS MS/MSD	SPIKE # AMT/CONC	INTER VOL (mL)	ALIQVOT VOL (mL)	FINAL VOL (mL)
—	PM		B H 1361	1.0	E1364 0.5 ml		L SH 1361 no cc	10.0	10.0	1.0
—	8-10-95		LJ H 1361	1.0	101 ppm	E1383 200 ml	ms/msd assigned			
15			44898-7	1.0		5019 ppm N/A	0 has point			
16			44932-1	.720						
17			(E10) - 2	.720						
18			- 3	.720						
19			44914-11	1.0						

Quatro
cell
08/10/95

~~PM~~
~~JCH~~
③
8-10-95

COMMENTS: (E10) - May have double surrogated
L 4932-2 - PM 8-10-95

PACE INCORPORATED
Organics Extraction
SOLIDS PREP LOG

PROTOCOL: EPA SW846

SOP #: _____

METHOD: SONC/3550

MATRIX: SOLID

TEST / LEVEL: PHC / _____

COUNT	DATE/INIT	BLANK/SPIKES SAMPLE #	INIT WT (g)	SURR # AMT/CONC.	LCS MS/MSD	SPIKE # AMT/CONC.	NA2SO4 (g)	INTER VOL (ml)	ALIQUOT VOL (ml)	FINAL VOL (ml)
-	AC 8/4/95	BH1355	30.0	✓E1363 500ml	LSM1355	E1319 500g ✓ppm	60.0	10.0	10.0	1.0
-		LSM1355	30.0	✓101 ppm	-					
4		44857- 8 ⁸⁵	30.40	✓	44820-3 MSI/MSDI	200ml N/A				
5		44862-9	30.25	✓		N/A				
6		-11	30.15	✓						
7		-12	30.37	✓						
8		-13	30.44 30.07	✓						

3500
2/4/95

sent
8/14/95
MC

MC
8/14/95

MC
AIP

COMMENTS: Associated Qc = 44820-3 MSI/MSDI

PACE, INC. NEW ENGLAND - NEW HAMPSHIRE LAB
Organic Extractions
AQUEOUS PREP LOG

PROTOCOL: EPA SW846

LOGBOOK NO: 2

SOP: PACE NE-NH SOP 5501

METHOD: CONT/3520 SEPF/3510

MATRIX: AQUEOUS

TEST/LEVEL: PHC /

COUNT	DATE/ INIT	CONT #	BLANK/ SPIKE/ SAMPLE #	INIT VOL (L)	SURR AMT/ CONC	LCS MS/MSD	SPIKE # AMT/CONC	INTER VOL (mL)	ALIQOT VOL (mL)	FINAL VOL (mL)
	8/7/95	N/A	BH 1356	1.0	VE1363 0.5ml		N/A	10.0	10.0	1.0
			✓ LSH1356	1.0	101 ppm	LSH1356	VE1319 200ul 50ppm			
10			44862-10	.900	✓		N/A			
11			-14	.920	✓					
12			-15	.910	✓					

Am
End
8/7/95
↓

(Signature)
8/9/95

(Signature)
MC

COMMENTS: _____

PACE INCORPORATED
Organics Extraction
SOLIDS PREP LDG

PROTOCOL: EPA SW846

SOP #: QA 5547

METHOD: SONC/3550

MATRIX: SOLID

TEST / LEVEL: PHC / 1

COUNT	DATE/INIT	BLANK/SPIKES SAMPLE #	INIT WT (g)	SURR # AMT/CONC.	LCS MS/MSD	SPIKE # AMT/CONC.	HA2SO4 (g)	INTER VOL (ml)	ALiquOT VOL (ml)	FINAL VOL (ml)
-	MC 8/8/95	BY11358	30.0	E1363 0.5ml	N/A	N/A	60.0	10.0	10.0	1.0
-		LSH11358	30.0	101 PPM	LSH1358	E1319 200ml				
5		4498-5	30.08		44877-1	501A PPM N/A				
6	↓	-6	30.04	↓	M55/M507	NA	↓			
7		44913-5	30.69	✓						
8		-6	30.65	✓						
9		-7	30.74	✓						
10	↓	-8	30.23	✓			↓	↓		
11		44914-2	30.08							
12		-3	30.55							
13		-6	30.38							
14	↓	-7	30.09	↓			↓	↓	↓	↓

sent
MC
8/8/95

MC
8/8/95
MC
N/A

COMMENTS: Ass. QC 44877-1 M55/M507

PACE INCORPORATED
Organics Extraction
SOLIDS PREP LOG

PROTOCOL: EPA SW846

SCP #: QA 5547

METHOD: SONC/3550

MATRIX: SOLID

TEST / LEVEL: PHC, LOW

COUNT	DATE/INIT	BLANK/SPIKES SAMPLE #	INIT WT (g)	SURR # AMT/CONC.	LCS MS/MSD	SPIKE # AMT/CONC.	HA2SO4 (g)	INTER VOL (ml)	ALIQOT VOL (ml)	FINAL VOL (ml)
-	NC 9/7/95	BH1357	30.0	E1363 500ml	N/A	E1319 2019	60.0	10.0	10.0	1.0
-		LSH1357	30.0	101ppm	LSH1357	ppm				
9		44897-15	30.78	✓	44820-3 MS/MSD	200ml N/A				
10		-16	30.94	✓						
11		-17	30.62	✓						
12		-18	30.39	✓						
13		-19	30.56	✓						
14		-20	30.15	✓						
15		-21	30.62	✓						
16		-22	30.31	✓						
17		-23	30.23	✓						
18	↓	-24	30.94	✓						
19	↓	-13	30.70	✓						
20	↓	-14	30.07	✓						
1		14877-1	30.89							
-		-1MSDI	30.94			13.4 2021				
-		-1MSDI	30.39			↓				
2		-2	30.15			N/A				
3		44898-1	30.66							
4	↓	-2	30.48							
-	↓	44897-22MSI	30.06							
-	↓	-22MSDI	30.01							
<p>NC 9/7/95</p> <p>MC AK</p>										

COMMENTS: Associated QC. 44820-3 MSI/MSDI

PACE, Incorporated

+-----+
| INITIAL CALIBRATION SUMMARY |
+-----+

for /DATA/GC09/METHOD/DIESEL014.MTH
Method created: 08/09/95 10:13:23
Method updated: 08/09/95 10:39:51

Result files used for Calibration data:
Level 1 /DATA/GC09/RESULT/G9H18839.RES
Level 2 /DATA/GC09/RESULT/G9H18840.RES
Level 3 /DATA/GC09/RESULT/G9H18841.RES
Level 4 /DATA/GC09/RESULT/G9H18842.RES
Level 5 /DATA/GC09/RESULT/G9H18843.RES

#	Time	Analyte	Correlation	B0 Intercept	B1 Slope	B2 Quadratic
1	3.23	SOLVENT PEAK	.00000	0.00	*****	*****
2	20.45	DIESEL FUEL	.99999	-73944.00	7117.42	.18

$$R = B_0 + B_1X + B_2X^2$$

PAGE, Incorporated

+-----+
| INITIAL CALIBRATION SUMMARY |
+-----+

for /DATA/GC12/METHOD/DIESEL006.MTH
Method created: 08/07/95 11:04:44
Method updated: 08/07/95 11:34:29

Result files used for Calibration data:
Level 1 /DATA/GC12/RESULT/G12H01296.RES
Level 2 /DATA/GC12/RESULT/G12H01297.RES
Level 3 /DATA/GC12/RESULT/G12H01298.RES
Level 4 /DATA/GC12/RESULT/G12H01299.RES
Level 5 /DATA/GC12/RESULT/G12H01300.RES

#	Time	Analyte	Correlation	B0 Intercept	B1 Slope	B2 Quadratic
1	3.72	SOLVENT PEAK	.00000	0.00	*****	*****
2	21.89	DIESEL FUEL	.99999	-22114.00	2942.53	.12

$$R = B_0 + B_1X + B_2X^2$$

PACE, Incorporated
Continuing Calibration Report

Tue Aug 22, 1995 2:51:44 pm

/DATA/GC12/RESULT/G12H01312.RES
/DATA/GC12/METHOD/DIESEL006.MTH

Sample: DIESEL 2500 PPM P8722
Injected: Mon Aug 7, 1995 11:02:41 am

RetTime	Analyte	Found	Nominal	%D	Recovery
20.37	DIESEL FUEL	2436.15	2500.000	2.6	97.4

PACE, Incorporated
Continuing Calibration Report

Tue Aug 22, 1995 2:52:05 pm

/DATA/GC12/RESULT/G12H01324.RES
/DATA/GC12/METHOD/DIESEL006.MTH

Sample: DRO 2500PPM P8722
Injected: Tue Aug 8, 1995 3:56:04 am

RetTime	Analyte	Found	Nominal	%D	Recovery
20.33	DIESEL FUEL	2719.56	2500.000	8.8	108.8

FACE, Incorporated
Continuing Calibration Report

Tue Aug 22, 1995 2:52:23 pm

/DATA/GC12/RESULT/G12H01336.RES
/DATA/GC12/METHOD/DIESEL006.MTH

Sample: DRO 2500 PPM P8710
Injected: Tue Aug 8, 1995 8:34:46 pm

RetTime	Analyte	Found	Nominal	%D	Recovery
20.30	DIESEL FUEL	2372.85	2500.000	5.1	94.9

FACE, Incorporated
Continuing Calibration Report

Tue Aug 22, 1995 2:52:40 pm

/DATA/GC12/RESULT/G12H01347.RES
/DATA/GC12/METHOD/DIESEL006.MTH

Sample: DRO 2500PPM P8710
Injected: Wed Aug 9, 1995 8:33:55 am

RetTime	Analyte	Found	Nominal	%D	Recovery
18.67	DIESEL FUEL	2725.51	2500.000	9.0	109.0

PACE, Incorporated
Continuing Calibration Report

Tue Aug 22, 1995 2:52:57 pm

/DATA/GC12/RESULT/G12H01359.RES
/DATA/GC12/METHOD/DIESEL006.MTH

Sample: DRD 2500PPM P8710
Injected: Thu Aug 10, 1995 12:20:09 am

RetTime	Analyte	Found	Nominal	%D	Recovery
18.67	DIESEL FUEL	2647.61	2500.000	5.9	105.9

Reviewed by _____ Date _____

Date	init	result file	Sample	MI	v	Method	column	Sequence
8/3/45	MS	G9118834	p8609 MSP/14/DR 2546/5159ppm	Y	Y	Calib 231	154	G90808
		835	p8578 #6 Fuel Oil 10000ppm					
		836	p8611 MODF 5061 ppm					
		837	p8429 10200 ppm c-range					
		838	p8591 JP4/L18 501/24ppm					
		839	DR0 SUPAN p8585			Diesel 014		
		840	DR0 500ppm p8584					
		841	DR0 2500ppm p8710					
		842	DR0 5000ppm p8582					
		843	DR0 10000ppm p8581					
		844	B1+1358 PHL-LS LTN10					
		845	LS1+7358 PHL-LS					
		846	44898-5 DR0-LS LTN09					
		847	-6 ↓ ↓					
		848	44913-5 LTN10		N	need Delete		
		849	-6 ↓ ↓					
		850	-7 ↓ ↓					
		851	-8 ↓ ↓					
		852	44914-2	Y	Y			
		853	-3					
8/9/45	MS	G9118834	p8722 Gas/Inlet/2PSP	Y	Y*	Calib 231	154	G90809
		855	DR0 2500ppm p8710			Diesel 014		
		856	44913-5 DR0-LS LTN10 1:10					
		857	-6 ↓ ↓					
		858	-7 ↓ ↓					
		859	-8 ↓ ↓					
		860	44914-6 ↓ ↓					
		861	-7 ↓ ↓					
		862	44877-1 PHL-S Shell.					
		863	-1MS ↓					
		864	-1MS6 ↓					

PACE, INCORPORATED
GC Instrument Run Log

0000044

Circle one
CLP/PHC/OPP/HERB/P-

Reviewed by _____ Date _____

Date	init	result file	Sample	MI	v	Method	column	Sequence
8/4/95	HS	6124401289	P8722 Gas/Lube/2FBP 542/544/511	Y	Y	Calib008	131	G120804
		290	P8610 Kerosene 5219 ppm					
		291	P8609 MSP/HYDR 2546/5159 ppm					
		292	P8578 #6 Fuel oil 10000 ppm					
		293	P8611 MODF 5061 ppm					
		294	P8429 10200 ppm C-range					
		295	P8591 JPA/C18 54/24 ppm					
		296	DRO 50 ppm P8585			Diesel006		
		297	DRO 500 ppm P8584					
		298	DRO 2500 ppm P8710					
		299	DRO 5000 ppm P8382					
		300	DRO 10000 ppm P8381					
		301	BH1354 DRO-S					
		302	LS11354 ↓					
		303	44837-2 ↓ PACEWJ					
		304	BH1355 PHC-LS			Calib008		
		305	LS11358 ↓					
		306	44837-3 Shell ↓					
		307	44862-9 LTNo9 Diesel006					
		308	-11 ↓					
		309	-12 ↓					
		310	-13 ↓					
↓	↓	311	Gas/Lube 5042/5104/511 ppm P8722	N		Calib008	↓	↓
		312	Diesel 2500 ppm P8710	Y	Y	Diesel006		
		313	Gas/Lube 5042/5104/511 ppm P8722			Calib008	131	G120807
8/7/95	HS	6124401314	BH1357 PHC-LS			Diesel006		
		315	LS11357 PHC-LS					
		316	44897-13 DRO-LS LTNo9					
		317	-14 ↓					
		318	-15 ↓					
		319	-16 ↓					

PACE, INCORPORATED
GC Instrument Run Log

0000045

Circle on
CLP/PHO/OPP/HERB/P

Reviewed by _____ Date _____

Date	init	result file	Sample	MI	v	Method	column	Sequence
8/1/95	115	Grntol 320	44897-17 DR0-LS LTN09 ^{need} _{DRM}	Y	N	Dieselrob	131	Gr20807
		321	-18					
		322	-19					
		323	-20					
		324	DR0 2500ppm p8722	Y	Y			
		325	Gas/like 5042/5704/57ppm ^{p8722}					
		326	44897-21 DR0-LS LTN09	Y	N	^{need} _{DRM}		
		327	-22					
		328	-23					
		329	-24					
		330	44898-1	Y	Y			
		331	-2					
8/31/95	115	Grntol 332	44897-15 DR0-LS LTN09 1:10	Y	Y	Dieselrob	131	Gr20808
		333	-16					
		334	-17					
		335	-18					
		336	DR0 2500ppm p8710 98					
		337	44897-19 DR0-LS LTN09 1:10					
		338	-20					
		339	-21		N			
		340	-22		Y			
		341	-23					
		342	-24					
		343	44862-9 ^{22MSD} ₍₃₎					
		344	44897-22MSD ⁽⁸⁾					
		345	-22MSD					
		346	B111356 DR0-W LTN09					
		347	DR0 2500ppm p8710 109					
		348	LS11356 DR0-W LTN09					
		349	44862-10 DR0-W LTN09					
		350	-14					

Date	init	result file	Sample	MI	v	Method	column	S
8/9/95	HS	G121101351	44862-15 PRO-W LTN09	Y	Y	Diesel006	131	G
8/9/95	HS	G121101352	44897-21 PRO-LS LTN09 1:100					
		G121101353	BH1360					
		354	LSH1360					
		355	44928-8					
		356	-9					
		357	-10					
		358	-11					
		359	PRO 2500 ppm P8710 100	Y	Y			
		360	44928-13 PRO-LS LTN110					
		361	BH1359 PRO-W					
		362	LSH1359					
		363	44881-1					
		364	-2					
8/10/95	HS	G121101366	44897-15 1:100					
		367	BH1361 PHC-W					
		368	LSH1361			Diesel006	131	G12080
		369	44898-7 PRO-W					
		370	44932-1					
		371	PRO 2500 ppm P8710	Y	Y			
		372	44932-2 PRO-W					
		373	-3					
		374	44914-11					
8/11/95	HS	G121101375	Diesel 2500 ppm P8710	Y	Y	Diesel006	131	G120811
		376	BH1364 PHC-S					
		377	LSH1364					
		378	44951-5 PRO-S 1:10					
		379	-6					
		380	-7					
		381	BH1362 PRO-S					
			LSH1362					

QUALITY CONTROL
Corrosivity
Method: 7.2 SW846 3rd Edition

QC Batch: 345 For: 44862
Matrix: Solid

LABORATORY CONTROL SAMPLES:

	True Value Units	Observed Value Units
LCS1	7.0	7.01

QUALITY CONTROL
Corrosivity
Method: 7.2 SW846 3rd Edition

QC Batch: 346
Matrix: Solid

LABORATORY CONTROL SAMPLES:

	True Value Units	Observed Value Units
	-----	-----
LCS1	7.0	7.02

FIELD SAMPLE:

Precision	Replicate 1	Replicate 2
Lab No.	Units	Units
-----	-----	-----
44897-26	7.51	7.48

QUALITY CONTROL
Corrosivity
Method: 7.2 SW846 3rd Edition

QC Batch: 347 For: 44898
Matrix: SOLID

LABORATORY CONTROL SAMPLES:

	True Value Units	Observed Value Units
LCS1	7.0	7.02

QUALITY CONTROL
Flashpoint
Method: D93-80, ASTM

QC Batch: 314 For: 44862
Matrix: Water

LABORATORY CONTROL SAMPLES:

	True Value Deg F	Observed Value Deg F
	-----	-----
LCS1	81.0	81.00

QUALITY CONTROL
Flashpoint
Method: D93-80, ASTM

QC Batch: 315 For: 44862
Matrix: Solid

LABORATORY CONTROL SAMPLES:

	True Value Deg F	Observed Value Deg F
	-----	-----
LCS1	81.0	82.00

FIELD SAMPLE:

Precision	Replicate 1	Replicate 2
Lab No.	Deg F	Deg F
-----	-----	-----
44897-26	> 150.00	> 150.00

QUALITY CONTROL
Flashpoint
Method: D93-80, ASTM

QC Batch: 316 For: 44898
Matrix: SOIL

LABORATORY CONTROL SAMPLES:

	True Value Deg F -----	Observed Value Deg F -----
LCS1	81.0	81.00

PACE INC. NE-NH LAB
QUALITY CONTROL
Releasable Cyanide
Method: 7.3.3.2 SW846, 3rd Edition

QC Batch: 288 For: 44862
Matrix: SOIL

METHOD BLANK: Result
ug/g

< 1.00

LABORATORY CONTROL SAMPLES:	True Value ug/g	Observed Value ug/g	Accuracy Recovery %
LCS1	40.0	6.7	16.8

QUALITY CONTROL QUALIFIER STATEMENT

The sample results used to generate quality control information for solid samples are uncorrected for dry weight. This does not affect the results reported for percent of spike recovery and relative percent difference.



PACE INC. NE-NH LAB
 QUALITY CONTROL
 Releasable Cyanide
 Method: 7.3.3.2 SW846, 3rd Edition

QC Batch: 289
 Matrix: SOIL

METHOD BLANK: Result
ug/g

< 1.00

	LABORATORY CONTROL SAMPLES:			Accuracy
	True	Observed	Recovery	%
	Value	Value		
ug/g	ug/g			
LCS1	40.0	3.850	9.6	

FIELD SAMPLE:

Precision	Replicate 1	Replicate 2	Average	Relative Percent
				Difference
Lab No.	ug/g	ug/g	ug/g	%
44897-26	< 1.00	< 1.00	NC	NC

QUALITY CONTROL QUALIFIER STATEMENT

The sample results used to generate quality control information for solid samples are uncorrected for dry weight. This does not affect the results reported for percent of spike recovery and relative percent difference.

NC = Not calculable due to result below detection limit.



PACE INC. NE-NH LAB
 QUALITY CONTROL
 Releasable Cyanide
 Method: 7.3.3.2 SW846, 3rd Edition

QC Batch: 290 For: 44898
 Matrix: SOLID

METHOD BLANK: Result
 ug/g

 < 1.00

LABORATORY CONTROL SAMPLES:		Accuracy	
	True Value ug/g	Observed Value ug/g	Recovery %
	-----	-----	-----
LCS1	40.0	6.200	15.5

FIELD SAMPLE:

Precision	Replicate 1	Replicate 2	Average	Relative Percent Difference
Lab No.	ug/g	ug/g	ug/g	%
-----	-----	-----	-----	-----
44829-1	< 1.00	< 1.00	NC	NC

QUALITY CONTROL QUALIFIER STATEMENT

The sample results used to generate quality control information for solid samples are uncorrected for dry weight. This does not affect the results reported for percent of spike recovery and relative percent difference.

NC = Not calculable due to result below detection limit.



PACE INC. NE-NH LAB
 QUALITY CONTROL
 Releasable Sulfide
 Method: 7.3.4.2 EPA SW846, 3rd Edition

QC Batch: 288 For: 44862
 Matrix: SOLID

METHOD BLANK:

Result
ug/g
< 50.00

LABORATORY CONTROL SAMPLES:			Accuracy
	True Value ug/g	Observed Value ug/g	Recovery %
LCS1	1473.6	1515.5	102.8

QUALITY CONTROL QUALIFIER STATEMENT

The sample results used to generate quality control information for solid samples are uncorrected for dry weight. This does not affect the results reported for percent of spike recovery and relative percent difference.



PACE INC. NE-NH LAB
 QUALITY CONTROL
 Releasable Sulfide
 Method: 7.3.4.2 EPA SW846, 3rd Edition

QC Batch: 289
 Matrix: SOLID

METHOD BLANK:	Result
	ug/g

	< 50.00

LABORATORY CONTROL SAMPLES:	True Value	Observed Value	Accuracy
	ug/g	ug/g	Recovery %
	-----	-----	-----
LCS1	1453.4	1537.4	105.8

FIELD SAMPLE:

Precision	Replicate 1	Replicate 2	Average	Relative Percent Difference
Lab No.	ug/g	ug/g	ug/g	%
	-----	-----	-----	-----
44897-26	< 50.00	< 50.00	NC	NC

QUALITY CONTROL QUALIFIER STATEMENT

The sample results used to generate quality control information for solid samples are uncorrected for dry weight. This does not affect the results reported for percent of spike recovery and relative percent difference.

NC = Not calculable due to result below detection limit.



PACE INC. NE-NH LAB
 QUALITY CONTROL
 Releasable Sulfide
 Method: 7.3.4.2 EPA SW846, 3rd Edition

QC Batch: 290 For: 44898
 Matrix: SOLID

METHOD BLANK: Result
 ug/g

 < 50.00

LABORATORY CONTROL SAMPLES:	Accuracy		
	True Value ug/g	Observed Value ug/g	Recovery %
LCS1	1403.0	1480.3	105.5

FIELD SAMPLE:

Precision Lab No.	Replicate 1	Replicate 2	Average	Relative Percent Difference
	ug/g	ug/g	ug/g	%
44829-1	< 50.00	< 50.00	NC	NC

QUALITY CONTROL QUALIFIER STATEMENT

The sample results used to generate quality control information for solid samples are uncorrected for dry weight. This does not affect the results reported for percent of spike recovery and relative percent difference.

NC = Not calculable due to result below detection limit.



QUALITY CONTROL
OIL & GREASE

BLANK DATA

Laboratory Number: B-G1370
Sample Designation: LABORATORY BLANK
Date Analyzed: 08/10/95
Matrix: SOLID

PARAMETER	CONCENTRATION ug/g	DETECTION LIMIT ug/g
OIL & GREASE	BDL	250

MATRIX SPIKE RECOVERY

Laboratory Number: LS-G1370
Sample Designation: LABORATORY CONTROL SAMPLE
Date Analyzed: 08/10/95
Matrix: SOLID

PARAMETER	ug/g IN SAMPLE	ug/g SPIKE	ug/g FOUND	%REC- OVERY
OIL & GREASE	0	1300	1000	77

METHOD REFERENCE: EPA SW846, 3RD EDITION
METHOD 9071
STANDARD METHODS, 16TH EDITION, METHOD 503D

QUALITY CONTROL
OIL & GREASE

BLANK DATA

Laboratory Number: B-G1368
Sample Designation: LABORATORY BLANK
Date Analyzed: 08/09/95
Matrix: SOLID

PARAMETER	CONCENTRATION ug/g	DETECTION LIMIT ug/g
OIL & GREASE	BDL	250

MATRIX SPIKE RECOVERY

Laboratory Number: LS-G1368
Sample Designation: LABORATORY CONTROL SAMPLE
Date Analyzed: 08/09/95
Matrix: SOLID

PARAMETER	ug/g IN SAMPLE	ug/g SPIKE	ug/g FOUND	%REC- OVERY
OIL & GREASE	0	1275	1100	86

METHOD REFERENCE: EPA SW846, 3RD EDITION
METHOD 9071
STANDARD METHODS, 16TH EDITION, METHOD 503D

QUALITY CONTROL
OIL & GREASE

BLANK DATA

Laboratory Number: B-G1369
Sample Designation: LABORATORY BLANK
Date Analyzed: 08/09/95
Matrix: WATER

PARAMETER	CONCENTRATION mg/L	DETECTION LIMIT mg/L
OIL & GREASE	BDL	5

MATRIX SPIKE RECOVERY

Laboratory Number: LS-G1369
Sample Designation: LABORATORY CONTROL SAMPLE
Date Analyzed: 08/09/95
Matrix: WATER

PARAMETER	mg/L IN SAMPLE	mg/L SPIKE	mg/L FOUND	%REC- OVERY
OIL & GREASE	0.0	25.5	23	92

METHOD REFERENCE: 40 CFR PART 136, FRIDAY, OCTOBER 26, 1984,
METHOD 413.1
STANDARD METHODS, 16TH EDITION, METHOD 503A

INCORPORATED
Oil and Grease - Grav. Extractions

OIL & GREASE - EXTRACTIIONS

LOG BOOK NO: 1

BATCH: 1770
SOP #: QA5506
MATRIX: SOLID

METHOD: 413.1

REVIEWED BY: _____

Date/Init	Blank Count	PACE Sample# LCS, MS/MSD	Sample Wt. (g)	% Solid	Calc. Dry Wt.	Flask Used	Tare Wt. (g)	Gross Wt. (g)	Residue (mg)	Reported Value (ug/g)	Blank Pass?	Date Analyzed	Date Reported	COMMENTS
8/1/95	BG-1370	BG-1370	20.00	1.0	20.00	D5	8.1273	8.1295	2.2	110	Yes	8/10/95	8/10/95	MDL - 250 ug/g
9/1/95		LSC-1370	20.00	1.0	20.00	J2	2.1899	2.2117	21.8	1000		9/1/95	9/1/95	Reported = Residue (1000) ug Value Calc. Dry wt. g
		144897-13	20.10	.8866	17.82	F7	7.3887	7.3935	4.8	270				
		2	14	20.11	.8888	17.87	E1	9.6938	9.7160	22.2	1200			
		3	15	20.13	.8905	17.93	F2	4.5771	4.5705	33.4	1900 1700			Spike number 06317 Amount (ml) 5.0 Conc. - 5.2 mg/l
		4	16	20.02	.8652	17.40	K4	9.4799	9.4547	14.8	850			Blank correct 0.0 mg/L Lot # BG-1370
		5	17	20.27	.9707	18.87	K5	3.3578	3.3704	13.6	720			
		6	18	20.43	.8090	16.53	K2	2.5126	2.5345	21.9	1300			
		7	19	20.31	.8091	16.43	K1	1.7852	1.7965	11.3	690			
		8	20	20.03	.8481	16.99	K3	6.0625	6.0763	13.8	810			
		9	21	20.50	.8287	16.99	L4	5.3854	5.4202	34.8	2000 1700			
		10	22	20.38	.7936	16.17	L5	2.8811	2.8896	8.5	530			
		22MS	20.19	.7936	16.02	I3	4.5930	4.6289	35.9	2200				
		22MSD	20.64	.7936	16.38	L2	8.5798	8.6166	36.8	2200				RECOVERIES:
		11	23	20.30	.7801	15.84	I2	4.6931	4.7180	24.9	1600			Sample #
		12	24	20.19	.8014	16.18	00	6.8634	6.8831	19.7	1200			Conc. Added (ug/g)
		13	44913-5	20.43	.8498	17.36	H1	7.3023	7.3148	12.5	720			Conc. Found (ug/g)
		14	6	20.35	.8578	17.45	H2	4.0299	4.0437	13.8	790			Sample Conc. (ug/g)
		15	7	20.60	.8332	17.21	G5	9.6512	9.6735	22.3	1300			% Rec
		16	8	20.81	.8472	17.63	G1	2.5357	2.5476	11.9	670			RPD
														LSC-1370
														1300
														1000
														—
														77%
														44897
														22MS
														1622
														2200
														530
														103%
														22MS
														1587
														2200
														530
														105%

0000154

PACE INCORPORATED
Oil and Grease - Grav. Extractions

OIL & GREASE - EXTRACTIONS

BATCH: 1268
SOP #: QA5506
MATRIX: SOLID

LOG BOOK NO: 1

METHOD: 413.1

REVIEWED BY: _____

Date/Init	Blank Count	PACE Sample# LCS, MS/MSD	Sample Wt. (g)	% Solid	Calc. Dry Wt.	Flask Used	Tare Wt. (g)	Gross Wt. (g)	Residue (mg)	Reported Value (ug/g)	Blank Pass?	Date Analyzed	Date Reported	COMMENTS
8/13/95	RG1368	RG1368	20.00	1.0	20.00	J3	1.4267	1.4296	2.9	(B.D.L.) 145	YES	8/19/95	8/19/95	MDL - 250 ug/g
8/13/95	CSA	LSC1368	20.00	1.0	20.00	J4	4.4520	4.4746	22.6	1100		8/19/95	8/19/95	Reported = Residue (1000) ug Value Calc. Dry wt. g
		144862-26	20.02g	0.902	17.89	F3	0.5558	0.5767	18.8	1100				
		26052	20.10	0.902	17.82	E5	3.1107	3.1509	40.2	2200 2200				
		26052	20.02	0.8902	17.82	B4	1.3936	1.4214	37.8	2100				Spike number 06307 Amount (ml) 5.0 Conc. - 5.1 ug/ml
Blank correct 0.0 ug/l Lot# B151														
RECOVERIES:														
Sample #	Conc. Added (ug/g)	Conc. Found (ug/g)	Sample Conc. (ug/g)	% Rec	RPD									
LSC1368	1275	1100	—	86%										
44862	4435	8100	2300	84	78%									
26052	1430	2200	1100	77	75									
26052	1430	2100	1100	70										

8/13/95
CSA
CSA

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PACE INCORPORATED
Oil and Grease - Grav. Extractions

OIL & GREASE - EXTRACTIONS

BATCH: 1369
SOP #: QA5504
MATRIX: WATER

LOG BOOK NO: 1

METHOD: 413.1

REVIEWED BY: _____

Date/Init	Blank Count	PACE Sample # LCS, MS/MSD	Sample Vol. (L)	Flask Used	Tare Wt. (g)	Gross Wt. (g)	Residue (mg)	Reported Value (mg/L)	Blank Pass?	Date Analyzed	Date Reported	COMMENTS
8/7/95	RG-1369	RG-1369	1.0	A1	7.4975	7.4987	1.2	(BDC) 1.2	Yes	8/9/95	8/9/95	MDL - 5.0 ng/L
JA		LSC-1369	1.0	A5	6.7331	6.7563	23.2	23 (BDC)		JA	JA	Reported = Residue mg Value Sample vol. L
	13	44862-28	.990	B3	3.5091	3.5107	1.6	1.6 (BDC)				Spike number Amount (ml) 06307 5.0 Conc. - 5.1 ng/L
	14	44880-3	.950	C1	2.7691	2.7726	3.5	3.7 (BDC)				
	15	44885-5	.900	C3 E5	5.9729	5.9749	2.0	2.0 (BDC)				
	16	6	.860	C5	7.2560	7.2585	2.5	2.9 (BDC)				
	17	7	.860	C2	3.6023	3.6056	2.3	2.7 (BDC)				
	18	8	.960	C4	4.4599	4.4627	2.8	3.0 (BDC)				Blank correct - 0.0 ng/L Lot # B5159
	19	44886-1	.935	D3	3.8896	3.9100	21.4	23 26				
RECOVERIES:												
		Sample #	Conc. Added (mg/L)	Conc. Found (mg/L)	Sample Conc. (mg/L)	% Rec	RPD					
		LSC-1369	25.5	23	-	92%						

FA (E3)
JA (E3)
E3
JA

(E3)
JA

(E3)
JA

0000156

0000156

TOXICITY CHARACTERISTIC LEACHING PROCEDURE (1)
EXTRACTION FOR NON-VOLATILE CONSTITUENTS

Laboratory Number : 44862-018
Field Identification : CLJ44-CC-001
Extraction Date : 08/03/95
TCLP Blank : 90,001-273

Sample description : NON-HOMOGENEOUS GRANULAR SOIL

Extraction Fluid Selection (1,2):

A 5.0 gm portion of the sample was stirred with 96.5 mL deionized water. The pH at the end of 5 minutes was 7.47. 3.5 mL 1.0N HCl was added and the mixture was then heated to 50C for ten minutes. Upon cooling the pH was 1.74, therefore Extraction Fluid #1 was used.

Sample Preparation (1):

Since the sample contained no free liquid, it was not filtered before extraction. 100 gm of sample was added to the extractor with 2000 mL Extraction Fluid #1.

Extraction Time : 18.00 hrs

Final pH : 5.40

% Solids as defined in method : 100

References:

1. 40 CFR Part 261, Appendix II, Nov. 24, 1992
2. Extraction Fluid: 0.57% by volume glacial acetic acid to which 0.1N NaOH has been added to yield a pH of 4.93 +/- 0.05.

Laboratory number: 44862-018
Sample Designation: CLJ44-CC-001
Date Extracted: 08/04/95
Date Analyzed: 08/08/95
Matrix: TCLP EXTRACT

Instrument File Name: >F2299

Parameter	Result (mg/L)	Regulatory Limit (mg/L)	Reporting Limit (mg/L)
-----	-----	-----	-----
Pyridine	BDL	5.0	0.05
1,4-Dichlorobenzene	BDL	7.5	0.05
2,4-Dinitrotoluene	BDL	0.13	0.05
2-Methylphenol	BDL	200	0.05
3,4-Methylphenols	BDL	200	0.05
Hexachloroethane	BDL	3.0	0.05
Nitrobenzene	BDL	2.0	0.05
Hexachlorobenzene	BDL	0.13	0.05
Pentachlorophenol	BDL	100	0.05
Hexachlorobutadiene	BDL	0.5	0.05
2,4,6-Trichlorophenol	BDL	2.0	0.05
2,4,5-Trichlorophenol	BDL	400	0.05

METHOD REFERENCE: EPA SW846, 3rd Edition
METHOD 8270

BDL = Below reporting limit

Laboratory number: 44862-019
Sample Designation: CLJ44-CC-002-RB
Date Extracted: 08/04/95
Date Analyzed: 08/08/95
Matrix: WATER

Instrument File Name: >F2300

Parameter	Result (mg/L)	Regulatory Limit (mg/L)	Reporting Limit (mg/L)
Pyridine	BDL	5.0	0.05
1,4-Dichlorobenzene	BDL	7.5	0.05
2,4-Dinitrotoluene	BDL	0.13	0.05
2-Methylphenol	BDL	200	0.05
3,4-Methylphenols	BDL	200	0.05
Hexachloroethane	BDL	3.0	0.05
Nitrobenzene	BDL	2.0	0.05
Hexachlorobenzene	BDL	0.13	0.05
Pentachlorophenol	BDL	100	0.05
Hexachlorobutadiene	BDL	0.5	0.05
2,4,6-Trichlorophenol	BDL	2.0	0.05
2,4,5-Trichlorophenol	BDL	400	0.05

METHOD REFERENCE: EPA SW846, 3rd Edition
METHOD 8270

BDL = Below reporting limit

TOXICITY CHARACTERISTIC LEACHING PROCEDURE (1)
EXTRACTION FOR NON-VOLATILE CONSTITUENTS

Laboratory Number : 44862-020
Field Identification : CLJ44-CU-003
Extraction Date : 08/03/95
TCLP Blank : 90,001-273

Sample description : NON-HOMOGENEOUS GRANULAR SOIL

Extraction Fluid Selection (1,2):

A 5.0 gm portion of the sample was stirred with 96.5 mL deionized water. The pH at the end of 5 minutes was 7.70. 3.5 mL 1.0N HCl was added and the mixture was then heated to 50C for ten minutes. Upon cooling the pH was 1.71, therefore Extraction Fluid #1 was used.

Sample Preparation (1):

Since the sample contained no free liquid, it was not filtered before extraction. 100 gm of sample was added to the extractor with 2000 mL Extraction Fluid #1.

Extraction Time : 18.00 hrs

Final pH : 4.57

% Solids as defined in method : 100

References:

1. 40 CFR Part 261, Appendix II, Nov. 24, 1992
2. Extraction Fluid: 0.57% by volume glacial acetic acid to which 0.1N NaOH has been added to yield a pH of 4.93 +/- 0.05.

Laboratory number: 44862-020
Sample Designation: CLJ44-CU-003
Date Extracted: 08/04/95
Date Analyzed: 08/08/95
Matrix: TCLP EXTRACT

Instrument File Name: >F2301

Parameter	Result (mg/L)	Regulatory Limit (mg/L)	Reporting Limit (mg/L)
Pyridine	BDL	5.0	0.05
1,4-Dichlorobenzene	BDL	7.5	0.05
2,4-Dinitrotoluene	BDL	0.13	0.05
2-Methylphenol	BDL	200	0.05
3,4-Methylphenols	BDL	200	0.05
Hexachloroethane	BDL	3.0	0.05
Nitrobenzene	BDL	2.0	0.05
Hexachlorobenzene	BDL	0.13	0.05
Pentachlorophenol	BDL	100	0.05
Hexachlorobutadiene	BDL	0.5	0.05
2,4,6-Trichlorophenol	BDL	2.0	0.05
2,4,5-Trichlorophenol	BDL	400	0.05

METHOD REFERENCE: EPA SW846, 3rd Edition
METHOD 8270

BDL = Below reporting limit

TOXICITY CHARACTERISTIC LEACHING PROCEDURE (1)
EXTRACTION FOR NON-VOLATILE CONSTITUENTS

Laboratory Number : 44862-021
Field Identification : CLJ44-CU-004
Extraction Date : 08/03/95
TCLP Blank : 90,001-273

Sample description : NON-HOMOGENEOUS GRANULAR SOIL

Extraction Fluid Selection (1,2):

A 5.0 gm portion of the sample was stirred with 96.5 mL deionized water. The pH at the end of 5 minutes was 7.70. 3.5 mL 1.0N HCl was added and the mixture was then heated to 50C for ten minutes. Upon cooling the pH was 1.79, therefore Extraction Fluid #1 was used.

Sample Preparation (1):

Since the sample contained no free liquid, it was not filtered before extraction. 100 gm of sample was added to the extractor with 2000 mL Extraction Fluid #1.

Extraction Time : 18.00 hrs

Final pH : 5.45

% Solids as defined in method : 100

References:

1. 40 CFR Part 261, Appendix II, Nov. 24, 1992
2. Extraction Fluid: 0.57% by volume glacial acetic acid to which 0.1N NaOH has been added to yield a pH of 4.93 +/- 0.05.

Laboratory number: 44862-021
Sample Designation: CLJ44-CU-004
Date Extracted: 08/04/95
Date Analyzed: 08/08/95
Matrix: TCLP EXTRACT

Instrument File Name: >F2302

Parameter	Result (mg/L)	Regulatory Limit (mg/L)	Reporting Limit (mg/L)
Pyridine	BDL	5.0	0.05
1,4-Dichlorobenzene	BDL	7.5	0.05
2,4-Dinitrotoluene	BDL	0.13	0.05
2-Methylphenol	BDL	200	0.05
3,4-Methylphenols	BDL	200	0.05
Hexachloroethane	BDL	3.0	0.05
Nitrobenzene	BDL	2.0	0.05
Hexachlorobenzene	BDL	0.13	0.05
Pentachlorophenol	BDL	100	0.05
Hexachlorobutadiene	BDL	0.5	0.05
2,4,6-Trichlorophenol	BDL	2.0	0.05
2,4,5-Trichlorophenol	BDL	400	0.05

METHOD REFERENCE: EPA SW846, 3rd Edition
METHOD 8270

BDL = Below reporting limit

TOXICITY CHARACTERISTIC LEACHING PROCEDURE (1)
EXTRACTION FOR NON-VOLATILE CONSTITUENTS

Laboratory Number : 44862-022
Field Identification : CLJ44-CU-005
Extraction Date : 08/03/95
TCLP Blank : 90,001-273

Sample description : NON-HOMOGENEOUS GRANULAR SOIL

Extraction Fluid Selection (1,2):

A 5.0 gm portion of the sample was stirred with 96.5 mL deionized water. The pH at the end of 5 minutes was 7.72. 3.5 mL 1.0N HCl was added and the mixture was then heated to 50C for ten minutes. Upon cooling the pH was 1.88, therefore Extraction Fluid #1 was used.

Sample Preparation (1):

Since the sample contained no free liquid, it was not filtered before extraction. 100 gm of sample was added to the extractor with 2000 mL Extraction Fluid #1.

Extraction Time : 18.00 hrs

Final pH : 5.26

% Solids as defined in method : 100

References:

1. 40 CFR Part 261, Appendix II, Nov. 24, 1992
2. Extraction Fluid: 0.57% by volume glacial acetic acid to which 0.1N NaOH has been added to yield a pH of 4.93 +/- 0.05.

Laboratory number: 44862-022
Sample Designation: CLJ44-CU-005
Date Extracted: 08/04/95
Date Analyzed: 08/08/95
Matrix: TCLP EXTRACT

Instrument File Name: >F2303

Parameter	Result (mg/L)	Regulatory Limit (mg/L)	Reporting Limit (mg/L)
Pyridine	BDL	5.0	0.05
1,4-Dichlorobenzene	BDL	7.5	0.05
2,4-Dinitrotoluene	BDL	0.13	0.05
2-Methylphenol	BDL	200	0.05
3,4-Methylphenols	BDL	200	0.05
Hexachloroethane	BDL	3.0	0.05
Nitrobenzene	BDL	2.0	0.05
Hexachlorobenzene	BDL	0.13	0.05
Pentachlorophenol	BDL	100	0.05
Hexachlorobutadiene	BDL	0.5	0.05
2,4,6-Trichlorophenol	BDL	2.0	0.05
2,4,5-Trichlorophenol	BDL	400	0.05

METHOD REFERENCE: EPA SW846, 3rd Edition
METHOD 8270

BDL = Below reporting limit

Laboratory number: 44862-024
Sample Designation: CLJ44-CU-006-RB
Date Extracted: 08/04/95
Date Analyzed: 08/08/95
Matrix: WATER

Instrument File Name: >F2304

Parameter	Result (mg/L)	Regulatory Limit (mg/L)	Reporting Limit (mg/L)
Pyridine	BDL	5.0	0.05
1,4-Dichlorobenzene	BDL	7.5	0.05
2,4-Dinitrotoluene	BDL	0.13	0.05
2-Methylphenol	BDL	200	0.05
3,4-Methylphenols	BDL	200	0.05
Hexachloroethane	BDL	3.0	0.05
Nitrobenzene	BDL	2.0	0.05
Hexachlorobenzene	BDL	0.13	0.05
Pentachlorophenol	BDL	100	0.05
Hexachlorobutadiene	BDL	0.5	0.05
2,4,6-Trichlorophenol	BDL	2.0	0.05
2,4,5-Trichlorophenol	BDL	400	0.05

METHOD REFERENCE: EPA SW846, 3rd Edition
METHOD 8270

BDL = Below reporting limit

TOXICITY CHARACTERISTIC LEACHING PROCEDURE (1)
EXTRACTION FOR NON-VOLATILE CONSTITUENTS

Laboratory Number : 44897-025
Field Identification : CLJ44-CC-025
Extraction Date : 08/08/95
TCLP Blank : 90,001-273

Sample description : NON-HOMOGENEOUS GRANULAR SOIL

Extraction Fluid Selection (1,2):

A 5.0 gm portion of the sample was stirred with 96.5 mL deionized water. The pH at the end of 5 minutes was 8.18. 3.5 mL 1.0N HCl was added and the mixture was then heated to 50C for ten minutes. Upon cooling the pH was 1.64, therefore Extraction Fluid #1 was used.

Sample Preparation (1):

Since the sample contained no free liquid, it was not filtered before extraction. 100 gm of sample was added to the extractor with 2000 mL Extraction Fluid #1.

Extraction Time : 17.00 hrs

Final pH : 4.98

% Solids as defined in method : 100

References:

1. 40 CFR Part 261, Appendix II, Nov. 24, 1992
2. Extraction Fluid: 0.57% by volume glacial acetic acid to which 0.1N NaOH has been added to yield a pH of 4.93 +/- 0.05.

Laboratory number: 44862-025
Sample Designation: CLJ44-007-FB
Date Extracted: 08/04/95
Date Analyzed: 08/08/95
Matrix: TCLP EXTRACT

Instrument File Name: >F2305

Parameter	Result (mg/L)	Regulatory Limit (mg/L)	Reporting Limit (mg/L)
-----	-----	-----	-----
Pyridine	BDL	5.0	0.05
1,4-Dichlorobenzene	BDL	7.5	0.05
2,4-Dinitrotoluene	BDL	0.13	0.05
2-Methylphenol	BDL	200	0.05
3,4-Methylphenols	BDL	200	0.05
Hexachloroethane	BDL	3.0	0.05
Nitrobenzene	BDL	2.0	0.05
Hexachlorobenzene	BDL	0.13	0.05
Pentachlorophenol	BDL	100	0.05
Hexachlorobutadiene	BDL	0.5	0.05
2,4,6-Trichlorophenol	BDL	2.0	0.05
2,4,5-Trichlorophenol	BDL	400	0.05

METHOD REFERENCE: EPA SW846, 3rd Edition
METHOD 8270

BDL = Below reporting limit

TOXICITY CHARACTERISTIC LEACHING PROCEDURE (1)
EXTRACTION FOR NON-VOLATILE CONSTITUENTS

Laboratory Number : 44897-025
Field Identification : CLJ44-CC-025
Extraction Date : 08/08/95
TCLP Blank : 90,001-273

Sample description : NON-HOMOGENEOUS GRANULAR SOIL

Extraction Fluid Selection (1,2):

A 5.0 gm portion of the sample was stirred with 96.5 mL deionized water. The pH at the end of 5 minutes was 8.18. 3.5 mL 1.0N HCl was added and the mixture was then heated to 50C for ten minutes. Upon cooling the pH was 1.69, therefore Extraction Fluid #1 was used.

Sample Preparation (1):

Since the sample contained no free liquid, it was not filtered before extraction. 100 gm of sample was added to the extractor with 2000 mL Extraction Fluid #1.

Extraction Time : 17:00 hrs

Final pH : 4.98

% Solids as defined in method : 100

References:

1. 40 CFR Part 261, Appendix II, Nov. 24, 1992
2. Extraction Fluid: 0.57% by volume glacial acetic acid to which 0.1N NaOH has been added to yield a pH of 4.93 +/- 0.05.

Laboratory number: 44897-025
Sample Designation: CLJ44-CC-025
Date Extracted: 08/09/95
Date Analyzed: 08/11/95
Matrix: TCLP EXTRACT

Instrument File Name: >H8776

Parameter	Result (mg/L)	Regulatory Limit (mg/L)	Reporting Limit (mg/L)
-----	-----	-----	-----
Pyridine	BDL	5.0	0.05
1,4-Dichlorobenzene	BDL	7.5	0.05
2,4-Dinitrotoluene	BDL	0.13	0.05
2-Methylphenol	BDL	200	0.05
3,4-Methylphenols	BDL	200	0.05
Hexachloroethane	BDL	3.0	0.05
Nitrobenzene	BDL	2.0	0.05
Hexachlorobenzene	BDL	0.13	0.05
Pentachlorophenol	BDL	100	0.05
Hexachlorobutadiene	BDL	0.5	0.05
2,4,6-Trichlorophenol	BDL	2.0	0.05
2,4,5-Trichlorophenol	BDL	400	0.05

METHOD REFERENCE: EPA SW846, 3rd Edition
METHOD 8270

BDL = Below reporting limit

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THE ASSURANCE OF QUALITY

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TOXICITY CHARACTERISTIC LEACHING PROCEDURE (1)
EXTRACTION FOR NON-VOLATILE CONSTITUENTS

Laboratory Number : 44898-008
Field Identification : CLJ44-CU-012
Extraction Date : 08/08/95
TCLP Blank : 90,001-273

Sample description : NON-HOMOGENEOUS GRANULAR SOIL

Extraction Fluid Selection (1,2):

A 5.0 gm portion of the sample was stirred with 96.5 mL deionized water. The pH at the end of 5 minutes was 8.12. 3.5 mL 1.0N HCl was added and the mixture was then heated to 50C for ten minutes. Upon cooling the pH was 1.70, therefore Extraction Fluid #1 was used.

Sample Preparation (1):

Since the sample contained no free liquid, it was not filtered before extraction. 100 gm of sample was added to the extractor with 2000 mL Extraction Fluid #1.

Extraction Time : 17.00 hrs

Final pH : 5.12

% Solids as defined in method : 100

References:

1. 40 CFR Part 261, Appendix II, Nov. 24, 1992
2. Extraction Fluid: 0.57% by volume glacial acetic acid to which 0.1N NaOH has been added to yield a pH of 4.93 +/- 0.05.

Laboratory number: 44898-008
Sample Designation: CLJ44-CU-012
Date Extracted: 08/09/95
Date Analyzed: 08/11/95
Matrix: TCLP EXTRACT

Instrument File Name: >H8777

Parameter	Result (mg/L)	Regulatory Limit (mg/L)	Reporting Limit (mg/L)
-----	-----	-----	-----
Pyridine	BDL	5.0	0.05
1,4-Dichlorobenzene	BDL	7.5	0.05
2,4-Dinitrotoluene	BDL	0.13	0.05
2-Methylphenol	BDL	200	0.05
3,4-Methylphenols	BDL	200	0.05
Hexachloroethane	BDL	3.0	0.05
Nitrobenzene	BDL	2.0	0.05
Hexachlorobenzene	BDL	0.13	0.05
Pentachlorophenol	BDL	100	0.05
Hexachlorobutadiene	BDL	0.5	0.05
2,4,6-Trichlorophenol	BDL	2.0	0.05
2,4,5-Trichlorophenol	BDL	400	0.05

METHOD REFERENCE: EPA SW846, 3rd Edition
METHOD 8270

BDL = Below reporting limit

TOXICITY CHARACTERISTIC LEACHING PROCEDURE (1)
EXTRACTION FOR NON-VOLATILE CONSTITUENTS

Laboratory Number : 44898-009
Field Identification : CLJ44-CU-013
Extraction Date : 08/08/95
TCLP Blank : 90,001-273

Sample description : NON-HOMOGENEOUS GRANULAR SOIL

Extraction Fluid Selection (1,2):

A 5.0 gm portion of the sample was stirred with 96.5 mL deionized water. The pH at the end of 5 minutes was 8.31. 3.5 mL 1.0N HCl was added and the mixture was then heated to 50C for ten minutes. Upon cooling the pH was 1.54, therefore Extraction Fluid #1 was used.

Sample Preparation (1):

Since the sample contained no free liquid, it was not filtered before extraction. 100 gm of sample was added to the extractor with 2000 mL Extraction Fluid #1.

Extraction Time : 17.00 hrs

Final pH : 5.69

% Solids as defined in method : 100

References:

1. 40 CFR Part 261, Appendix II, Nov. 24, 1992
2. Extraction Fluid: 0.57% by volume glacial acetic acid to which 0.1N NaOH has been added to yield a pH of 4.93 +/- 0.05.

Laboratory number: 44898-009
Sample Designation: CLJ44-CU-013
Date Extracted: 08/09/95
Date Analyzed: 08/11/95
Matrix: TCLP EXTRACT

Instrument File Name: >H8778

Parameter	Result (mg/L)	Regulatory Limit (mg/L)	Reporting Limit (mg/L)
Pyridine	BDL	5.0	0.05
1,4-Dichlorobenzene	BDL	7.5	0.05
2,4-Dinitrotoluene	BDL	0.13	0.05
2-Methylphenol	BDL	200	0.05
3,4-Methylphenols	BDL	200	0.05
Hexachloroethane	BDL	3.0	0.05
Nitrobenzene	BDL	2.0	0.05
Hexachlorobenzene	BDL	0.13	0.05
Pentachlorophenol	BDL	100	0.05
Hexachlorobutadiene	BDL	0.5	0.05
2,4,6-Trichlorophenol	BDL	2.0	0.05
2,4,5-Trichlorophenol	BDL	400	0.05

METHOD REFERENCE: EPA SW846, 3rd Edition
METHOD 8270

BDL = Below reporting limit

Laboratory number: 44898-011
Sample Designation: CLJ44-CU-014-RB
Date Extracted: 08/10/95
Date Analyzed: 08/11/95
Matrix: WATER

Instrument File Name: >H8781

Parameter	Result (mg/L)	Regulatory Limit (mg/L)	Reporting Limit (mg/L)
Pyridine	BDL	5.0	0.05
1,4-Dichlorobenzene	BDL	7.5	0.05
2,4-Dinitrotoluene	BDL	0.13	0.05
2-Methylphenol	BDL	200	0.05
3,4-Methylphenols	BDL	200	0.05
Hexachloroethane	BDL	3.0	0.05
Nitrobenzene	BDL	2.0	0.05
Hexachlorobenzene	BDL	0.13	0.05
Pentachlorophenol	BDL	100	0.05
Hexachlorobutadiene	BDL	0.5	0.05
2,4,6-Trichlorophenol	BDL	2.0	0.05
2,4,5-Trichlorophenol	BDL	400	0.05

METHOD REFERENCE: EPA SW846, 3rd Edition
METHOD 8270

BDL = Below reporting limit

WATER SEMIVOLATILES SURROGATE RECOVERY

Client: OHM REMEDIATION SERVICES CORP.
 Project: CAMP LEJEUNE/16487

Lab No.: 44862

CLIENT SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 (PHL) #	S5 (2FP) #	S6 (TBP) #	OTHER	TOT OUT
CLJ44-CC-001	64	75	50	55	42	75		0
CLJ44-CC-002-RB	75	87	54	61	60	76		0
CLJ44-CU-003	68	76	57	59	56	79		0
CLJ44-CU-004	62	77	63	51	47	64		0
CLJ44-CU-005	67	78	56	57	47	73		0
CLJ44-CU-006-RB	76	86	31*	64	63	77		1
CLJ44-007-FB	73	84	35	54	58	78		0
B-A2284	63	65	34	55	52	46		0
B-A2290	81	83	31*	75	73	79		1
B-A2398	62	68	59	59	55	63		0
TCLP BLANK #273	74	85	43	56	57	78		0

QC LIMITS

S1 (NBZ) = Nitrobenzene-d5	35 - 114
S2 (FBP) = 2-Fluorobiphenyl	43 - 116
S3 (TPH) = Terphenyl-d14	33 - 141
S4 (PHL) = Phenol-d5	10 - 110
S5 (2FP) = 2-Fluorophenol	21 - 110
S6 (TBP) = 2,4,6-Tribromophenol	10 - 123

Column to be used to flag recovery values with an asterisk
 * Values outside of designated QC limits
 D Surrogates diluted out



WATER SEMIVOLATILES SURROGATE RECOVERY

Client: OHM REMEDIATION SERVICES CORP.
Project: CAMP LEJEUNE/16487

Lab No.: 44897

CLIENT SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 (PHL) #	S5 (2FP) #	S6 (TBP) #	OTHER	TOT OUT
CLJ44-CC-025	68	67	51	70	65	76		0

QC LIMITS

S1 (NBZ) = Nitrobenzene-d5 35 - 114
S2 (FBP) = 2-Fluorobiphenyl 43 - 116
S3 (TPH) = Terphenyl-d14 33 - 141
S4 (PHL) = Phenol-d5 10 - 110
S5 (2FP) = 2-Fluorophenol 21 - 110
S6 (TBP) = 2,4,6-Tribromophenol 10 - 123

Column to be used to flag recovery values with an asterisk
* Values outside of designated QC limits
D Surrogates diluted out



WATER SEMIVOLATILES SURROGATE RECOVERY

Client: OHM REMEDIATION SERVICES CORP.
 Project: CAMP LEJEUNE/16487

Lab No.: 44898

CLIENT SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 (PHL) #	S5 (2FP) #	S6 (TBP) #	OTHER	TOT OUT
CLJ44-CU-012	63	63	49	61	56	68		0
CLJ44-CU-013	68	71	49	65	60	77		0
CLJ44-CU-014-RB	64	70	61	62	59	64		0

QC LIMITS

S1	(NBZ) = Nitrobenzene-d5	35 - 114
S2	(FBP) = 2-Fluorobiphenyl	43 - 116
S3	(TPH) = Terphenyl-d14	33 - 141
S4	(PHL) = Phenol-d5	10 - 110
S5	(2FP) = 2-Fluorophenol	21 - 110
S6	(TBP) = 2,4,6-Tribromophenol	10 - 123

Column to be used to flag recovery values with an asterisk

* Values outside of designated QC limits

D Surrogates diluted out



Laboratory number: B-A2284
 Sample Designation: LABORATORY BLANK
 Date Analyzed: 08/08/95
 Matrix: WATER

ACID/BASE/NEUTRAL EXTRACTABLES	DETECTION		ACID/BASE/NEUTRAL EXTRACTABLES	DETECTION	
	CONCENTRATION (ug/L)	LIMIT (ug/L)		CONCENTRATION (ug/L)	LIMIT (ug/L)
N-Nitrosodimethylamine	BDL	10	3-Nitroaniline	BDL	50
Phenol	BDL	10	Acenaphthene	BDL	10
Aniline	BDL	10	2,4-Dinitrophenol	BDL	50
Bis(2-chloroethyl)ether	BDL	10	4-Nitrophenol	BDL	50
2-Chlorophenol	BDL	10	Dibenzofuran	BDL	10
1,3-Dichlorobenzene	BDL	10	2,4-Dinitrotoluene	BDL	10
1,4-Dichlorobenzene	BDL	10	Diethylphthalate	BDL	10
Benzylalcohol	BDL	10	4-Chlorophenyl-phenylether	BDL	10
1,2-Dichlorobenzene	BDL	10	Fluorene	BDL	10
2-Methylphenol	BDL	10	4-Nitroaniline	BDL	50
Bis(2-chloroisopropyl)ether	BDL	10	4,6-Dinitro-2-methylphenol	BDL	50
4-Methylphenol	BDL	10	N-Nitrosodiphenylamine	BDL	10
N-Nitroso-di-N-propylamine	BDL	10	Azobenzene	BDL	10
Hexachloroethane	BDL	10	4-Bromophenyl-phenylether	BDL	10
Nitrobenzene	BDL	10	Hexachlorobenzene	BDL	10
Isophorone	BDL	10	Pentachlorophenol	BDL	10
2-Nitrophenol	BDL	10	Phenanthrene	BDL	10
2,4-Dimethylphenol	BDL	10	Anthracene	BDL	10
Benzoic acid	BDL	50	Di-N-butylphthalate	BDL	10
Bis(2-chloroethoxy)methane	BDL	10	Fluoranthene	BDL	10
2,4-Dichlorophenol	BDL	10	Benzidine	BDL	50
1,2,4-Trichlorobenzene	BDL	10	Pyrene	BDL	10
Naphthalene	BDL	10	Butylbenzylphthalate	BDL	10
4-Chloroaniline	BDL	10	3,3'-Dichlorobenzidine	BDL	20
Hexachlorobutadiene	BDL	10	Benzo(A)anthracene	BDL	10
4-Chloro-3-methylphenol	BDL	10	Chrysene	BDL	10
2-Methylnaphthalene	BDL	10	Bis(2-ethylhexyl)phthalate	BDL	10
Hexachlorocyclopentadiene	BDL	10	Di-N-octylphthalate	BDL	10
2,4,6-Trichlorophenol	BDL	10	Benzo(B)fluoranthene	BDL	10
2,4,5-Trichlorophenol	BDL	50	Benzo(K)fluoranthene	BDL	10
2-Chloronaphthalene	BDL	10	Benzo(A)pyrene	BDL	10
2-Nitroaniline	BDL	50	Ideno(1,2,3,-CD)pyrene	BDL	10
Dimethylphthalate	BDL	10	Dibenz(A,H)anthracene	BDL	10
Acenaphthylene	BDL	10	Benzo(G,H,I)perylene	BDL	10
2,6-Dinitrotoluene	BDL	10			

METHOD REFERENCE: EPA SW 846, 3RD EDITION
 METHOD 8270

BDL = Below detection limit



Laboratory number: B-A2290
 Sample Designation: LABORATORY BLANK
 Date Analyzed: 08/11/95
 Matrix: WATER

ACID/BASE/NEUTRAL EXTRACTABLES	DETECTION		ACID/BASE/NEUTRAL EXTRACTABLES	DETECTION	
	CONCENTRATION (ug/L)	LIMIT (ug/L)		CONCENTRATION (ug/L)	LIMIT (ug/L)
N-Nitrosodimethylamine	BDL	10	3-Nitroaniline	BDL	50
Phenol	BDL	10	Acenaphthene	BDL	10
Aniline	BDL	10	2,4-Dinitrophenol	BDL	50
Bis(2-chloroethyl)ether	BDL	10	4-Nitrophenol	BDL	50
2-Chlorophenol	BDL	10	Dibenzofuran	BDL	10
1,3-Dichlorobenzene	BDL	10	2,4-Dinitrotoluene	BDL	10
1,4-Dichlorobenzene	BDL	10	Diethylphthalate	BDL	10
Benzylalcohol	BDL	10	4-Chlorophenyl-phenylether	BDL	10
1,2-Dichlorobenzene	BDL	10	Fluorene	BDL	10
2-Methylphenol	BDL	10	4-Nitroaniline	BDL	50
Bis(2-chloroisopropyl)ether	BDL	10	4,6-Dinitro-2-methylphenol	BDL	50
4-Methylphenol	BDL	10	N-Nitrosodiphenylamine	BDL	10
N-Nitroso-di-N-propylamine	BDL	10	Azobenzene	BDL	10
Hexachloroethane	BDL	10	4-Bromophenyl-phenylether	BDL	10
Nitrobenzene	BDL	10	Hexachlorobenzene	BDL	10
Isophorone	BDL	10	Pentachlorophenol	BDL	10
2-Nitrophenol	BDL	10	Phenanthrene	BDL	10
2,4-Dimethylphenol	BDL	10	Anthracene	BDL	10
Benzoic acid	BDL	50	Di-N-butylphthalate	BDL	10
Bis(2-chloroethoxy)methane	BDL	10	Fluoranthene	BDL	10
2,4-Dichlorophenol	BDL	10	Benzidine	BDL	50
1,2,4-Trichlorobenzene	BDL	10	Pyrene	BDL	10
Naphthalene	BDL	10	Butylbenzylphthalate	BDL	10
4-Chloroaniline	BDL	10	3,3'-Dichlorobenzidine	BDL	20
Hexachlorobutadiene	BDL	10	Benzo(A)anthracene	BDL	10
4-Chloro-3-methylphenol	BDL	10	Chrysene	BDL	10
2-Methylnaphthalene	BDL	10	Bis(2-ethylhexyl)phthalate	BDL	10
Hexachlorocyclopentadiene	BDL	10	Di-N-octylphthalate	BDL	10
2,4,6-Trichlorophenol	BDL	10	Benzo(B)fluoranthene	BDL	10
2,4,5-Trichlorophenol	BDL	50	Benzo(K)fluoranthene	BDL	10
2-Chloronaphthalene	BDL	10	Benzo(A)pyrene	BDL	10
2-Nitroaniline	BDL	50	Ideno(1,2,3,-CD)pyrene	BDL	10
Dimethylphthalate	BDL	10	Dibenz(A,H)anthracene	BDL	10
Acenaphthylene	BDL	10	Benzo(G,H,I)perylene	BDL	10
2,6-Dinitrotoluene	BDL	10			

METHOD REFERENCE: EPA SW 846, 3RD EDITION
 METHOD 8270

BDL = Below detection limit



Laboratory number: B-A2398
 Sample Designation: LABORATORY BLANK
 Date Analyzed: 08/11/95
 Matrix: WATER

ACID/BASE/NEUTRAL EXTRACTABLES	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
N-Nitrosodimethylamine	BDL	10
Phenol	BDL	10
Aniline	BDL	10
Bis(2-chloroethyl)ether	BDL	10
2-Chlorophenol	BDL	10
1,3-Dichlorobenzene	BDL	10
1,4-Dichlorobenzene	BDL	10
Benzylalcohol	BDL	10
1,2-Dichlorobenzene	BDL	10
2-Methylphenol	BDL	10
Bis(2-chloroisopropyl)ether	BDL	10
4-Methylphenol	BDL	10
N-Nitroso-di-N-propylamine	BDL	10
Hexachloroethane	BDL	10
Nitrobenzene	BDL	10
Isophorone	BDL	10
2-Nitrophenol	BDL	10
2,4-Dimethylphenol	BDL	10
Benzoic acid	BDL	50
Bis(2-chloroethoxy)methane	BDL	10
2,4-Dichlorophenol	BDL	10
1,2,4-Trichlorobenzene	BDL	10
Naphthalene	BDL	10
4-Chloroaniline	BDL	10
Hexachlorobutadiene	BDL	10
4-Chloro-3-methylphenol	BDL	10
2-Methylnaphthalene	BDL	10
Hexachlorocyclopentadiene	BDL	10
2,4,6-Trichlorophenol	BDL	10
2,4,5-Trichlorophenol	BDL	50
2-Chloronaphthalene	BDL	10
2-Nitroaniline	BDL	50
Dimethylphthalate	BDL	10
Acenaphthylene	BDL	10
2,6-Dinitrotoluene	BDL	10

ACID/BASE/NEUTRAL EXTRACTABLES	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
3-Nitroaniline	BDL	50
Acenaphthene	BDL	10
2,4-Dinitrophenol	BDL	50
4-Nitrophenol	BDL	50
Dibenzofuran	BDL	10
2,4-Dinitrotoluene	BDL	10
Diethylphthalate	BDL	10
4-Chlorophenyl-phenylether	BDL	10
Fluorene	BDL	10
4-Nitroaniline	BDL	50
4,6-Dinitro-2-methylphenol	BDL	50
N-Nitrosodiphenylamine	BDL	10
Azobenzene	BDL	10
4-Bromophenyl-phenylether	BDL	10
Hexachlorobenzene	BDL	10
Pentachlorophenol	BDL	10
Phenanthrene	BDL	10
Anthracene	BDL	10
Di-N-butylphthalate	BDL	10
Fluoranthene	BDL	10
Benizidine	BDL	50
Pyrene	BDL	10
Butylbenzylphthalate	BDL	10
3,3'-Dichlorobenzidine	BDL	20
Benzo(A)anthracene	BDL	10
Chrysene	BDL	10
Bis(2-ethylhexyl)phthalate	BDL	10
Di-N-octylphthalate	BDL	10
Benzo(B)fluoranthene	BDL	10
Benzo(K)fluoranthene	BDL	10
Benzo(A)pyrene	BDL	10
Ideno(1,2,3,-CD)pyrene	BDL	10
Dibenz(A,H)anthracene	BDL	10
Benzo(G,H,I)perylene	BDL	10

METHOD REFERENCE: EPA SW 846, 3RD EDITION
 METHOD 8270

BDL = Below detection limit



0000181

Laboratory number: TCLP BLANK #273
Sample Designation: TCLP BLANK
Date Analyzed: 07/25/95
Matrix: TCLP EXTRACT

Parameter	Result (ug/L)	Regulatory Limit (ug/L)	Detection Limit (ug/L)
-----	-----	-----	-----
Pyridine	BDL	5000	56
1,4-Dichlorobenzene	BDL	7500	56
2,4-Dinitrotoluene	BDL	130	56
2-Methylphenol	BDL	200000	56
3,4-Methylphenols	BDL	200000	56
Hexachloroethane	BDL	3000	56
Nitrobenzene	BDL	2000	56
Hexachlorobenzene	BDL	130	56
Pentachlorophenol	BDL	100000	56
Hexachlorobutadiene	BDL	500	56
2,4,6-Trichlorophenol	BDL	2000	56
2,4,5-Trichlorophenol	BDL	400000	56

METHOD REFERENCE: EPA SW 846, 3RD EDITION
METHOD 8270

BDL = Below detection limit

MATRIX SPIKE RECOVERY
ACID/BASE/NEUTRAL EXTRACTABLE ORGANIC COMPOUNDS

Laboratory Number: LS-A2284
Sample Designation: LABORATORY CONTROL SAMPLE
Date Analyzed: 08/08/9
Matrix: WATER

COMPOUND	ug/L IN SAMPLE	ug/L SPIKE	ug/L FOUND	%REC-OVERY
PHENOL	0	200	84	42
2-CHLOROPHENOL	0	200	95	48
1,4-DICHLOROBENZENE	0	100	51	51
N-NITROSO-DI-N-PROPYLAMINE	0	100	63	63
1,2,4-TRICHLOROBENZENE	0	100	56	56
4-CHLORO-3-METHYLPHENOL	0	200	110	55
ACENAPHTHENE	0	100	65	65
4-NITROPHENOL	0	200	136	68
2,4-DINITROTOLUENE	0	100	85	85
PENTACHLOROPHENOL	0	200	131	65
PYRENE	0	100	66	66

METHOD REFERENCE: EPA SW 846,3rd Edition
METHOD 8270

MATRIX SPIKE RECOVERY
ACID/BASE/NEUTRAL EXTRACTABLE ORGANIC COMPOUNDS

Laboratory Number: LS-A2290
Sample Designation: LABORATORY CONTROL SAMPLE
Date Analyzed: 08/11/95
Matrix: WATER

COMPOUND	ug/L IN SAMPLE	ug/L SPIKE	ug/L FOUND	%REC- OVERY
PHENOL	0	200	134	67
2-CHLOROPHENOL	0	200	139	69
1,4-DICHLOROBENZENE	0	100	56	56
N-NITROSO-DI-N-PROPYLAMINE	0	100	75	76
1,2,4-TRICHLOROBENZENE	0	100	66	66
4-CHLORO-3-METHYLPHENOL	0	200	156	78
ACENAPHTHENE	0	100	76	76
4-NITROPHENOL	0	200	155	78
2,4-DINITROTOLUENE	0	100	77	77
PENTACHLOROPHENOL	0	200	135	67
PYRENE	0	100	74	74

METHOD REFERENCE: EPA SW 846,3rd Edition
METHOD 8270

REVIEWED BY
JEM 08/21/95

PACE INCORPORATED
 Organics Extraction
 AQUEOUS PREP LOG

PROTOCOL: EPA SW846

LOG BOOK NO: 3

SOP #: QA5514

TCIP

METHOD: CONT/3520 SEPF/3510

MATRIX: AQUEOUS

INIT
 vol (L)

LCS
 ms/msD

TEST / LEVEL: ABN /

(E3) Am

COUNT	DATE/INIT	BLANK/SPIKES SAMPLE #	LCS MS/MSD	SURR # AMT/CONC	INIT VOL (L)	SPIKE # AMT/CONC	INTER VOL (ml)	ALIQ VOL (ml)	FINAL VOL (mL)	* SPECIAL CLEAN-UP	QUATTRO DATE/INIT
	<u>Am</u> 0/4/95	<u>BA2284</u>	<u>1.0</u>	<u>E1362</u> <u>0.5mL</u>	<u>LSA2284</u>	<u>N/A</u>	<u>10.0</u>	<u>10.0</u>	<u>1.0</u>	<u>N/A</u>	<u>Am</u>
		<u>LSA2284</u>	<u>1.0</u>	<u>100 F207PM</u>		<u>N/A</u>					<u>8-9</u>
<u>18</u>		<u>44862-18</u>	<u>.200mL</u>			<u>N/A</u>					
<u>19</u>		<u>-20</u>									
<u>20</u>		<u>-21</u>									
<u>1</u>		<u>-22</u>									
<u>2</u>		<u>-19</u>									
<u>3</u>		<u>-24</u>									
<u>4</u>		<u>-25</u>									

(3) PE-aS

Am
RLK

COMMENTS: * F = Florisil; G = GPC; S = Sulfur

REVIEWED BY

SPACE INCORPORATED
Organics Extraction
AQUEOUS PREP LOG

PROTOCOL: EPA SW846

LOG BOOK NO: 3

SOP #: QA5514

METHOD: CONT/3520 SEPF/3510

MATRIX: AQUEOUS

INIT Vol (L)

TCIP

LCS MS/MSD

TEST / LEVEL: ABN /

COUNT	DATE/INIT	BLANK/SPIKES SAMPLE #	LCS MS/MSD	SURR # AMT/CONC	INIT VOL (L)	SPIKE # AMT/CONC	INTER VOL (ml)	ALIQ VOL (ml)	FINAL VOL (ml)	* SPECIAL CLEAN-UP	QUATTRO DATE/INIT
	8/9/95	BA 2290	1.0	VE1362 0.5ml	LSA 2290	N/A	10.0	10.0	1.0	N/A	
		LSA 2290	1.0	400 1200 ppm		VE1316 1.0 ml 100 1200 ppm					
9		44853-1	.200ml			N/A					
10		44897-25									
11		44898-8									
12		-9									
13		44853-2									

Abn
ML

10

8.23.95

COMMENTS: * F = Florisil; G = , S = Sulfur

10 SAMPLE WAS NOT TUMBLED / % Solids COMPLETED TO DATE. (Am)

REVIEWED BY
JEA 08/21/95

PACE INCORPORATED
 Organics Extraction
 AQUEOUS PREP LOG

PROTOCOL: EPA SW846

LOG BOOK NO: 3

SOP #: QA5514

METHOD: CONT/3520 SEPF/3510

MATRIX: AQUEOUS

TEST / LEVEL: ABN / 1

INIT
 VOL (L)

TCIP
 Neutral
 LCS
 MS/MSD

COUNT	DATE/INIT	BLANK/SPIKES SAMPLE #	LCS MS/MSD	SURR # AMT/CONC	INIT VOL (L)	SPIKE # AMT/CONC	INTER VOL (ml)	ALIQ VOL (ml)	FINAL VOL (ml)	* SPECIAL CLEAN-UP	QUATRO DATE/INIT
	8/10/95	BA 2398	1.0	E1562 2.500g		N/A	10.0	10.0	1.0	N/A	JEA JEL 5/11/95
		LSA 2398	1.0	160ppm 200ppm	LSA2398	E1510 1.00g 1.00g					
13		44913-9	300ml			N/A					
14		44914-3									
15		-7									
16		44853-2									
17		44898-11									
18		44914-12									
 JEA PM 8-11-95 											

COMMENTS: * F = Florisil; G = GPC; S = Sulfur

MATRIX SPIKE RECOVERY
ACID/BASE/NEUTRAL EXTRACTABLE ORGANIC COMPOUNDS

Laboratory Number: LS-A2398
Sample Designation: LABORATORY CONTROL SAMPLE
Date Analyzed: 08/11/95
Matrix: WATER

COMPOUND	ug/L IN SAMPLE	ug/L SPIKE	ug/L FOUND	%REC- OVERY
PHENOL	0	200	112	56
2-CHLOROPHENOL	0	200	126	63
1,4-DICHLOROBENZENE	0	100	55	55
N-NITROSO-DI-N-PROPYLAMINE	0	100	64	64
1,2,4-TRICHLOROBENZENE	0	100	62	62
4-CHLORO-3-METHYLPHENOL	0	200	133	67
ACENAPHTHENE	0	100	67	67
4-NITROPHENOL	0	200	125	63
2,4-DINITROTOLUENE	0	100	66	66
PENTACHLOROPHENOL	0	200	130	65
PYRENE	0	100	59	59

METHOD REFERENCE: EPA SW 846,3rd Edition
METHOD 8270

5B
SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: PACE New England

Contract:

Lab Code: RESAN Case No.: OHMRC

SAS No.:

SDG No.: LJN09

Lab File ID: >F1700

DFTPP Injection Date: 04/19/95

Instrument ID: FMS

DFTPP Injection Time: 13:16

ION ABUNDANCE CRITERIA for F1700 are reported on a separate sheet.

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS

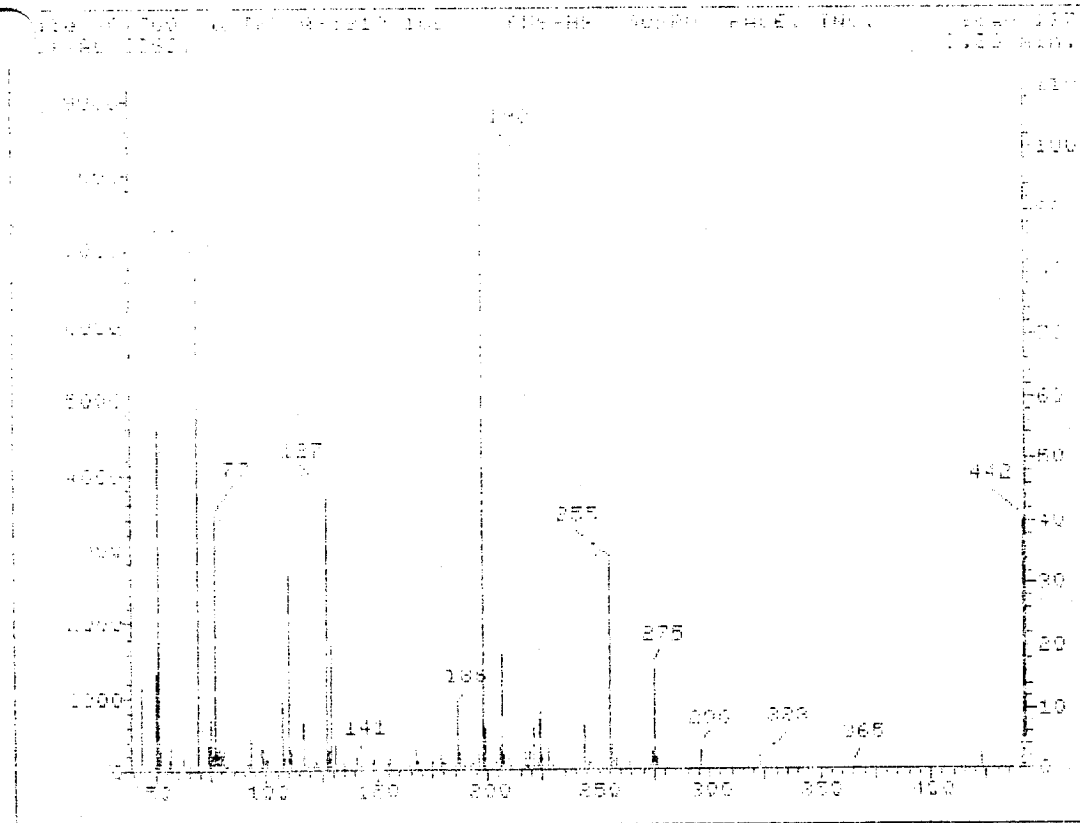
CLIENT I.D.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	DATE ANALYZED
ABNSTD160	ABNSTD160	F1702	04/19/95	15:15
ABNSTD120	ABNSTD120	F1703	04/19/95	16:02
ABNSTD080	ABNSTD080	F1704	04/19/95	16:48
ABNSTD050	ABNSTD050	F1705	04/19/95	17:35
ABNSTD020	ABNSTD020	F1706	04/19/95	18:21

GC/MS PERFORMANCE STANDARD

Decafluorotriphenylphosphine (DFTPP)

m/z	Ion Abundance Criteria	% Relative Abundance		Status
		Base Peak	Appropriate Peak	
51	30-60% of mass 198	54.80	54.80	Ok
68	Less than 2% of mass 69	0.00	0.00	Ok
69	(reference only)	79.39	79.39	Ok
70	Less than 2% of mass 69	0.00	0.00	Ok
127	40-60% of mass 198	44.27	44.27	Ok
197	Less than 1% of mass 198	0.00	0.00	Ok
198	Base peak, 100% relative abundance	100.00	100.00	Ok
199	5-9% of mass 198	6.88	6.88	Ok
275	10-30% of mass 198	17.02	17.02	Ok
365	Greater than 1% of mass 198	1.08	1.08	Ok
441	0-100% of mass 443	5.49	75.37	Ok
442	Greater than 40% of mass 198	40.18	40.18	Ok
443	17-23% of mass 442	7.28	18.13	Ok

Injection Date: 04/19/95
 Injection Time: 13:16
 Data File: >F1700
 Scan: 127



5B
SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: PACE New England

Contract:

Lab Code: RESAN

Case No.: OHMRC

SAS No.:

SDG No.: LJN09

Lab File ID: >F2174

DFTPP Injection Date: 07/25/95

Instrument ID: FMS

DFTPP Injection Time: 08:33

ION ABUNDANCE CRITERIA for F2174 are reported on a separate sheet.

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS

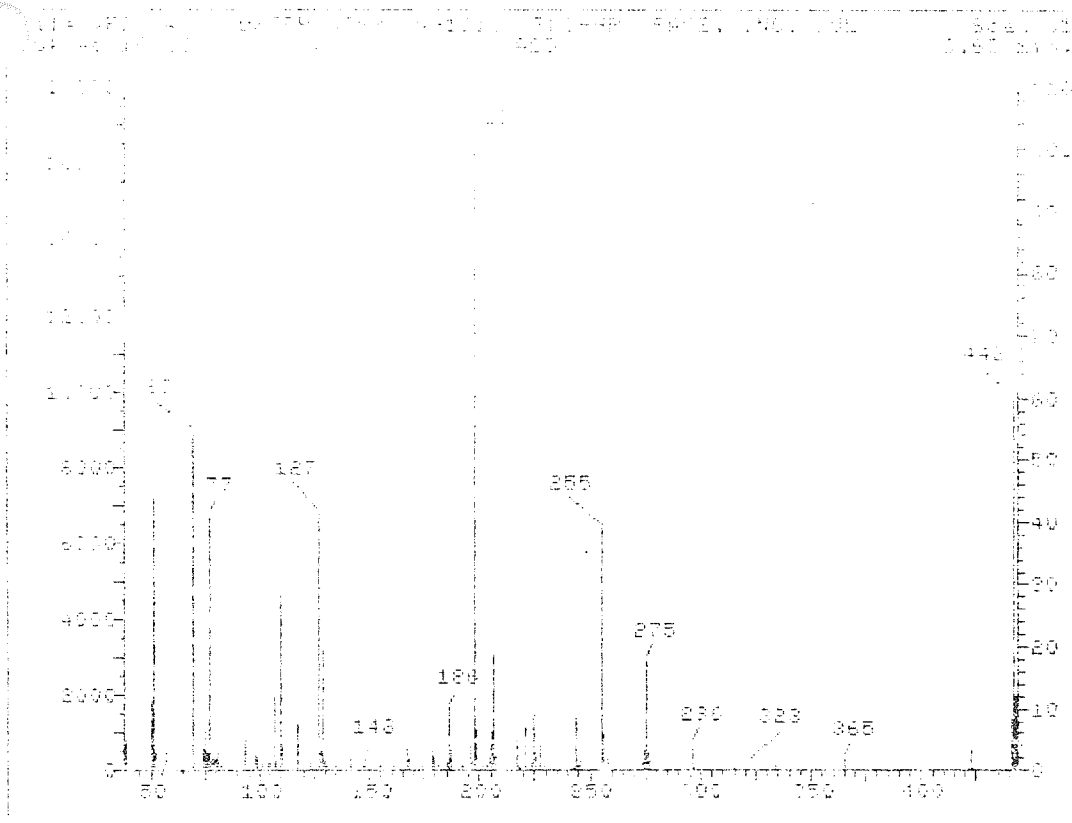
CLIENT I.D.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	DATE ANALYZED
ABNSTD050	ABNSTD050	F2175	07/25/95	08:49
90001-273	90001-273	F2178	07/25/95	10:42

GC/MS PERFORMANCE STANDARD

Decafluorotriphenylphosphine (DFTFP)

m/z	Ion Abundance Criteria	% Relative Abundance		Status
		Base Peak	Appropriate Peak	
51	30-60% of mass 198	43.78	43.78	Ok
68	Less than 2% of mass 69	0.00	0.00	Ok
69	(reference only)	54.22	54.22	Ok
70	Less than 2% of mass 69	0.00	0.00	Ok
127	40-60% of mass 198	41.29	41.29	Ok
197	Less than 1% of mass 198	0.00	0.00	Ok
198	Base peak, 100% relative abundance	100.00	100.00	Ok
199	5-9% of mass 198	6.46	6.46	Ok
275	10-30% of mass 198	17.70	17.70	Ok
365	Greater than 1% of mass 198	1.87	1.87	Ok
441	0-100% of mass 443	8.32	70.27	Ok
442	Greater than 40% of mass 198	59.71	59.71	Ok
443	17-23% of mass 442	11.84	19.83	Ok

Injection Date: 07/25/95
 Injection Time: 08:33
 Data File: >F2174
 Scan: 61



SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS
 CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: PACE New England

Contract:

Lab Code: RESAN

Case No.: OHMRC

SAS No.:

SDG No.: LJN09

Lab File ID: >F2292

DFTPP Injection Date: 08/08/95

Instrument ID: FMS

DFTPP Injection Time: 08:21

ION ABUNDANCE CRITERIA for F2292 are reported on a separate sheet.

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS

CLIENT I.D.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	DATE ANALYZED
ABNSTD050	ABNSTD050	F2293	08/08/95	08:36
BA2284	90176-055	F2296	08/08/95	10:18
LSA2284	90176-055MS	F2297	08/08/95	10:50
CLJ44-CC-001	44862-018	F2299	08/08/95	11:55
CLJ44-CC-002-RB	44862-019	F2300	08/08/95	12:27
CLJ44-CU-003	44862-020	F2301	08/08/95	12:59
CLJ44-CU-004	44862-021	F2302	08/08/95	13:31
CLJ44-CU-005	44862-022	F2303	08/08/95	14:04
CLJ44-CU-006-RB	44862-024	F2304	08/08/95	14:36
CLJ44-007-FB	44862-025	F2305	08/08/95	15:08

GC/MS PERFORMANCE STANDARD

Decafluorotriphenylphosphine (DFTPP)

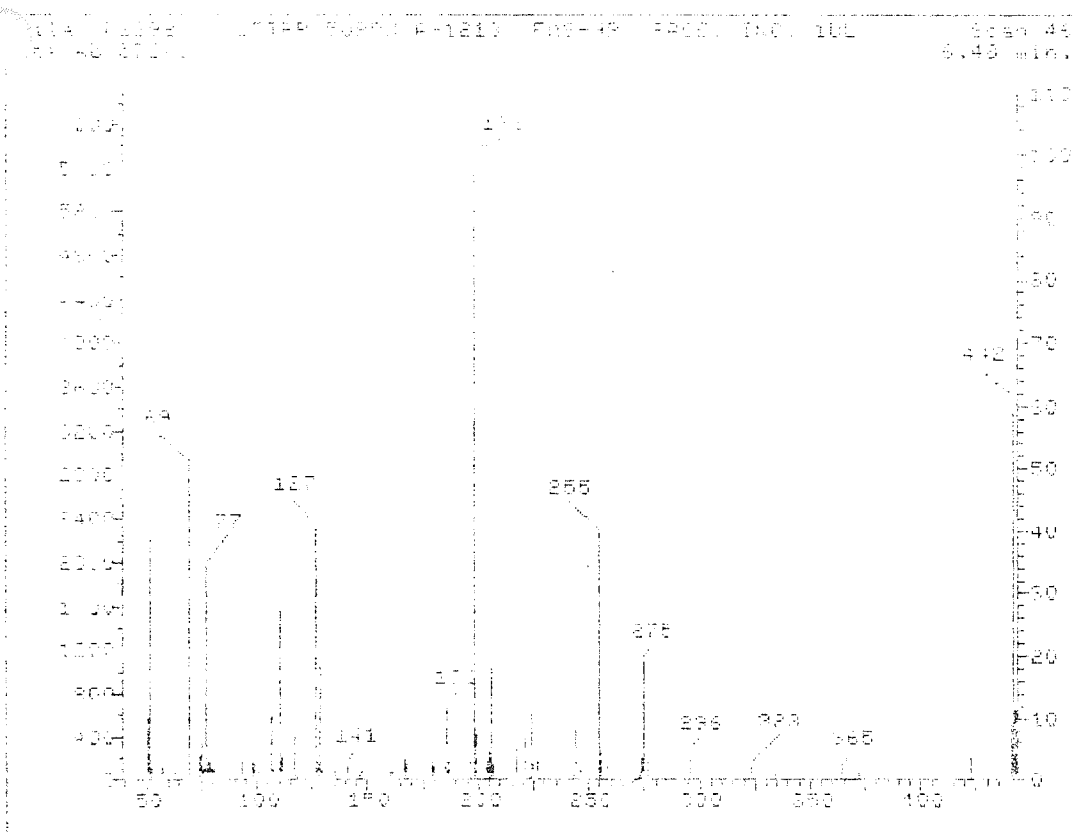
m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	% Relative Abundance Appropriate Peak	Status
51	30-60% of mass 198	38.89	38.89	Ok
68	Less than 2% of mass 69	0.00	0.00	Ok
69	(reference only)	50.63	50.63	Ok
70	Less than 2% of mass 69	0.00	0.00	Ok
127	40-60% of mass 198	40.15	40.15	Ok
197	Less than 1% of mass 198	0.00	0.00	Ok
198	Base peak, 100% relative abundance	100.00	100.00	Ok
199	5-9% of mass 198	7.23	7.23	Ok
275	10-30% of mass 198	19.15	19.15	Ok
365	Greater than 1% of mass 198	1.62	1.62	Ok
441	0-100% of mass 443	8.79	78.84	Ok
442	Greater than 40% of mass 198	60.73	60.73	Ok
443	17-23% of mass 442	11.15	18.35	Ok

Injection Date: 08/08/95

Injection Time: 08:21

Data File: >P2292

Scan: 46



5B
 SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS
 CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: PACE New England

Contract:

Lab Code: RESAN Case No.: OHMRC

SAS No.:

SDG No.: LJN09

Lab File ID: >H8752

DFTPP Injection Date: 08/10/95

Instrument ID: HMS

DFTPP Injection Time: 08:39

ION ABUNDANCE CRITERIA for H8752 are reported on a separate sheet.

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS

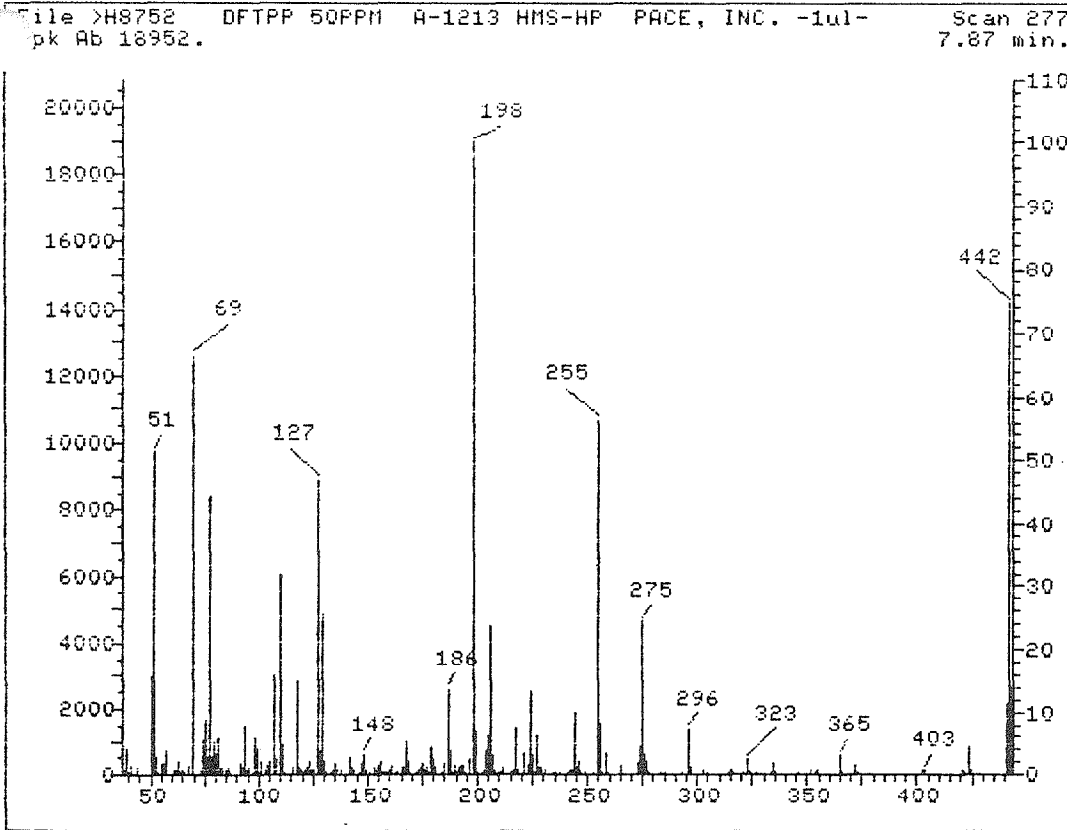
CLIENT I.D.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	DATE ANALYZED
=====	=====	=====	=====	=====
ABNSTD160	ABNSTD160	H8754	08/10/95	08:55
ABNSTD120	ABNSTD120	H8755	08/10/95	09:30
ABNSTD080	ABNSTD080	H8756	08/10/95	10:05
ABNSTD050	ABNSTD050	H8757	08/10/95	10:39
ABNSTD020	ABNSTD020	H8758	08/10/95	11:14

GC/MS PERFORMANCE STANDARD

Decafluorotriphenylphospine (DFTPP)

m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	Appropriate Peak	Status
51	30-60% of mass 198	51.41	51.41	Ok
68	Less than 2% of mass 69	0.00	0.00	Ok
69	(reference only)	66.36	66.36	Ok
70	Less than 2% of mass 69	0.00	0.00	Ok
127	40-60% of mass 198	46.88	46.88	Ok
197	Less than 1% of mass 198	0.00	0.00	Ok
198	Base peak, 100% relative abundance	100.00	100.00	Ok
199	5-9% of mass 198	6.76	6.76	Ok
275	10-30% of mass 198	24.36	24.36	Ok
365	Greater than 1% of mass 198	3.04	3.04	Ok
441	0-100% of mass 443	11.33	82.14	Ok
442	Greater than 40% of mass 198	74.66	74.66	Ok
443	17-23% of mass 442	13.80	18.48	Ok

Injection Date: 08/10/95
 Injection Time: 08:39
 Data File: >H8752
 Scan: 277



SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: PACE New England

Contract:

Lab Code: RESAN Case No.: OHMRC

SAS No.:

SDG No.: LJN09

Lab File ID: >H8773

DFTPP Injection Date: 08/11/95

Instrument ID: HMS

DFTPP Injection Time: 07:17

ION ABUNDANCE CRITERIA for H8773 are reported on a separate sheet.

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS

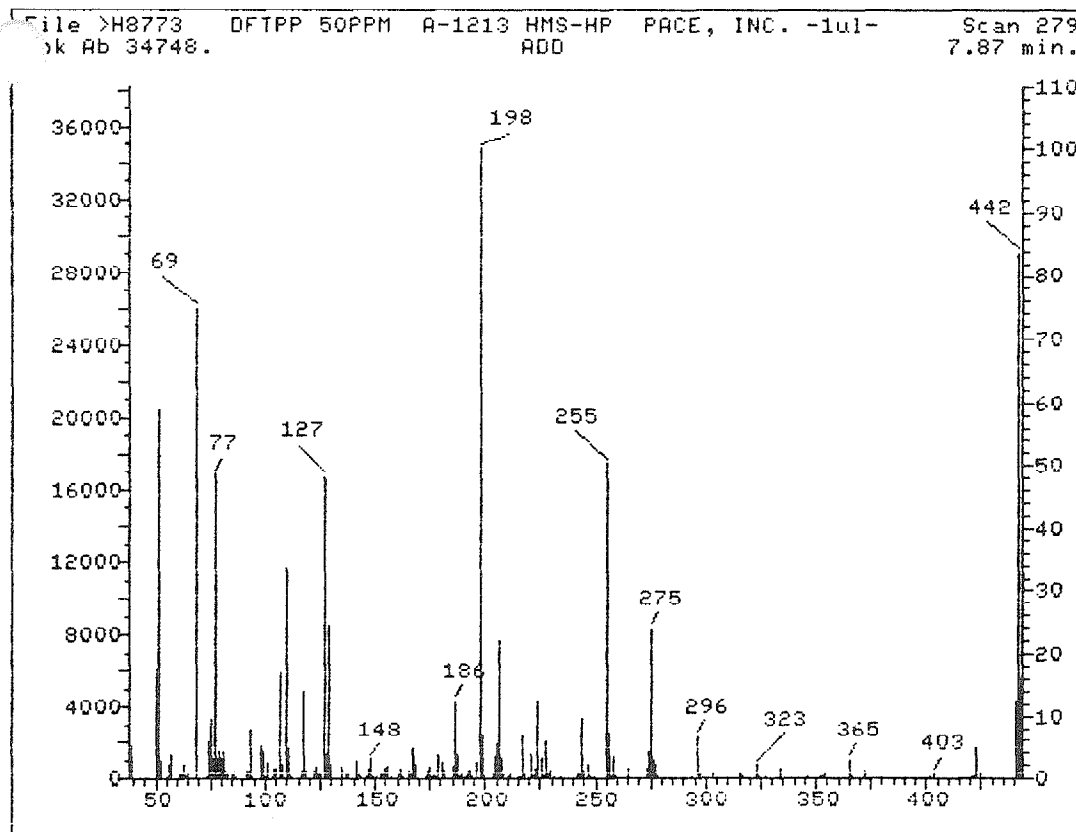
CLIENT I.D.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	DATE ANALYZED
ABNSTD050	ABNSTD050	H8775	08/11/95	07:35
CLJ44-CC-025	44897-025	H8776	08/11/95	08:15
CLJ44-CU-012	44898-008	H8777	08/11/95	08:50
CLJ44-CU-013	44898-009	H8778	08/11/95	09:25
BA2290	90176-063	H8779	08/11/95	10:13
LSA2290	90176-063MS	H8780	08/11/95	10:48
CLJ44-CU-014-RB	44898-011	H8781	08/11/95	12:57
BA2398	90176-065	H8782	08/11/95	13:32
LSA2398	90176-065MS	H8783	08/11/95	16:03

GC/MS PERFORMANCE STANDARD

Decafluorotriphenylphospine (DFTPP)

m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	Appropriate Peak	Status
51	30-60% of mass 198	58.80	58.80	Ok
68	Less than 2% of mass 69	.09	.12	Ok
69	(reference only)	74.82	74.82	Ok
70	Less than 2% of mass 69	.16	.21	Ok
127	40-60% of mass 198	48.24	48.24	Ok
197	Less than 1% of mass 198	0.00	0.00	Ok
198	Base peak, 100% relative abundance	100.00	100.00	Ok
199	5-9% of mass 198	6.78	6.78	Ok
275	10-30% of mass 198	23.83	23.83	Ok
365	Greater than 1% of mass 198	2.89	2.89	Ok
441	0-100% of mass 443	12.39	77.22	Ok
442	Greater than 40% of mass 198	83.55	83.55	Ok
443	17-23% of mass 442	16.04	19.20	Ok

Injection Date: 08/11/95
 Injection Time: 07:17
 Data File: >H8773
 Scan: 279



SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: PACE New England

Contract:

Lab Code: RESAN Case No.: OHMRC

SAS No.:

SDG No.: LJN09

Lab File ID (Standard): >F1702

Date Analyzed: 04/19/95

Instrument ID: FMS

Time Analyzed: 15:15

	IS1(DCB)		IS2(NPT)		IS3(ANT)		IS4(PHN)		IS5(CRY)		IS6(PRY)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	28007	8.15	106956	10.37	62522	13.54	96535	16.20	90322	21.57	70369	27.20
UPPER LIMIT	56014	8.65	213912	10.87	125044	14.04	193070	16.70	180644	22.07	140738	27.70
LOWER LIMIT	14004	7.65	53478	9.87	31261	13.04	48268	15.70	45161	21.07	35185	26.70
CLIENT I.D.												

IS1 (DCB) = 1,4-Dichlorobenzene-d4

UPPER LIMIT = + 100%

IS2 (NPT) = Naphthalene-d8

of internal standard area.

IS3 (ANT) = Acenaphthene-d10

LOWER LIMIT = - 50%

IS4 (PHN) = Phenanthrene-d10

of internal standard area.

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

Column used to flag internal standard area values outside of UPPER and LOWER LIMIT with an asterisk

SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: PACE New England

Contract:

Lab Code: RESAN

Case No.: OHMRC

SAS No.:

SDG No.: LJN09

Lab File ID (Standard): >F2175

Date Analyzed: 07/25/95

Instrument ID: FMS

Time Analyzed: 08:49

	IS1(DCB)		IS2(NPT)		IS3(ANT)		IS4(PHN)		IS5(CRY)		IS6(PRY)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	46987	5.24	187576	7.30	108366	10.25	175045	12.74	148891	17.28	149632	19.65
UPPER LIMIT	93974	5.74	375152	7.80	216732	10.75	350090	13.24	297782	17.78	299264	20.15
LOWER LIMIT	23494	4.74	93788	6.80	54183	9.75	87523	12.24	74446	16.78	74816	19.15
CLIENT I.D.												
90001-273	52918	5.24	177892	7.30	102493	10.25	168529	12.72	191565	17.24	151016	19.61

IS1 (DCB) = 1,4-Dichlorobenzene-d4

UPPER LIMIT = + 100%

IS2 (NPT) = Naphthalene-d8

of internal standard area.

IS3 (ANT) = Acenaphthene-d10

LOWER LIMIT = - 50%

IS4 (PHN) = Phenanthrene-d10

of internal standard area.

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

Column used to flag internal standard area values outside of UPPER and LOWER LIMIT with an asterisk

SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: PACE New England

Contract:

Lab Code: RESAN Case No.: OHMRC

SAS No.:

SDG No.: LJN09

Lab File ID (Standard): >F2293

Date Analyzed: 08/08/95

Instrument ID: FMS

Time Analyzed: 08:36

	IS1(DCB)		IS2(NPT)		IS3(ANT)		IS4(PHN)		IS5(CRY)		IS6(PRY)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	27330	5.10	105065	7.15	60524	10.10	101684	12.56	83039	17.09	78678	19.40
UPPER LIMIT	54660	5.60	210130	7.65	121048	10.60	203368	13.06	166078	17.59	157356	19.90
LOWER LIMIT	13665	4.60	52533	6.65	30262	9.60	50842	12.06	41520	16.59	39339	18.90
CLIENT I.D.												
BA2284	29625	5.09	102544	7.13	58041	10.09	90626	12.55	92984	17.06	67914	19.38
LSA2284	28207	5.10	100086	7.14	59593	10.09	97065	12.56	98947	17.06	73721	19.37
CLJ44-CC-001	29968	5.09	102386	7.14	60207	10.09	95614	12.55	103868	17.06	72458	19.38
CLJ44-CC-002-RB	29710	5.09	103059	7.13	59288	10.09	96079	12.56	99167	17.06	69995	19.37
CLJ44-CU-003	28952	5.09	100403	7.13	57397	10.09	92692	12.55	96625	17.06	66712	19.37
CLJ44-CU-004	31109	5.09	104920	7.13	61421	10.09	100521	12.55	102244	17.06	72902	19.38
CLJ44-CU-005	30021	5.09	103758	7.14	60128	10.09	96137	12.56	97015	17.06	70167	19.38
CLJ44-CU-006-RB	28283	5.09	98495	7.13	56821	10.09	91720	12.55	91337	17.06	61263	19.37
CLJ44-007-FB	27556	5.09	95771	7.13	54655	10.09	89437	12.55	89712	17.06	62389	19.38

IS1 (DCB) = 1,4-Dichlorobenzene-d4

UPPER LIMIT = + 100%

IS2 (NPT) = Naphthalene-d8

of internal standard area.

IS3 (ANT) = Acenaphthene-d10

LOWER LIMIT = - 50%

IS4 (PHN) = Phenanthrene-d10

of internal standard area.

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

Column used to flag internal standard area values outside of UPPER and LOWER LIMIT with an asterisk

SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: PACE New England

Contract:

Lab Code: RESAN Case No.: OHMRC

SAS No.:

SDG No.: LUN09

Lab File ID (Standard): >H8754

Date Analyzed: 08/10/95

Instrument ID: HMS

Time Analyzed: 08:55

	IS1(DCB)		IS2(NPT)		IS3(ANT)		IS4(PHN)		IS5(CRY)		IS6(PRY)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	30924	7.22	112096	9.23	59703	12.09	107344	14.51	86272	18.89	101061	22.06
UPPER LIMIT	61848	7.72	224192	9.73	119406	12.59	214688	15.01	172544	19.39	202122	22.56
LOWER LIMIT	15462	6.72	56048	8.73	29852	11.59	53672	14.01	43136	18.39	50531	21.56
CLIENT I.D.												

IS1 (DCB) = 1,4-Dichlorobenzene-d4

UPPER LIMIT = + 100%

IS2 (NPT) = Naphthalene-d8

of internal standard area.

IS3 (ANT) = Acenaphthene-d10

LOWER LIMIT = - 50%

IS4 (PHN) = Phenanthrene-d10

of internal standard area.

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

Column used to flag internal standard area values outside of UPPER and LOWER LIMIT with an asterisk

SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: PACE New England

Contract:

Lab Code: RESAN

Case No.: OHMRC

SAS No.:

SDG No.: LJN09

Lab File ID (Standard): >H8775

Date Analyzed: 08/11/95

Instrument ID: HMS

Time Analyzed: 07:35

	IS1(DCB)		IS2(NPT)		IS3(ANT)		IS4(PHN)		IS5(CRY)		IS6(PRY)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	34032	7.20	117385	9.20	64043	12.07	104190	14.48	104059	18.86	86420	21.99
UPPER LIMIT	68064	7.70	234770	9.70	128086	12.57	208380	14.98	208118	19.36	172840	22.49
LOWER LIMIT	17016	6.70	58693	8.70	32022	11.57	52095	13.98	52030	18.36	43210	21.49
CLIENT I.D.												
CLJ44-CC-025	29170	7.20	100285	9.20	52119	12.06	81947	14.47	86070	18.83	67097	21.95
CLJ44-CU-012	29795	7.20	97429	9.21	50313	12.07	81223	14.48	88095	18.84	68259	21.96
CLJ44-CU-013	28215	7.21	93959	9.20	49764	12.08	80658	14.47	86255	18.84	67224	21.96
BA2290	28692	7.19	93888	9.19	48460	12.06	79417	14.47	87136	18.83	69266	21.95
LSA2290	28520	7.22	96886	9.21	51850	12.09	84236	14.50	89751	18.86	73078	21.98
CLJ44-CU-014-RB	29880	7.20	101607	9.20	52117	12.07	80961	14.48	85582	18.84	67837	21.96
BA2398	29996	7.19	99045	9.19	52907	12.07	86176	14.47	90731	18.84	72497	21.96
LSA2398	29825	7.20	101083	9.19	53836	12.07	87055	14.48	89888	18.83	72312	21.96

IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

UPPER LIMIT = + 100%

of internal standard area.

LOWER LIMIT = - 50%

of internal standard area.

Column used to flag internal standard area values outside of UPPER and LOWER LIMIT with an asterisk

Initial Calibration Data
HSL Compounds

Case No: Instrument ID: FMS-HP

Contractor: PES-N PAUL, INC. Calibration Date: 04/20/95

Contract No:

Minimum RF for SPOC is 0.05 Maximum % RSD for CCC is 30%

Compound	Laboratory ID: >F1706 >F1705 >F1704 >F1703 >F1762					RRT	RF	% RSD	CCC	SPOC
	RF	RF	RF	RF	RF					
0510 N-NITROSOIMETHYLAMINE	1.01764	.97949	.99841	1.03888	1.00652	.509	1.00619	2.192		
0550 2-FLUOROPHENOL	1.52563	1.45108	1.47297	1.52384	1.45501	.750	1.48572	2.463		
0645 PHENOL-d5	1.90762	1.78432	1.78655	1.80839	1.69409	.925	1.79619	4.242		
0570 2-CHLOROPHENOL-d4	1.65029	1.54524	1.50488	1.49522	1.40958	.960	1.52116	5.768		
0675 1,2-DICHLOROBENZENE-d4	1.06747	.96261	.91001	.90651	.79360	1.040	.92864	10.596		
0315 PHENOL	1.95741	1.86327	1.84370	1.86944	1.74119	.928	1.85490	4.170	*	
0320 ANILINE	2.25480	2.04616	2.10670	2.12844	2.28754	.937	2.14433	3.578		
0325 BIS(2-CHLOROETHYL) ETHER	1.78999	1.73988	1.68067	1.51544	1.51416	.947	1.64384	7.689		
0330 2-CHLOROPHENOL	1.83489	1.52757	1.50260	1.49044	1.38423	.964	1.50795	5.944		
0335 1,3-DICHLOROBENZENE	1.81971	1.69799	1.68691	1.70529	1.56896	.993	1.69577	5.750		
0340 1,4-DICHLOROBENZENE	1.79747	1.68553	1.61158	1.59745	1.43418	1.003	1.62574	8.147	*	
0345 BENZYL ALCOHOL	.95895	.90378	.90572	.93297	.68772	1.027	.91821	3.273		
0350 1,2-DICHLOROBENZENE	1.71844	1.54848	1.47023	1.44360	1.31516	1.043	1.49667	9.906		
0355 2-METHYLPHENOL	1.41320	1.51107	1.39398	1.30042	1.24578	1.049	1.51279	4.688		
0360 BIS(2-CHLOROETHOXY) ETHER	2.48001	2.41007	2.50286	2.63256	2.57759	1.060	2.52310	3.736		
0365 4-METHYLPHENOL	1.50539	1.40440	1.38480	1.44142	1.36584	1.079	1.42221	5.966		
0370 N-NITROSO-DL-N-PROPYLEAMINE	1.12456	1.07052	1.11238	1.11852	1.08531	1.090	1.10362	2.158		**
0375 HEXACHLOROCYCLOHEXANE	.75336	.71330	.71899	.73425	.67550	1.109	.72168	4.010		
0410 NITROBENZENE	.49756	.46072	.45797	.44232	.42270	.883	.45639	6.053		
0415 ISOPHORONE	1.09604	.99373	.98187	.98056	.93122	.922	1.00018	5.552		
0510 NITROBENZENE-d5	.46105	.44510	.44234	.43165	.41519	.880	.43871	3.641		
0420 2-NITROPHENOL	.25204	.23827	.22772	.22391	.20291	.936	.23317	7.069	*	
0425 2,4-DIMETHYLPHENOL	.47190	.41647	.40204	.38389	.36252	.937	.40681	10.127		
0430 BENZOIC ACID	.17553	.19730	.20067	.20911	.20776	.959	.15669	7.394		
0435 BIS(2-CHLOROETHOXY)METHANE	.63615	.57525	.55574	.55119	.50948	.954	.56556	8.162		
0440 2,4-DICHLOROPHENOL	.38067	.35872	.35162	.34531	.33061	.975	.35343	5.202	*	
0445 1,2,4-TRICHLOROBENZENE	.43186	.39066	.37873	.36260	.34166	.992	.38110	3.844		
0450 NAPHTHALENE	1.27637	1.13882	1.07331	1.02632	.96434	1.094	1.09445	10.962		
0455 4-CHLOROANILINE	.55223	.50079	.48993	.48406	.45820	1.010	.49704	6.961		
0460 HEXACHLOROBUTADIENE	.23955	.21287	.21299	.19565	.18626	1.033	.20950	9.702	*	

RF - Response Factor (Subscript is amount in ug/mL)

RRT - Average Relative Retention Time (RT Std/RT Istd)

RF - Average Response Factor

%RSD - Percent Relative Standard Deviation

CCC - Calibration Check Compounds (*) SPOC - System Performance Check Compounds (**)

Initial Calibration Data

45% Compounds

Case No:

Increment ID: FDS-9P

Contract: PEPON PAGE, INC.

Calibration Date: 04/20/95

Contract Ref:

Minimum RF for SPC is 0.95

Maximum % RSD for SPC is 7.0%

Compound	Laboratory ID: #F1700					RRT	RF	% RSD	CCC	SPCC
	RF	RF	RF	RF	RF					
	20.00	50.00	100.00	120.00	160.00					
0400 4-FLUOROP-5-METHYLPHENOL	1.42870	1.39884	1.59161	1.38677	1.36889	1.089	1.59478	5.512	*	
0401 2-METHYLNAPHTHALENE	1.81298	1.15440	1.88157	1.64891	1.99506	1.121	1.88980	11.824		
0402 2,4,6-TRIBROMOPHENOL	1.23933	1.23807	1.22758	1.23431	1.22613	1.105	1.23349	2.368		
0403 3-FLUOROBIPHENYL	1.16140	1.44498	1.54275	1.12820	1.11394	1.007	1.35621	15.875		
0404 HEXACHLOROCYCLOPENTADIENE	1.11000	1.59740	1.55059	1.58147	1.77186	1.878	1.54668	6.392	**	
0405 2,4,6-TRICHLOROPHENOL	1.18111	1.49111	1.47714	1.47078	1.44020	1.197	1.47697	5.310	*	
0406 2,4,6-TRICHLOROPHENOL	1.58712	1.61938	1.47996	1.48776	1.44021	1.102	1.49748	8.403		
0407 3-ETHYLNAPHTHALENE	1.44144	1.28677	1.20259	1.16204	1.04811	1.123	1.22798	12.076		
0408 1-NITROIMIDAZOLE	1.55821	1.55791	1.50362	1.53450	1.53756	1.137	1.55074	1.610		
0409 3-NITRO-1,4-BENZOATE	1.13582	1.18013	1.10767	1.15816	1.145196	1.112	1.16275	6.814		
0410 1,4-DIETHYLBENZENE	2.107487	2.106901	1.99812	1.97571	1.93580	1.100	1.94701	11.114		
0411 1-NITROIMIDAZOLE	1.45437	1.45447	1.44399	1.44300	1.42391	1.102	1.44568	3.547		
0412 3-NITROIMIDAZOLE	1.13713	1.19382	1.12987	1.10170	1.12187	1.100	1.12513	15.673	*	
0413 2,4-DINITROPHENOL	1.19135	1.12678	1.19738	1.17741	1.03794	1.105	1.17621	14.813	**	
0414 4-NITROIMIDAZOLE	1.21704	1.21737	1.21794	1.21401	1.19464	1.100	1.20821	1.687	**	
0415 3-NITROIMIDAZOLE	1.18722	1.16801	1.14591	1.16489	1.18777	1.023	1.17000	11.860		
0416 2,4-DINITROPHENOL	1.11856	1.11103	1.11916	1.11442	1.11417	1.071	1.11111	7.581		
0417 2,4-DINITROPHENOL	1.59166	1.59229	1.59336	1.59514	1.59171	1.107	1.59286	6.702		
0418 3-NITROIMIDAZOLE	1.19718	1.18194	1.17280	1.17762	1.14061	1.105	1.17315	13.117		
0419 4-ETHYLNAPHTHALENE	1.93130	1.72189	1.61015	1.67799	1.59102	1.067	1.69500	14.840		
0420 4-FLUOROP	1.15016	1.14640	1.12417	1.11917	1.11171	1.071	1.11802	12.874		
0421 4-NITROIMIDAZOLE	1.47112	1.45411	1.48111	1.45887	1.45887	1.015	1.46874	3.316		
0422 4,4-DIMETHYL-1-NITROBENZENE	1.19218	1.11927	1.11761	1.11781	1.11944	1.107	1.11987	11.974		
0423 4-NITROBIPHENYL	1.69346	1.67709	1.63424	1.67746	1.62163	1.068	1.61171	10.894	*	
0424 4-NITROIMIDAZOLE	1.24893	1.23179	1.23040	1.11694	1.17957	1.110	1.22747	8.709		
0425 4-BROMOPHENYL-PHENYLETHANOL	1.06711	1.01028	1.04271	1.04180	1.02123	1.046	1.04501	5.897		
0426 HEXACHLOROBENZENE	1.36140	1.34391	1.33235	1.31675	1.30773	1.166	1.33274	6.277		
0427 2-NITROFLUOROPHENOL	1.17967	1.18918	1.19344	1.20014	1.19108	1.084	1.19072	5.213	*	
0428 PHENANTHRENE	1.39896	1.29232	1.23909	1.18432	1.09614	1.005	1.24217	9.159		
0429 ANTHRACENE	1.42970	1.32383	1.24930	1.19263	1.08792	1.008	1.25668	13.395		

RF - Response Factor (Subscript is amount in ug/mL)

RRT - Average Relative Retention Time (RT Std/RT Istd)

RF - Average Response Factor

%RSD - Percent Relative Standard Deviation

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

Initial Calibration Data
HSL Compounds

Case No: _____ Instrument ID: FMS-HP

Contractor: KESHA PAUL, INC. Calibration Date: 04/20/95

Contract No: _____

Minimum RF for SPCC is 0.05 Maximum % RSD for CCC is 30%

Compound	Laboratory ID: >F1706 >F1705 >F1704 >F1703 >F1702					RRT	RF	% RSD	CCC	SPCC
	RF	RF	RF	RF	RF					
0650 DI-N-BUTYLPHTHALATE	2.08229	1.98518	1.83744	1.77921	1.61915	1.060	1.86065	9.694		
0655 FLUORANTHENE	1.52143	1.43066	1.34339	1.26458	1.20161	1.136	1.35233	9.443	*	
0660 BENZIGINE	.26828	.30499	.29944	.32164	.29674	1.145	.30222	4.109		
0530 TERPHENYL-C14	1.04000	.91918	.90909	.86200	.81167	.882	.90639	9.365		
0715 PYRENE	1.63812	1.47607	1.41391	1.33872	1.30256	.874	1.43987	10.014		
0720 BUTYL BENZYLPHTHALATE	1.07573	.99121	.94311	.92587	.86712	.927	.96061	8.138		
0725 1,3-DICHLOROBENZIGINE	.52682	.50299	.50102	.47968	.45127	.990	.46236	5.267		
0730 SINDIACETAMIDISADENE	1.39773	1.35119	1.29934	1.26525	1.25748	.597	1.31401	4.552		
0740 BIS(2-ETHYLHEXYL)PHTHALATE	1.32719	1.18559	1.14565	1.04533	.91098	.992	1.12267	13.890		
0740 DAPHNE	1.40505	1.26547	1.23707	1.20493	1.12465	1.004	1.24751	8.231		
0760 DI-N-OCTYLPHTHALATE	3.33933	3.20195	3.23963	3.15406	2.87452	.859	3.16166	5.521	*	
0765 BENZO(B)FLUORANTHENE	2.16909	1.96059	1.85129	1.85074	1.68640	.936	1.89142	9.250		
0770 BENZO(K)FLUORANTHENE	1.45307	1.45613	1.52451	1.44958	1.43123	.937	1.43269	2.445		
0775 BENZO(G)FLUORANTHENE	1.55650	1.55809	1.55727	1.52746	1.46055	.990	1.52398	7.423	*	
0780 INDENO(1,2,3-CD)PERENE	1.65748	1.67321	1.63172	1.55989	1.57293	1.299	1.63345	2.421		
0785 DI-BENZO(A,H)ANTHRALENE	1.32158	1.34253	1.31792	1.35045	1.29059	1.162	1.32457	1.771		
0790 BENZO(G,H)PHTERYLENE	1.35392	1.37477	1.31481	1.35048	1.29148	1.334	1.35511	2.776		

RF - Response Factor (Subscript is amount in ug/mL)

RRT - Average Relative Retention Time (RT Std/RT Istd)

RF - Average Response Factor

%RSD - Percent Relative Standard Deviation

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

Initial Calibration Data
HSL Compounds

Case No: _____ Instrument ID: HMS-HF
 Contractor: PACE, INC. Calibration Date: 08/10/95
 Contract No: _____

Minimum RF for SPCC is .05 Maximum % RSD for CCC is 30%

Compound	Laboratory ID: >H8758 >H8757 >H8756 >H8755 >H8754					RRT	RF	% RSD	CCC	SPCC
	RF	RF	RF	RF	RF					
	20.00	50.00	80.00	120.00	160.00					
C310 N-NITROSODIMETHYLAMINE	.78952	.82818	.81636	.82583	.84814	.501	.82161	2.598		
C550 2-FLUDROPHENOL	1.32477	1.36126	1.34128	1.36827	1.36689	.749	1.35249	1.397		
C545 PHENOL-d5	1.61943	1.66316	1.62659	1.65894	1.63747	.934	1.64112	1.179		
C570 2-CHLOROPHENOL-d4	1.42596	1.42674	1.40202	1.39882	1.39802	.962	1.41031	1.044		
C575 1,2-DICHLOROBENZENE-d4	.92685	.89987	.86056	.84000	.81430	1.041	.86712	5.003		
C315 PHENOL	1.72486	1.71988	1.69397	1.71078	1.72246	.937	1.71439	.735	*	
C320 ANILINE	1.42590	1.45993	1.40253	1.35110	1.22789	.939	1.37347	6.589		
C325 BIS(2-CHLOROETHYL)ETHER	1.45777	1.44561	1.46596	1.60539	1.72295	.951	1.53954	7.882		
C330 2-CHLOROPHENOL	1.43133	1.43881	1.38991	1.39536	1.37139	.965	1.40536	2.039		
C335 1,3-DICHLOROBENZENE	1.58642	1.58049	1.52211	1.50250	1.46970	.993	1.53224	3.290		
C340 1,4-DICHLOROBENZENE	1.56843	1.54708	1.47243	1.46028	1.43978	1.003	1.49760	3.782	*	
C345 BENZYL ALCOHOL	.82435	.85139	.84324	.85173	.83499	1.034	.84114	1.383		
C350 1,2-DICHLOROBENZENE	1.48992	1.45968	1.36086	1.34383	1.32861	1.044	1.39658	5.234		
C355 2-METHYLPHENOL	1.14143	1.17212	1.14948	1.14758	1.13040	1.058	1.14820	1.333		
C360 BIS(2-CHLOROISOPROPYL)ETH	1.87015	1.85922	1.81233	1.79993	1.79160	1.064	1.82665	1.955		
C365 4-METHYLPHENOL	1.23357	1.25934	1.23262	1.27525	1.28665	1.091	1.25749	1.932		
C370 N-NITROSO-DI-N-PROPYLAMIN	1.02963	1.06867	1.07902	1.07674	1.11469	1.099	1.07375	2.827	**	
C375 HEXACHLOROBETHANE	.80925	.80701	.77767	.77882	.77281	1.110	.78911	2.220		
E410 NITROBENZENE	.49768	.50072	.47503	.46714	.48522	.883	.48916	2.109		
E415 ISOPHORONE	.93600	.92974	.89797	.92836	.91886	.925	.92099	1.483		
C520 NITROBENZENE-d5	.49564	.50297	.47815	.49228	.48915	.880	.49164	1.856		
C420 2-NITROPHENOL	.23296	.24014	.22955	.23439	.22715	.937	.23284	2.135	*	
E425 2,4-DIMETHYLPHENOL	.50348	.49324	.46723	.47252	.47559	.944	.48241	3.170		
C430 BENZOIC ACID	.19665	.21361	.20249	.20441	.19728	.972	.20289	3.376		
E435 BIS(2-CHLOROETHOXY)METHAN	.55458	.55438	.53110	.54427	.53725	.959	.54432	1.907		
C440 2,4-DICHLOROPHENOL	.35021	.34949	.32233	.31795	.31485	.978	.33097	5.271	*	
C445 1,2,4-TRICHLOROBENZENE	.38829	.37597	.35636	.34524	.33843	.992	.36086	5.794		
C450 NAPHTHALENE	1.12174	1.08572	1.04297	1.04193	.97750	1.004	1.05397	5.135		
C455 4-CHLORANILINE	.42985	.42790	.41831	.42117	.41800	1.014	.42305	1.301		
C460 HEXACHLOROBUTADIENE	.29169	.27260	.24401	.22773	.22265	1.034	.25174	11.774	*	

RF - Response Factor (Subscript is amount in ug/ml)

RRT - Average Relative Retention Time (RT Std/RT Istd)

RF - Average Response Factor

%RSD - Percent Relative Standard Deviation

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

Initial Calibration Data
HSL Compounds

Case No: _____ Instrument ID: HMS-HP
 Contractor: PACE, INC. Calibration Date: 08/10/95
 Contract No: _____

Minimum RF for SPCC is .05 Maximum % RSD for CCC is 30%

Compound	Laboratory ID: >H8758 >H8757 >H8756 >H8755 >H8754					RRT	RF	% RSD	CCC	SPCC
	RF 20.00	RF 50.00	RF 80.00	RF 120.00	RF 160.00					
C465 4-CHLORO-3-METHYLPHENOL	.44723	.43717	.41067	.40798	.40801	1.098	.42221	4.410	*	
C470 2-METHYLNAPHTHALENE	.68119	.65400	.62447	.60669	.60565	1.124	.63440	5.148		
C555 2,4,6-TRIBROMOPHENOL	.38696	.37960	.38125	.37089	.37175	1.108	.37809	1.789		
C525 2-FLUOROBIPHENYL	1.48494	1.39867	1.28884	1.23542	1.24291	.908	1.33016	8.144		
C510 HEXACHLOROCYCLOPENTADIENE	.29497	.36752	.37756	.37516	.38834	.887	.36071	10.396		**
C515 2,4,6-TRICHLOROPHENOL	.50295	.48534	.45878	.44355	.43589	.898	.46530	6.078	*	
C520 2,4,5-TRICHLOROPHENOL	.56154	.53700	.50666	.48948	.46875	.904	.51269	7.221		
C525 2-CHLORONAPHTHALENE	1.31139	1.24220	1.16172	1.14035	1.11852	.923	1.19484	6.711		
C530 2-NITROANILINE	.64039	.63980	.62574	.63665	.64582	.939	.63768	1.168		
C535 DIMETHYLPHTHALATE	1.82843	1.73487	1.66252	1.62587	1.64392	.967	1.69912	4.902		
C540 ACENAPHTHYLENE	2.07039	1.99434	1.89359	1.82694	1.80238	.980	1.91753	5.906		
C545 3-NITROANILINE	.42056	.42761	.41908	.42707	.42177	.996	.42322	.918		
C550 ACENAPHTHENE	1.35710	1.26713	1.21880	1.16570	1.18532	1.005	1.23881	6.174	*	
C555 2,4-DINITROPHENOL	.16937	.24387	.26177	.26854	.27012	1.009	.24273	17.432		**
C560 4-NITROPHENOL	.40781	.42096	.41688	.42541	.46914	1.019	.42804	5.578		**
C565 DIBENZOFURAN	1.92874	1.78039	1.72186	1.69630	1.70718	1.027	1.76689	5.440		
C543 2,6-DINITROTOLUENE	.41225	.41794	.40162	.37485	.37178	.977	.39569	5.376		
C570 2,4-DINITROTOLUENE	.59168	.59648	.58725	.60268	.60768	1.030	.59715	1.375		
C580 DIETHYLPHTHALATE	2.14272	1.99271	1.90195	1.87447	1.92349	1.064	1.96707	5.465		
C585 4-CHLOROPHENYL-PHENYLETHE	.75441	.65511	.58978	.54436	.51046	1.072	.61082	15.854		
C590 FLUORENE	1.45597	1.30402	1.23312	1.17754	1.21006	1.074	1.27614	8.678		
C595 4-NITROANILINE	.40420	.42887	.45624	.45744	.46971	1.083	.44329	5.971		
C610 4,6-DINITRO-2-METHYLPHEND	.17702	.20566	.20266	.19392	.16608	.907	.18907	8.996		
C615 N-NITROSODIPHENYLAMINE	.59931	.56304	.53702	.51285	.49584	.908	.54161	7.575	*	
C620 AZOBENZENE	.23072	.21988	.20782	.19360	.16492	.912	.20339	12.569		
C625 4-BROMOPHENYL-PHENYLEETHER	.27717	.25936	.24407	.23601	.22363	.948	.24805	8.392		
C630 HEXACHLOROBENZENE	.42468	.39634	.37265	.34970	.34505	.966	.37768	8.812		
C635 PENTACHLOROPHENOL	.26208	.26869	.26349	.26188	.25808	.986	.26284	1.458	*	
C640 PHENANTHRENE	1.26437	1.17967	1.11818	1.07759	1.06656	1.003	1.14127	7.172		
C645 ANTHRACENE	1.26256	1.18069	1.11580	1.05482	1.03232	1.008	1.12924	8.347		

RF - Response Factor (Subscript is amount in ug/ml)

RRT - Average Relative Retention Time (RT Std/RT Istd)

RF - Average Response Factor

%RSD - Percent Relative Standard Deviation

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

Initial Calibration Data
HSL Compounds

Case No: _____ Instrument ID: HMS-HP
 Contractor: PACE, INC. Calibration Date: 08/10/95
 Contract No: _____

Minimum RF for SPCC is .05 Maximum % RSD for CCC is 30%

Compound	Laboratory ID: >H8758 >H8757 >H8756 >H8755 >H8754					RRT	RF	% RSD	CCC	SPCC
	RF	RF	RF	RF	RF					
	20.00	50.00	80.00	120.00	160.00					
C650 DI-N-BUTYLPHthalate	2.08964	1.95774	1.83242	1.55975	1.50596	1.069	1.78910	14.068		
C655 FLUORANTHENE	1.42196	1.31925	1.24199	1.14425	1.16702	1.138	1.25890	9.066	*	
C660 BENZIDINE	.12899	.14550	.15186	.15872	.13931	1.150	.14487	7.901		
C930 TERPHENYL-d14	.93665	.86989	.88597	.90250	.95891	.907	.91078	4.012		
C715 PYRENE	1.29814	1.25145	1.26392	1.34911	1.47191	.894	1.32691	6.742		
C720 BUTYLBENZYLPHthalate	.94955	.89635	.92238	.97282	1.05611	.951	.95944	6.378		
C725 3,3'-DICHLORO BENZIDINE	.53313	.52963	.50222	.50296	.48635	.997	.51086	3.897		
C730 BENZO(A)ANTHRACENE	1.26293	1.22516	1.17202	1.17766	1.24897	.999	1.21735	3.379		
C745 BIS(2-ETHYLHEXYL)PHthalat	1.17932	1.13910	1.06921	1.08969	1.20268	1.002	1.13600	5.006		
C740 CHRYSENE	1.15355	1.07701	1.06484	1.12623	1.21815	1.003	1.12796	5.496		
C760 DI-N-OCTYLPHthalate	2.92894	2.71411	2.58821	2.37744	2.28748	.910	2.57923	10.006	*	
C765 BENZO(B)FLUORANTHENE	1.64726	1.53698	1.97354	1.94591	1.95653	.956	1.81204	11.299		
C770 BENZO(K)FLUORANTHENE	1.42049	1.39546	.81647	.72613	.67327	.959	1.00636	36.794		
C775 BENZO(A)PYRENE	1.34734	1.32355	1.28587	1.27580	1.26465	.994	1.29944	2.674	*	
C780 INDENO(1,2,3-CD)PYRENE	1.75329	1.75579	1.77747	1.78777	1.75666	1.172	1.76219	1.156		
C705 DIBENZ(A,H)ANTHRACENE	-	1.42549	1.43882	1.45538	1.43663	1.176	1.43908	.857		
790 BENZO(G,H,I)PERYLENE	1.41428	1.42961	1.47130	1.49151	1.45369	1.222	1.45208	2.139		

RF - Response Factor (Subscript is amount in ug/ml)

RRT - Average Relative Retention Time (RT Std/RT Istd)

RF - Average Response Factor

%RSD - Percent Relative Standard Deviation

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

Continuing Calibration Check
HPL Compounds

Case No: _____ Calibration Date: 07/25/95
 Contractor: NESAN PAGE, INC. Time: 08:49
 Contract No: _____ Laboratory ID: >F2175
 Instrument ID: FMS-4P Initial Calibration Date: 04/26/95

Minimum RF for SPCC is 0.05 Maximum % Diff for CCC is 30%

Compound	RF	RF	%Diff	CCC SPCC
0310 N-NITROSDIMETHYLAMINE	1.00819	.92558	8.19	
0350 2-FLUOROPHENOL	1.48572	1.65673	11.51	
0345 PHENOL-d5	1.79619	1.95492	8.84	
0370 7-CHLOROPHENOL-d4	1.52116	1.43224	5.85	
0375 1,2-DICHLOROBENZENE-d4	.57864	.91564	1.40	
0315 PHENOL	1.85490	1.87105	.91	*
0370 ANILINE	2.14433	1.97476	10.26	
0345 BIS(2-CHLOROETHYL)ETHER	1.64684	2.11970	29.95	
0350 2-CHLOROPHENOL	1.50795	1.56713	3.89	
0335 1,3-DICHLOROBENZENE	1.69577	1.82981	3.89	
0340 1,4-DICHLOROBENZENE	1.62874	1.71743	5.64	*
0345 BENZYL ALDEHYDE	.91821	.96501	4.88	
0350 1,2-DICHLOROBENZENE	1.49557	1.52132	1.51	
0355 2-METHYLPHENOL	1.51279	1.55432	19.40	
0360 BIS(2-CHLOROETHYL)ETH	2.57310	3.35730	37.27	
0365 4-METHYLPHENOL	1.42221	1.65423	16.31	
0370 N-NITROSO-DI-N-PROPYLENIN	1.10302	1.11347	.89	**
0375 HEXACHLOROCYCLANE	.72168	.77470	7.55	
0410 NITROBENZENE	.45629	.43930	3.70	
0415 ISOPHORONE	1.00068	.97577	7.47	
0370 NITROBENZENE-d5	.43801	.45386	1.11	
0420 2-NITROPHENOL	.33017	.27140	17.91	*
0425 2,4-DIMETHYLPHENOL	.40651	.38956	1.78	
0430 BENZOIC ACID	.19669	.09780	50.28	
0435 BIS(2-CHLOROETHOXY)METHAN	.56556	.58665	3.75	
0440 2,4-DICHLOROPHENOL	.55543	.53272	5.86	*
0445 1,2,4-TRICHLOROBENZENE	.36110	.33497	11.58	
0450 NAPHTHALENE	1.09443	1.03571	5.57	
0455 4-CHLOROANILINE	.49704	.48072	3.28	
0460 HEXACHLOROBUTADIENE	.20950	.16281	22.29	*
0465 4-CHLORO-3-METHYLPHENOL	.39478	.36533	7.46	*
0470 2-METHYLNAPHTHALENE	.68980	.94732	37.33	

RF - Response Factor from daily standard file at 50.00 ug/ml

RF - Average Response Factor from Initial Calibration Form VI

%Diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

Continuing Calibration Check
45L Compounds

Case No: Calibration Date: 07/26/95
 Extractor: CESAR PADE, INC Time: 08:49
 Contract No: Laboratory ID: 9F2175
 Instrument ID: FMS-HP Initial Calibration Date: 04/20/95

Minimum RF for SPC is 0.05 Maximum % Diff for CCC is 30%

Compound	RF	RF	%Diff	CCC	SPC
0500 2,4,6-TRICHLOROPHENOL	.13249	.13953	14.17		
0507 2-FLUOROBIPHENYL	1.35621	1.15061	15.15		
0510 HEXACHLOROCYCLOPENTADIENE	.74669	.25104	27.50	**	
0513 2,4,6-TRICHLOROPHENOL	.47655	.35877	16.36	*	
0519 2,4,6-TRICHLOROPHENOL	.49703	.77745	24.11		
0525 2-ETHYLPHENYLACETIC ACID	1.73275	1.19070	3.84		
0530 2-NITROPHENOL	.15204	.11532	0.00		
0535 2-NITROPHENOL	1.02375	1.41912	12.40		
0540 4-NITROPHENOL	1.84701	1.70779	11.49		
0545 2-NITROPHENOL	.44559	.41120	7.73		
0550 2-NITROPHENOL	1.37517	1.31713	1.89	*	
0555 2-NITROPHENOL	.11637	.27721	44.14	**	
0560 4-NITROPHENOL	.31301	.32247	2.51	**	
0565 1,1-DICHLOROETHANE	1.78930	1.11120	0.17		
0570 1,1-DICHLOROETHANE	.41739	.41177	6.14		
0575 2,4-DINITROPHENOL	.40261	.63701	27.18		
0580 DIMETHYLGLYCOLATE	1.75355	1.21101	13.84		
0585 4-CHLOROPHENYLENEACETIC ACID	.59300	1.31877	3.74		
0590 FLUOROPHENOL	1.32301	1.45014	17.94		
0595 4-METHYLPHENOL	.46574	.51836	11.07		
0600 4,4-DINITRO-2-ETHYLPHENOL	1.33851	.32377	15.14		
0605 4-NITROPHENYLENEACETIC ACID	.11037	.74897	11.07	*	
0610 4-NITROPHENOL	.22547	.16440	16.69		
0625 4-BROMOPHENYLENEACETIC ACID	.14301	.130901	13.07		
0630 HEXACHLOROCYCLOPENTADIENE	.85074	.12361	41.45		
0635 PENTACHLOROPHENOL	.11070	.13730	17.42	*	
0640 PHENANTHRENE	1.02217	1.21510	2.13		
0645 ANTHRACENE	1.25113	1.19189	5.13		
0650 DI-N-BUTYLPHTHALATE	1.86068	1.79446	5.52		
0655 FLUORANTHRENE	1.33233	1.37500	1.68	*	
0660 BENZIDINE	.30222	.13479	55.40		
0670 TERPHENYL-d14	.93839	1.01242	11.45		

RF - Response Factor from daily standard file at 50.00 ug/mL

RF - Average Response Factor from Initial Calibration Form VI

%Diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPC - System Performance Check Compounds (**)

Continuing Calibration Check
HSL Compounds

Case No: _____ Calibration Date: 07/25/95
 Contractor: REGAN PAGE, INC. Time: 08:49
 Contract No: _____ Laboratory ID: >F2175
 Instrument ID: FMS-RP Initial Calibration Date: 04/20/95

Minimum RF for SPCC is 0.05 Maximum % Diff for CCC is 30%

Compound	RF	RF	%Diff	CCC SPCC
0715 PYRENE	1.43987	1.63638	13.65	
0720 BUTYLBENZYLPHTHALATE	.96061	1.07477	11.88	
0725 3,3'-DICHLOROBENZIDINE	.49236	.46696	5.16	
0730 BENZ(a)ANTHRACENE	1.31421	1.36962	4.22	
0745 BIS(2-ETHYLHEXYL)PHTHALAT	1.12267	1.34195	19.53	
0740 CHRIFENE	1.24751	1.41034	13.05	
0760 DI-N-OCTYLPHTHALATE	3.16186	2.62885	16.86 *	
0765 BENZO(b)FLUORANTHENE	1.49242	1.85530	1.96	
0770 BENZO(k)FLUORANTHENE	1.44389	1.13535	22.39	
0775 BENZO(h)PERENE	1.52348	1.43540	5.81 *	
0780 INDEN(1,2,3-cd)PERENE	1.63845	1.66963	1.88	
0785 BENZO(a,h)ANTHRACENE	1.32457	1.34815	1.77	
0790 BENZO(g,h,i)PERYLENE	1.55511	1.44912	6.54	

RF - Response Factor from daily standard file at 50.00 ug/ml

RF - Average Response Factor from Initial Calibration Form VI

%Diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

Continuing Calibration Check
 65 Compounds

Case No: _____ Calibration Date: 03/08/95
 Contractor: NESAN PAGE, INC. Time: 03:36
 Contract No: _____ Laboratory ID: >F2295
 Ident. Sect. ID: FMS-RF Initial Calibration Date: 04/20/95

Minimum RF for SPC is 0.05 Maximum % Diff for CCC is 30%

Compound	RF	RF	%Diff	CCC SPC
0110 N-NITROSO-DIMETHYLAMINE	1.00819	.92540	8.21	
0360 2-FLUOROPHENOL	1.48572	1.54169	3.77	
0345 PHENOL-85	1.79619	1.80607	.55	
0370 3-CHLOROPHENOL-84	1.52116	1.41869	6.72	
0375 1,2-DICHLOROBENZENE-84	.92864	.88586	4.82	
0315 PHENOL	1.68450	1.73076	6.72	*
0320 ANILINE	2.14483	1.64751	23.17	
0325 0,6-DI(2-CHLOROPHENOXY)ETHANE	1.64166	1.31674	20.69	
0330 1-CHLOROPHENOL	1.50493	1.46637	2.76	
0335 1,3-DICHLOROBENZENE	1.63577	1.65841	2.47	
0340 1,4-DICHLOROBENZENE	1.67574	1.65960	2.10	*
0345 0,6-DI(1-CHLOROPHENOXY)ETHANE	.91621	.87941	3.72	
0350 1,3-DICHLOROPHENOL	1.45887	1.51697	5.56	
0355 2,6-DICHLOROPHENOL	1.51228	1.51072	0.10	
0365 0,6-DI(2-FLUOROPHENOXY)ETHANE	2.12310	3.15009	24.85	
0368 4-NITROPHENOL	1.42021	1.46727	4.57	
0375 N-NITROSO-DI-N-PROPYLENEGLYCOLAMINE	1.10361	1.64101	5.76	**
0375 NITROCHLOROBENZENE	.72166	.77260	7.11	
0410 NITROBENZENE	1.45547	1.40367	11.55	
0415 1,3-DIBENZENE	1.09087	.88919	18.67	
0418 NITROBENZENE-85	.41807	.41489	3.54	
0420 1-NITROPHENOL	1.63017	1.27931	19.14	*
0425 2,4-DINITROCHLOROPHENOL	1.40681	1.68159	6.20	
0430 BENZOTRIAZOLE	1.19667	1.51071	53.80	
0435 0,6-DI(2-CHLOROPHENOXY)ETHANOL	.65596	.53029	1.98	
0440 2,4-DICHLOROPHENOL	.55345	1.32118	5.12	*
0445 1,2,4-TRICHLOROIMIDAZINE	.98114	1.35061	13.25	
0450 NAFTHALENE	1.09443	1.01961	7.20	
0455 4-CHLOROANILINE	1.49704	1.43684	12.13	
0460 HEXACHLOROCYCLOHEPTADIENE	.20950	1.15526	25.89	*
0465 4-CHLORO-3-METHYLPHENOL	.59478	1.32202	18.43	*
0470 2-METHYLNAPHTHALENE	.68980	1.89330	29.50	

RF - Response Factor from daily standard file at 50.00 ug/mL

RF - Average Response Factor from Initial Calibration Form VI

%Diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPC - System Performance Check Compounds (**)

Continuing Calibration Check
HSC Compounds

Case No: _____ Calibration Date: 03/02/95

Contractor: TEGAN FACO, INC Time: 09:56

Contract No: _____ Laboratory ID: 772293

Increment ID: FCS-HP Initial Calibration Date: 04/20/95

Minimum RF for SPCC is 0.05 Maximum % Diff for CCC is 50%

Compound	RF	RF	% Diff	CCC	SPCC
0515 2,4,6-TRIBROMOPHENOL	1.23249	1.18103	21.13		
1625 2-FLUOROBIPHENYL	1.35621	1.19159	18.77		
0510 HEXACHLOROCYCLOPENTADIENE	34669	1.22112	56.22	**	
0516 2,4,6-TRICHLOROPHENOL	1.47673	1.39322	17.30	*	
0520 2,4,6-TRICHLOROPHENOL	49743	1.36350	25.97		
1525 2-CHLOROPHTHALATE	1.22738	1.11191	5.38		
0522 3-NITROBENZENE	85304	1.0114	6.10		
0535 3-NITROBENZENE	1.14387	1.3031	13.60		
1540 2-NITROBENZENE	1.24703	1.17019	17.68		
0545 4-NITROBENZENE	1.11367	1.29711	17.81		
0511 4-NITROBENZENE	1.11517	1.15511	7.46	*	
0527 2-NITROBENZENE	1.17617	1.22459	19.37	**	
0518 4-NITROBENZENE	1.26611	1.4804	9.21	**	
0567 BLENDED BPA	1.70911	1.68726	1.31		
0548 2-NITROBENZENE	1.15110	1.48173	3.97		
0576 2-NITROBENZENE	1.49010	1.30678	11.76		
1586 DIBENZOYL PHTHALATE	1.13388	1.12477	37.90		
0585 4-CHLOROPHTHALIC ACID	1.55110	1.55330	14.91		
0593 1,2-DIBENZOYL PHTHALATE	1.33302	1.15331	12.37		
0595 4-NITROBENZENE	1.46774	1.50344	6.10		
1610 4-NITROBENZENE-DIBENZOYL PHTHALATE	1.19637	1.19197	3.81		
0515 4-NITROBENZENE-DIBENZOYL PHTHALATE	1.1137	1.32257	14.37	*	
0520 2-NITROBENZENE	1.22747	1.34567	9.04		
0527 4-NITROBENZENE-DIBENZOYL PHTHALATE	1.4301	1.15646	15.15		
0530 4-NITROBENZENE-DIBENZOYL PHTHALATE	1.73174	1.25137	19.10		
0535 2-NITROBENZENE	1.13072	1.17407	6.75	*	
0540 2-NITROBENZENE	1.24217	1.12113	9.67		
0545 2-NITROBENZENE	1.15668	1.15250	9.83		
0550 DI-N-BUTYL PHTHALATE	1.26065	1.75367	5.80		
0555 FLUORANTHENE	1.35133	1.26338	5.32	*	
0516 BENZOPHENE	1.30222	1.06960	76.97		
0530 TERPHENYL-D14	1.90339	1.96011	5.69		

RF - Response Factor from daily standard file at 50.00 ug/L

RF - Average Response Factor from Initial Calibration Form VI

% Diff - % Difference from original average on curve

CCC - Calibration Check Compounds (**); SPCC - System Performance Check Compounds (**)

Continuing Calibration Check
HSL Compounds

Case No: _____ Calibration Date: 08/08/95
 Contractor: RESAN FACE, INC. Time: 08:36
 Contract No: _____ Laboratory ID: >F2293
 Instrument ID: FMS-HP Initial Calibration Date: 04/20/95

Minimum RF for SPCC is 0.95 Maximum % Diff for CCC is 30%

Compound	RF	RF	%Diff	CCC	SPCC
0715 PYRENE	1.43987	1.65530	14.96		
0720 BUTYLBENZYLPHTHALATE	.96061	1.02323	6.52		
0725 3,3'-DICHLOROBENZIDINE	.49236	.45631	11.38		
0730 BENZO(A)ANTHRACENE	1.31421	1.44970	10.31		
0745 BIS(2-ETHYLHEXYL)PHTHALAT	1.12267	1.24176	10.61		
0740 CHRYSENE	1.24751	1.40912	12.95		
0760 DI-N-OCYLPHTHALATE	2.18166	2.79261	31.70 *		
0765 BENZO(B)FLUORANTHENE	1.89242	1.74816	7.62		
0770 BENZO K(1,2,3)FLUORANTHENE	1.48239	1.07996	26.18		
0775 BENZO(A)PYRENE	1.52398	1.30240	14.54 *		
0780 INDENO(1,2,3-CD)PYRENE	1.87405	1.95741	17.17		
0785 DIBENZO(A,B)ANTHRACENE	1.92457	1.06776	17.39		
0790 BENZO(G,H,I)PERYLENE	1.35811	1.09212	18.20		

RF - Response Factor from daily standard file at 50.00 ug/mL

RF - Average Response Factor from Initial Calibration Form VI

%diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

Continuing Calibration Check
HSL Compounds

Case No: _____ Calibration Date: 08/11/95
 Contractor: PACE, INC. Time: 07:35
 Contract No: _____ Laboratory ID: >H8775
 Instrument ID: HMS-HP Initial Calibration Date: 08/10/95

Minimum RF for SPCC is .05 Maximum % Diff for CCC is 25%

Compound	RF	RF	%Diff	CCC	SPCC
C310 N-NITROSODIMETHYLAMINE	.82161	.81497	.81		
C550 2-FLUOROPHENOL	1.35249	1.36535	.95		
C545 PHENOL-d5	1.64112	1.63322	.48		
C570 2-CHLOROPHENOL-d4	1.41031	1.42553	1.08		
C575 1,2-DICHLOROBENZENE-d4	.86712	.90804	4.72		
C315 PHENOL	1.71439	1.72287	.49	*	
C320 ANILINE	1.37347	1.48206	7.91		
C325 BIS(2-CHLOROETHYL)ETHER	1.53954	1.46650	4.74		
C330 2-CHLOROPHENOL	1.40536	1.42616	1.48		
C335 1,3-DICHLOROBENZENE	1.53224	1.57955	3.09		
C340 1,4-DICHLOROBENZENE	1.49760	1.55080	3.55	*	
C345 BENZYL ALCOHOL	.84114	.78585	6.57		
C350 1,2-DICHLOROBENZENE	1.39658	1.46121	4.63		
C355 2-METHYLPHENOL	1.14820	1.23458	7.52		
C360 BIS(2-CHLOROISOPROPYL)ETH	1.82665	1.87461	2.63		
C365 4-METHYLPHENOL	1.25749	1.27040	1.03		
C370 N-NITROSO-DI-N-PROPYLAMINE	1.07375	1.06483	.83	**	
C375 HEXACHLOROETHANE	.78911	.83007	5.19		
C410 NITROBENZENE	.48916	.50400	3.03		
C415 ISOPHORONE	.92099	.92723	.68		
C520 NITROBENZENE-d5	.49164	.50070	1.84		
C420 2-NITROPHENOL	.23284	.23915	2.71	*	
C425 2,4-DIMETHYLPHENOL	.48241	.50068	3.79		
C430 BENZOIC ACID	.20289	.20653	1.79		
C435 BIS(2-CHLOROETHOXY)METHAN	.54432	.54663	.42		
C440 2,4-DICHLOROPHENOL	.33097	.34642	4.67	*	
C445 1,2,4-TRICHLOROBENZENE	.36086	.38042	5.42		
C450 NAPHTHALENE	1.05397	1.10180	4.54		
C455 4-CHLORANILINE	.42305	.44079	4.19		
C460 HEXACHLOROBUTADIENE	.25174	.28145	11.80	*	
C465 4-CHLORO-3-METHYLPHENOL	.42221	.43974	4.15	*	
C470 2-METHYLNAPHTHALENE	.63440	.66768	5.25		

RF - Response Factor from daily standard file at 50.00 ug/ml

RF - Average Response Factor from Initial Calibration Form VI

%Diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

Continuing Calibration Check
HSL Compounds

Case No: _____ Calibration Date: 08/11/95
 Contractor: PACE, INC. Time: 07:35
 Contract No: _____ Laboratory ID: >HB775
 Instrument ID: HMS-HP Initial Calibration Date: 08/10/95

Minimum RF for SPCC is .05 Maximum % Diff for CCC is 25%

Compound	RF	RF	%Diff	CCC	SPCC
C555 2,4,6-TRIBROMOPHENOL	.37809	.37094	1.89		
C525 2-FLUOROBIPHENYL	1.33016	1.36667	2.74		
C510 HEXACHLOROCYCLOPENTADIENE	.36071	.41440	14.88	**	
C515 2,4,6-TRICHLOROPHENOL	.46530	.46271	.56	*	
C520 2,4,5-TRICHLOROPHENOL	.51269	.54447	6.20		
C525 2-CHLORONAPHTHALENE	1.19484	1.22624	2.63		
C530 2-NITROANILINE	.63768	.61927	2.89		
C535 DIMETHYLPHTHALATE	1.69912	1.71159	.73		
C540 ACENAPHTHYLENE	1.91753	1.94558	1.46		
C545 3-NITROANILINE	.42322	.42287	.08		
C550 ACENAPHTHENE	1.23881	1.25952	1.67	*	
C555 2,4-DINITROPHENOL	.24273	.23504	3.17	**	
C560 4-NITROPHENOL	.42804	.41939	2.02	**	
C565 DIBENZOFURAN	1.76689	1.83538	3.88		
C543 2,6-DINITROTOLUENE	.39569	.42135	6.49		
C570 2,4-DINITROTOLUENE	.59715	.60562	1.42		
580 DIETHYLPHTHALATE	1.96707	2.02765	3.08		
C585 4-CHLOROPHENYL-PHENYLETHE	.61082	.68701	12.47		
C590 FLUORENE	1.27614	1.33923	4.94		
C595 4-NITROANILINE	.44329	.42807	3.43		
C610 4,6-DINITRO-2-METHYLPHENO	.18907	.21328	12.81		
C615 N-NITROSODIPHENYLAMINE	.54161	.60209	11.17	*	
C620 AZOBENZENE	.20339	.21988	8.11		
C625 4-BROMOPHENYL-PHENYLEETHER	.24805	.26641	7.40		
C630 HEXACHLOROBENZENE	.37768	.40852	8.17		
C635 PENTACHLOROPHENOL	.26284	.27783	5.70	*	
C640 PHENANTHRENE	1.14127	1.20217	5.34		
C645 ANTHRACENE	1.12924	1.19294	5.64		
C650 DI-N-BUTYLPHTHALATE	1.78910	1.97739	10.52		
C655 FLUORANTHENE	1.25890	1.29401	2.79	*	
C660 BENZIDINE	.14487	.14054	3.00		
C530 TERPHENYL-d14	.91078	.92989	2.10		

RF - Response Factor from daily standard file at 50.00 ug/ml

RF - Average Response Factor from Initial Calibration Form VI

%Diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

Continuing Calibration Check
HSL Compounds

Case No: _____ Calibration Date: 08/11/95
 Contractor: PACE, INC. Time: 07:35
 Contract No: _____ Laboratory ID: >H8775
 Instrument ID: HMS-HP Initial Calibration Date: 08/10/95

Minimum RF for SPCC is .05 Maximum % Diff for CCC is 25%

Compound	$\overline{\text{RF}}$	RF	%Diff	CCC	SPCC
C715 PYRENE	1.32691	1.31035	1.25		
C720 BUTYLBENZYLPHthalate	.95944	.95404	.56		
C725 3,3'-DICHlorobenzidine	.51086	.50557	1.03		
C730 BENZO(A)ANTHRACENE	1.21735	1.22549	.67		
C745 BIS(2-ETHYLHEXYL)PHTHALAT	1.13600	1.14132	.47		
C740 CHRySENE	1.12796	1.11203	1.41		
C760 DI-N-OCTYLPHthalate	2.57923	2.88457	11.84	*	
C765 BENZO(B)FLUORANTHENE	1.81204	1.65434	9.81		
C770 BENZO(K)FLUORANTHENE	1.00636	1.35465	34.61		
C775 BENZO(A)PYRENE	1.29944	1.33635	2.84	*	
C780 INDENO(1,2,3-CD)PYRENE	1.76219	1.70011	3.52		
C785 DIBENZO(A,H)ANTHRACENE	1.43908	1.38010	4.10		
C790 BENZO(G,H,I)PERYLENE	1.45208	1.37452	5.34		

RF - Response Factor from daily standard file at 50.00 ug/ml

$\overline{\text{RF}}$ - Average Response Factor from Initial Calibration Form VI

%Diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

Voltage 1600 Tune Meth MSFTW Initial Cal 4/19/95 Date 4/19/95
 Threshold 30 Sample Meth MSFFST Batch File FAP19B Analyst KA
 QASOP SACC Volume Inj 1ul Int Std A-1390 A-1402 Instr F MS-HP

Maintenance: Septum Liner Inlet Disk Column Clip

Other None

Btl #	File #	Sample	Matrix	ID File	Dil	SDG	Comments	MI	A	R	Arctv	P
	7F170	NETPA 50	A-1213				m/e 146 = 16K inj 1316 Scan 127					
	02	ABR STD 160	A-1404	IFAP19			SSTD160 initial Spl cal					
	03	120	A-1405				SSTD120 Compliant E270					
	04	80	A-1406				SSTD080					
	05	50	A-1407				SSTD050					
	06	20	A-1408				SSTD020					
4/20/95 KA												

Voltage 1700 Tune Meth MSFTUN Initial Cal 4/19/95 Date 7/25/95
 Threshold 30 Sample Meth MSFFST Batch File FIL25A/B Analyst AT
 OASOP 5200 Volume Inj 1ul Int Std A-1427 Instr F MS-HP

Maintenance: Septum Liner Inlet Disk Column Clip Other _____

Bl #	File #	Sample	Matrix	ID File	Dil	SDG	Comments	MI	A	R	Arcv	P
	7F2173	DFTPP50	A-1213				m/p FB=23K inj0033					A/322
/	74	DFTPP50	A-1213				scan 61+62		✓	✓		
/	75	ABN STD 50	A-1431	IFAP19			compliant 8270		✓	✓		
	76	BA2377	ABNL	IF0725	1/1				✓	✓		
	77	LSA2377		↓	↓				✓	✓		
/	78	90001-273		IFTEL					✓	✓		
	79	BA2373		IF0725					✓	✓		
	80	LSA2373		↓	↓				✓	✓		
	81	44582-1		IFTEL	1/200				✓	✓		
	82	44673-1			1/1				✓	✓		
	83	44674-1			↓				✓	✓		
	84	44637-1		↓	↓				✓	✓		
	85	44641-1	↓	IF0725	1/10				✓	✓		
	86	BA2374	ABNS		1/1		methylated Cowson's					
	87	LSA2374A							✓	✓		
	88	LSA2374B							✓	✓		
	89	LSA2374C	↓						✓	✓		
	90	BK110	ABNL				sch. bk		✓	✓		
	91	BK459	↓		↓				✓	✓		
	92	44637-1BE	ABNL	↓	1/10		screen 7/26/95					A/323

7/26/95
AT

Voltage 1600 Tune Meth MSFTUN Initial Cal 4/19/95 Date 8/8/95
 Threshold 30 Sample Meth MSFFST Batch File FAU08A Analyst NK
 GASOP 5200 Volume Inj 1ul Int Std A-1432 Instr F MS-HP
A-1441 03/1

Maintenance: Septum _____ Liner _____ Inlet Disk _____ Column Clip _____ Other none

Btl #	File #	Sample	Mevix	ID File	Dil	SDG	Comments	MI	A	R	Arqv	P
✓	7F2291	DFTPP50	A-1213				Sample 198 = 15K inj 0E21		✓	✓		A1/323
✓	92	NFTPP50	A-1213				Scan 46					
✓	93	ABWSTD50	A-1439	IFAPA			compliant 0270	✓	✓	✓		
	94	BA2282	ABNS	1F0809	1/1				✓	✓		A1/324
	95	LSA2282	↓						✓	✓		
✓	96	BA2284	ABNL			OHM			✓	✓		
✓	97	LSA2284	↓			↓			✓	✓		
	98	44764-1RE	ABNS	↓				✓	✓	✓		
	99	44862-1B	ABNL	1FTCLP		LW44 OHM	LW44-CL-001		✓	✓		
	>F2300	-19					-CL-002-RB		✓	✓		
	01	-20					-CU-003		✓	✓		
	02	-21					-CU-004		✓	✓		
	03	-22					-CU-005		✓	✓		
	04	-24					-CU-006-RB		✓	✓		
	05	-25		↓	↓	↓	-007-FB		✓	✓		
	06	44730-30RE	ABNS	1F0809	1/200		RE INS 1/200					
	07	44743-31RE			1/40				✓	✓		
	08	44712-31RE			1/4			✓	✓	✓		
	09	44725-2 RE			1/200			✓	✓	✓		
	7F2310	LCS					screen					
8/9/95 A												

Voltage 1450 Tune Meth MSHDET Initial Cal 8/10/95 Date 8/10/95
 Threshold 20 Sample Meth MSHTST Batch File HAVIOA, B, C Analyst NS
 QASOP 5200 Volume Inj 1ul Int Std A-1441 Instr 11 MS-HP

Maintenance: Septum Liner Inlet Disk Column Clip Other _____

Btl #	File #	Sample	Movix	ID File	Dil	SDG	Comments	MI	A	R	Arcv	P
	748752	748752 ^{63K} DFTPP50	A-1213				m/e 198 = 20K inj 08.39 scan 277		✓	✓		A2/333
54	ABNSTA160	ABNSTA160	A-1443	11HAVIO			metallic contaminant	✓	✓	✓		
55	ABNSTA120	ABNSTA120	A-1443				8270		✓	✓		
56	ABNSTA080	ABNSTA080	A-1444						✓	✓		
57	ABNSTA050	ABNSTA050	A-1445						✓	✓		
58	ABNSTA020	ABNSTA020	A-1446						✓	✓		
59	44686-23	ABNL	1H0810	1/1	NYPE	3325			✓	✓		
60	-24			1/1		3326			✓	✓		
61	-25			1/2		3327	RE 1/4					
62	-26			1/4		3328			✓	✓		
63	-23R			1/1		3325			✓	✓		
64	-24R			1/1		3326			✓	✓		
65	-25R			1/2		3327	RE 1/4					
66	-26R			1/4		3328			✓	✓		
67	-25			1/4		3327			✓	✓		
68	-25R			1/4		3327			✓	✓		
69	BA2289			1/1					✓	✓		
70	LSA2289								✓	✓		
71	BA2286								✓	✓		
72	LSA2286								✓	✓		

8/10/95
K

Voltage 1750 Tune Meth MSHAFT Initial Cal 8/10/95 Date 8/11/95
 Threshold 20 Sample Meth MSHTSI Batch File HAU11A Analyst NT
 QASOP 5200 Volume Inj 1 ul Int Std A-1441 Instr H MS-HP

Maintenance: Septum _____ Liner _____ Inlet Disk _____ Column Clip _____ Other none

Btl #	File #	Sample	Movix	ID File	Dil	SDG	Comments	MI	A	R	Arcv	P
	748773	DETPP 50	A-1213				m/e 198 = 22K ini OHP Scan 278+279+280		✓	✓	A2/333	
	75	ABN STD 50	A-1445	1HAU10			compliant 270	✓ NT	✓	✓		
6	76	44897-25	ABNL	1HTCLP 1H0811					✓	✓		
7	77	44898-8		↓					✓	✓		
8	78	-9		↓					✓	✓		
9	79	BA2290		1H0811					✓	✓		
10	80	LSA2290		↓					✓	✓		
11	81	44898-11		1HTCLP					✓	✓		
12	82	BA2398		1H0811					✓	✓		
13	83	LSA2398		↓					✓	✓		
14	84	44913-9		1HTCLP					✓	✓		
15	85	44914-3		↓					✓	✓		
16	86	-7		↓					✓	✓		
17	87	-12		↓					✓	✓		
18	88	44853-1		↓		1/5			✓	✓		
19	89	-2		↓		1/10		✓ NT	✓	✓		
20	90	6-161 pre		1HAU10 1HTCLP			pre (run after H-2782)		✓	✓		
21	91	6-161 post		1HTPOST 1HTCLP			post) 98'S LOW		N	✓		

8/14/95
K

Laboratory number: 44862-026
Sample Designation: CLJ44-CC-001
Date Extracted: 08/04/95
Date Analyzed: 08/04/95
Matrix: SOLID

Results are expressed on a dry (103 degrees C) basis.
Moisture content was 11 % , elevating the reporting limits
by a factor of 1.12 .

PCB'S	CONCENTRATION (ug/g)	REPORTING LIMIT (ug/g)
PCB-1242 (Arochlor 1242)	BDL	0.1
PCB-1254 (Arochlor 1254)	BDL	0.1
PCB-1221 (Arochlor 1221)	BDL	0.1
PCB-1232 (Arochlor 1232)	BDL	0.1
PCB-1248 (Arochlor 1248)	BDL	0.1
PCB-1260 (Arochlor 1260)	BDL	0.1
PCB-1016 (Arochlor 1016)	BDL	0.1

METHOD REFERENCE: EPA SW 846, 3rd Edition
METHODS 3550 AND 8080

BDL = Below reporting limit

Laboratory number: 44862-029
Sample Designation: CLJ44-007-FB
Date Extracted: 08/08/95
Date Analyzed: 08/09/95
Matrix: WATER

PCB'S	CONCENTRATION (ug/L)	REPORTING LIMIT (ug/L)
PCB-1242 (Arochlor 1242)	BDL	0.5
PCB-1254 (Arochlor 1254)	BDL	0.5
PCB-1221 (Arochlor 1221)	BDL	0.5
PCB-1232 (Arochlor 1232)	BDL	0.5
PCB-1248 (Arochlor 1248)	BDL	0.5
PCB-1260 (Arochlor 1260)	BDL	0.5
PCB-1016 (Arochlor 1016)	BDL	0.5

METHOD REFERENCE: 40 CFR PART 136, FRIDAY, OCTOBER 26, 1984
METHOD 608

BDL = Below reporting limit

Laboratory number: 44897-026
Sample Designation: CLJ44-CC-025
Date Extracted: 08/07/95
Date Analyzed: 08/08/95
Matrix: SOLID

Results are expressed on a dry (103 degrees C) basis.
Moisture content was 21 % , elevating the reporting limits
by a factor of 1.26 .

PCB'S	CONCENTRATION (ug/g)	REPORTING LIMIT (ug/g)
PCB-1242 (Arochlor 1242)	BDL	0.1
PCB-1254 (Arochlor 1254)	BDL	0.1
PCB-1221 (Arochlor 1221)	BDL	0.1
PCB-1232 (Arochlor 1232)	BDL	0.1
PCB-1248 (Arochlor 1248)	BDL	0.1
PCB-1260 (Arochlor 1260)	BDL	0.1
PCB-1016 (Arochlor 1016)	BDL	0.1

METHOD REFERENCE: EPA SW 846, 3rd Edition
METHODS 3550 AND 8080

BDL = Below reporting limit

SOIL PESTICIDE SURROGATE RECOVERY

Client: OHM REMEDIATION SERVICES CORP.
 Project: CAMP LEJEUNE/16487
 Level: Soil

Lab No.: 44862

CLIENT SAMPLE NO.	S1 (TCX) #	S2 (DCB) #	OTHER	TOT OUT
CLJ44-CC-001	65	68		0
B-P4388	101	94		0
B-P4393	103	92		0

QC LIMITS

S1 (TCX) = Tetrachloro-m-xylene 20 - 150
 S2 (DCB) = Decachlorobiphenyl 20 - 150

Column to be used to flag recovery values with an asterisk
 * Values outside of designated QC limits
 D Surrogates diluted out



WATER PESTICIDE SURROGATE RECOVERY

Client: OHM REMEDIATION SERVICES CORP.
Project: CAMP LEJEUNE/16487

Lab No.: 44862

CLIENT SAMPLE NO.	S1 (TCX) #	S2 (DCB) #	OTHER	TOT OUT
CLJ44-007-FB	66	74		0
B-P4396	72	39		0

QC LIMITS

S1 (TCX) = Tetrachloro-m-xylene 20 - 150
S2 (DCB) = Decachlorobiphenyl 20 - 150

Column to be used to flag recovery values with an asterisk
* Values outside of designated QC limits
D Surrogates diluted out



SOIL PESTICIDE SURROGATE RECOVERY

Client: OHM REMEDIATION SERVICES CORP.
Project: CAMP LEJEUNE/16487
Level: Soil

Lab No.: 44897

CLIENT SAMPLE NO.	S1 (TCX) #	S2 (DCB) #	OTHER	TOT OUT
CLJ44-CC-025	60	70		0

QC LIMITS

S1 (TCX) = Tetrachloro-m-xylene 20 - 150
S2 (DCB) = Decachlorobiphenyl 20 - 150

Column to be used to flag recovery values with an asterisk
* Values outside of designated QC limits
D Surrogates diluted out



Laboratory number: B-P4388
Sample Designation: LABORATORY BLANK
Date Analyzed: 08/04/95
Matrix: SOLID

Results are expressed on a dry (103 degrees C) basis.

PCB'S	CONCENTRATION	DETECTION LIMIT
	(ug/g)	(ug/g)
PCB-1242	BDL	0.1
PCB-1254	BDL	0.1
PCB-1221	BDL	0.1
PCB-1232	BDL	0.1
PCB-1248	BDL	0.1
PCB-1260	BDL	0.1
PCB-1016	BDL	0.1

METHOD REFERENCE: EPA SW846, 3RD EDITION
METHODS 3550 AND 8080

BDL = Below detection limit

Laboratory number: B-P4393
Sample Designation: LABORATORY BLANK
Date Analyzed: 08/08/95
Matrix: SOLID

Results are expressed on a dry (103 degrees C) basis.

PCB'S	CONCENTRATION	DETECTION LIMIT
	(ug/g)	(ug/g)
PCB-1242	BDL	0.1
PCB-1254	BDL	0.1
PCB-1221	BDL	0.1
PCB-1232	BDL	0.1
PCB-1248	BDL	0.1
PCB-1260	BDL	0.1
PCB-1016	BDL	0.1

METHOD REFERENCE: EPA SW846, 3RD EDITION
METHODS 3550 AND 8080

BDL = Below detection limit

Laboratory number: B-P4396
Sample Designation: LABORATORY BLANK
Date Analyzed: 08/08/95
Matrix: SOLID

Results are expressed on a dry (103 degrees C) basis.

PCB'S	CONCENTRATION (ug/g)	DETECTION LIMIT (ug/g)
PCB-1242	BDL	0.1
PCB-1254	BDL	0.1
PCB-1221	BDL	0.1
PCB-1232	BDL	0.1
PCB-1248	BDL	0.1
PCB-1260	BDL	0.1
PCB-1016	BDL	0.1

METHOD REFERENCE: EPA SW846, 3RD EDITION
METHODS 3550 AND 8080

BDL = Below detection limit

Laboratory number: B-P4396
Sample Designation: LABORATORY BLANK
Date Analyzed: 08/08/95
Matrix: WATER

PCB'S	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
PCB-1242	BDL	0.5
PCB-1254	BDL	0.5
PCB-1221	BDL	0.5
PCB-1232	BDL	0.5
PCB-1248	BDL	0.5
PCB-1260	BDL	0.5
PCB-1016	BDL	0.5

METHOD REFERENCE: 40 CFR PART 136, FRIDAY, OCTOBER 26, 1984
METHODS 608

BDL = Below detection limit

PCB'S

MATRIX SPIKE DUPLICATE RECOVERY

Laboratory Number: 44897-26 MS/MSD
Sample Designation: CLJ44-CC-025 MS/MSD
Date Analyzed 08/08/95
Matrix: SOLID

COMPOUND	ug/g IN SAMPLE	ug/g SPIKE	REPLICATE 1		REPLICATE 2		RELATIVE RANGE %
			ug/g FOUND	%REC- OVERY	ug/g FOUND	% REC- OVERY	
AR-1254	0	1.20 MS & 1.14 MSD	1.17	98	1.14	100	2

METHOD REFERENCE: EPA SW846, 2ND EDITION
METHODS 3550 AND 8080



PCB'S

MATRIX SPIKE RECOVERY

Laboratory Number: LS-P4388
Sample Designation: LABORATORY CONTROL SAMPLE
Date Analyzed: 08/04/95
Matrix: SOLID

COMPOUND	ug/g IN SAMPLE	ug/g SPIKE	ug/g FOUND	%REC- OVERY
AR-1254	0	1.01	1.12	111

METHOD REFERENCE: EPA SW846, 3RD EDITION
METHODS 3550 AND 8080

PCB'S

MATRIX SPIKE RECOVERY

Laboratory Number: LS-P4393
Sample Designation: LABORATORY CONTROL SAMPLE
Date Analyzed: 08/08/95
Matrix: SOLID

COMPOUND	ug/g IN SAMPLE	ug/g SPIKE	ug/g FOUND	%REC- OVERY
AR-1254	0	1.01	1.14	113

METHOD REFERENCE: EPA SW846, 3RD EDITION
METHODS 3550 AND 8080

PCB's

MATRIX SPIKE RECOVERY

Laboratory Number: LS-P4396
Sample Designation: LABORATORY CONTROL SAMPLE
Date Analyzed 08/09/95
Matrix: WATER

COMPOUND	ug/L SAMPLE	ug/L SPIKE	ug/L FOUND	%REC- OVERY
AR-1254	0	5.01	5.11	102

METHOD REFERENCE: 40 CFR PART 136, FRIDAY, OCTOBER 26, 1984
METHODS 608

PACE INCORPORATED
Organics Extraction
AQUEOUS PREP LOG

PROTOCOL: EPA SW846

SOP #: QA 5528

MATRIX: AQUEOUS

5516
E3
JEA
08/08/95

② PM
8-22-95

LOG BOOK NO: 2

METHOD: CONT/3520 SEPF/3510

TEST / LEVEL: PCB / 1

PCB ONLY

COUNT	DATE/INIT	BLANK/SPIKES SAMPLE #	INIT VOL (L)	SURR # AMT/CONC INITIALS	LCS MS/MSD	SPIKE # AMT/CONC.	INTER VOL (ml)	ALIQOT VOL (ml)	FINAL VOL (ml)	SENT LABUX
	JEA	BP4396	1.0	E1339 0.5ml	N/A	N/A	10.0	2.0	1.0	JEA
(E3)	08/08/95	ISP4396	1.0	Zoppo	E1331 1318 100.0g 100.0g	E1331 100.0g 100.0g	↓	↓	↓	08/08/95
15 JEA	↓	44867-79	.970	↓	(50.4) N/A	N/A	↓	↓	↓	↓
<p>no ms/msd assigned out this point</p> <p>5516 PM</p> <p>JEA 08/08/95</p>										

COMMENTS: _____

PACE, INC. NEW ENGLAND - NEW HAMPSHIRE LAB
Organics Extraction
SOLIDS PREP LOG

PROTOCOL: EPA SW846

LOG BOOK NO: 4

SOP #: QA5517, QA5526, QA5500, QA5520

STEAMBATH TEMP: N/A (Range 80-90°C)

METHOD: SONC/3550

MATRIX: SOLIDS

REVIEWED BY/DATE: Jella 05/21/95

TEST/LEVEL: PCB/Med

COUNT	DATE/INIT	BLANK/SPIKES SAMPLE #	INIT WT (g)	Na ₂ SO ₄ (g)	LCS MS/MSD	SURR # AMT/CONC INITIALS	SPIKE # AMT/CONC.	INTER VOL (ml)	ALIQOT VOL (ml)	FINAL VOL (ml)	SPECIAL CLEANUP (F,G,S,SA)	QUATTRO init/ date
-	MC 8/14/95	BP4388	5.0	10.0	LSP4388	E1359 500 µl	N/A	10.0	1.0	1.0	N/A	
-	↓	LSP4388 LSP4388	5.0	↓		70ppm E1318 100 µl 50.4 ppm		↓	↓	↓	↓	
6	↓	44858-1	5.06	↓		✓ N/A		↓	↓	↓	↓	
7	↓	44862-26	5.01	↓		✓ N/A		↓	↓	↓	↓	
						MC PN						

COMMENTS: F = Florisil, G = GPC, S = Sulfur using copper powder, SA = Sulfuric acid

Associated Qc: 44820-1 MS/MSD

PACE, INC. NEW ENGLAND - NEW HAMPSHIRE LAB
Organics Extraction
SOLIDS PREP LOG

PROTOCOL: EPA SW846

LOG BOOK NO: 4

SOP #: QA5517, QA5526, QA5500, QA5520

STEAMBATH TEMP: N/A (Range 80-90°C)

METHOD: SONC/3550

MATRIX: SOLIDS

REVIEWED BY/DATE: JEL 08/21/95

TEST/LEVEL: PCB/ Med

COUNT	DATE/INIT	BLANK/SPIKES SAMPLE #	INIT WT (g)	Na ₂ SO ₄ (g)	LCS MS/MSD	SURR # AMT/CONC INITIALS	SPIKE # AMT/CONC.	INTER VOL (ml)	ALIQVOT VOL (ml)	FINAL VOL (ml)	SPECIAL CLEANUP (F,G,S,SA)	QUATTRO init/ date
-	MC	BP4393	5.0	10.0	---	E1359 0.5ml	N/A	10.0	1.0	1.0	N/A	PM
-	8/7/95	LSP4393	5.0	↓	LSP 4393	2.0 PPM	E1314 20241 20.4ppm	↓	↓	↓	↓	8-9
-	↓	44897-26	5.61	↓	44897-	↓	E1314	↓	↓	↓	↓	↓
-	↓	-26MSA	5.30	↓	26 MSI	↓	E1318	↓	↓	↓	↓	↓
-	↓	(E3) PM 8-9-95	5.57	↓	MSO	↓	E1318	↓	↓	↓	↓	↓
<p>MC 8/7/95</p>												

COMMENTS: F = Florisil, G = GPC, S = Sulfur using copper powder, SA = Sulfuric acid

(E3) MS/MSD is external

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+-----+
| INITIAL CALIBRATION SUMMARY |
+-----+

for /DATA/GC18/METHOD/PCB1242021.MTH
Method created: 07/24/95 10:26:20
Method updated: 07/24/95 11:09:19

Result files used for Calibration data:
Level 1 /DATA/GC18/RESULT/G18H18188.RES
Level 2 /DATA/GC18/RESULT/G18H18189.RES
Level 3 /DATA/GC18/RESULT/G18H18190.RES
Level 4 /DATA/GC18/RESULT/G18H18191.RES
Level 5 /DATA/GC18/RESULT/G18H18192.RES

#	Time	Analyte	Correlation	B ₀ Intercept	B ₁ Slope	B ₂ Quadratic
1	4.53	TCX	.99974	-2406.75	1015412.50	-405673.13
2	5.47	AR1242	.99884	-235.53	18057.74	-703.34
3	6.68	AR1242	.99952	-105.33	20741.63	-1413.81
4	7.27	AR1242	.99948	-185.92	19247.86	-899.39
5	8.17	AR1242	.99974	-237.36	39368.91	-2166.43
6	8.53	AR1242	.99968	-153.09	21784.99	-1298.31
7	33.44	DCB	.99991	246.14	838414.37	-385523.75

$$R = B_0 + B_1X + B_2X^2$$

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| INITIAL CALIBRATION SUMMARY |
+-----+

for /DATA/GC19/METHOD/PCB1242021.MTH

Method created: 07/24/95 12:21:47

Method updated: 07/24/95 16:19:04

Result files used for Calibration data:

Level 1 /DATA/GC19/RESULT/G19H18188.RES

Level 2 /DATA/GC19/RESULT/G19H18189.RES

Level 3 /DATA/GC19/RESULT/G19H18190.RES

Level 4 /DATA/GC19/RESULT/G19H18191.RES

Level 5 /DATA/GC19/RESULT/G19H18192.RES

#	Time	Analyte	Correlation	B0 Intercept	B1 Slope	B2 Quadratic
1	4.27	TCX	.99982	-1106.66	510715.19	-177764.34
2	5.77	AR1242	.99988	-12.17	7981.39	-657.79
3	7.03	AR1242	.99987	25.34	13119.28	-1358.06
4	8.60	AR1242	.99987	-44.23	23800.17	-1708.02
5	9.11	AR1242	.99990	3.71	9170.59	-586.88
6	11.11	AR1242	.99987	-10.49	7681.31	-491.48
7	33.09	DCB	.99988	116.87	363477.19	-150394.66

$$R = B0 + B1X + B2X^2$$

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+-----+
| INITIAL CALIBRATION SUMMARY |
+-----+

for /DATA/GC18/METHOD/PCB1248016.MTH
Method created: 07/24/95 10:27:02
Method updated: 07/24/95 12:12:13

Result files used for Calibration data:
Level 1 /DATA/GC18/RESULT/G18H18193.RES
Level 2 /DATA/GC18/RESULT/G18H18194.RES
Level 3 /DATA/GC18/RESULT/G18H18195.RES
Level 4 /DATA/GC18/RESULT/G18H18196.RES
Level 5 /DATA/GC18/RESULT/G18H18197.RES

#	Time	Analyte	Correlation	B0 Intercept	B1 Slope	B2 Quadratic
1	4.57	TCX	.99997	-1228.58	986594.50	-514864.00
2	8.22	AR1248	.99998	61.82	23813.14	-516.67
3	10.33	AR1248	.99999	77.12	21988.58	-1290.49
4	10.86	AR1248	.99998	-45.70	21138.87	-956.14
5	12.23	AR1248	1.0000	34.54	22879.49	-1322.24
6	12.43	AR1248	.99999	17.03	23706.26	-993.17
7	33.50	DCB	.99995	1268.14	824966.37	-332606.88

$$R = B0 + B1X + B2X^2$$

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| INITIAL CALIBRATION SUMMARY |
+-----+

for /DATA/GC19/METHOD/PCB1248016.MTH
Method created: 07/24/95 12:22:27
Method updated: 07/24/95 16:50:34

Result files used for Calibration data:
Level 1 /DATA/GC19/RESULT/G19H18193.RES
Level 2 /DATA/GC19/RESULT/G19H18194.RES
Level 3 /DATA/GC19/RESULT/G19H18195.RES
Level 4 /DATA/GC19/RESULT/G19H18196.RES
Level 5 /DATA/GC19/RESULT/G19H18197.RES

#	Time	Analyte	Correlation	B0 Intercept	B1 Slope	B2 Quadratic
1	4.31	TCX	.99980	-791.12	504576.50	-227958.28
2	8.65	AR1248	.99987	23.50	14954.46	-724.67
3	10.04	AR1248	.99985	94.19	10785.66	-964.85
4	11.17	AR1248	.99998	65.87	11713.23	-849.74
5	11.60	AR1248	.99994	94.61	10320.70	-607.42
6	13.45	AR1248	.99999	35.40	11731.58	-664.34
7	33.16	DCB	.99994	555.17	357483.44	-136452.25

$$R = B_0 + B_1X + B_2X^2$$

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| INITIAL CALIBRATION SUMMARY |
+-----+

for /DATA/GC18/METHOD/PCB1254021.MTH
Method created: 07/24/95 10:27:35
Method updated: 07/24/95 11:55:25

Result files used for Calibration data:
Level 1 /DATA/GC18/RESULT/G18H18198.RES
Level 2 /DATA/GC18/RESULT/G18H18199.RES
Level 3 /DATA/GC18/RESULT/G18H18200.RES
Level 4 /DATA/GC18/RESULT/G18H18201.RES
Level 5 /DATA/GC18/RESULT/G18H18202.RES

#	Time	Analyte	Correlation	B ₀ Intercept	B ₁ Slope	B ₂ Quadratic
1	4.56	TCX	.99996	-1320.06	917136.50	-416666.75
2	12.46	AR1254	.99995	170.77	21230.15	-1632.36
3	13.89	AR1254	.99992	230.99	23918.08	-2080.58
4	16.36	AR1254	.99998	101.42	34281.20	-1731.26
5	18.07	AR1254	.99995	246.94	26564.98	-1225.21
6	21.19	AR1254	1.0000	77.08	31220.91	-1335.48
7	33.48	DCB	.99993	1586.83	832233.63	-368193.19

$$R = B_0 + B_1X + B_2X^2$$

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| INITIAL CALIBRATION SUMMARY |
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for /DATA/GC19/METHOD/PCB1254021.MTH
Method created: 07/24/95 12:22:55
Method updated: 07/25/95 15:42:56

Result files used for Calibration data:
Level 1 /DATA/GC19/RESULT/G19H18198.RES
Level 2 /DATA/GC19/RESULT/G19H18199.RES
Level 3 /DATA/GC19/RESULT/G19H18200.RES
Level 4 /DATA/GC19/RESULT/G19H18201.RES
Level 5 /DATA/GC19/RESULT/G19H18202.RES

#	Time	Analyte	Correlation	B0 Intercept	B1 Slope	B2 Quadratic
1	4.30	TCX	.99997	-635.94	480493.56	-215858.44
2	10.01	AR1254	.99991	82.21	8096.19	-819.15
3	13.43	AR1254	.99992	98.39	9984.12	-718.18
4	14.70	AR1254	.99992	99.50	10618.61	-949.53
5	17.74	AR1254	.99999	62.17	16462.23	-858.41
6	19.28	AR1254	.99996	91.43	12357.13	-653.52
7	33.14	DCB	.99992	733.73	364348.69	-159780.88

$$R = B_0 + B_1X + B_2X^2$$

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| INITIAL CALIBRATION SUMMARY |
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for /DATA/GC18/METHOD/PCB1660018.MTH
Method created: 07/24/95 10:28:12
Method updated: 07/24/95 12:09:13

Result files used for Calibration data:
Level 1 /DATA/GC18/RESULT/G18H18203.RES
Level 2 /DATA/GC18/RESULT/G18H18204.RES
Level 3 /DATA/GC18/RESULT/G18H18205.RES
Level 4 /DATA/GC18/RESULT/G18H18206.RES
Level 5 /DATA/GC18/RESULT/G18H18207.RES

#	Time	Analyte	Correlation	B0 Intercept	B1 Slope	B2 Quadratic
1	4.56	TCX	.99931	-1652.23	932374.63	-257207.66
2	5.49	AR1016	.99617	-473.68	24879.87	-3547.63
3	6.71	AR1016	.99922	-172.05	28236.80	-3726.21
4	7.30	AR1016	.99956	-175.56	25825.02	-2532.47
5	8.20	AR1016	.99981	-112.09	52580.82	-3415.18
6	8.57	AR1016	.99983	-30.46	28591.92	-1665.91
7	22.22	AR1260	.99992	132.21	23217.82	-1206.27
8	23.54	AR1260	.99996	61.61	22954.80	-397.82
9	25.15	AR1260	.99997	114.64	58492.76	-900.97
10	26.72	AR1260	.99989	-131.94	31132.06	204.39
11	30.12	AR1260	.99995	-3.03	18301.70	507.00
12	33.48	DCB	.99988	2062.66	808091.00	-235399.84

$$R = B0 + B1X + B2X^2$$

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| INITIAL CALIBRATION SUMMARY |
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for /DATA/GC19/METHOD/PCB1660018.MTH
Method created: 07/24/95 12:23:23
Method updated: 07/25/95 15:57:48

Result files used for Calibration data:
Level 1 /DATA/GC19/RESULT/G19H18203.RES
Level 2 /DATA/GC19/RESULT/G19H18204.RES
Level 3 /DATA/GC19/RESULT/G19H18205.RES
Level 4 /DATA/GC19/RESULT/G19H18206.RES
Level 5 /DATA/GC19/RESULT/G19H18207.RES

#	Time	Analyte	Correlation	B0 Intercept	B1 Slope	B2 Quadratic
1	4.29	TCX	.99967	-354.80	461759.50	-35691.48
2	5.80	AR1016	.99991	81.60	9217.97	-463.27
3	8.64	AR1016	.99992	277.65	29121.18	-1349.90
4	9.15	AR1016	.99990	64.91	12017.07	-668.81
5	10.07	AR1016	.99994	60.48	9104.93	-799.41
6	11.16	AR1016	.99992	40.13	9499.28	-462.68
7	18.79	AR1260	.99991	117.03	12468.04	-782.78
8	20.22	AR1260	.99991	154.02	16077.76	-1133.88
9	22.24	AR1260	.99996	49.13	18575.73	-644.15
10	25.97	AR1260	.99997	87.25	28476.87	-942.21
11	27.85	AR1260	.99864	-659.63	17068.91	-177.07
12	33.14	DCB	.99993	663.25	361495.06	-132412.78

$$R = B0 + B1X + B2X^2$$

PACE, Incorporated
Continuing Calibration Report

Tue Aug 22, 1995 1:45:37 pm

/DATA/GC18/RESULT/G18H18331.RES
/DATA/GC18/METHOD/PCB1254021.MTH

Sample: AR1254 0.5PPM P8709
Injected: Fri Aug 4, 1995 6:12:54 pm

RetTime	Analyte	Found	Nominal	%D	Recovery
4.55	TCX	.095	.100	5.2	94.8
12.41	AR1254	.542	.500	8.5	108.5
13.83	AR1254	.550	.500	9.9	109.9
16.30	AR1254	.522	.500	4.4	104.4
18.01	AR1254	.530	.500	6.0	106.0
21.14	AR1254	.531	.500	6.2	106.2
33.44	DCB	.100	.100	.1	99.9

PACE, Incorporated
Continuing Calibration Report

Tue Aug 22, 1995 1:47:09 pm

/DATA/GC19/RESULT/G19H18331.RES
/DATA/GC19/METHOD/PCB1254021.MTH

Sample: AR1254 0.5PPM P8709
Injected: Fri Aug 4, 1995 6:12:54 pm

RetTime	Analyte	Found	Nominal	%D	Recovery
4.29	TCX	.094	.100	6.2	93.8
9.97	AR1254	.552	.500	10.4	110.4
13.37	AR1254	.547	.500	9.5	109.5
14.63	AR1254	.541	.500	8.3	108.3
17.67	AR1254	.531	.500	6.2	106.2
19.22	AR1254	.537	.500	7.4	107.4
33.09	DCB	.102	.100	2.0	102.0

PACE, Incorporated
Continuing Calibration Report

Tue Aug 22, 1995 1:46:05 pm

/DATA/GC18/RESULT/G18H18341.RES
/DATA/GC18/METHOD/PCB1254021.MTH

Sample: AR1254 0.5PPM P8709
Injected: Tue Aug 8, 1995 8:56:23 am

RetTime	Analyte	Found	Nominal	%D	Recovery
4.59	TCX	.100	.100	.1	100.1
12.49	AR1254	.547	.500	9.5	109.5
13.92	AR1254	.544	.500	8.8	108.8
16.39	AR1254	.524	.500	4.7	104.7
18.10	AR1254	.535	.500	7.0	107.0
21.21	AR1254	.533	.500	6.6	106.6
33.49	DCB	.100	.100	.0	100.0

PACE, Incorporated
Continuing Calibration Report

Tue Aug 22, 1995 1:47:27 pm

/DATA/GC19/RESULT/G19H18341.RES
/DATA/GC19/METHOD/PCB1254021.MTH

Sample: AR1254 0.5PPM P8709
Injected: Tue Aug 8, 1995 8:56:23 am

RetTime	Analyte	Found	Nominal	%D	Recovery
4.32	TCX	.097	.100	3.1	96.9
10.03	AR1254	.545	.500	8.9	108.9
13.46	AR1254	.552	.500	10.3	110.3
14.72	AR1254	.543	.500	8.5	108.5
17.76	AR1254	.528	.500	5.6	105.6
19.30	AR1254	.535	.500	6.9	106.9
33.14	DCB	.102	.100	2.5	102.5

PACE, Incorporated
Continuing Calibration Report

Tue Aug 22, 1995 1:46:29 pm

/DATA/GC18/RESULT/G18H18370.RES
/DATA/GC18/METHOD/PCB1254021.MTH

Sample: AR1254 0.5PPM P8709
Injected: Wed Aug 9, 1995 8:21:09 am

RetTime	Analyte	Found	Nominal	%D	Recovery
4.57	TCX	.114	.100	13.8	113.8
12.45	AR1254	.551	.500	10.2	110.2
13.87	AR1254	.555	.500	10.9	110.9
16.34	AR1254	.533	.500	6.5	106.5
18.06	AR1254	.551	.500	10.3	110.3
21.18	AR1254	.540	.500	8.0	108.0
33.48	DCB	.102	.100	2.2	102.2

0000253

/DATA/GC19/RESULT/G19H18370.RES
/DATA/GC19/METHOD/PCB1254021.MTH

Sample: AR1254 0.5PPM P8709
Injected: Wed Aug 9, 1995 8:21:09 am

RetTime	Analyte	Found	Nominal	%D	Recovery
4.30	TCX	.112	.100	12.4	112.4
10.00	AR1254	.543	.500	8.6	108.6
13.41	AR1254	.546	.500	9.3	109.3
14.67	AR1254	.553	.500	10.6	110.6
17.71	AR1254	.534	.500	6.7	106.7
19.26	AR1254	.547	.500	9.5	109.5
33.13	DCB	.106	.100	6.1	106.1

PACE, INCORPORATED
GC Instrument Run Log

Reviewed by _____ Date _____

Circle one:
CLP/PHC/OPP/HERB/P-P

Date	init	result file	Sample	MI	V	Method	column	Sequence
7/17/95	HS	618/19118165	IND2AB Testing	N	N	PCB1784020A	146/147	618/190705
↓	↓	166	↓	↓	↓	↓	↓	↓
↓	↓	167	↓	↓	↓	↓	↓	↓
7/17/95	↓	168	↓	↓	↓	↓	↓	↓
↓	↓	169	↓	↓	↓	↓	↓	↓
7/17/95	HS	Temp. Program = 160°C $\xrightarrow{3.2^\circ/m}$ 190°C $\xrightarrow{3.2^\circ/m}$ 260°C (p). Run time 35 min.						
7/17/95	HS	618/19118170	EVAL Evltime B.D high	N	N	test003	146/147	618/190712
↓	↓	171	IND0.5AB	↓	↓	↓	↓	↓
↓	↓	172	IND1.0 AB	↓	↓	↓	↓	↓
7/17/95	HS	High B.D on EVAL for both columns Change Septor liner Adapter. Signal high on both columns						
7/17/95	HS	618/19118173	IND2AB Testing	N	N	test003	146/147	618/190712
↓	↓	174	↓	↓	↓	↓	↓	↓
↓	↓	175	↓	↓	↓	↓	↓	↓
↓	↓	176	↓	↓	↓	↓	↓	↓
↓	↓	177	↓	↓	↓	↓	↓	↓
↓	↓	178	↓	↓	↓	↓	↓	↓
↓	↓	179	↓	↓	↓	↓	↓	↓
↓	↓	180	↓	↓	↓	↓	↓	↓
7/17/95	HS	618/19118181	EVAL 0.1 PPM p856	N	Y	test004	146/147	618/190712
↓	↓	182	IND0.5AB p8677	N	↓	↓	↓	618/190713
↓	↓	183	IND1AB p8678	↓	↓	↓	↓	↓
↓	↓	184	IND2AB p8688	↓	↓	↓	↓	↓
↓	↓	185	IND3AB p8679	↓	↓	↓	↓	↓
↓	↓	186	IND5AB p8680	↓	↓	↓	↓	↓
↓	↓	187	TOXSPH 0.5 PPM p8567	↓	↓	↓	↓	↓
↓	↓	188	AR1242 0.05 PPM p8567	N	Y	PCB1784020A	↓	↓
↓	↓	189	AR1242 0.2 PPM p8487	↓	↓	↓	↓	↓
↓	↓	190	AR1242 0.5 PPM p8489	↓	↓	↓	↓	↓
↓	↓	191	AR1242 1.0 PPM p8685	↓	↓	↓	↓	↓

PACE, INCORPORATED
GC Instrument Run Log

Circle one:
CLP/PHC/OPP/HERB/P-P

Reviewed by _____ Date _____

Date	init	result file	Sample	MI	v	Method	column	Sequence
7/13/95	185	610/19118192	ARM220ppm p8492	N	Y	pub2021	146/147	618/1907.3
		193	AR1248 0.05 ppm p8493			pub208016		
		194	AR1248 0.2 ppm p8494					
		195	AR1248 0.5 ppm p8686					
		196	AR1248 1.0 ppm p8497					
		197	AR1248 2.0 ppm p8498					
		198	AR1252 0.05 ppm p8499	N	Y	pub2021		
		199	AR1252 0.2 ppm p8501					
		200	AR1252 0.5 ppm p8687					
		201	AR1252 1.0 ppm p8503					
		202	AR1252 2.0 ppm p8504					
		203	AR1660 0.05 ppm p8505	N	Y	pub166018		
		204	AR1660 0.2 ppm p8507					
		205	AR1660 0.5 ppm p8693					
		206	AR1660 1.0 ppm p8509					
		207	AR1660 2.0 ppm p8510					
		208	AR1221 0.05 ppm p8483			next004		
		209	AR1232 0.05 ppm p8485					
7/18/95		Signal 1 = 144						
								Signal 2 = 13.7
7/18/95	185	610/19 W10210	IND2AS	N	Y	Pest004	146/147	S.S.
		211	PRE-GPC GPC5635A			GPC001		
		212	POST-GPC GPC5635B					
7/19/95	185		IND2AS Testig	N	N	pest004	146/147	S.S.
		214						
		215						
		216						
		217						
		218						
		219	PUBLIC Testig					
		220						
		221						

PACE, INCORPORATED
GC Instrument Run Log

Circle one:
CLP/PHC/OPP/HERB/P-P

Reviewed by _____ Date _____

ate	init	result file	Sample	MI	Y	Method	column	Sequence
8/2/95	MS	618/1918315	LSP4385 P/p-W	N	N	Neotoma	146/147	618/190803
			316 44780-1 P/p-W TClp V8/4		Y			
			317 BP4382 P/p-W					
			318 LSP4382 P/p-W		N			
			319 44773-27 P/p-W		Y			
			320 BP4386 PCB-MS					
			321 LSP4386 ↓			PCA1204021		
			322 44823-2 ↓			Neotoma		
			323 AR1264 0.5ppm P8709			PCA1204021		
	MS		324 BP4366 Test	N	Y	Neotoma		
			325 LSP4366A					
			326 B					
			327 C					
			328 D ↓					
8/2/95	MS	618/1918304	AR1242 0.5ppm P8715	N	Y	PCA1204021	146/147	618/190804
			330 AR1248 0.5ppm P8716					
			331 AR1254 0.5ppm P8709					
			332 AR1660 0.5ppm P8693					
			333 BP4388 PCB-MS					
			334 LSP4388 ↓					
			335 448584 ↓					
			336 44862-26 ↓					
			337 AR1242 0.5ppm P8715					
			338 INDOAB	N	Y	Neotoma	146/147	618/190807
8/2/95	MS	618/1918339	AR1242 0.5ppm P8715	N	Y	PCA1204021		
			340 AR1248 0.5ppm P8716					
			341 AR1254 0.5ppm P8709					
			342 AR1660 0.5ppm P8693					
			343 44897-26 PCB-MS					
			344 LSP4393 ↓					
			345 BP4393 ↓					

FACE, INDOOR AIR
GC Instrument Run Log

Reviewed by _____ Date _____

Circle one:
CLP/PHC/OPP/HERB/P-P

Date	init	result file	Sample	MI	v	Method	column	Sequence
8/9/95	BS	G18/91818346	44897-26MS PCBs MS	N	Y	PCN1254021	146/147	GT20807
		347	-26MSD ↓				↓	↓
8/9/95	HS	G18/9148348	BP4395 PCBs-MS				146/147	GT20808
		349	LSP4395 ↓					
		350	44913-7 ↓ LTN10					
		351	44903-1 ↓					
		352	P1B2K 0.02ppm P8691					
		353	AR1242 0.5ppm P8705					
		354	AR1248 0.5ppm P8716					
		355	AR1244 0.5ppm P8709					
		356	AR1660 0.5ppm P8693			PCN1660018		
		357	BP4381 PCB-W			PCN1254021		
		358	LSP4381					
		359	44795-6					
		360	-7					
		361	-8					
		362	-9					
		363	44802-6					
		364	-7			PCN1660018		
		365	-8			PCN1254021		
		366	-9		N			
		367	P1B2K 0.02ppm P8691		Y			
		368	AR1242 0.5ppm P8705			PCN1254021		
		369	AR1248 0.5ppm P8716			PCN1254021		
		370	AR1244 0.5ppm P8709			PCN1254021		
		371	AR1660 0.5ppm P8693			PCN1660018		
8/9/95	HS	G18/9118372	44802-9 PCB 12100	N		PCN1254021	146/147	GT20809
		373	BP4399 PCB-MS			PCN1254021		
		374	LS14399 ↓					
		375	44928-11 ↓					
		376	BP4396 PCB-W					

PACE, INCORPORATED
GC Instrument Run Log

Reviewed by _____ Date _____

Circle one
CLP/PHC/OPP/HERB/PS

Date	init	result file	Sample	MI	✓	Method	column	Sequence
8/14/95	113	61819118377	LSP4396 PCB-W	N	Y	PCB1284021	146/147	6120809
		378	44862-29 ↓					
		379	PIBUC 0.02ppm p8691					
		380	AR1242 0.5ppm p8715			PCB1284021		
		381	AR1248 0.5ppm p8716			PCB1284021		
		382	AR1254 0.5ppm p8709			↓		
		383	AR1660 0.5ppm p8693			PCB1660018		
		384	44928-13 PCB-MS			PCB1284021		
		385	AR1252 0.5ppm p8709					
		386	BIT4401 PCB-MS					
		387	LS14401 ↓					
8/14/95	113	61819118388	AR1242 0.5ppm p8715	N	Y	PCB1284021	146/147	6120814
		389	AR1248 0.5ppm p8716					
		390	AR1254 0.5ppm p8709					
		391	AR1660 0.5ppm p8693			PCB1660018		
		392	44915-1 PCB-MS			PCB1284021		
		393	-2			PCB1660018		
		394	-MS			PCB1284021		
		395	-MSD					
		396	BP4406 ↓					
		397	LSP4406 ↓					
		398	BP4410 PCB-MS					
		399	449371 ↓					
		400	BP4408 ↓					
		401	AR1242 0.5ppm p8715					
		402	AR1248 0.5ppm p8716					
		403	AR1254 0.5ppm p8709					
		404	AR1660 0.5ppm p8718			PCB1660018		
		405	LSP4408 PCB-MS			PCB1284021		
		406	44959-1 ↓					
		407	-3 ↓					

U.S. EPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: PACE INC., NE-NH

Contract: LEJEUNE

Lab Code:

Case No.: OHMRC

SAS No.:

SDG No.: MLJN09

SOW No.: 3/90

EPA Sample No.	Lab Sample ID.
4007FB	44862-027
4CC001	44862-026
4CC025	44897-026
4CC025D	44897-026D
4CC025S	44897-026S
4CU003	44862-020
4CU004	44862-021
4CU005	44862-022
4CU012	44898-008
4CU013	44898-009
C002RB	44862-031
CC001T	44862-018
CC025T	44897-025
U006RB	44862-037
U014RB	44898-012

Were ICP interelement corrections applied? Yes/No Y

Were ICP background corrections applied? Yes/No Y

If yes-were raw data generated before application of background corrections? Yes/No N

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Richard L Wellman Name: Richard L Wellman
Date: 8/28/95 Title: Opns Mgr

U.S. EPA - CLP

EPA SAMPLE NO.

1
INORGANIC ANALYSIS DATA SHEET

4007FB

Lab Name: PACE INC., NE-NH

Contract: LEJEUNE

Lab Code:

Case No.: OHMRC

SAS No.:

SDG No.: MLJN09

Matrix (soil/water): WATER

Lab Sample ID: 44862-027

Level (low/med): LOW

Date Received: 08/03/95

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	1.9	U		P
7440-39-3	Barium	2.7	U		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	1.5	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	3.7	U		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	1.4	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium	1.7	U		P
7440-22-4	Silver	1.9	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments:

ORIGINAL CLIENT ID = CLJ44-007-FB

U.S. EPA - CLP

EPA SAMPLE NO.

1
INORGANIC ANALYSIS DATA SHEET

4CC001

Lab Name: PACE INC., NE-NH

Contract: LEJEUNE

Lab Code:

Case No.: OHMRC

SAS No.:

SDG No.: MLJN09

Matrix (soil/water): SOIL

Lab Sample ID: 44862-026

Level (low/med): LOW

Date Received: 08/03/95

% Solids: 89.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				
7440-39-3	Barium				
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				
7440-70-2	Calcium				NR
7440-47-3	Chromium				
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	8.4			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium				NR
7440-28-0	Thallium				
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments:

ORIGINAL CLIENT ID = CLJ44-CC-001

U.S. EPA - CLP

EPA SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

4CC025

Lab Name: PACE INC., NE-NH

Contract: LEJEUNE

Lab Code:

Case No.: OHMRC

SAS No.:

SDG No.: MLJN09

Matrix (soil/water): SOIL

Lab Sample ID: 44897-026

Level (low/med): LOW

Date Received: 08/05/95

% Solids: 87.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				
7440-39-3	Barium				
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				
7440-70-2	Calcium				NR
7440-47-3	Chromium				
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	3.0			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium				NR
7440-28-0	Thallium				
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments:

ORIGINAL CLIENT ID = CLJ44-CC-025

U.S. EPA - CLP

EPA SAMPLE NO.

1
INORGANIC ANALYSIS DATA SHEET

4CU003

Lab Name: PACE INC., NE-NH

Contract: LEJEUNE

Lab Code:

Case No.: OHMRC

SAS No.:

SDG No.: MLJN09

Matrix (soil/water): WATER

Lab Sample ID: 44862-020

Level (low/med): LOW

Date Received: 08/03/95

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	20.4			P
7440-39-3	Barium	526			P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	1.5	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	3.7	U		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	18.7			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.46			CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium	23.7	U		P
7440-22-4	Silver	1.9	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments:

ORIGINAL CLIENT ID = CLJ44-CU-003. TCLP EXTRACT.

U.S. EPA - CLP

EPA SAMPLE NO.

1
INORGANIC ANALYSIS DATA SHEET

4CU004

Lab Name: PACE INC., NE-NH

Contract: LEJEUNE

Lab Code:

Case No.: OHMRC

SAS No.:

SDG No.: MLJN09

Matrix (soil/water): WATER

Lab Sample ID: 44862-021

Level (low/med): LOW

Date Received: 08/03/95

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	17.8	U		P
7440-39-3	Barium	290			P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	1.5	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	3.7	U		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	24.0			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium	23.7	U		P
7440-22-4	Silver	1.9	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments:

ORIGINAL CLIENT ID = CLJ44-CU-004. TCLP EXTRACT.

U.S. EPA - CLP

EPA SAMPLE NO.

1
INORGANIC ANALYSIS DATA SHEET

4CU005

Lab Name: PACE INC., NE-NH

Contract: LEJEUNE

Lab Code:

Case No.: OHMRC

SAS No.:

SDG No.: MLJN09

Matrix (soil/water): WATER

Lab Sample ID: 44862-022

Level (low/med): LOW

Date Received: 08/03/95

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	17.8	U		P
7440-39-3	Barium	188	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	2.9	B		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	3.7	U		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	10.8	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium	23.7	U		P
7440-22-4	Silver	1.9	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments:

ORIGINAL CLIENT ID = CLJ44-CU-005. TCLP EXTRACT.

U.S. EPA - CLP

EPA SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

4CU012

Lab Name: PACE INC., NE-NH

Contract: LEJEUNE

Lab Code:

Case No.: OHMRC

SAS No.:

SDG No.: MLJN09

Matrix (soil/water): WATER

Lab Sample ID: 44898-008

Level (low/med): LOW

Date Received: 08/05/95

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	17.8	U		P
7440-39-3	Barium	203			P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	1.5	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	3.7	U		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	39.5			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium	23.7	U		P
7440-22-4	Silver	1.9	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments:

ORIGINAL CLIENT ID = CLJ44-CU-012. TCLP EXTRACT.

U.S. EPA - CLP

EPA SAMPLE NO.

1
INORGANIC ANALYSIS DATA SHEET

4CU013

Lab Name: PACE INC., NE-NH

Contract: LEJEUNE

Lab Code:

Case No.: OHMRC

SAS No.:

SDG No.: MLJN09

Matrix (soil/water): WATER

Lab Sample ID: 44898-009

Level (low/med): LOW

Date Received: 08/05/95

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	17.8	U		P
7440-39-3	Barium	182	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	1.5	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	3.7	U		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	13.8			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium	23.7	U		P
7440-22-4	Silver	1.9	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments:

ORIGINAL CLIENT ID = CLJ44-CU-013. TCLP EXTRACT.

U.S. EPA - CLP

EPA SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

C002RB

Lab Name: PACE INC., NE-NH

Contract: LEJEUNE

Lab Code:

Case No.: OHMRC

SAS No.:

SDG No.: MLJN09

Matrix (soil/water): WATER

Lab Sample ID: 44862-031

Level (low/med): LOW

Date Received: 08/03/95

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	1.9	U		P
7440-39-3	Barium	2.7	U		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	1.5	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	3.7	U		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	1.4	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium	1.7	U		P
7440-22-4	Silver	1.9	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments:

ORIGINAL CLIENT ID = CLJ44-CC-002-RB

U.S. EPA - CLP

EPA SAMPLE NO.

1
INORGANIC ANALYSIS DATA SHEET

CC001T

Lab Name: PACE INC., NE-NH

Contract: LEJEUNE

Lab Code:

Case No.: OHMRC

SAS No.:

SDG No.: MLJN09

Matrix (soil/water): WATER

Lab Sample ID: 44862-018

Level (low/med): LOW

Date Received: 08/03/95

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	17.8	U		P
7440-39-3	Barium	170	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	1.5	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	3.7	U		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	13.0			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium	23.7	U		P
7440-22-4	Silver	1.9	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments:

ORIGINAL CLIENT ID = CLJ44-CC-001. TCLP EXTRACT.

U.S. EPA - CLP

EPA SAMPLE NO.

1
INORGANIC ANALYSIS DATA SHEET

CC025T

Lab Name: PACE INC., NE-NH

Contract: LEJEUNE

Lab Code:

Case No.: OHMRC

SAS No.:

SDG No.: MLJN09

Matrix (soil/water): WATER

Lab Sample ID: 44897-025

Level (low/med): LOW

Date Received: 08/05/95

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	17.8	U		P
7440-39-3	Barium	133	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	1.5	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	3.7	U		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	21.1			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium	23.7	U		P
7440-22-4	Silver	1.9	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments:

ORIGINAL CLIENT ID = CLJ44-CC-025. TCLP EXTRACT.

U.S. EPA - CLP

EPA SAMPLE NO.

1
INORGANIC ANALYSIS DATA SHEET

U006RB

Lab Name: PACE INC., NE-NH

Contract: LEJEUNE

Lab Code:

Case No.: OHMRC

SAS No.:

SDG No.: MLJN09

Matrix (soil/water): WATER

Lab Sample ID: 44862-037

Level (low/med): LOW

Date Received: 08/03/95

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	1.9	U		P
7440-39-3	Barium	2.7	U		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	1.5	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	3.7	U		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	1.4	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium	1.7	U		P
7440-22-4	Silver	2.2	B		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments:

ORIGINAL CLIENT ID = CLJ44-CU-006-RB.

U.S. EPA - CLP

EPA SAMPLE NO.

1
INORGANIC ANALYSIS DATA SHEET

U014RB

Lab Name: PACE INC., NE-NH

Contract: LEJEUNE

Lab Code:

Case No.: OHMRC

SAS No.:

SDG No.: MLJN09

Matrix (soil/water): WATER

Lab Sample ID: 44898-012

Level (low/med): LOW

Date Received: 08/05/95

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	1.9	U		P
7440-39-3	Barium	2.7	U		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	1.5	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	3.7	U		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	1.4	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium	1.7	U		P
7440-22-4	Silver	1.9	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments:

ORIGINAL CLIENT ID = CLJ44-CU-014-RB.

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: PACE INC., NE-NH

Contract: LEJEUNE

Lab Code:

Case No.: OHMRC

SAS No.:

SDG No.: MLJN09

Initial Calibration Source: VHG\MALL\IV

Continuing Calibration Source: SOL+\VHG

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum									NR
Antimony									NR
Arsenic	1000.0	998.71	99.9	10000.0	9606.63	96.1	9723.89	97.2	P
Barium	1000.0	982.30	98.2	40000.0	39864.07	99.7	40225.84	100.6	P
Beryllium									NR
Cadmium	500.0	483.22	96.6	1000.0	982.67	98.3	989.11	98.9	P
Calcium									NR
Chromium	1000.0	955.52	95.6	4000.0	3787.34	94.7	3792.81	94.8	P
Cobalt									NR
Copper									NR
Iron									NR
Lead	1000.0	985.42	98.5	10000.0	9795.37	98.0	9809.48	98.1	P
Magnesium									NR
Manganese									NR
Mercury	4.0	3.39	84.8	5.0	4.83	96.6	4.85	97.0	CV
Nickel									NR
Potassium									NR
Selenium	1000.0	1007.06	100.7	10000.0	9890.48	98.9	9933.47	99.3	P
Silver	200.0	198.41	99.2	1000.0	1005.42	100.5	1009.93	101.0	P
Sodium									NR
Thallium									
Vanadium									NR
Zinc									NR
Cyanide									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: PACE INC., NE-NH

Contract: LEJEUNE

Lab Code:

Case No.: OHMRC

SAS No.:

SDG No.: MLJN09

Initial Calibration Source: VHG\MALL\IV

Continuing Calibration Source: SOL+\VHG

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum									NR
Antimony									NR
Arsenic				10000.0	9818.40	98.2	9819.78	98.2	P
Barium				40000.0	40401.79	101.0	40749.20	101.9	P
Beryllium									NR
Cadmium				1000.0	996.76	99.7	994.32	99.4	P
Calcium									NR
Chromium				4000.0	3814.65	95.4	3828.52	95.7	P
Cobalt									NR
Copper									NR
Iron									NR
Lead				10000.0	9908.65	99.1	9905.40	99.1	P
Magnesium									NR
Manganese									NR
Mercury				5.0	5.01	100.2			CV
Nickel									NR
Potassium									NR
Selenium				10000.0	10037.13	100.4	10066.11	100.7	P
Silver				1000.0	1018.49	101.8	1016.63	101.7	P
Sodium									NR
Thallium									
Vanadium									NR
Zinc									NR
Cyanide									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: PACE INC., NE-NH

Contract: LEJEUNE

Lab Code:

Case No.: OHMRC

SAS No.:

SDG No.: MLJN09

Initial Calibration Source: VHG\MALL\IV

Continuing Calibration Source: SOL+\VHG

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum									NR
Antimony									NR
Arsenic				10000.0	9830.01	98.3	9653.47	96.5	P
Barium				40000.0	41156.58	102.9	40042.33	100.1	P
Beryllium									NR
Cadmium				1000.0	1008.48	100.8	982.84	98.3	P
Calcium									NR
Chromium				4000.0	3870.86	96.8	3769.96	94.2	P
Cobalt									NR
Copper									NR
Iron									NR
Lead				10000.0	9988.79	99.9	9786.31	97.9	P
Magnesium									NR
Manganese									NR
Mercury									
Nickel									NR
Potassium									NR
Selenium				10000.0	10133.94	101.3	9892.55	98.9	P
Silver				1000.0	1026.25	102.6	1007.90	100.8	P
Sodium									NR
Thallium									
Vanadium									NR
Zinc									NR
Cyanide									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: PACE INC., NE-NH

Contract: LEJEUNE

Lab Code:

Case No.: OHMRC

SAS No.:

SDG No.: MLJN09

Initial Calibration Source: VHG\MALL\IV

Continuing Calibration Source: SOL+\VHG

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum									NR
Antimony									NR
Arsenic				10000.0	9699.66	97.0	9791.68	97.9	P
Barium				40000.0	40274.49	100.7	41520.64	103.8	P
Beryllium									NR
Cadmium				1000.0	996.48	99.6	1005.13	100.5	P
Calcium									NR
Chromium				4000.0	3806.13	95.2	3889.34	97.2	P
Cobalt									NR
Copper									NR
Iron									NR
Lead				10000.0	9864.41	98.6	10040.93	100.4	P
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium				10000.0	9914.45	99.1	10308.72	103.1	P
Silver				1000.0	1018.26	101.8	1041.09	104.1	P
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: PACE INC., NE-NH

Contract: LEJEUNE

Lab Code:

Case No.: OHMRC

SAS No.:

SDG No.: MLJN09

Initial Calibration Source: VHG\MALL\IV

Continuing Calibration Source: SOL+\VHG

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum									NR
Antimony									NR
Arsenic				10000.0	10031.69	100.3	9805.79	98.1	P
Barium				40000.0	42742.45	106.9	42420.21	106.1	P
Beryllium									NR
Cadmium				1000.0	1023.84	102.4	1013.21	101.3	P
Calcium									NR
Chromium				4000.0	3962.99	99.1	3924.65	98.1	P
Cobalt									NR
Copper									NR
Iron									NR
Lead				10000.0	10213.54	102.1	10122.22	101.2	P
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium				10000.0	10608.49	106.1	10359.68	103.6	P
Silver				1000.0	1063.30	106.3	1051.87	105.2	P
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: PACE INC., NE-NH

Contract: LEJEUNE

Lab Code:

Case No.: OHMRC

SAS No.:

SDG No.: MLJN09

Initial Calibration Source: VHG\MALL\IV

Continuing Calibration Source: SOL+\VHG

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum									NR
Antimony									NR
Arsenic	1000.0	1039.50	104.0	10000.0	9644.50	96.4	9585.02	95.9	P
Barium	1000.0	1002.64	100.3	40000.0	40398.08	101.0	40706.41	101.8	P
Beryllium									NR
Cadmium	500.0	500.98	100.2	1000.0	983.82	98.4	986.09	98.6	P
Calcium									NR
Chromium	1000.0	1043.97	104.4	4000.0	4074.37	101.9	4116.65	102.9	P
Cobalt									NR
Copper									NR
Iron									NR
Lead	1000.0	997.58	99.8	10000.0	9834.90	98.3	9853.09	98.5	P
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium	1000.0	1041.29	104.1	10000.0	9931.38	99.3	10086.31	100.9	P
Silver	200.0	210.87	105.4	1000.0	1057.57	105.8	1052.80	105.3	P
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: PACE INC., NE-NH

Contract: LEJEUNE

Lab Code:

Case No.: OHMRC

SAS No.:

SDG No.: MLJN09

Initial Calibration Source: VHG\MALL\IV

Continuing Calibration Source: SOL+\VHG

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum									NR
Antimony									NR
Arsenic				10000.0	9369.98	93.7	9820.48	98.2	P
Barium				40000.0	39319.49	98.3	40618.09	101.5	P
Beryllium									NR
Cadmium				1000.0	966.82	96.7	1003.62	100.4	P
Calcium									NR
Chromium				4000.0	3997.20	99.9	4128.70	103.2	P
Cobalt									NR
Copper									NR
Iron									NR
Lead				10000.0	9588.10	95.9	9919.49	99.2	P
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium				10000.0	9572.23	95.7	9970.26	99.7	P
Silver				1000.0	1040.41	104.0	1082.08	108.2	P
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: PACE INC., NE-NH

Contract: LEJEUNE

Lab Code:

Case No.: OHMRC

SAS No.:

SDG No.: MLJN09

Initial Calibration Source: VHG\MALL\IV

Continuing Calibration Source: SOL+\VHG

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum									NR
Antimony									NR
Arsenic				10000.0	9490.00	94.9	9161.31	91.6	P
Barium				40000.0	39159.04	97.9	38872.54	97.2	P
Beryllium									NR
Cadmium				1000.0	973.78	97.4	964.73	96.5	P
Calcium									NR
Chromium				4000.0	3991.28	99.8	3938.38	98.5	P
Cobalt									NR
Copper									NR
Iron									NR
Lead				10000.0	9596.05	96.0	9469.23	94.7	P
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium				10000.0	9613.80	96.1	9373.04	93.7	P
Silver				1000.0	1048.41	104.8	1033.47	103.3	P
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: PACE INC., NE-NH

Contract: LEJEUNE

Lab Code:

Case No.: OHMRC

SAS No.:

SDG No.: MLJN09

Initial Calibration Source: VHG\MALL\IV

Continuing Calibration Source: SOL+\VHG

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum									NR
Antimony									NR
Arsenic				10000.0	10141.98	101.4			P
Barium				40000.0	44044.29	110.1			P
Beryllium									NR
Cadmium				1000.0	1030.24	103.0			P
Calcium									NR
Chromium				4000.0	4296.81	107.4			P
Cobalt									NR
Copper									NR
Iron									NR
Lead				10000.0	10219.96	102.2			P
Magnesium									NR
Manganese									NR
Mercury									
Nickel									NR
Potassium									NR
Selenium				10000.0	10506.60	105.1			P
Silver				1000.0	1128.31	112.8			P
Sodium									NR
Thallium									
Vanadium									
Zinc									NR
Cyanide									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: PACE INC., NE-NH

Contract: LEJEUNE

Lab Code:

Case No.: OHMRC

SAS No.:

SDG No.: MLJN09

Initial Calibration Source: VHG\MALL\IV

Continuing Calibration Source: SOL+\VHG

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum									NR
Antimony									NR
Arsenic	1000.0	966.92	96.7	1000.0	975.55	97.6	959.35	95.9	P
Barium									
Beryllium									NR
Cadmium									
Calcium									NR
Chromium									
Cobalt									NR
Copper									NR
Iron									NR
Lead	1000.0	954.82	95.5	1000.0	973.85	97.4	955.22	95.5	P
Magnesium									NR
Manganese									NR
Mercury									
Nickel									NR
Potassium									NR
Selenium	1000.0	986.89	98.7	1000.0	1002.53	100.3	982.98	98.3	P
Silver									
Sodium									NR
Thallium									
Vanadium									NR
Zinc									NR
Cyanide									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: PACE INC., NE-NH

Contract: LEJEUNE

Lab Code:

Case No.: OHMRC

SAS No.:

SDG No.: MLJN09

Initial Calibration Source: VHG\MALL\IV

Continuing Calibration Source: SOL+\VHG

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum									NR
Antimony									NR
Arsenic				1000.0	955.78	95.6	947.99	94.8	P
Barium									
Beryllium									NR
Cadmium									
Calcium									NR
Chromium									
Cobalt									NR
Copper									NR
Iron									NR
Lead				1000.0	939.41	93.9	934.54	93.5	P
Magnesium									NR
Manganese									NR
Mercury									
Nickel									NR
Potassium									NR
Selenium				1000.0	973.46	97.3	967.29	96.7	P
Silver									
Sodium									NR
Thallium									
Vanadium									NR
Zinc									NR
Cyanide									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

3
BLANKS

Lab Name: PACE INC., NE-NH

Contract: LEJEUNE

Lab Code:

Case No.: OHMRC

SAS No.:

SDG No.: MLJN09

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		M
		C	1	C	2	C	3	C		C	
Aluminum											NR
Antimony											NR
Arsenic	17.8	U	20.6		28.4		17.8	U	17.800	U	P
Barium	2.7	U	11.8	B	17.8	B	16.4	B	2.700	U	P
Beryllium											NR
Cadmium	1.5	U	1.5	U	1.5	U	1.5	U	1.500	U	P
Calcium											NR
Chromium	3.7	U	3.7	U	3.7	U	3.7	U	3.700	U	P
Cobalt											NR
Copper											NR
Iron											NR
Lead	10.8	U	11.0		10.8	U	20.1		10.800	U	P
Magnesium											NR
Manganese											NR
Mercury	0.1	U	0.1	U	0.1	U	0.1	U	0.100	U	CV
Nickel											NR
Potassium											NR
Selenium	23.7	U	23.7	U	23.7	U	23.7	U	23.700	U	P
Silver	1.9	U	1.9	U	2.0	B	2.1	B	1.900	U	P
Sodium											NR
Thallium											
Vanadium											NR
Zinc											NR
Cyanide											NR

U.S. EPA - CLP

3
BLANKS

Lab Name: PACE INC., NE-NH

Contract: LEJEUNE

Lab Code:

Case No.: OHMRC

SAS No.:

SDG No.: MLJN09

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L)						Prepa- ration Blank	C	M
			1	C	2	C	3	C			
Aluminum										NR	
Antimony										NR	
Arsenic			24.0		17.8	U		28.2		P	
Barium			16.6	B	16.2	B		7.9	B	P	
Beryllium										NR	
Cadmium			1.5	U	1.5	U		1.5	U	P	
Calcium										NR	
Chromium			3.7	U	3.7	U		3.7	U	P	
Cobalt										NR	
Copper										NR	
Iron										NR	
Lead			17.5		10.8	U		14.9		P	
Magnesium										NR	
Manganese										NR	
Mercury											
Nickel										NR	
Potassium										NR	
Selenium			23.7	U	23.7	U		23.7	U	P	
Silver			1.9	U	1.9	U		1.9	U	P	
Sodium										NR	
Thallium											
Vanadium										NR	
Zinc										NR	
Cyanide										NR	

U.S. EPA - CLP

3
BLANKS

Lab Name: PACE INC., NE-NH

Contract: LEJEUNE

Lab Code:

Case No.: OHMRC

SAS No.:

SDG No.: MLJN09

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L)						Preparation Blank	C	M
			1	C	2	C	3	C			
Aluminum										NR	
Antimony										NR	
Arsenic			32.0		17.8	U		22.0		P	
Barium			11.5	B	18.3	B		19.0	B	P	
Beryllium										NR	
Cadmium			1.5	U	1.5	U		1.5	U	P	
Calcium										NR	
Chromium			3.7	U	3.7	U		3.7	U	P	
Cobalt										NR	
Copper										NR	
Iron										NR	
Lead			15.6		10.8	U		10.8	U	P	
Magnesium										NR	
Manganese										NR	
Mercury											
Nickel										NR	
Potassium										NR	
Selenium			23.7	U	23.7	U		23.7	U	P	
Silver			1.9	U	1.9	U		1.9	U	P	
Sodium										NR	
Thallium											
Vanadium										NR	
Zinc										NR	
Cyanide										NR	

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3
BLANKS

Lab Name: PACE INC., NE-NH

Contract: LEJEUNE

Lab Code:

Case No.: OHMRC

SAS No.:

SDG No.: MLJN09

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L) C		Continuing Calibration Blank (ug/L)						Preparation Blank C		M
	1	C	1	C	2	C	3	C			
Aluminum											NR
Antimony											NR
Arsenic			26.8								P
Barium			16.9	B							P
Beryllium											NR
Cadmium			1.5	U							P
Calcium											NR
Chromium			3.7	U							P
Cobalt											NR
Copper											NR
Iron											NR
Lead			10.8	U							P
Magnesium											NR
Manganese											NR
Mercury											
Nickel											NR
Potassium											NR
Selenium			23.7	U							P
Silver			2.0	B							P
Sodium											NR
Thallium											
Vanadium											NR
Zinc											NR
Cyanide											NR

U.S. EPA - CLP

3
BLANKS

Lab Name: PACE INC., NE-NH

Contract: LEJEUNE

Lab Code:

Case No.: OHMRC

SAS No.:

SDG No.: MLJN09

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		M
		C	1	C	2	C	3	C		C	
Aluminum		-		-		-		-		-	NR
Antimony		-		-		-		-		-	NR
Arsenic	17.8	U	17.8	U	17.8	U	17.8	U			P
Barium	-7.0	B	2.7	U	6.5	B	6.2	B			P
Beryllium		-		-		-		-		-	NR
Cadmium	-1.6	B	1.5	U	1.5	U	1.5	U			P
Calcium		-		-		-		-		-	NR
Chromium	3.7	U	3.7	U	3.7	U	3.7	U			P
Cobalt		-		-		-		-		-	NR
Copper		-		-		-		-		-	NR
Iron		-		-		-		-		-	NR
Lead	10.8	U	10.8	U	10.8	U	10.8	U			P
Magnesium		-		-		-		-		-	NR
Manganese		-		-		-		-		-	NR
Mercury		-		-		-		-		-	NR
Nickel		-		-		-		-		-	NR
Potassium		-		-		-		-		-	NR
Selenium	23.7	U	23.7	U	23.7	U	23.7	U			P
Silver	1.9	U	1.9	U	1.9	U	1.9	U			P
Sodium		-		-		-		-		-	NR
Thallium		-		-		-		-		-	NR
Vanadium		-		-		-		-		-	NR
Zinc		-		-		-		-		-	NR
Cyanide		-		-		-		-		-	NR

U.S. EPA - CLP

3
BLANKS

Lab Name: PACE INC., NE-NH

Contract: LEJEUNE

Lab Code:

Case No.: OHMRC

SAS No.:

SDG No.: MLJN09

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		M
		C	1	C	2	C	3	C		C	
Aluminum											NR
Antimony											NR
Arsenic			27.2		17.8	U		17.8	U		P
Barium			23.7	B	21.9	B		21.5	B		P
Beryllium											NR
Cadmium			1.8	B	1.5	U		1.5	U		P
Calcium											NR
Chromium			3.7	U	3.8	B		3.7	U		P
Cobalt											NR
Copper											NR
Iron											NR
Lead			10.8	U	10.8	U		10.8	U		P
Magnesium											NR
Manganese											NR
Mercury											
Nickel											NR
Potassium											NR
Selenium			23.7	U	23.7	U		23.7	U		P
Silver			2.0	B	1.9	U		1.9	U		P
Sodium											NR
Thallium											
Vanadium											NR
Zinc											NR
Cyanide											NR

U.S. EPA - CLP

3
BLANKS

Lab Name: PACE INC., NE-NH

Contract: LEJEUNE

Lab Code:

Case No.: OHMRC

SAS No.:

SDG No.: MLJN09

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L)						Preparation Blank	C	M
			1	C	2	C	3	C			
Aluminum										NR	
Antimony										NR	
Arsenic			17.8	U						P	
Barium			8.8	B						P	
Beryllium										NR	
Cadmium			1.5	U						P	
Calcium										NR	
Chromium			3.7	U						P	
Cobalt										NR	
Copper										NR	
Iron										NR	
Lead			10.8	U						P	
Magnesium										NR	
Manganese										NR	
Mercury											
Nickel										NR	
Potassium										NR	
Selenium			23.7	U						P	
Silver			3.6	B						P	
Sodium										NR	
Thallium											
Vanadium										NR	
Zinc										NR	
Cyanide										NR	

U.S. EPA - CLP

3
BLANKS

Lab Name: PACE INC., NE-NH

Contract: LEJEUNE

Lab Code:

Case No.: OHMRC

SAS No.:

SDG No.: MLJN09

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		M
		C	1	C	2	C	3	C		C	
Aluminum											NR
Antimony											NR
Arsenic	1.9	B	3.0	B	2.0	B	1.9	U	2.070	B	P
Barium									2.700	U	P
Beryllium											NR
Cadmium									1.500	U	P
Calcium											NR
Chromium									3.700	U	P
Cobalt											NR
Copper											NR
Iron											NR
Lead	1.4	U	1.4	U	1.4	U	1.4	U	1.410	B	P
Magnesium											NR
Manganese											NR
Mercury											
Nickel											NR
Potassium											NR
Selenium	1.7	U	-1.8	B	1.7	U	1.7	U	1.700	U	P
Silver									2.270	B	P
Sodium											NR
Thallium											
Vanadium											NR
Zinc											NR
Cyanide											NR

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3
BLANKS

Lab Name: PACE INC., NE-NH

Contract: LEJEUNE

Lab Code:

Case No.: OHMRC

SAS No.:

SDG No.: MLJN09

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L)						Preparation Blank	C	M
			1	C	2	C	3	C			
Aluminum										NR	
Antimony										NR	
Arsenic			1.9	U						P	
Barium											
Beryllium										NR	
Cadmium											
Calcium										NR	
Chromium											
Cobalt										NR	
Copper										NR	
Iron										NR	
Lead			1.4	U				0.244	B	P	
Magnesium										NR	
Manganese										NR	
Mercury											
Nickel										NR	
Potassium										NR	
Selenium			1.7	U						P	
Silver											
Sodium										NR	
Thallium											
Vanadium										NR	
Zinc										NR	
Cyanide										NR	

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4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: PACE INC., NE-NH

Contract: LEJEUNE

Lab Code:

Case No.: OHMRC

SAS No.:

SDG No.: MLJN09

ICP ID Number: TJA01

ICS Source: VHG\SOLNS+

Concentration Units: ug/L

Analyte	True		Initial Found			Final Found		
	Sol. A	Sol. AB	Sol. A	Sol. AB	%R	Sol. A	Sol. AB	%R
Aluminum	500000	500000	502059	506963.4	101.4	529885	540076.7	108.0
Antimony								
Arsenic			59	19.7		-45	39.1	
Barium		500	-3	474.0	94.8	-3	512.5	102.5
Beryllium								
Cadmium		1000	3	903.2	90.3	2	927.9	92.8
Calcium	500000	500000	487470	492674.4	98.5	503549	512246.2	102.4
Chromium		500	-5	424.2	84.8	-2	446.0	89.2
Cobalt								
Copper								
Iron	200000	200000	183509	185785.6	92.9	192089	196026.6	98.0
Lead		1000	21	930.1	93.0	14	944.6	94.5
Magnesium	500000	500000	488928	493927.7	98.8	517081	526874.9	105.4
Manganese								
Mercury								
Nickel								
Potassium								
Selenium			-47	8.4		-99	-138.2	
Silver		1000	1	919.7	92.0	1	964.6	96.5
Sodium								
Thallium								
Vanadium								
Zinc								

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4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: PACE INC., NE-NH

Contract: LEJEUNE

Lab Code:

Case No.: OHMRC

SAS No.:

SDG No.: MLJN09

ICP ID Number: TJA01

ICS Source: VHGSOLNS+

Concentration Units: ug/L

Analyte	True		Initial Found			Final Found		
	Sol. A	Sol. AB	Sol. A	Sol. AB	%R	Sol. A	Sol. AB	%R
Aluminum	500000	500000	503004	502390.3	100.5	494705	496815.1	99.4
Antimony								
Arsenic			75	23.9		33	21.9	
Barium		500	-10	471.5	94.3	-11	477.6	95.5
Beryllium								
Cadmium		1000	2	904.5	90.4	4	903.2	90.3
Calcium	500000	500000	492751	492221.5	98.4	493844	497825.6	99.6
Chromium		500	-2	456.7	91.3	-2	469.1	93.8
Cobalt								
Copper								
Iron	200000	200000	184276	184332.4	92.2	186188	188187.4	94.1
Lead		1000	2	905.1	90.5	-2	925.7	92.6
Magnesium	500000	500000	489833	489733.0	97.9	484537	486963.4	97.4
Manganese								
Mercury								
Nickel								
Potassium								
Selenium			76	10.8		92	24.3	
Silver		1000	2	980.2	98.0	1	979.4	97.9
Sodium								
Thallium								
Vanadium								
Zinc								

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4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: PACE INC., NE-NH

Contract: LEJEUNE

Lab Code:

Case No.: OHMRC

SAS No.:

SDG No.: MLJN09

ICP ID Number: TJA01

ICS Source: VHG\SOLNS+

Concentration Units: ug/L

Analyte	True		Initial Found			Final Found		
	Sol. A	Sol. AB	Sol. A	Sol. AB	%R	Sol. A	Sol. AB	%R
Aluminum	500000	500000				555628	546210.0	109.2
Antimony								
Arsenic						-138	-257.2	
Barium		500				-4	535.5	107.1
Beryllium								
Cadmium		1000				7	941.4	94.1
Calcium	500000	500000				526156	518839.5	103.8
Chromium		500				-4	487.2	97.4
Cobalt								
Copper								
Iron	200000	200000				200604	199624.8	99.8
Lead		1000				-61	907.4	90.7
Magnesium	500000	500000				538725	531466.9	106.3
Manganese								
Mercury								
Nickel								
Potassium								
Selenium						-10	10.2	
Silver		1000				-1	1050.5	105.0
Sodium								
Thallium								
Vanadium								
Zinc								

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4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: PACE INC., NE-NH

Contract: LEJEUNE

Lab Code:

Case No.: OHMRC

SAS No.:

SDG No.: MLJN09

ICP ID Number: TJA02

ICS Source: VHG\SOLNS+

Concentration Units: ug/L

Analyte	True		Initial Found			Final Found		
	Sol. A	Sol. AB	Sol. A	Sol. AB	%R	Sol. A	Sol. AB	%R
Aluminum	500000	500000	455893	449628.8	89.9	430204	428654.2	85.7
Antimony								
Arsenic			1	-2.3		1	-2.7	
Barium								
Beryllium								
Cadmium								
Calcium	500000	500000	437484	431163.6	86.2	415213	409992.1	82.0
Chromium								
Cobalt								
Copper								
Iron	200000	200000	178498	176978.2	88.5	169157	168120.4	84.1
Lead		1000	-2	874.8	87.5	-3	845.2	84.5
Magnesium	500000	500000	468186	462710.4	92.5	444643	439661.6	87.9
Manganese								
Mercury								
Nickel								
Potassium								
Selenium			-1	-1.6		-5	-5.9	
Silver								
Sodium								
Thallium								
Vanadium								
Zinc								

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5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

4CC025S

Lab Name: PACE INC., NE-NH

Contract: LEJEUNE

Lab Code:

Case No.: OHMRC

SAS No.:

SDG No.: MLJN09

Matrix (soil/water): SOIL

Level (low/med): LOW

% Solids for Sample: 87.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR) C	Sample Result (SR) C	Spike Added (SA)	%R	Q	M
Aluminum							NR
Antimony							NR
Arsenic							NR
Barium							NR
Beryllium							NR
Cadmium							NR
Calcium							NR
Chromium							NR
Cobalt							NR
Copper							NR
Iron							NR
Lead	75-125	51.4429	2.9714	55.80	86.9		P
Magnesium							NR
Manganese							NR
Mercury							NR
Nickel							NR
Potassium							NR
Selenium							NR
Silver							NR
Sodium							NR
Thallium							NR
Vanadium							NR
Zinc							NR
Cyanide							NR

Comments:

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6
DUPLICATES

EPA SAMPLE NO.

4CC025D

Lab Name: PACE INC., NE-NH

Contract: LEJEUNE

Lab Code:

Case No.: OHMRC

SAS No.:

SDG No.: MLJN09

Matrix (soil/water): SOIL

Level (low/med): LOW

% Solids for Sample: 87.0

% Solids for Duplicate: 87.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum								NR
Antimony								NR
Arsenic								
Barium								
Beryllium								NR
Cadmium								
Calcium								NR
Chromium								
Cobalt								NR
Copper								NR
Iron								NR
Lead		2.9714		3.3287		11.3		P
Magnesium								NR
Manganese								NR
Mercury								
Nickel								NR
Potassium								NR
Selenium								
Silver								
Sodium								NR
Thallium								
Vanadium								NR
Zinc								NR
Cyanide								NR

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7

LABORATORY CONTROL SAMPLE

Lab Name: PACE INC., NE-NH

Contract: LEJEUNE

Lab Code:

Case No.: OHMRC

SAS No.:

SDG No.: MLJN09

Solid LCS Source: ERA LOT #219

Aqueous LCS Source: SOL+\LL\MALL

Analyte	Aqueous (ug/L)			Solid (mg/kg)				%R
	True	Found	%R	True	Found	C	Limits	
Aluminum								
Antimony								
Arsenic	2000.0	2036.18	101.8					
Barium	2000.0	2101.58	105.1					
Beryllium								
Cadmium	50.0	56.98	114.0					
Calcium								
Chromium	200.0	197.33	98.7					
Cobalt								
Copper								
Iron								
Lead	500.0	497.01	99.4	100.9	88.7		67.0 131.0	87.9
Magnesium								
Manganese								
Mercury	8.0	7.85	98.1					
Nickel								
Potassium								
Selenium	2000.0	1997.20	99.9					
Silver	50.0	52.24	104.5					
Sodium								
Thallium								
Vanadium								
Zinc								
Cyanide								

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7

LABORATORY CONTROL SAMPLE

Lab Name: PACE INC., NE-NH

Contract: LEJEUNE

Lab Code:

Case No.: OHMRC

SAS No.:

SDG No.: MLJN09

Solid LCS Source:

Aqueous LCS Source: SOL+\LL\MALL

Analyte	Aqueous (ug/L)			Solid (mg/kg)				%R
	True	Found	%R	True	Found	C	Limits	
Aluminum								
Antimony								
Arsenic	2000.0	1922.28	96.1					
Barium	2000.0	1949.15	97.5					
Beryllium								
Cadmium	50.0	53.72	107.4					
Calcium								
Chromium	200.0	202.25	101.1					
Cobalt								
Copper								
Iron								
Lead	500.0	460.39	92.1					
Magnesium								
Manganese								
Mercury								
Nickel								
Potassium								
Selenium	2000.0	1879.67	94.0					
Silver	50.0	52.42	104.8					
Sodium								
Thallium								
Vanadium								
Zinc								
Cyanide								

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7

LABORATORY CONTROL SAMPLE

Lab Name: PACE INC., NE-NH

Contract: LEJEUNE

Lab Code:

Case No.: OHMRC

SAS No.:

SDG No.: MLJN09

Solid LCS Source:

Aqueous LCS Source: SOL+\LL\MALL

Analyte	Aqueous (ug/L)			Solid (mg/kg)					%R
	True	Found	%R	True	Found	C	Limits		
Aluminum									
Antimony									
Arsenic	2000.0	1846.25	92.3						
Barium	2000.0	2076.60	103.8						
Beryllium									
Cadmium	50.0	57.51	115.0						
Calcium									
Chromium	200.0	194.96	97.5						
Cobalt									
Copper									
Iron									
Lead	500.0	466.75	93.4						
Magnesium									
Manganese									
Mercury									
Nickel									
Potassium									
Selenium	2000.0	1796.17	89.8						
Silver	50.0	52.09	104.2						
Sodium									
Thallium									
Vanadium									
Zinc									
Cyanide									

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10.

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: PACE INC., NE-NH

Contract: LEJEUNE

Lab Code:

Case No.: OHMRC

SAS No.:

SDG No.: MLJN09

ICP ID Number:

TJA01

Date:

07/25/95

Flame AA ID Number:

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum	308.22		200.0	10.5	P
Antimony	206.84		60.0	10.5	P
Arsenic	193.70		10.0	17.8	P
Barium	493.41		200.0	2.7	P
Beryllium	313.04		5.0	0.3	P
Cadmium	228.80		5.0	1.5	P
Calcium	317.93		5000.0	10.7	P
Chromium	267.72		10.0	3.7	P
Cobalt	228.62		50.0	1.2	P
Copper	324.75		25.0	2.5	P
Iron	259.94		100.0	9.4	P
Lead	220.35		3.0	10.8	P
Magnesium	279.08		5000.0	15.5	P
Manganese	257.61		15.0	0.8	P
Mercury			0.2		
Nickel	231.60		40.0	6.1	P
Potassium	766.49		5000.0	365.9	P
Selenium	196.03		5.0	23.7	P
Silver	328.07		10.0	1.9	P
Sodium	589.00		5000.0	6.4	P
Thallium			10.0		
Vanadium	292.40		50.0	3.5	P
Zinc	213.86		20.0	3.2	P

Comments:

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10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: PACE INC., NE-NH

Contract: LEJEUNE

Lab Code:

Case No.: OHMRC

SAS No.:

SDG No.: MLJN09

ICP ID Number:

TJA02

Date:

06/26/95

Flame AA ID Number:

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200.0		
Antimony			60.0		
Arsenic	189.04		10.0	1.9	P
Barium			200.0		
Beryllium			5.0		
Cadmium			5.0		
Calcium			5000.0		
Chromium			10.0		
Cobalt			50.0		
Copper			25.0		
Iron			100.0		
Lead	220.35		3.0	1.4	P
Magnesium			5000.0		
Manganese			15.0		
Mercury			0.2		
Nickel			40.0		
Potassium			5000.0		
Selenium	196.02		5.0	1.7	P
Silver			10.0		
Sodium			5000.0		
Thallium	190.86		10.0	3.2	P
Vanadium			50.0		
Zinc			20.0		

Comments:

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10
INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: PACE INC., NE-NH

Contract: LEJEUNE

Lab Code:

Case No.: OHMRC

SAS No.:

SDG No.: MLJN09

ICP ID Number:

Date: 05/23/95

Flame AA ID Number: PE02

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200.0		
Antimony			60.0		
Arsenic			10.0		
Barium			200.0		
Beryllium			5.0		
Cadmium			5.0		
Calcium			5000.0		
Chromium			10.0		
Cobalt			50.0		
Copper			25.0		
Iron			100.0		
Lead			3.0		
Magnesium			5000.0		
Manganese			15.0		
Mercury	253.70		0.2	0.1	CV
Nickel			40.0		
Potassium			5000.0		
Selenium			5.0		
Silver			10.0		
Sodium			5000.0		
Thallium			10.0		
Vanadium			50.0		
Zinc			20.0		

Comments:

PE02 IS A MERCURY COLD VAPOR INSTRUMENT.
CALCULATED IDL IS 0.08ug/L

TOXICITY CHARACTERISTIC LEACHING PROCEDURE (1)
EXTRACTION FOR NON-VOLATILE CONSTITUENTS

Laboratory Number : 44862-018
Field Identification : CLJ44-CC-001
Extraction Date : 08/03/95
TCLP Blank : 90,001-273

Sample description : NON-HOMOGENEOUS GRANULAR SOIL

Extraction Fluid Selection (1,2):

A 5.0 gm portion of the sample was stirred with 96.5 mL deionized water. The pH at the end of 5 minutes was 7.47. 3.5 mL 1.0N HCl was added and the mixture was then heated to 50C for ten minutes. Upon cooling the pH was 1.74, therefore Extraction Fluid #1 was used.

Sample Preparation (1):

Since the sample contained no free liquid, it was not filtered before extraction. 100 gm of sample was added to the extractor with 2000 mL Extraction Fluid #1.

Extraction Time : 18.00 hrs

Final pH : 5.40

% Solids as defined in method : 100

References:

1. 40 CFR Part 261, Appendix II, Nov. 24, 1992
2. Extraction Fluid: 0.57% by volume glacial acetic acid to which 0.1N NaOH has been added to yield a pH of 4.93 +/- 0.05.

TOXICITY CHARACTERISTIC LEACHING PROCEDURE (1)
EXTRACTION FOR NON-VOLATILE CONSTITUENTS

Laboratory Number : 44862-020
Field Identification : CLJ44-CU-003
Extraction Date : 08/03/95
TCLP Blank : 90,001-273

Sample description : NON-HOMOGENEOUS GRANULAR SOIL

Extraction Fluid Selection (1,2):

A 5.0 gm portion of the sample was stirred with 96.5 mL deionized water. The pH at the end of 5 minutes was 7.70. 3.5 mL 1.0N HCl was added and the mixture was then heated to 50C for ten minutes. Upon cooling the pH was 1.71, therefore Extraction Fluid #1 was used.

Sample Preparation (1):

Since the sample contained no free liquid, it was not filtered before extraction. 100 gm of sample was added to the extractor with 2000 mL Extraction Fluid #1.

Extraction Time : 18.00 hrs

Final pH : 4.57

% Solids as defined in method : 100

References:

1. 40 CFR Part 261, Appendix II, Nov. 24, 1992
2. Extraction Fluid: 0.57% by volume glacial acetic acid to which 0.1N NaOH has been added to yield a pH of 4.93 +/- 0.05.

TOXICITY CHARACTERISTIC LEACHING PROCEDURE (1)
EXTRACTION FOR NON-VOLATILE CONSTITUENTS

Laboratory Number : 44862-021
Field Identification : CLJ44-CU-004
Extraction Date : 08/03/95
TCLP Blank : 90,001-273

Sample description : NON-HOMOGENEOUS GRANULAR SOIL

Extraction Fluid Selection (1,2):

A 5.0 gm portion of the sample was stirred with 96.5 mL deionized water. The pH at the end of 5 minutes was 7.70. 3.5 mL 1.0N HCl was added and the mixture was then heated to 50C for ten minutes. Upon cooling the pH was 1.79, therefore Extraction Fluid #1 was used.

Sample Preparation (1):

Since the sample contained no free liquid, it was not filtered before extraction. 100 gm of sample was added to the extractor with 2000 mL Extraction Fluid #1.

Extraction Time : 18.00 hrs

Final pH : 5.45

% Solids as defined in method : 100

References:

1. 40 CFR Part 261, Appendix II, Nov. 24, 1992
2. Extraction Fluid: 0.57% by volume glacial acetic acid to which 0.1N NaOH has been added to yield a pH of 4.93 +/- 0.05.

TOXICITY CHARACTERISTIC LEACHING PROCEDURE (1)
EXTRACTION FOR NON-VOLATILE CONSTITUENTS

Laboratory Number : 44862-022
Field Identification : CLJ44-CU-005
Extraction Date : 08/03/95
TCLP Blank : 90,001-273

Sample description : NON-HOMOGENEOUS GRANULAR SOIL

Extraction Fluid Selection (1,2):

A 5.0 gm portion of the sample was stirred with 96.5 mL deionized water. The pH at the end of 5 minutes was 7.72. 3.5 mL 1.0N HCl was added and the mixture was then heated to 50C for ten minutes. Upon cooling the pH was 1.88, therefore Extraction Fluid #1 was used.

Sample Preparation (1):

Since the sample contained no free liquid, it was not filtered before extraction. 100 gm of sample was added to the extractor with 2000 mL Extraction Fluid #1.

Extraction Time : 18.00 hrs

Final pH : 5.26

% Solids as defined in method : 100

References:

1. 40 CFR Part 261, Appendix II, Nov. 24, 1992
2. Extraction Fluid: 0.57% by volume glacial acetic acid to which 0.1N NaOH has been added to yield a pH of 4.93 +/- 0.05.

TOXICITY CHARACTERISTIC LEACHING PROCEDURE (1)
EXTRACTION FOR NON-VOLATILE CONSTITUENTS

Laboratory Number : 44897-025
Field Identification : CLJ44-CC-025
Extraction Date : 08/08/95
TCLP Blank : 90,001-273

Sample description : NON-HOMOGENEOUS GRANULAR SOIL

Extraction Fluid Selection (1,2):

A 5.0 gm portion of the sample was stirred with 96.5 mL deionized water. The pH at the end of 5 minutes was 8.18. 3.5 mL 1.0N HCl was added and the mixture was then heated to 50C for ten minutes. Upon cooling the pH was 1.69, therefore Extraction Fluid #1 was used.

Sample Preparation (1):

Since the sample contained no free liquid, it was not filtered before extraction. 100 gm of sample was added to the extractor with 2000 mL Extraction Fluid #1.

Extraction Time : 17:00 hrs

Final pH : 4.98

% Solids as defined in method : 100

References:

1. 40 CFR Part 261, Appendix II, Nov. 24, 1992
2. Extraction Fluid: 0.57% by volume glacial acetic acid to which 0.1N NaOH has been added to yield a pH of 4.93 +/- 0.05.

TOXICITY CHARACTERISTIC LEACHING PROCEDURE (1)
EXTRACTION FOR NON-VOLATILE CONSTITUENTS

Laboratory Number : 44898-008
Field Identification : CLJ44-CU-012
Extraction Date : 08/08/95
TCLP Blank : 90,001-273

Sample description : NON-HOMOGENEOUS GRANULAR SOIL

Extraction Fluid Selection (1,2):

A 5.0 gm portion of the sample was stirred with 96.5 mL deionized water. The pH at the end of 5 minutes was 8.12. 3.5 mL 1.0N HCl was added and the mixture was then heated to 50C for ten minutes. Upon cooling the pH was 1.70, therefore Extraction Fluid #1 was used.

Sample Preparation (1):

Since the sample contained no free liquid, it was not filtered before extraction. 100 gm of sample was added to the extractor with 2000 mL Extraction Fluid #1.

Extraction Time : 17.00 hrs

Final pH : 5.12

% Solids as defined in method : 100

References:

1. 40 CFR Part 261, Appendix II, Nov. 24, 1992
2. Extraction Fluid: 0.57% by volume glacial acetic acid to which 0.1N NaOH has been added to yield a pH of 4.93 +/- 0.05.

TOXICITY CHARACTERISTIC LEACHING PROCEDURE (1)
EXTRACTION FOR NON-VOLATILE CONSTITUENTS

Laboratory Number : 44898-009
Field Identification : CLJ44-CU-013
Extraction Date : 08/08/95
TCLP Blank : 90,001-273

Sample description : NON-HOMOGENEOUS GRANULAR SOIL

Extraction Fluid Selection (1,2):

A 5.0 gm portion of the sample was stirred with 96.5 mL deionized water. The pH at the end of 5 minutes was 8.31. 3.5 mL 1.0N HCl was added and the mixture was then heated to 50C for ten minutes. Upon cooling the pH was 1.54, therefore Extraction Fluid #1 was used.

Sample Preparation (1):

Since the sample contained no free liquid, it was not filtered before extraction. 100 gm of sample was added to the extractor with 2000 mL Extraction Fluid #1.

Extraction Time : 17.00 hrs

Final pH : 5.69

% Solids as defined in method : 100

References:

1. 40 CFR Part 261, Appendix II, Nov. 24, 1992
2. Extraction Fluid: 0.57% by volume glacial acetic acid to which 0.1N NaOH has been added to yield a pH of 4.93 +/- 0.05.

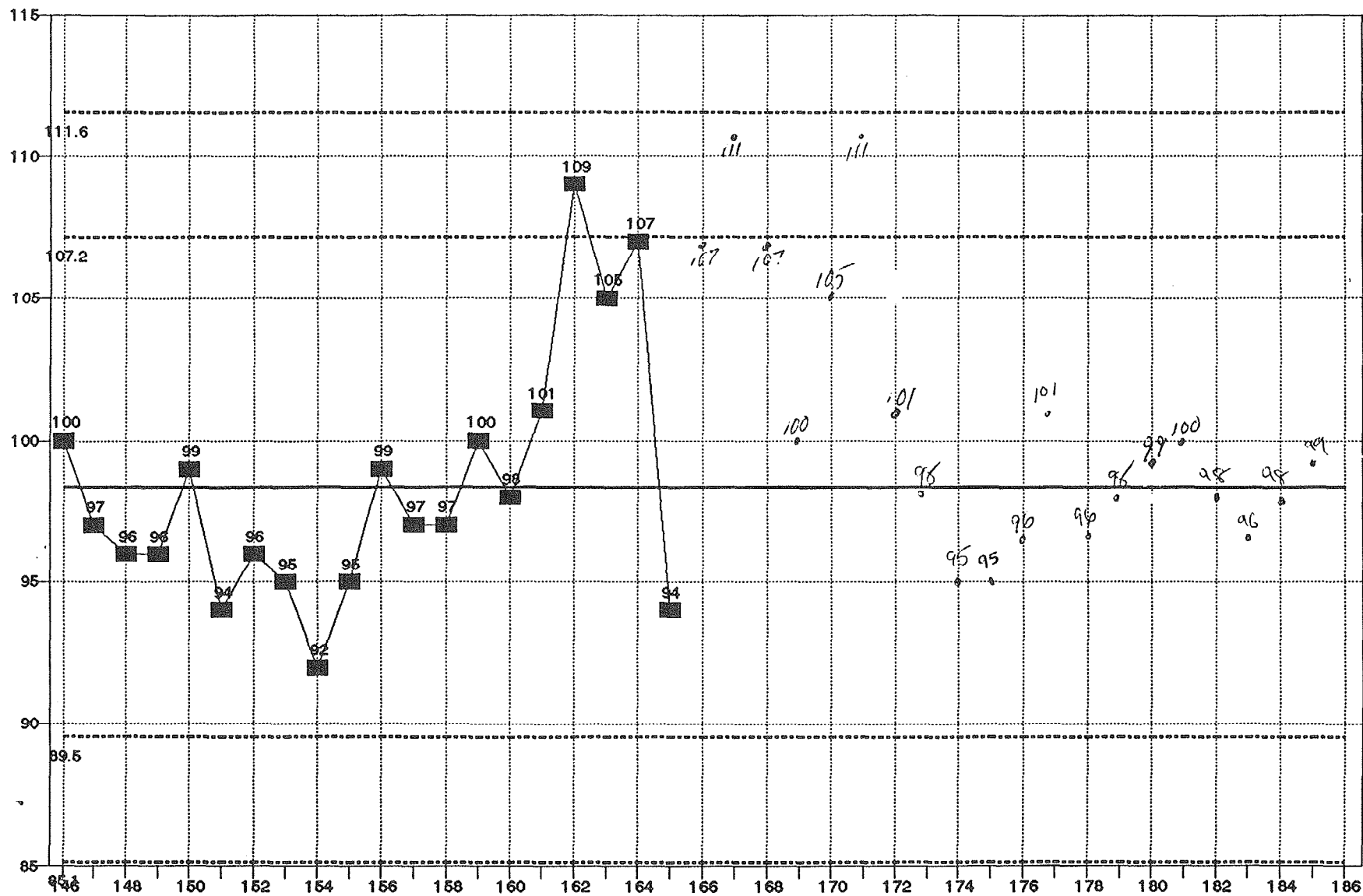
PACE New England, Inc.

Metals Results for TCLP Blank 273

ELEMENT	BLANK RESULT	
Arsenic	< 0.20	mg/L
Barium	1.35	mg/L
Cadmium	< 0.005	mg/L
Chromium	< 0.01	mg/L
Lead	< 0.05	mg/L
Mercury	<0.0003	mg/L
Selenium	< 0.20	mg/L
Silver	< 0.02	mg/L

All results are methods 3010 and 6010,
except mercury (method 7470).

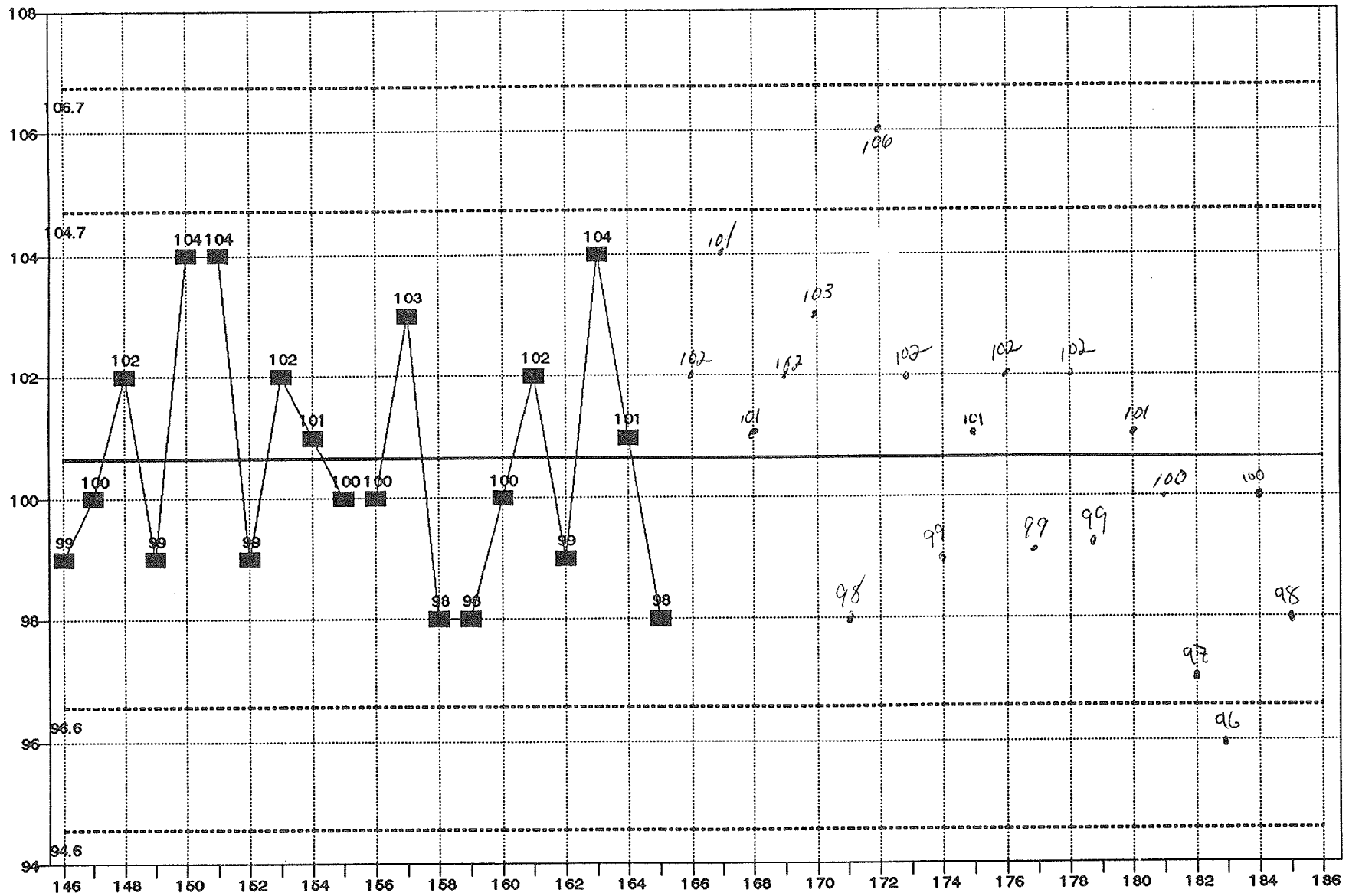
VOA WATERS - SURR DCE LIMITS SET 4/95



STD DEV = 4.40 MEAN = 98.4

0000313

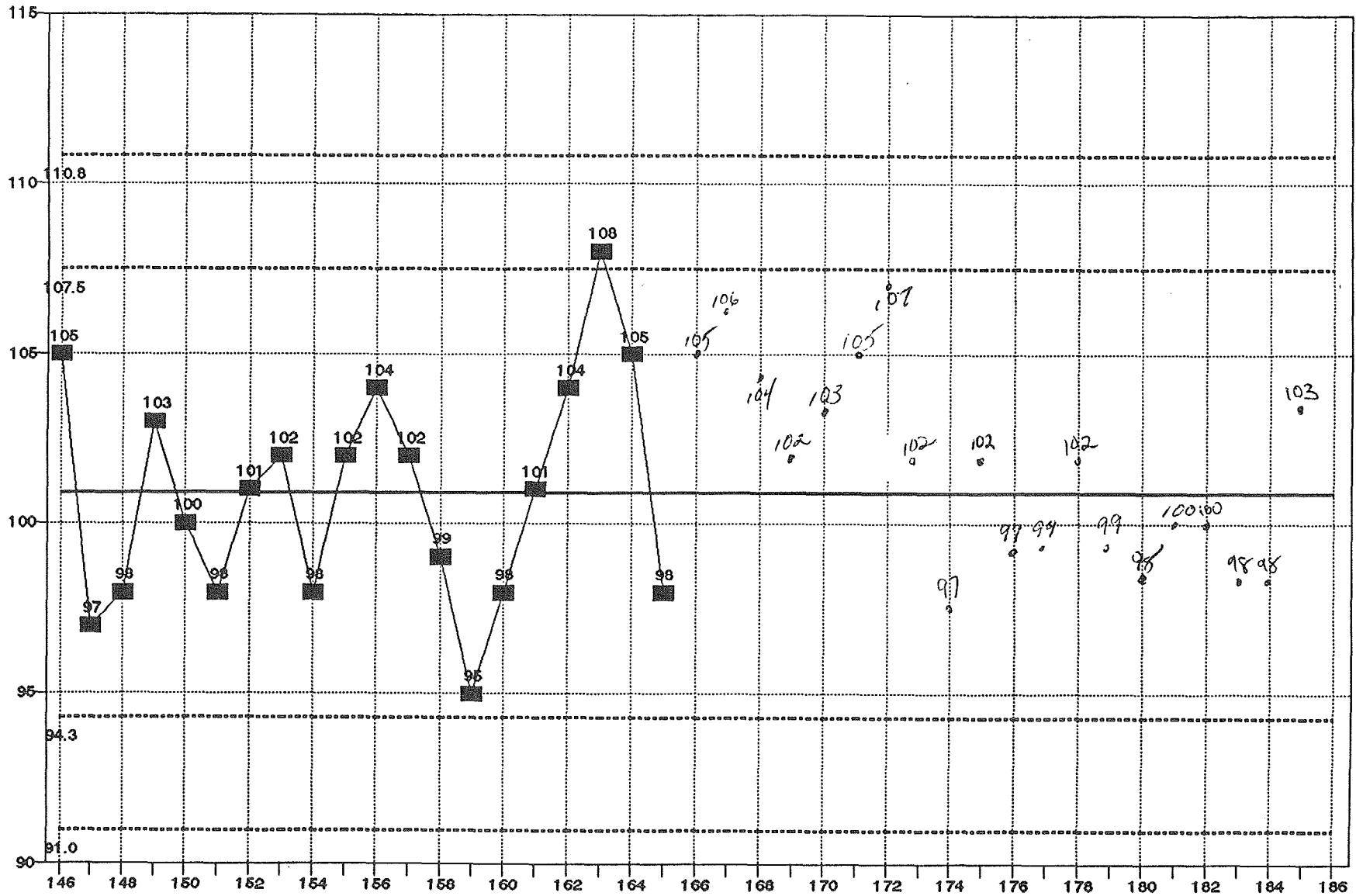
VOA WATERS - SURR TOL LIMIT SET 4/95



STD DEV = 2.03 MEAN = 100.6

0000314

VOA WATERS - SURR BFB LIMIT SET 4/95



STD DEV = 3.31 MEAN = 100.9

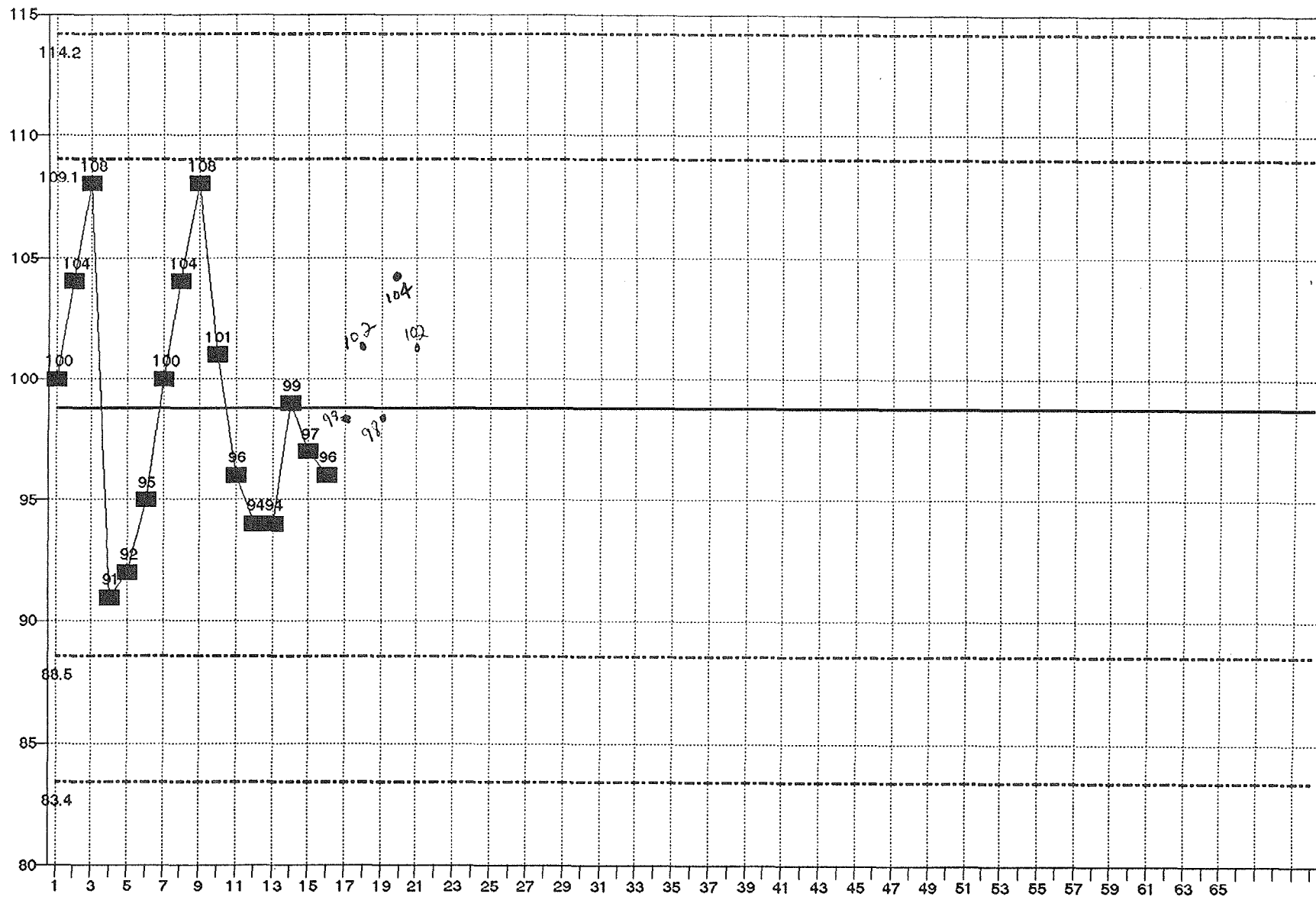
0000315

VOLATILES -- WATER SURROGATE CONTROL CHARTS

POINT / BLANK			DCE, TOL, BFB
21 BE081892A	69 BC041493A	117 BE070794A	165 BC041295A
22 BC082192A	70 BE052593B	118 BE070894A	166 BIC042095B (107, 102, 105)
23 BE082092A	71 BE060193A	119 BC063094A	167 BIC042195A (111, 104, 106)
24 BC082592A	72 BE060393A	120 BC072794A	168 BIC042495A (107, 101, 104)
25 BC082692A	73 BC062193A	121 BD072794A	169 BC042595B (100, 102, 102)
26 BE082792A	74 BE051393A	122 BD072894A	170 BE042795A (105, 103, 103)
27 BE082892B	75 BC062493A	123 BD072994A	171 BE042795A (111, 98, 105)
28 BE083092A	76 BD051993A	124 BE081194A	172 BE050195A (101, 106, 107)
29 BD101492A	77 BD052093B	125 BC081994A	173 BC050595A (98, 102, 102)
30 BC100992A	78 BC063093A	126 BE101194A	174 BC050695A (95, 109, 107)
31 BC110692A	79 BC061093A	127 BE101294B	175 BGC050295B (95, 101, 102)
32 BC111992A	80 BE051393A	128 BG101494A	176 BC042995B1 (94, 102, 99)
33 BE112092A	81 BD072293A	129 BC110294B	177 BC043095B1 (101, 99, 99)
34 BC112392A	82 BD072393A	130 BC110394B	178 BC072495A1 (96, 102, 102)
35 BG113092B	83 BD072693A	131 BC110794B	179 BC072695A1 (98, 99, 99)
36 BG120192A	84 BD072793A	132 BC110894B	180 BE080795A1 (99, 101, 98)
37 BC122292A	85 BD073093A	133 BC110994A	181 BE080795A1 (100, 100, 100)
38 BG013093B	86 BC080493A	134 BC111594B	182 BC080295A1 (98, 97, 100)
39 BC012193A	87 BC080593A	135 BC111794B	183 BC080495A1 (96, 96, 98)
40 BD021693A	88 BE091793A	136 BC111894B	184 BC080795A1 (98, 100, 98)
41 BD021793A	89 BC092093B	137 BG111094A	185 BC080895A1 (99, 98, 103)
42 BD021893A	90 BC093093B	138 BC120194B	186
43 BD021993A	91 BG093093A	139 BC120294B	187
44 BD022293A	92 BE120693A	140 BC120594B	188
45 BD022393A	93 BE120793A	141 BC120694B	189
46 BD022493A	94 BE121793A	142 BC120794B	190
47 BGC030293A	95 BC122793B	143 BC121594B	191
48 BC030193B	96 BC122893A	144 BG120394B	192
49 BGC030393A	97 BGC021094A	145 BC122294B	193
50 BGC030493A	98 BGC021194A	146 BC122994B	194
51 BGC031593A	99 BGC021494A	147 BE121694A	195
52 BGC031693A	100 BGC021594A	148 BE020995B	196
53 BD031893A	101 BC022394B	149 BE021395A	197
54 BD031993A	102 BC022494C	150 BE021595A	198
55 BC032293B	103 BC022594B	151 BE021695A	199
56 BC032393A	104 BGC022594B	152 BC032295A	200
57 BC041293A	105 BGC022894A	153 BC032395A	201
58 BC041393A	106 BGC030394A	154 BC032495A	202
59 BC041993A	107 BD022194A	155 BC032795A	203
60 BE042893A	108 BC031194A	156 BC040695A	204
61 BE042993A	109 BC031594B	157 BC041195B	205
62 BE043093A	110 BGC040794A	158 BC041395A	206
63 BE050393A	111 BC041294B	159 BC041495A	207
64 BE050493A	112 BGC042894A	160 BGC041095B	208
65 BE050593A	113 BGC042994A	161 BGC041495B	209
66 BE050693A	114 BC050994C	162 BIC041395A	210
67 BE051093A	115 BGC060394A	163 BIC041895B	211
68 BE051193A	116 BC050394B	164 BIC041995A	212



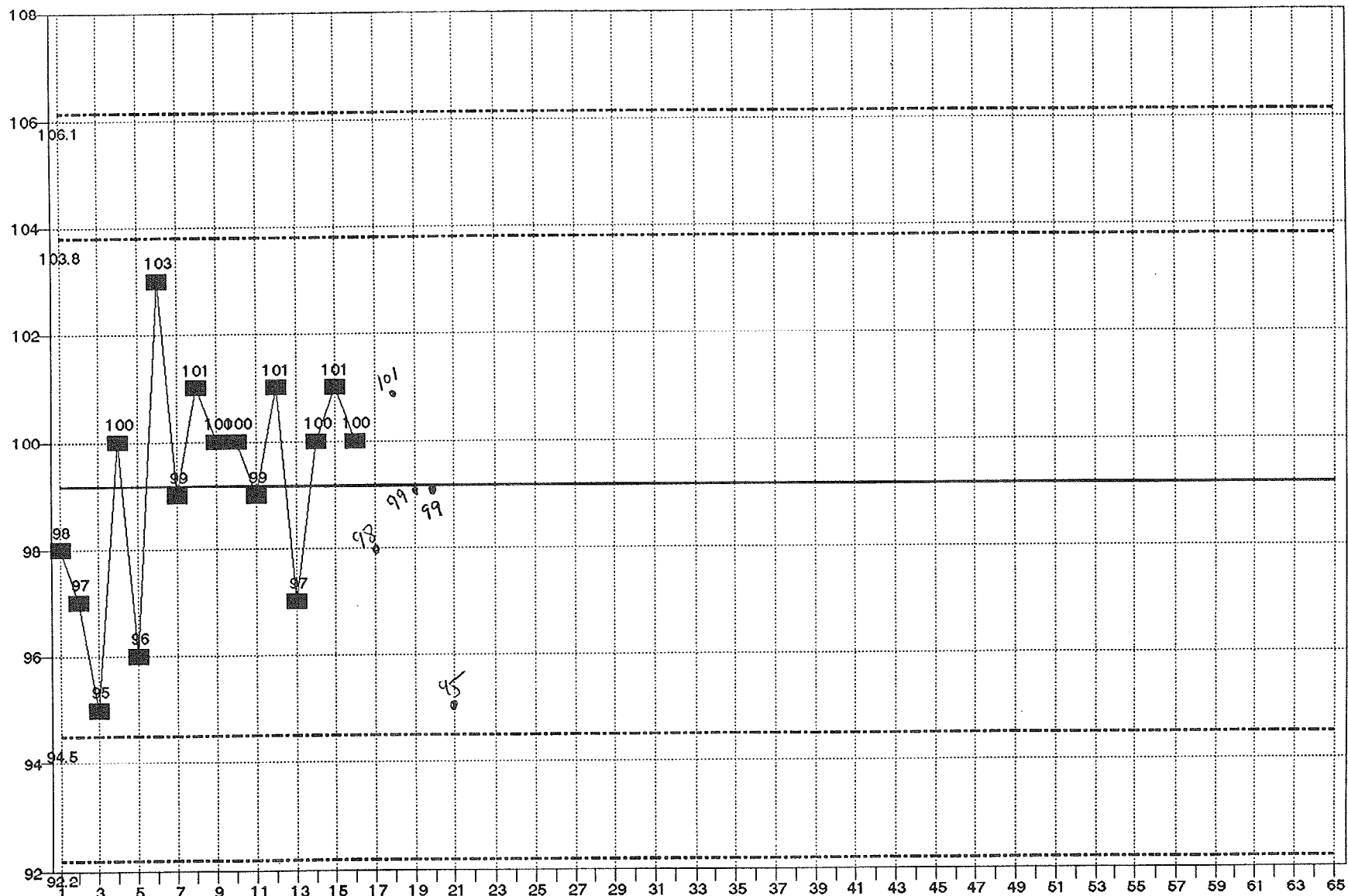
VOA TCLP - SURR DCE LIMIT SET 7/93



STD DEV = 5.13 MEAN = 98.8

0000317

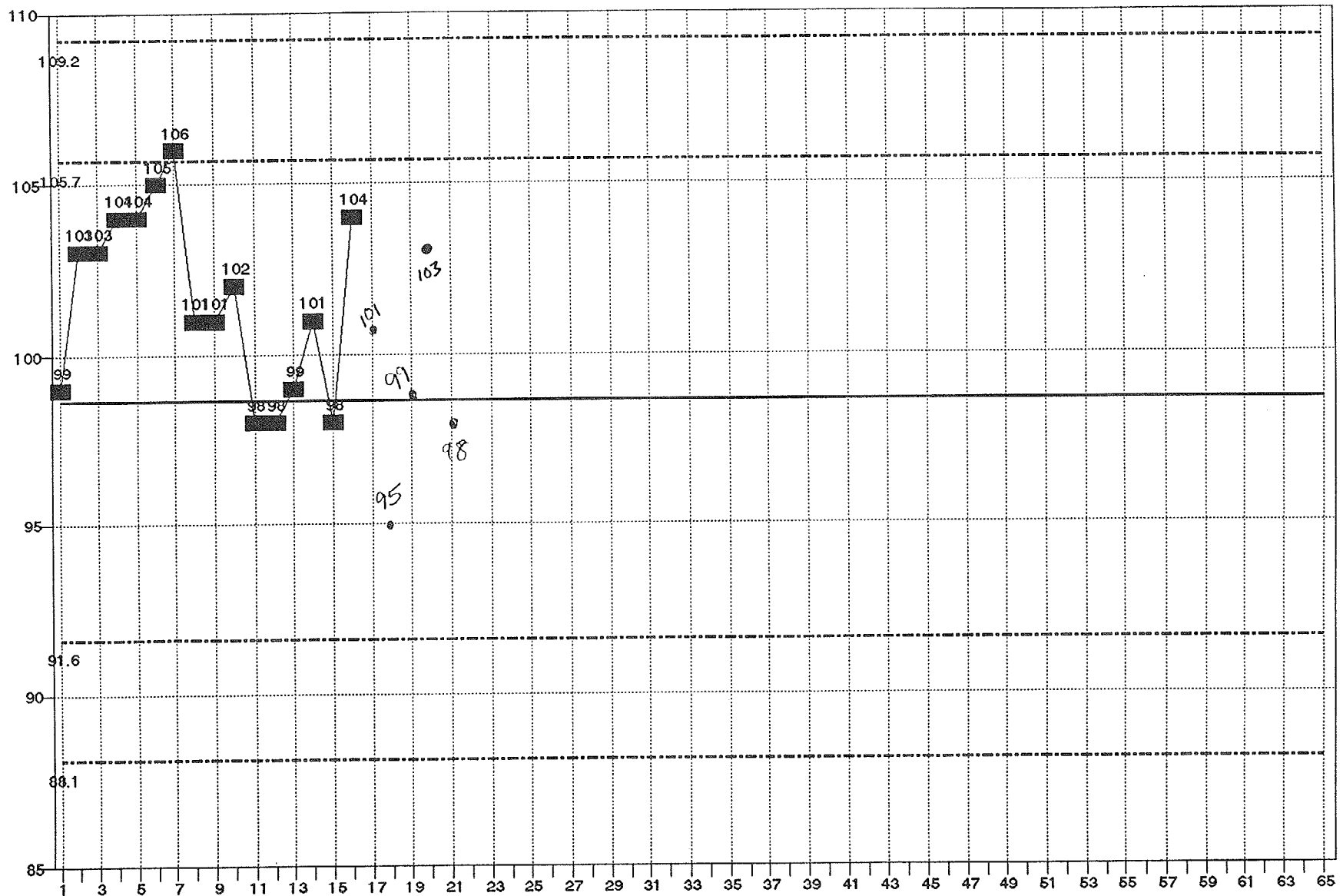
VOA TCLP - SURR TOL LIMIT SET 7/93



STD DEV = 2.32 MEAN = 99.1

0000318

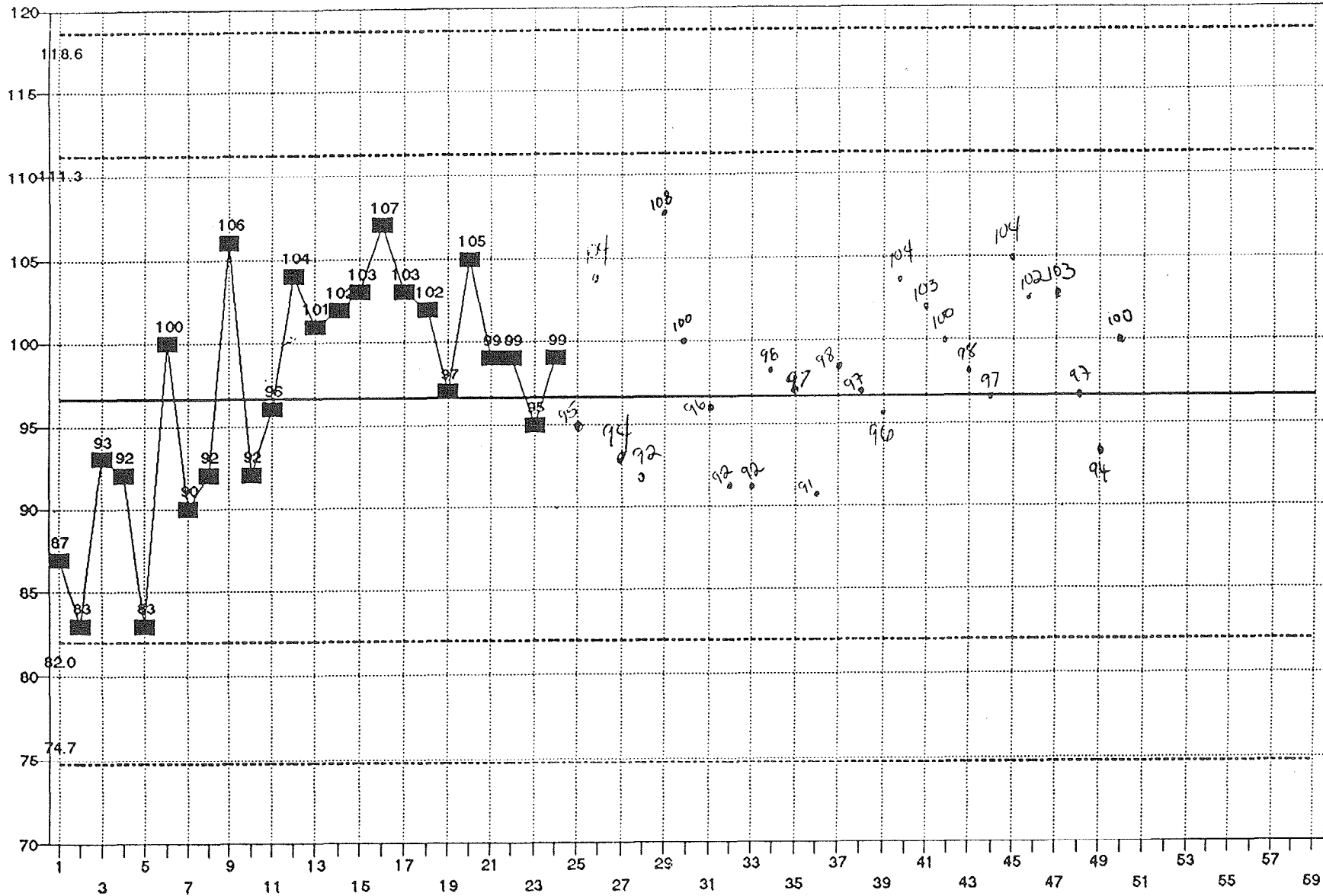
VOA TCLP - SURR BFB LIMIT SET 7/93



STD DEV = 3.51 MEAN = 98.6

0000319

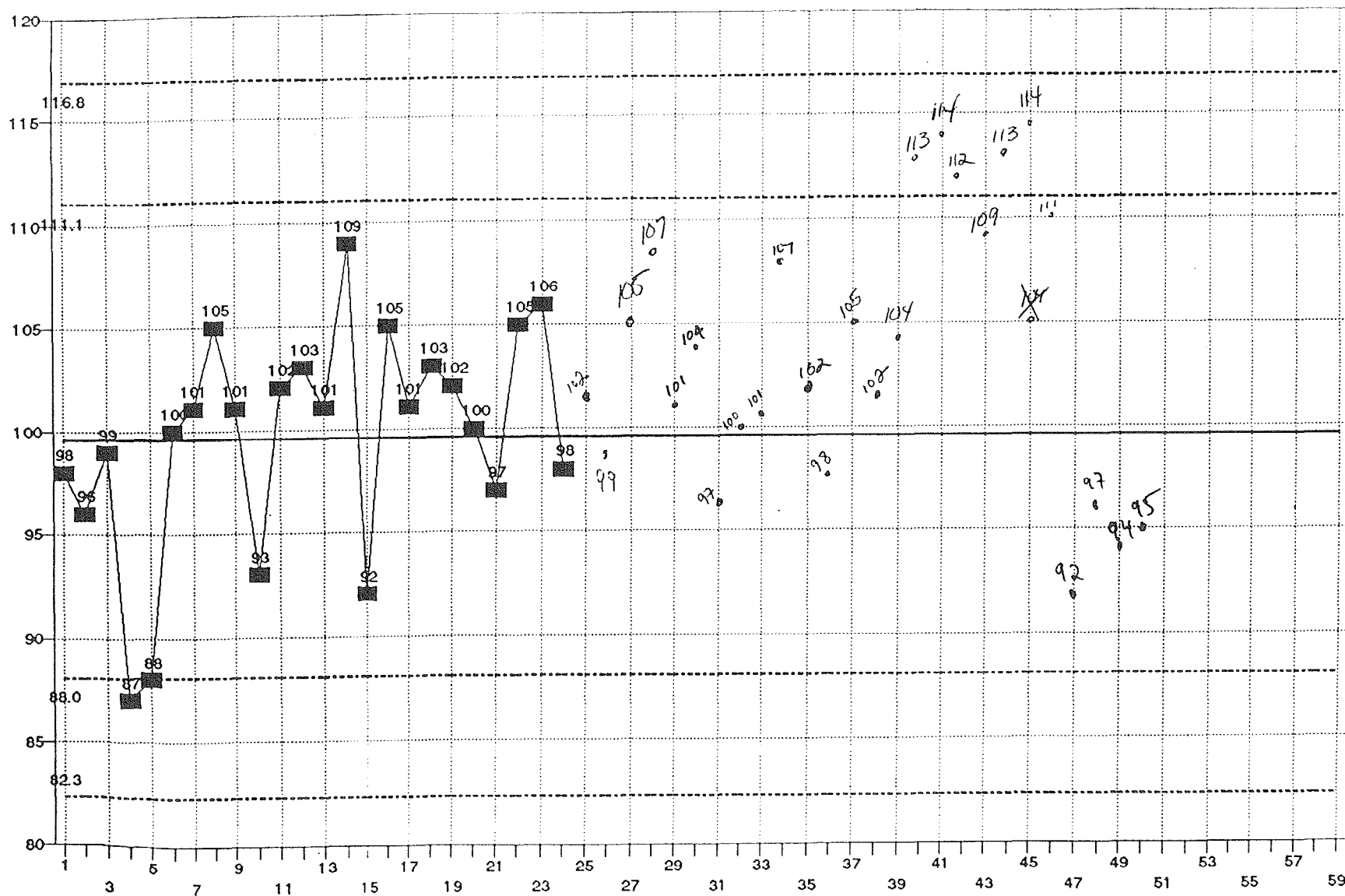
VOA MED SOLIDS - SURR DCE LIMIT SET 2/94



STD DEV = 7.31 MEAN = 96.6

0000320

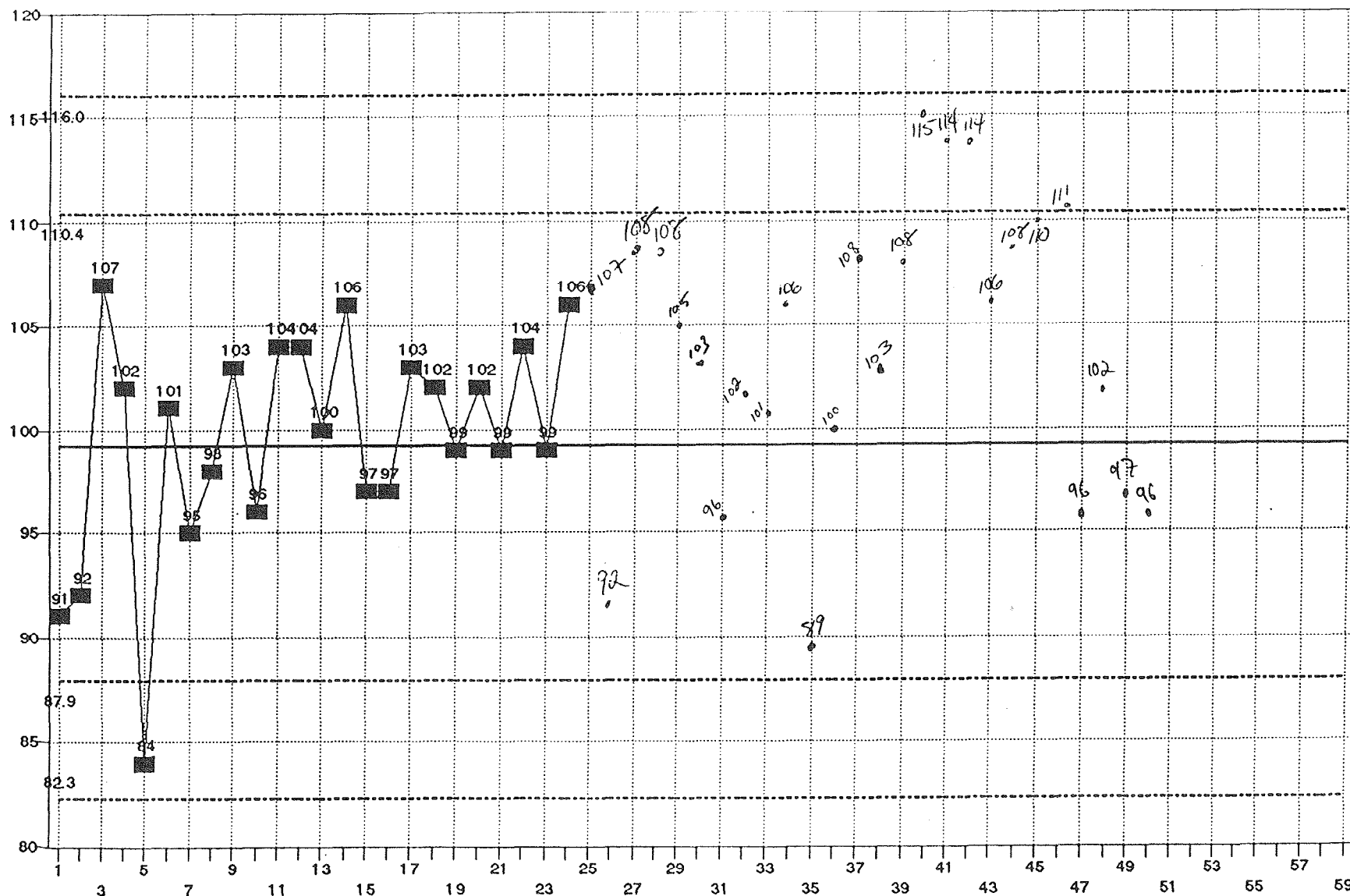
VOA MED SOLIDS - SURR TOL LIMIT SET 2/94



STD DEV = 5.75 MEAN = 99.6

0000321

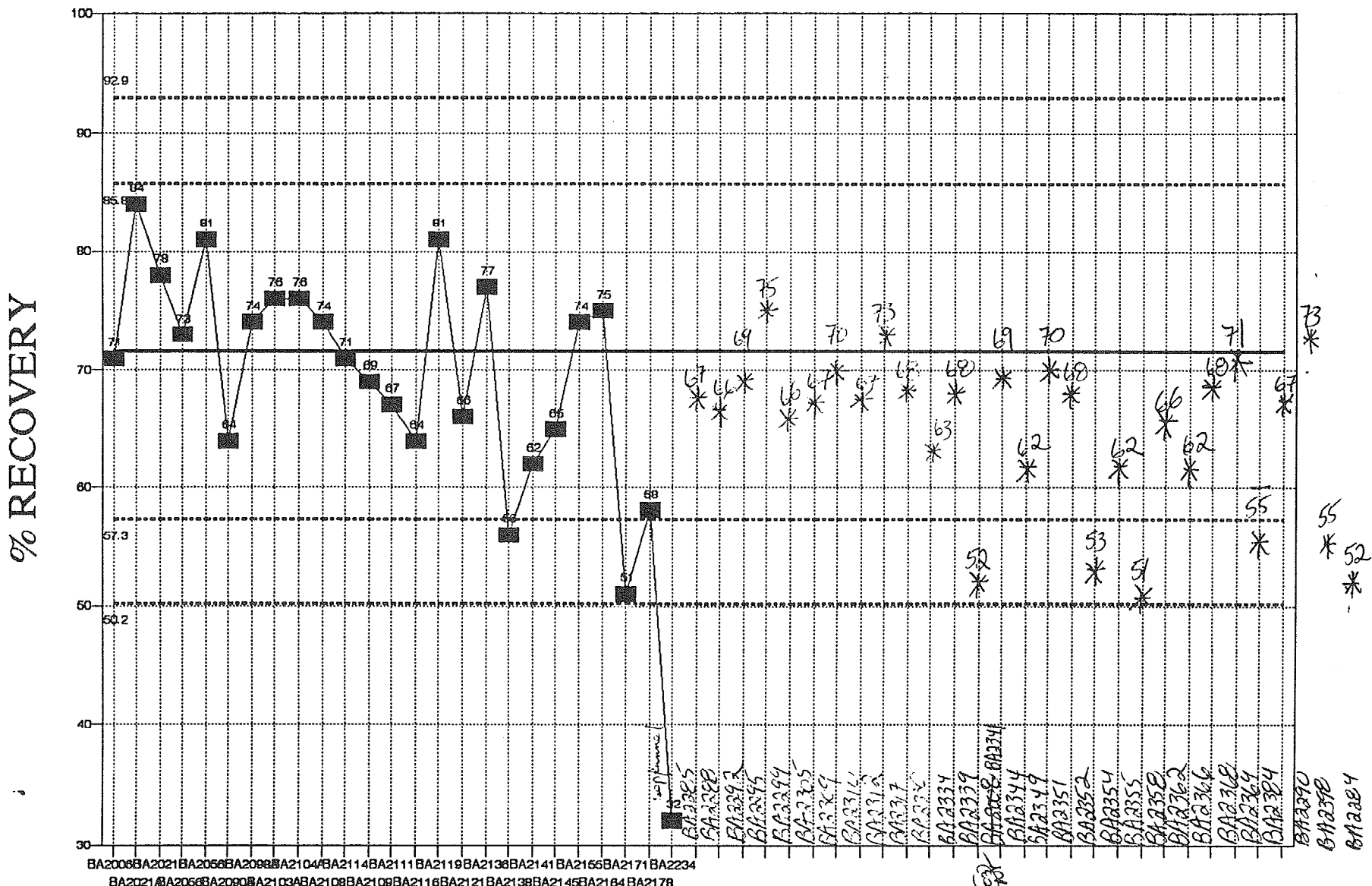
VOA MED SOLIDS - SURR BFB LIMIT SET 2/94



STD DEV = 5.61 MEAN = 99.2

0000322

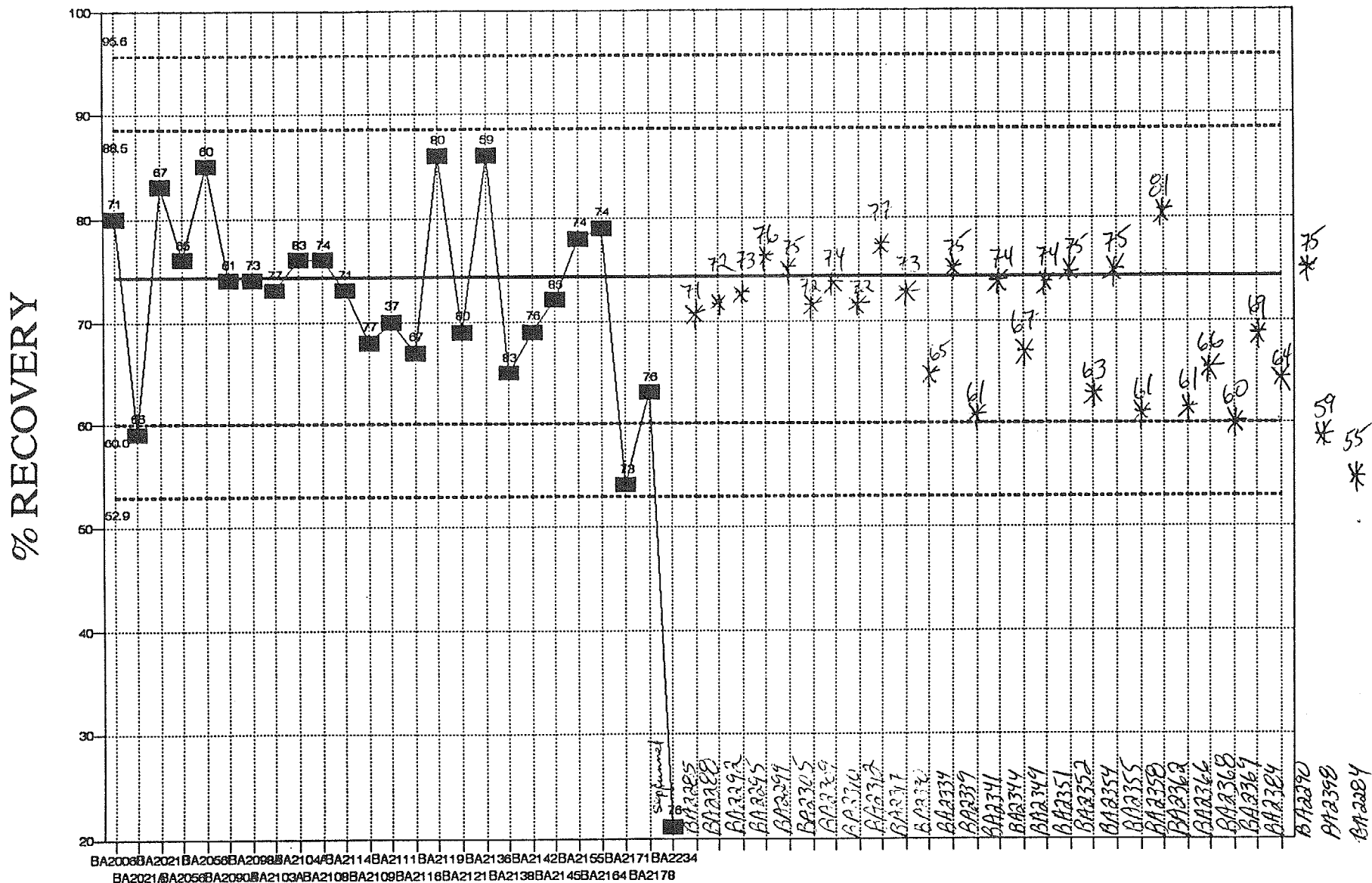
ABN WATER 3520/8270, 2-FLUOROPHENOL SURR, LIMITS SET 2/95



STD DEV = 7.12 MEAN = 71.6

0000323

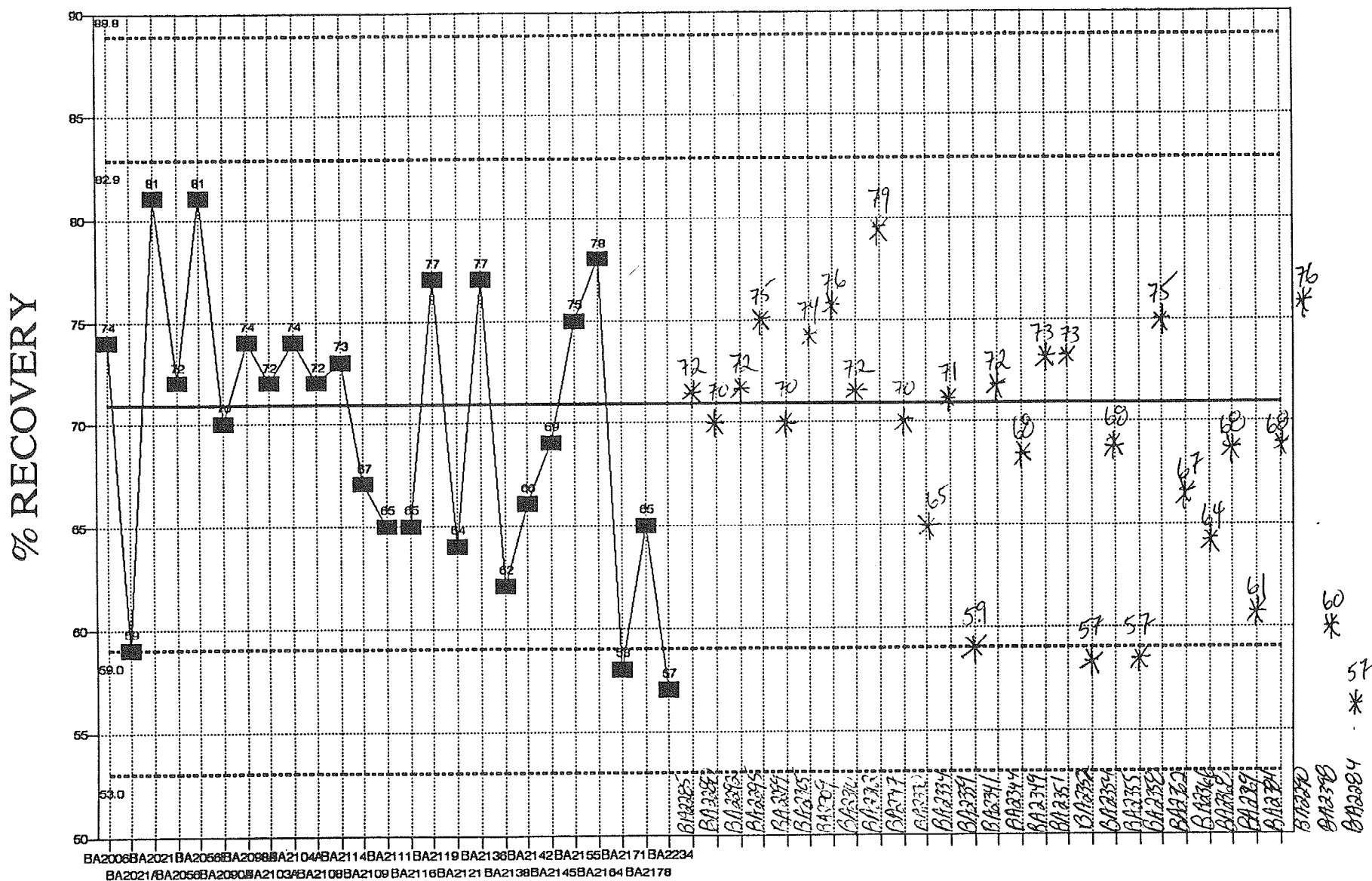
ABN WATER 3520/8270, PHENOL-D5 SURR, LIMITS SET 2/95



0000324

STD DEV = 7.13 MEAN = 74.2

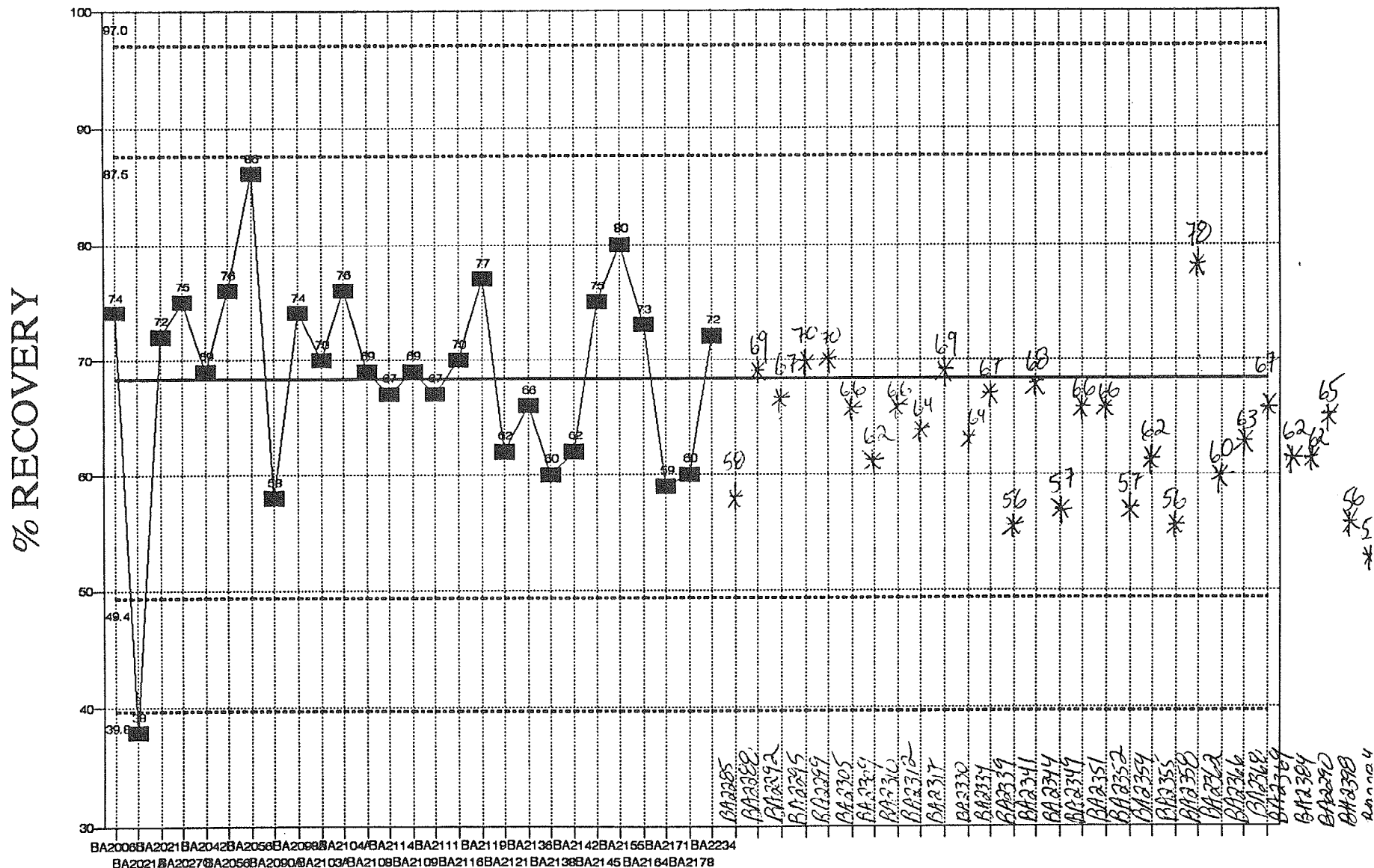
ABN WATER 3520/8270, 2-CHLOROPHENOL-D4 SURR, LIMITS SET 2/95



STD DEV = 5.97 MEAN = 70.9

00000325

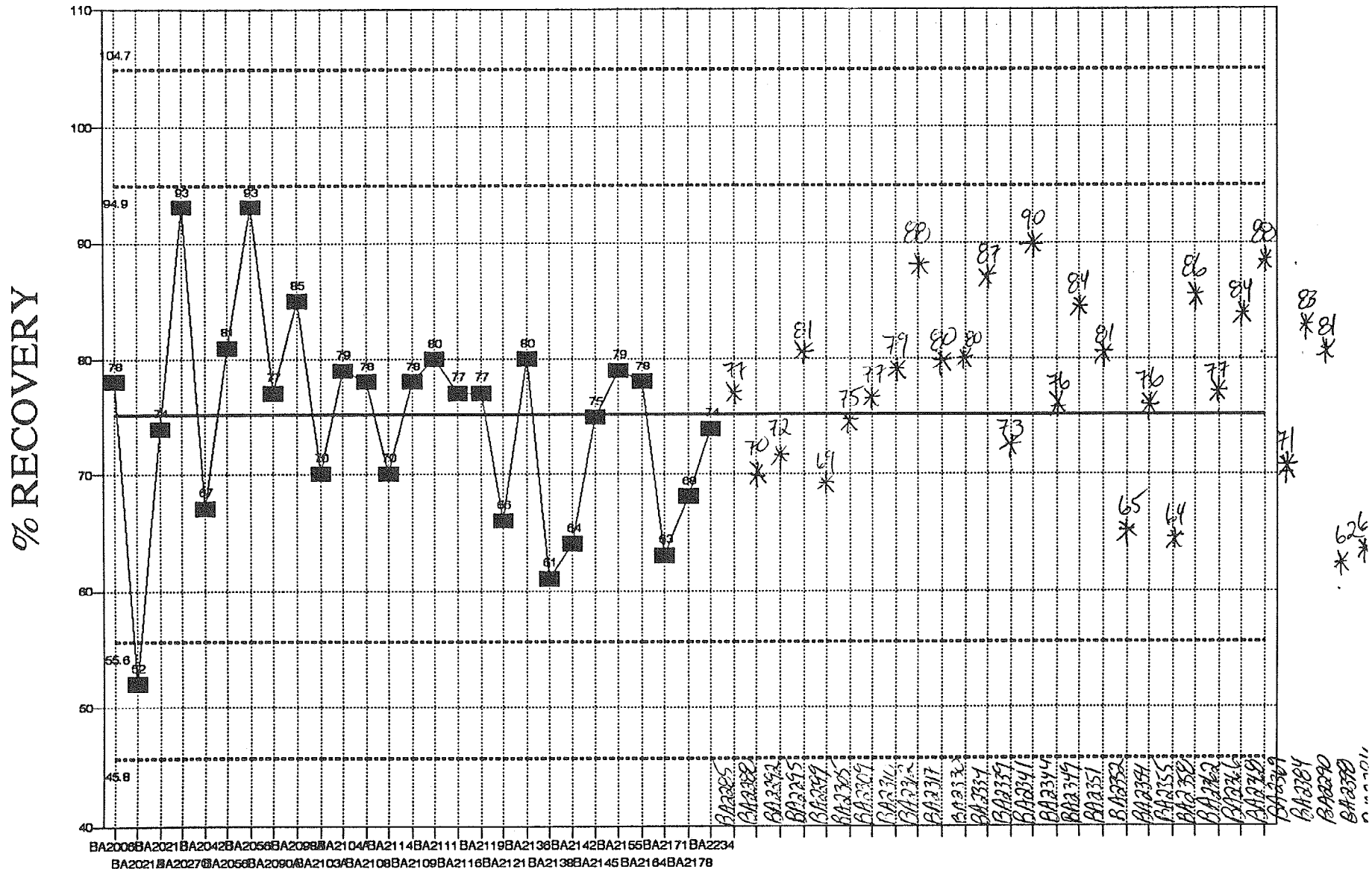
ABN H2O 3520/8270, 1,2-DICHLOROBENZENE- SURR, LIMITS SET 2/95



STD DEV = 9.54 MEAN = 68.4

00000326

ABN H2O 3520/8270, NITROBENZENE-D5
SURR, LIMITS SET 2/95

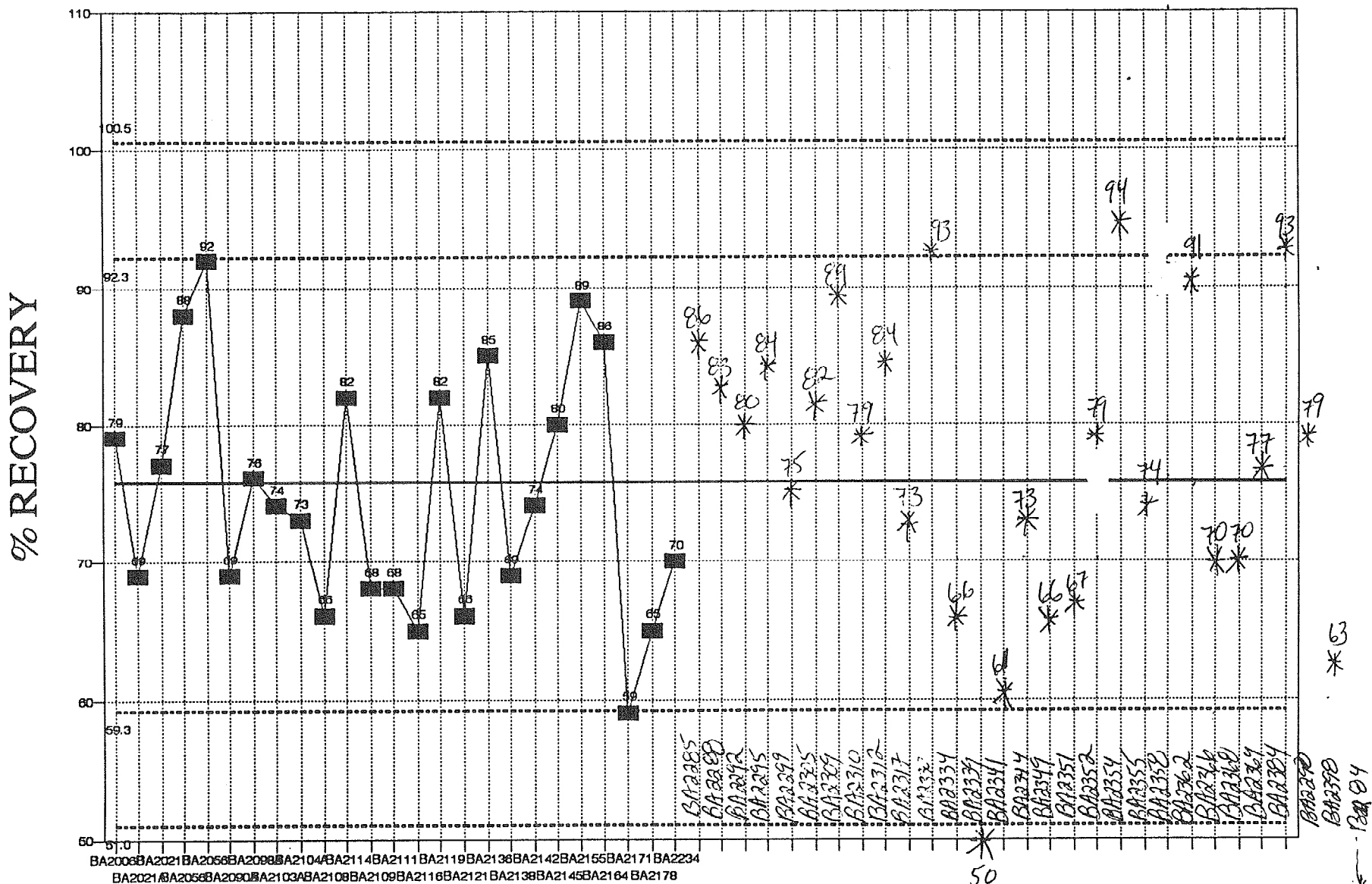


STD DEV = 9.82 MEAN = 75.2

0000327

ABN H2O 3520/8270, 2,4,6-TRIBROMOPHENOL SURR, LIMITS SET 2/95

120
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0000328

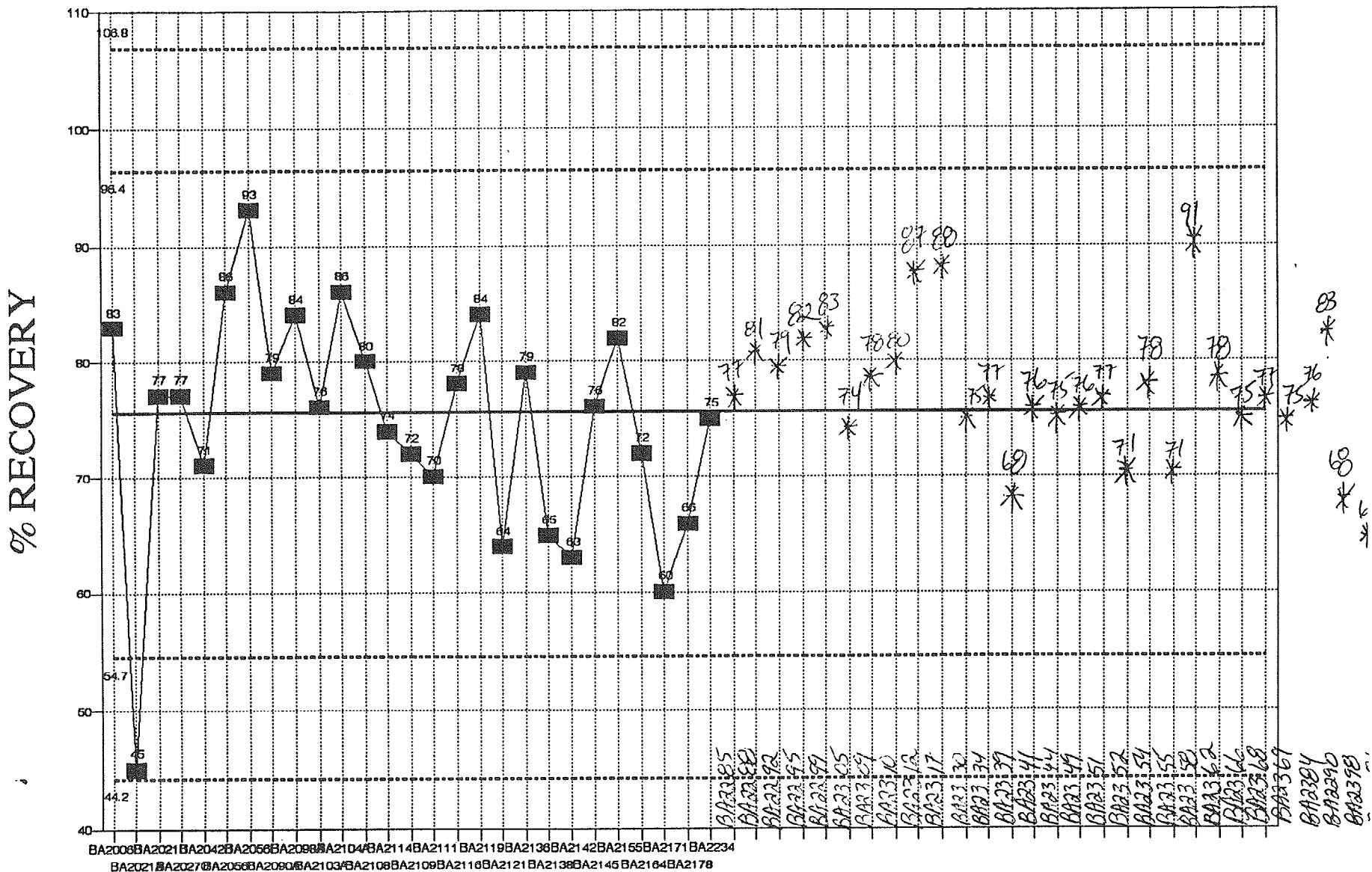
STD DEV = 8.24 MEAN = 75.8

50

63

46

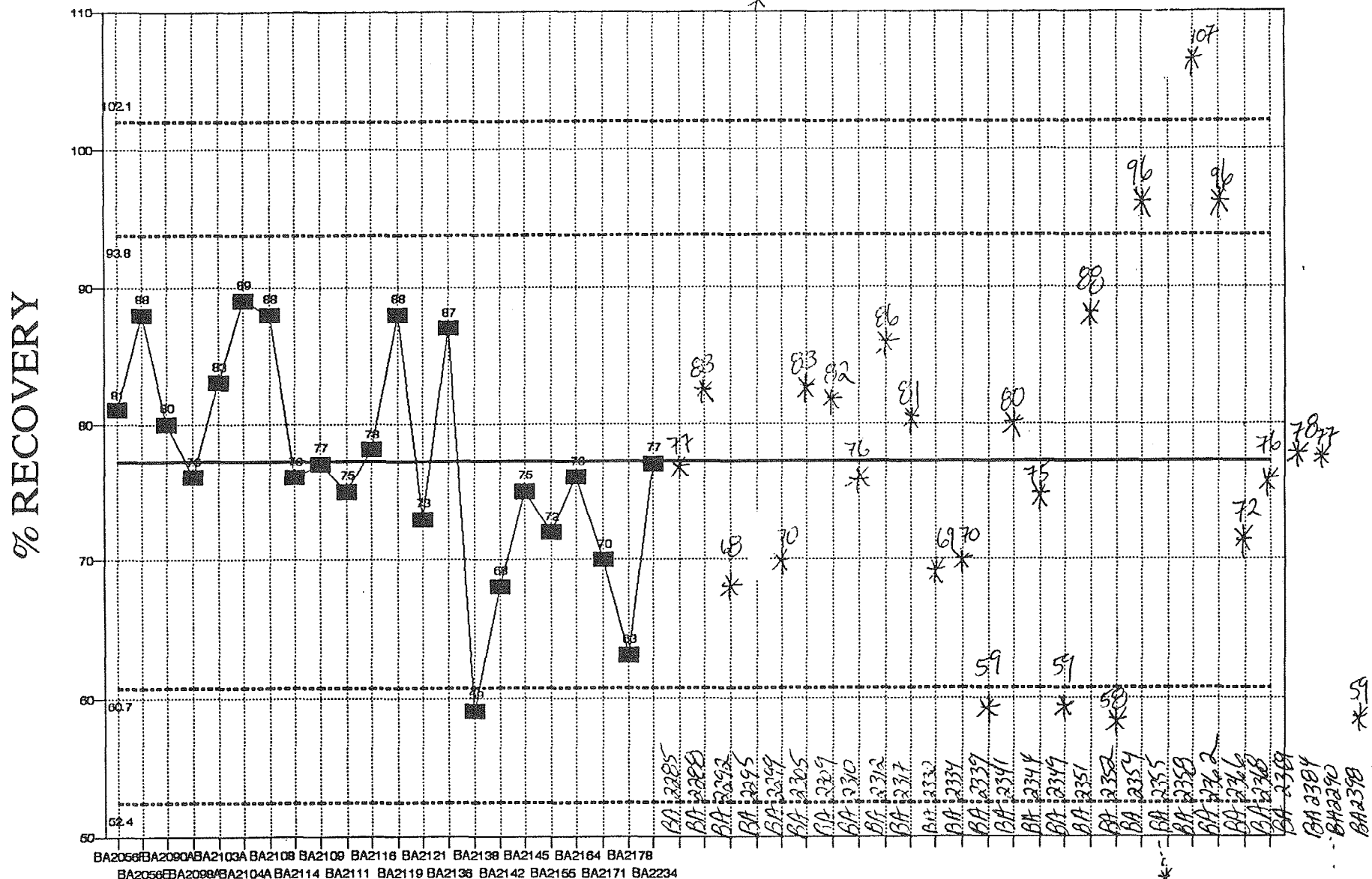
ABN H2O 3520/8270, 2-FLUOROBIPHENYL
SURR, LIMITS SET 2/95



STD DEV = 10.4 MEAN = 75.5

0000329

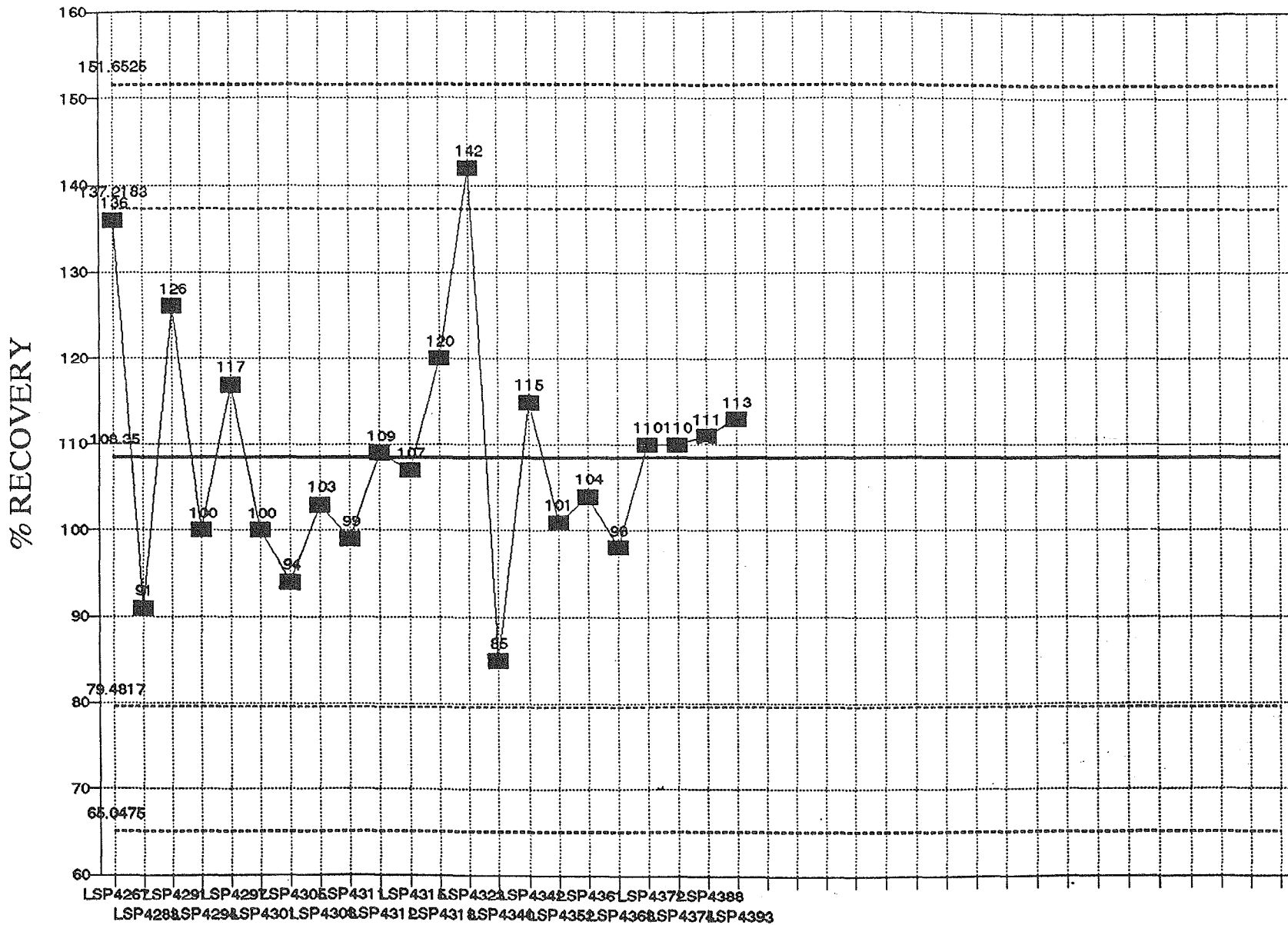
ABN H2O 3520/8270, TERPHENYL-D14 SURR, LIMITS SET 2/95



STD DEV = 8.78 MEAN = 77.2

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PCB MEDIUM SOLIDS AROCHLOR 1254
 SPK LIMITS SET 8/95-PPCBCHTVAR1254S

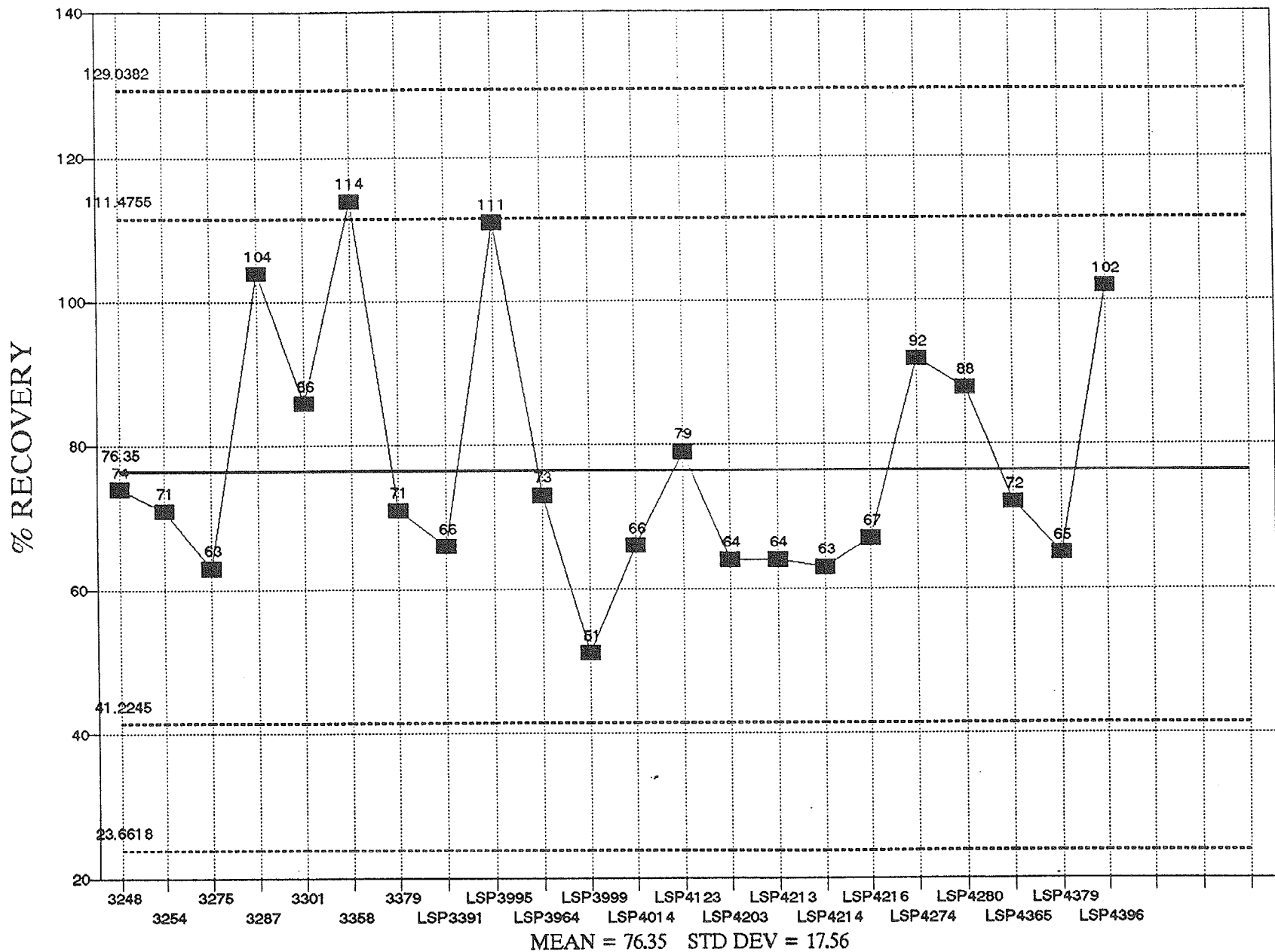


MEAN = 108.35 STD DEV = 14.43

0000331

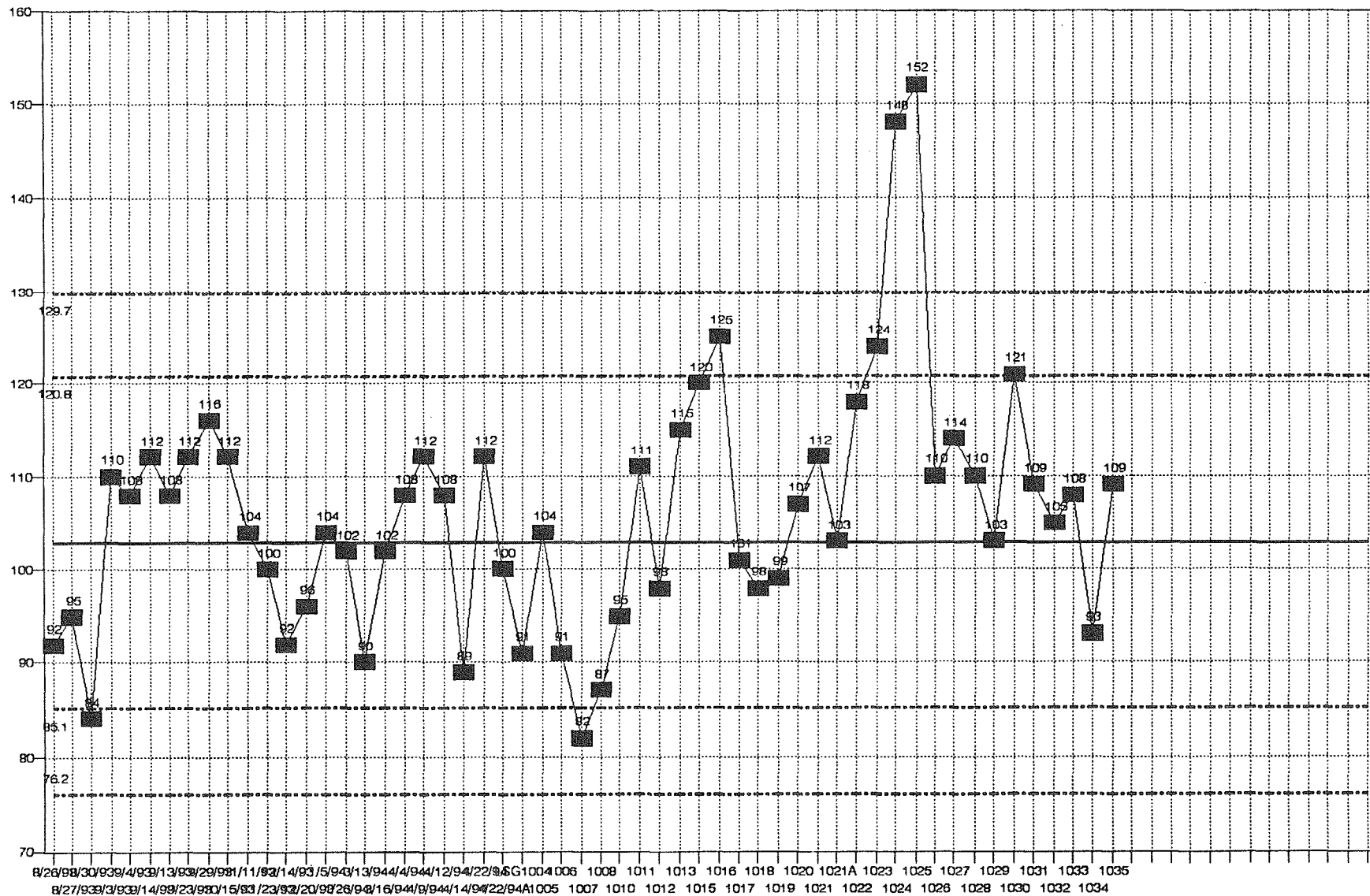
PCB SEPF WATER AROCHLOR1254

SPK REC LIM SET4/94 -PPCBCHT\1254SW94



0000332

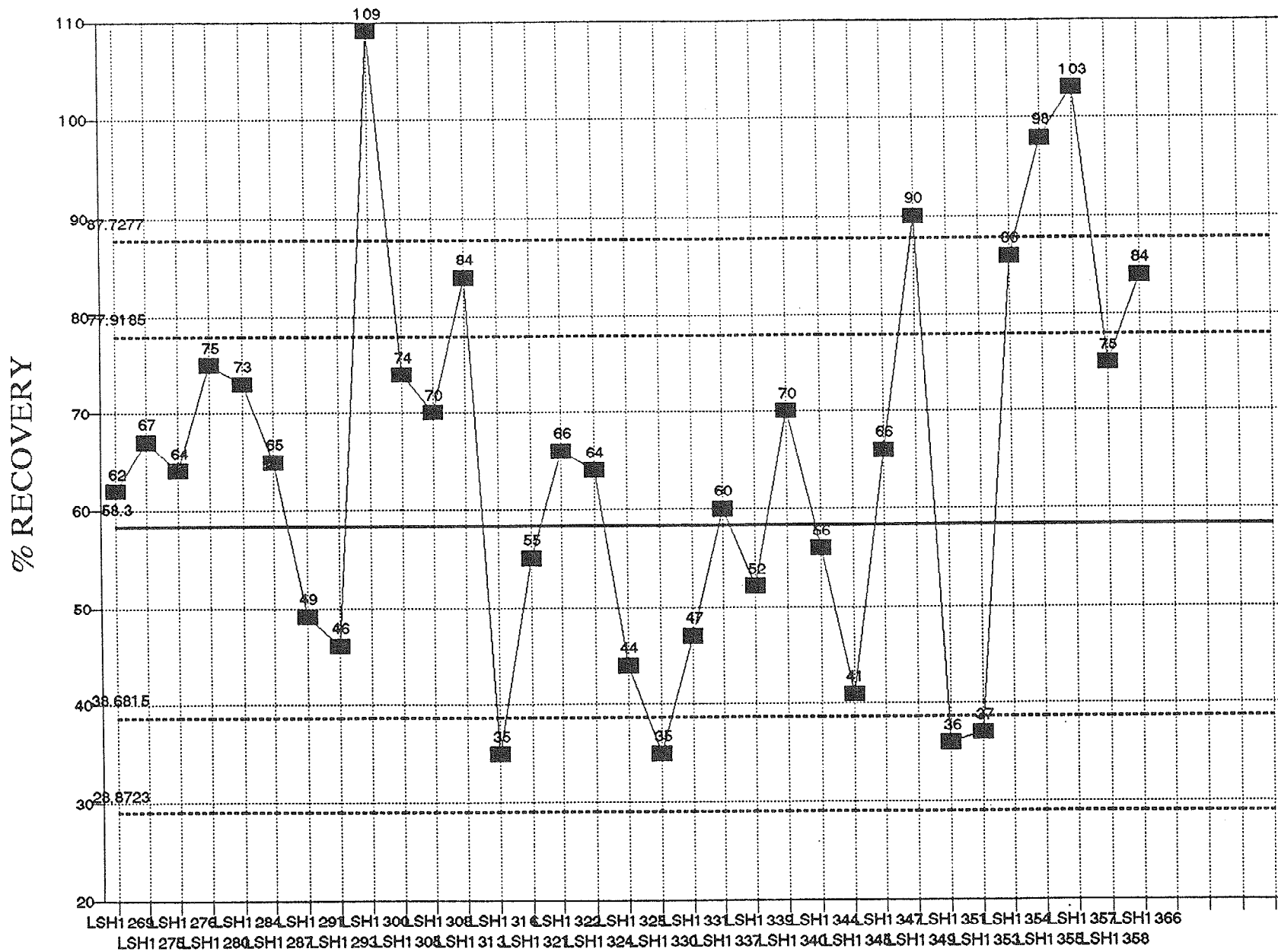
TOTAL GAS LCS RECOVERIES LIMITS SET 4/13/94



00000000

STD DEV = 8.93 MEAN = 103

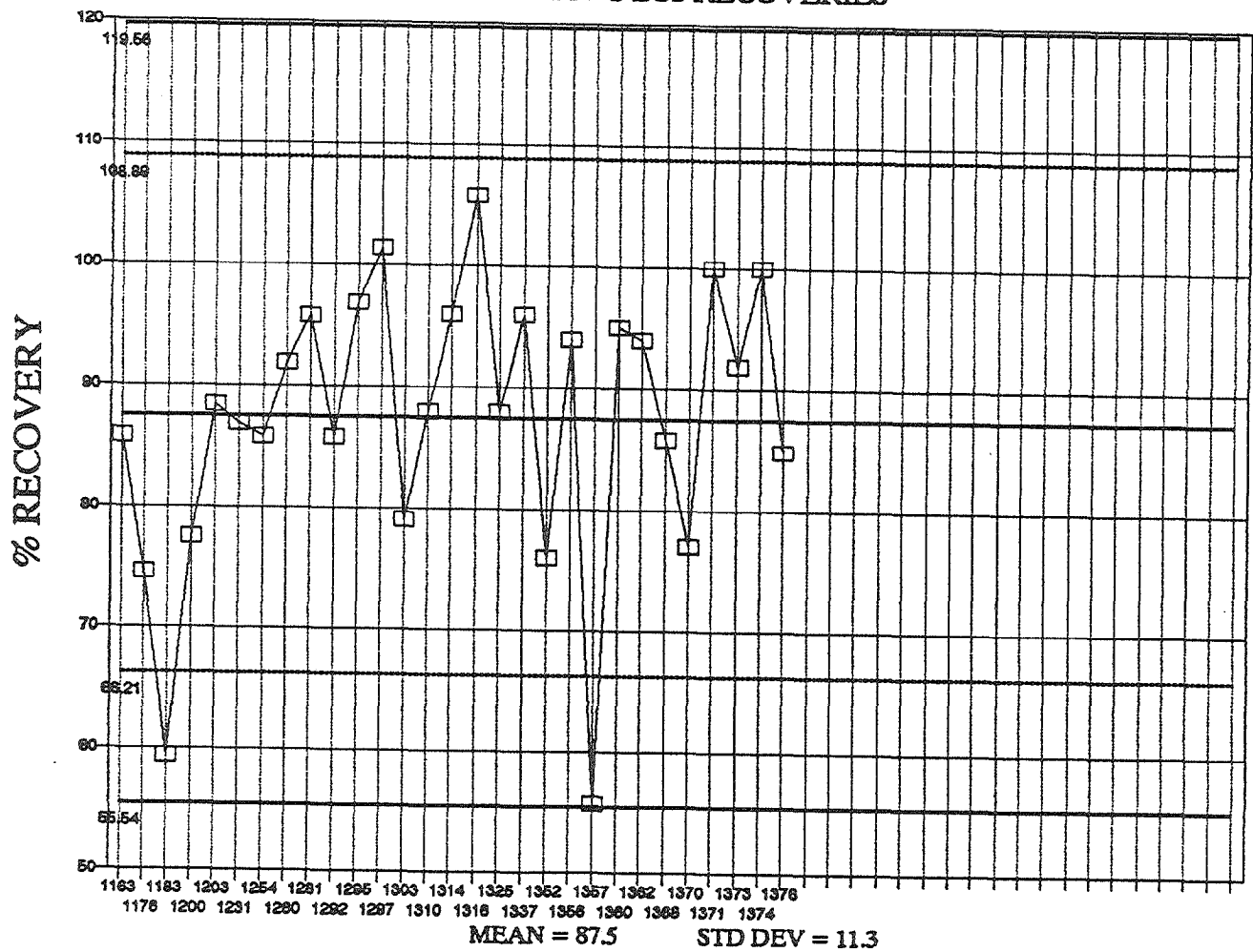
PHC LOW SOLIDS - DIESEL
 SPK REC LIMS SET6/6/95-PPCBCHT\PHCS1294



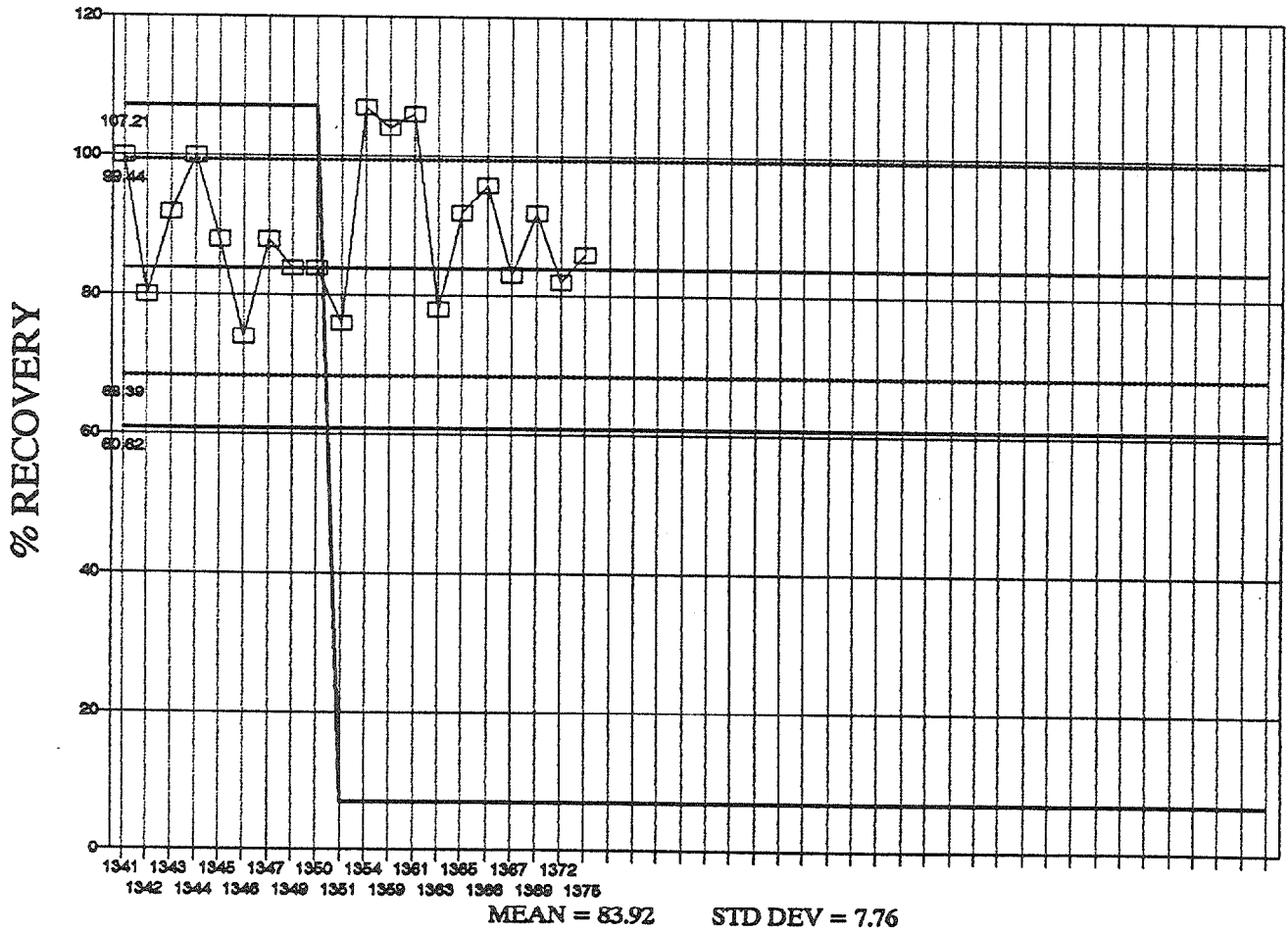
MEAN = 58.30 STD DEV = 9.81

0000334

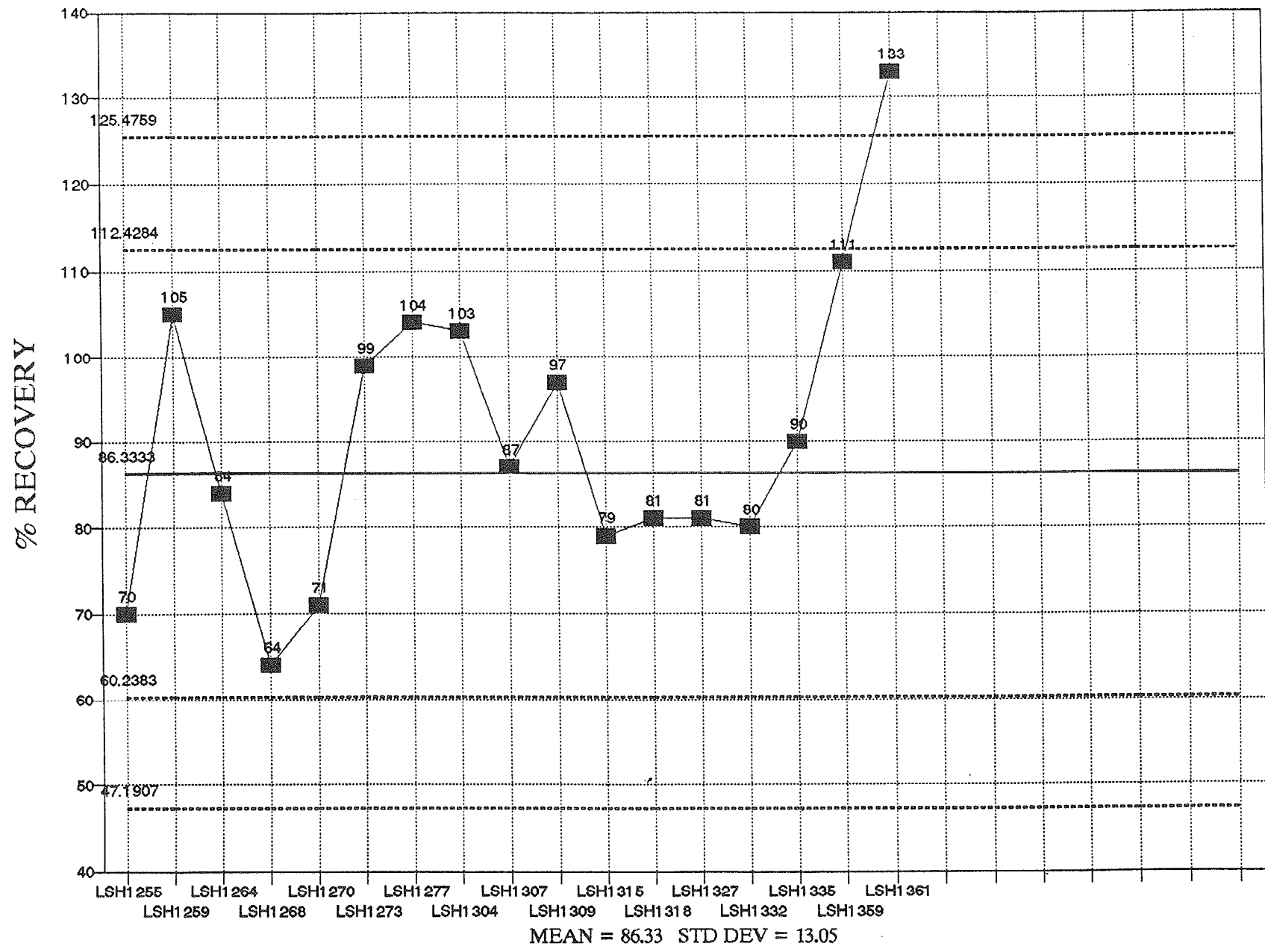
O&G GRAV-S LCS RECOVERIES



O&G GRAV-W LCS RECOVERIES
LIMITS SET 3/94

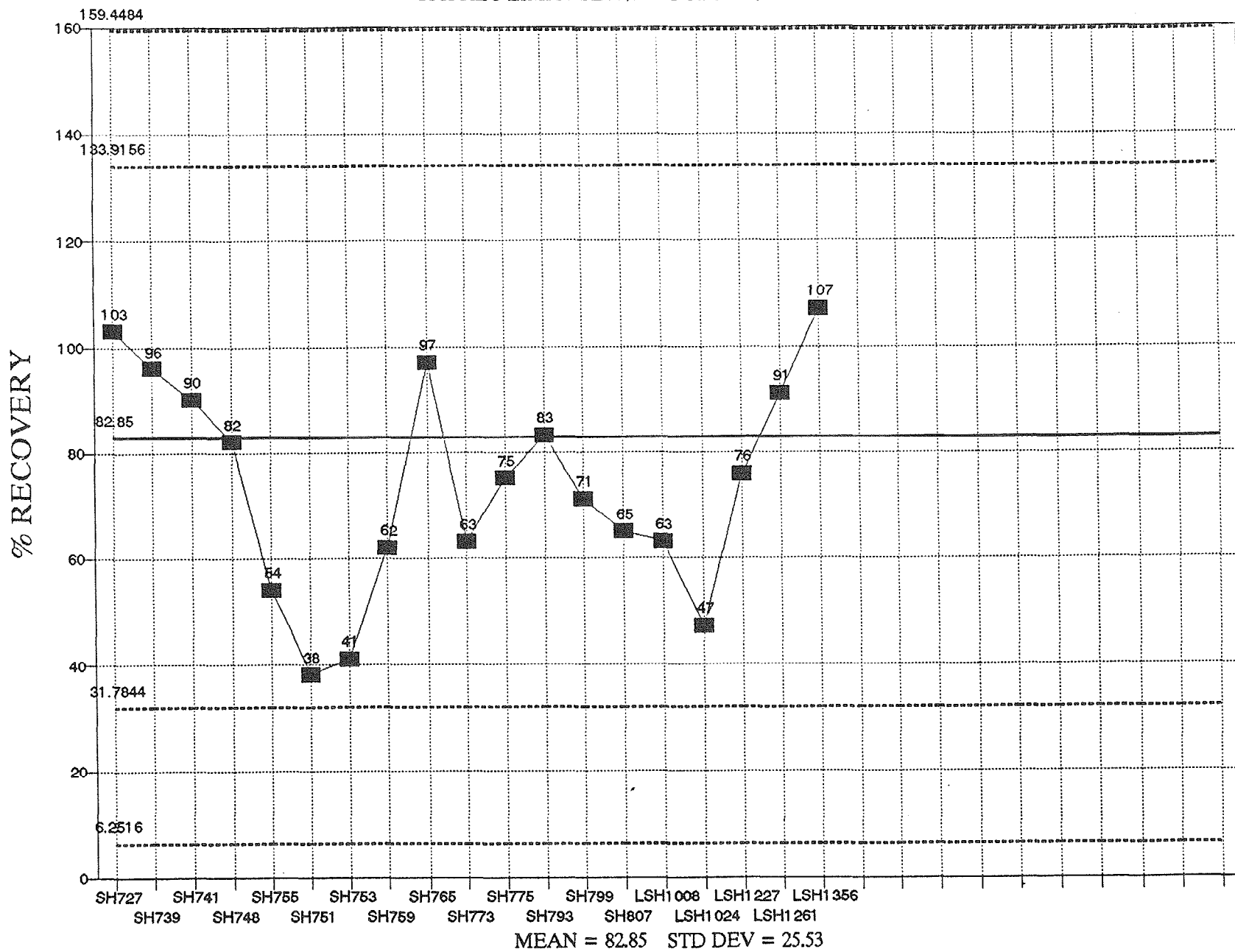


PHC WATERS BY SEPF - DIESEL
 SPK REC LIMS SET0795-PPCBCHT\PHCWSF94



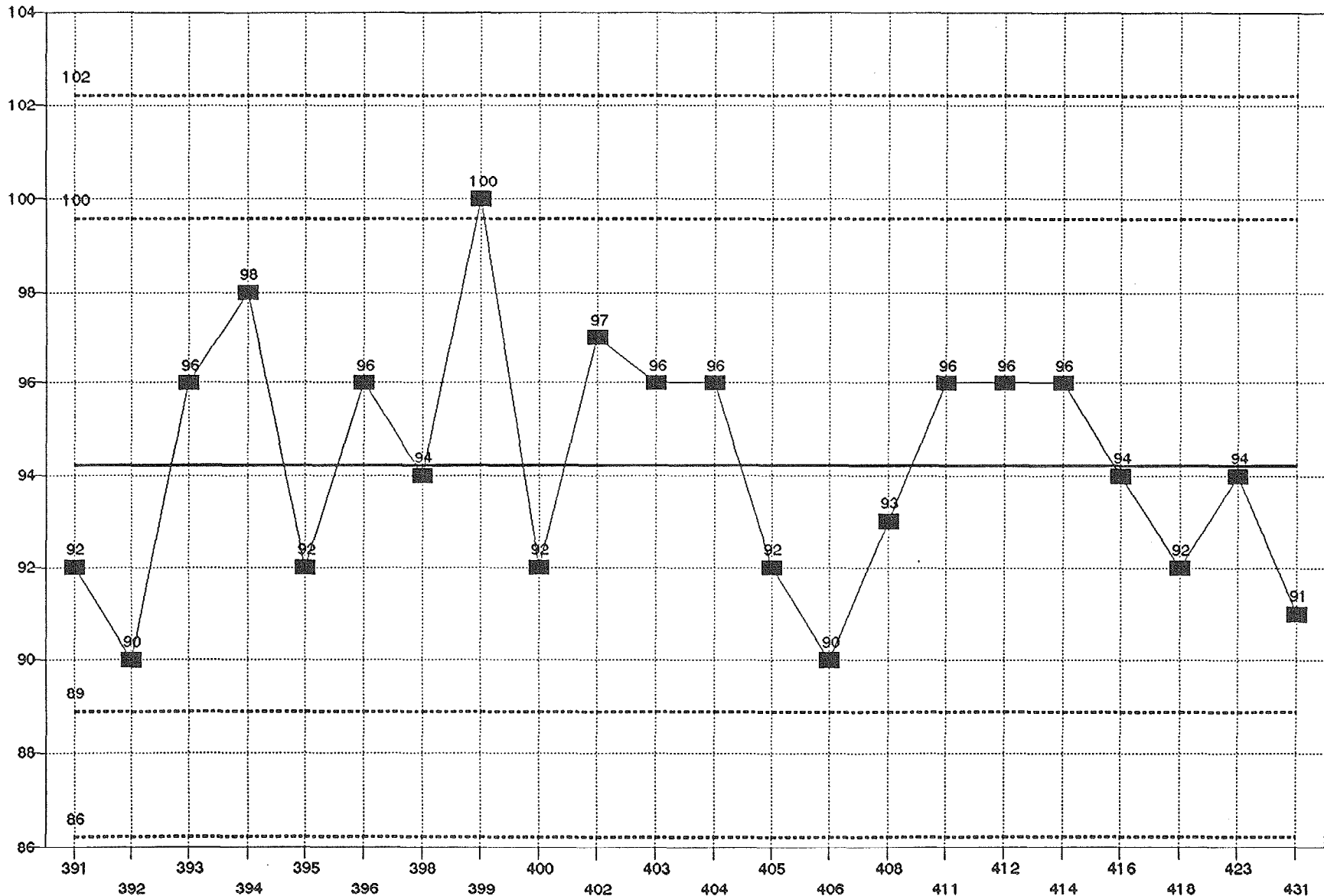
000037

PHC WATERS CONT. EXT.- DIESEL
 SPK REC LIMITS SET3/94-PPCBCHT/PHCWC394



0000338

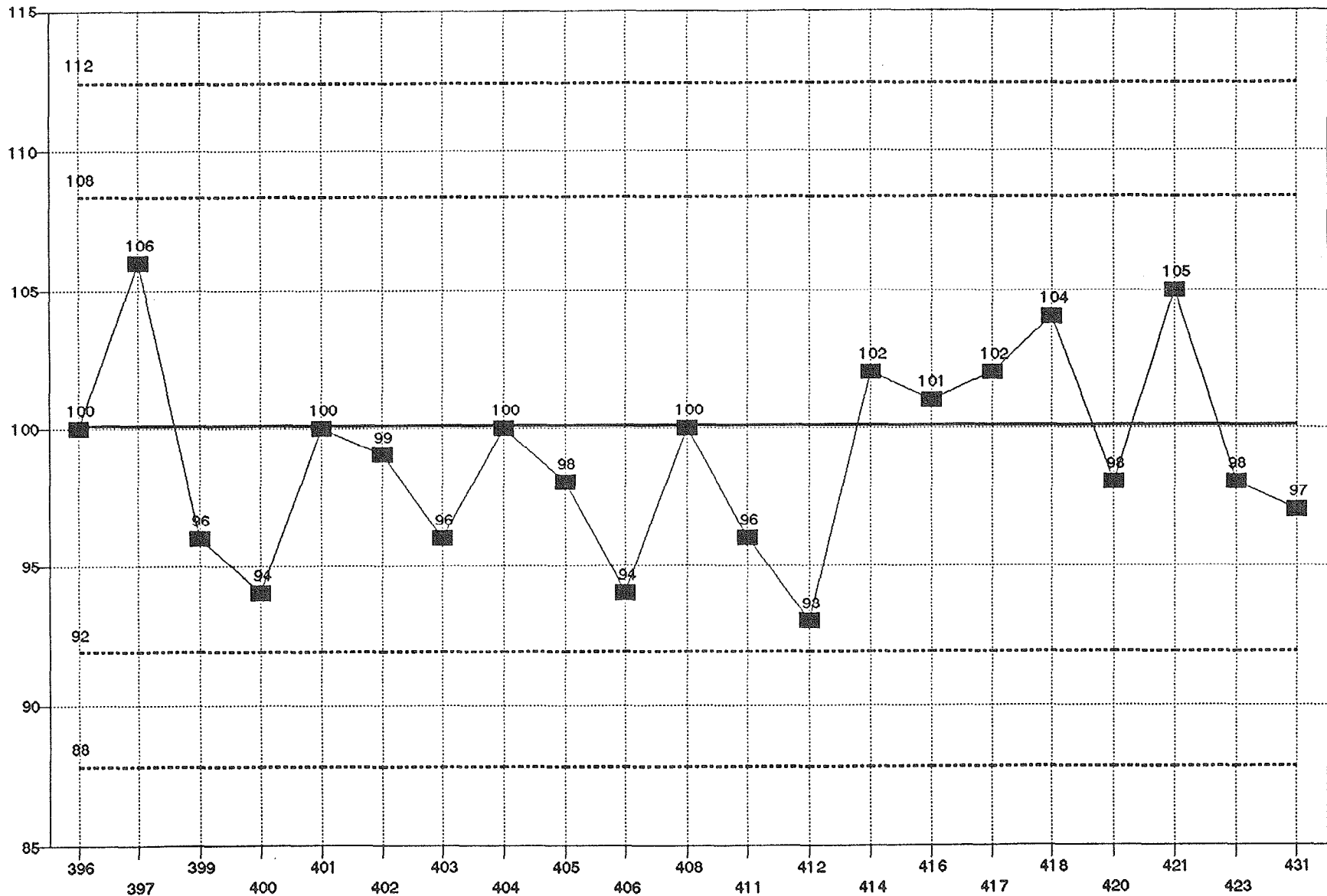
AS TRACECOMMERCIAL LCS WATER RECOVERIES LIMITS SET 8/95



STD DEV = 2.67 MEAN = 94.2

0000339

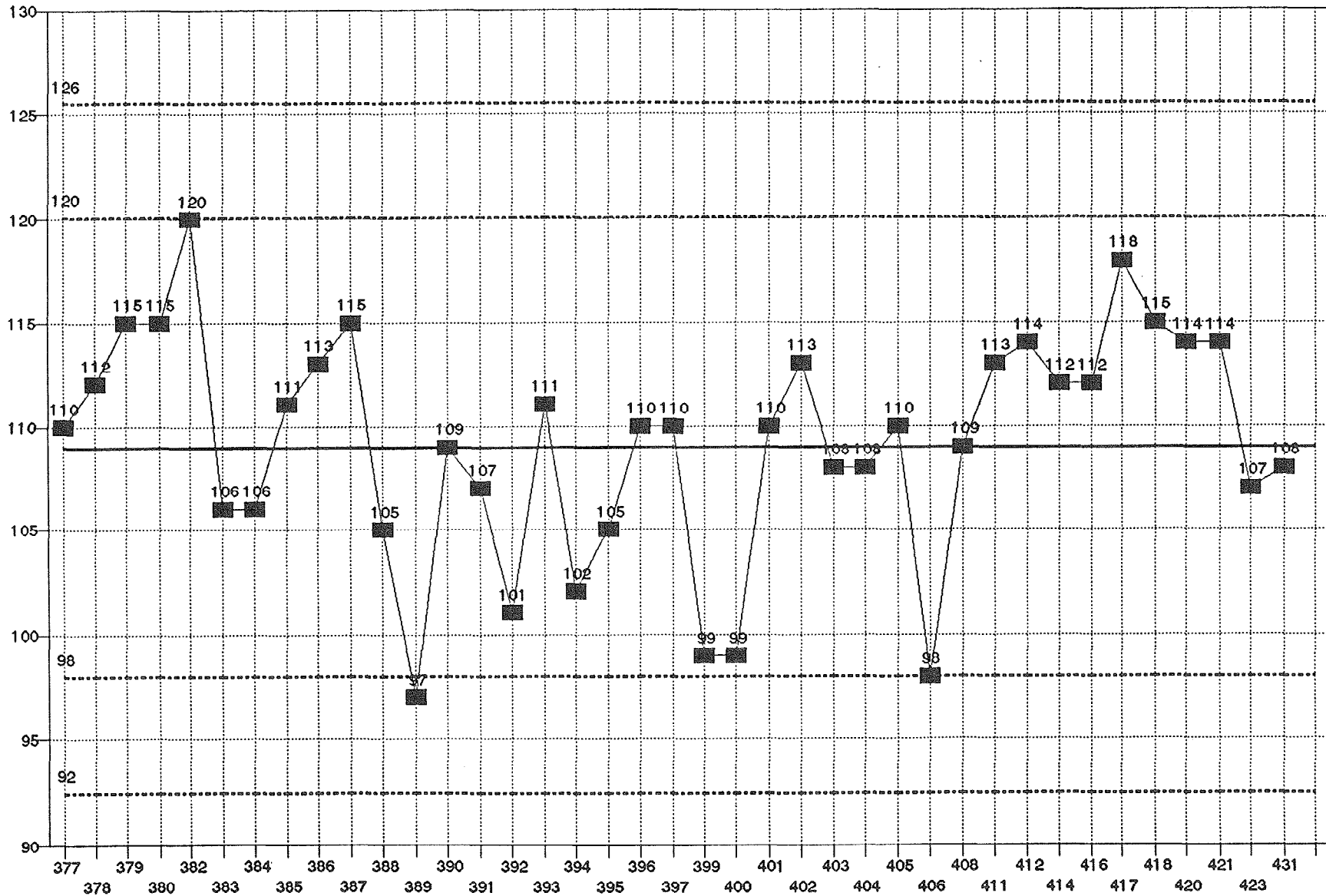
Ba COMMERCIAL LCS WATER RECOVERIES LIMITS SET 7/95



STD DEV = 4.10 MEAN = 100.1

0000340

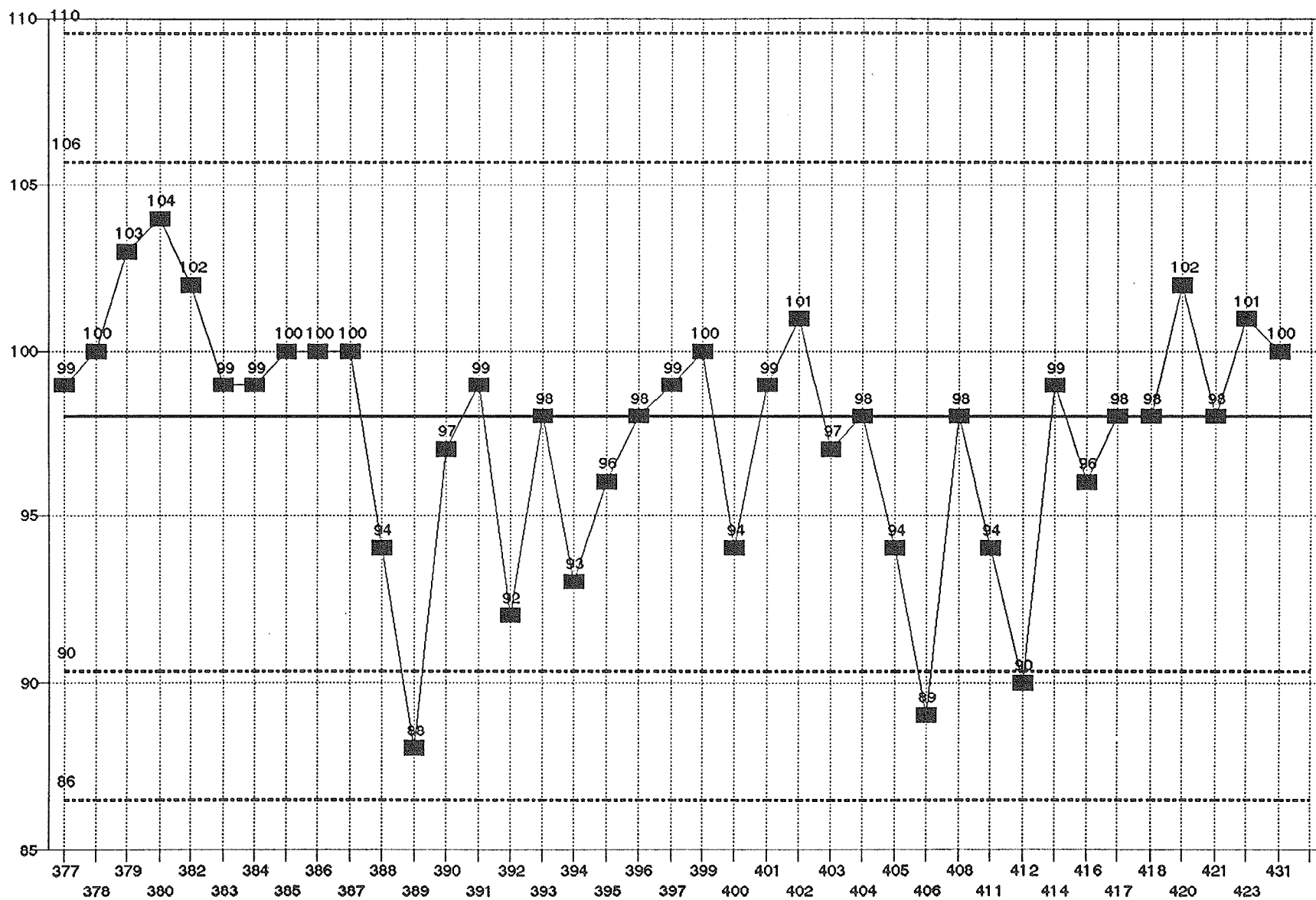
Cd COMMERCIAL LCS WATER RECOVERIES LIMITS SET 7/95



STD DEV = 5.51 MEAN = 109

0000341

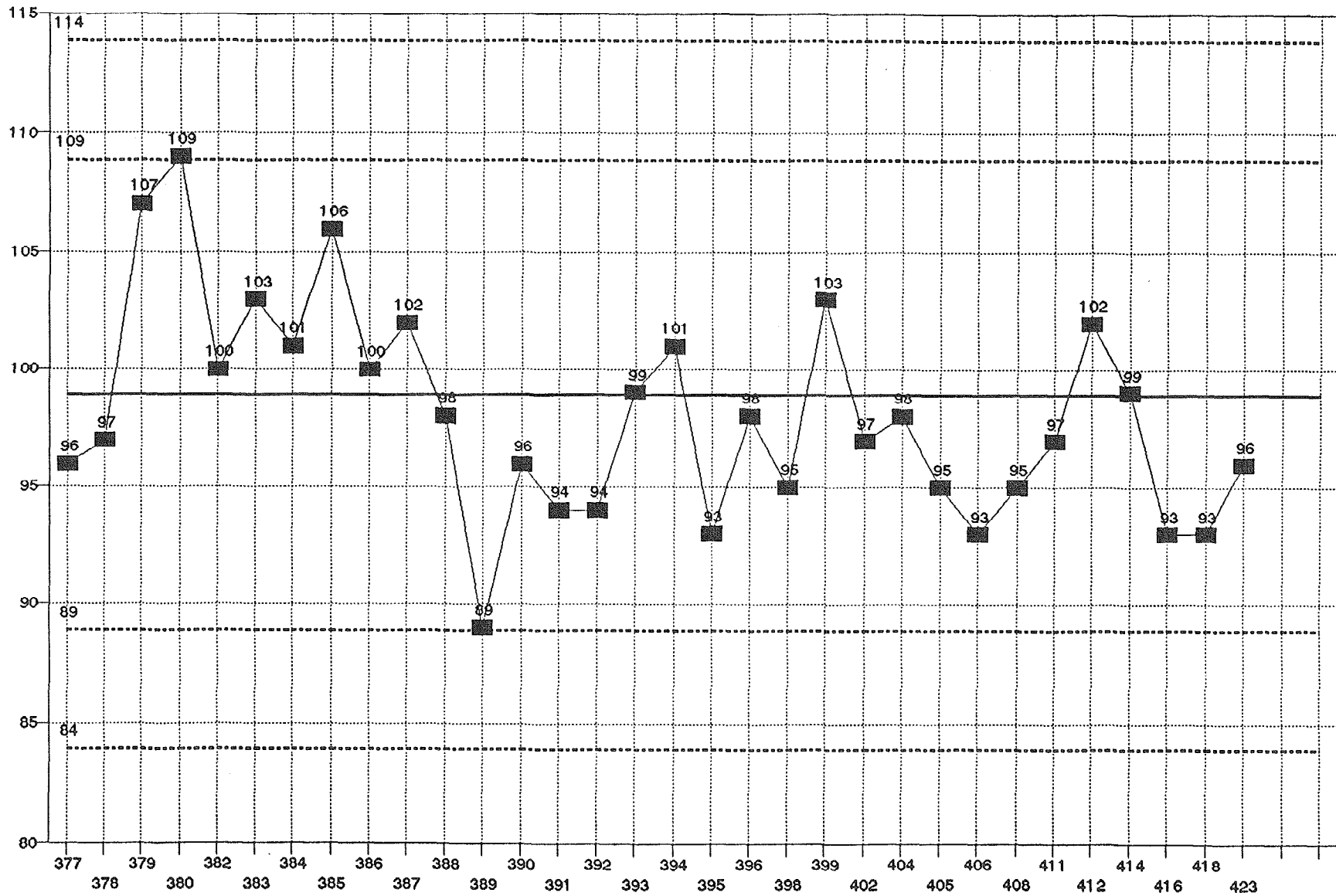
Cr COMMERCIAL LCS WATER RECOVERIES LIMITS SET 7/95



STD DEV = 3.84 MEAN = 98.0

0000342

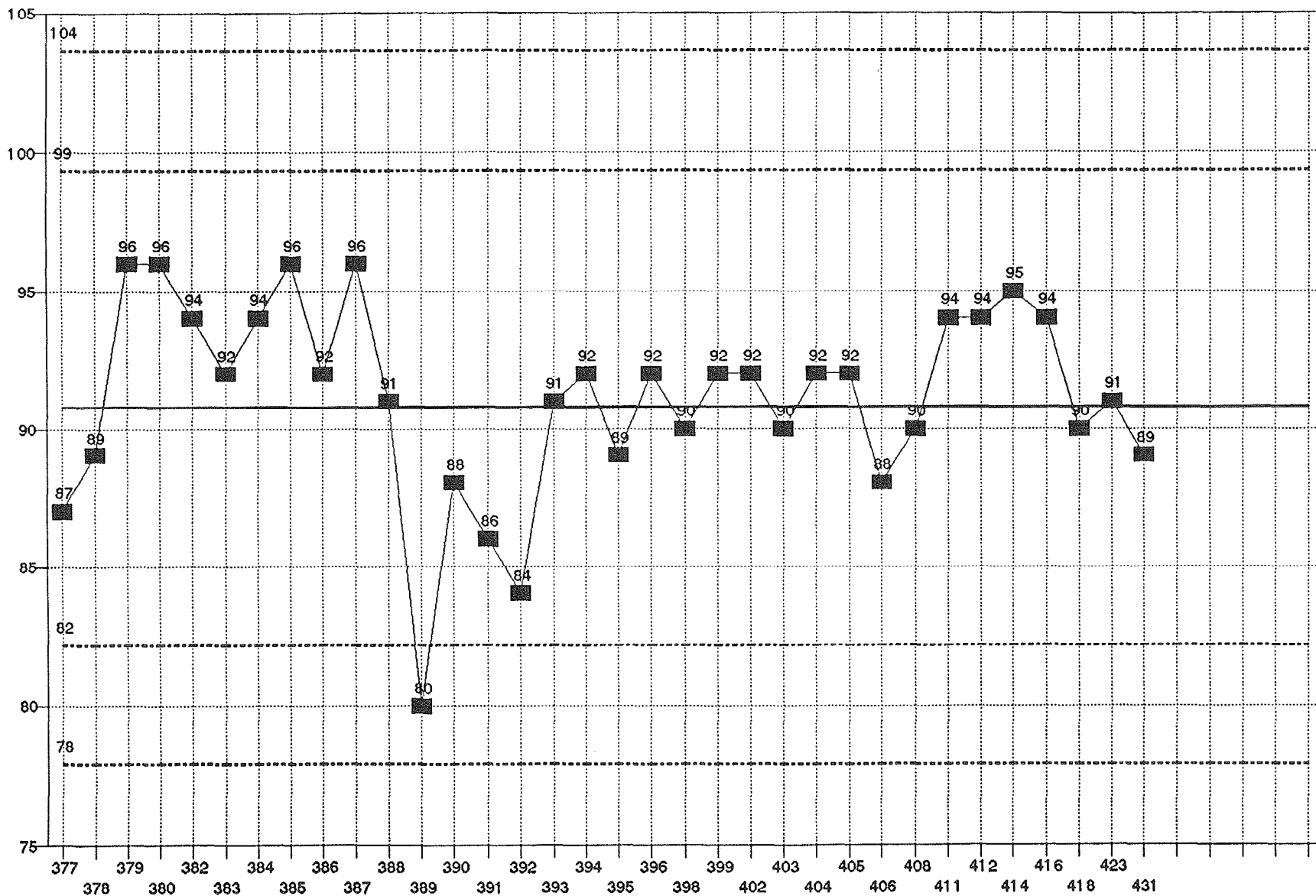
Pb TRACECOMMERCIAL LCS WATER RECOVERIES LIMITS SET 7/95



STD DEV = 4.99 MEAN = 98.9

0000343

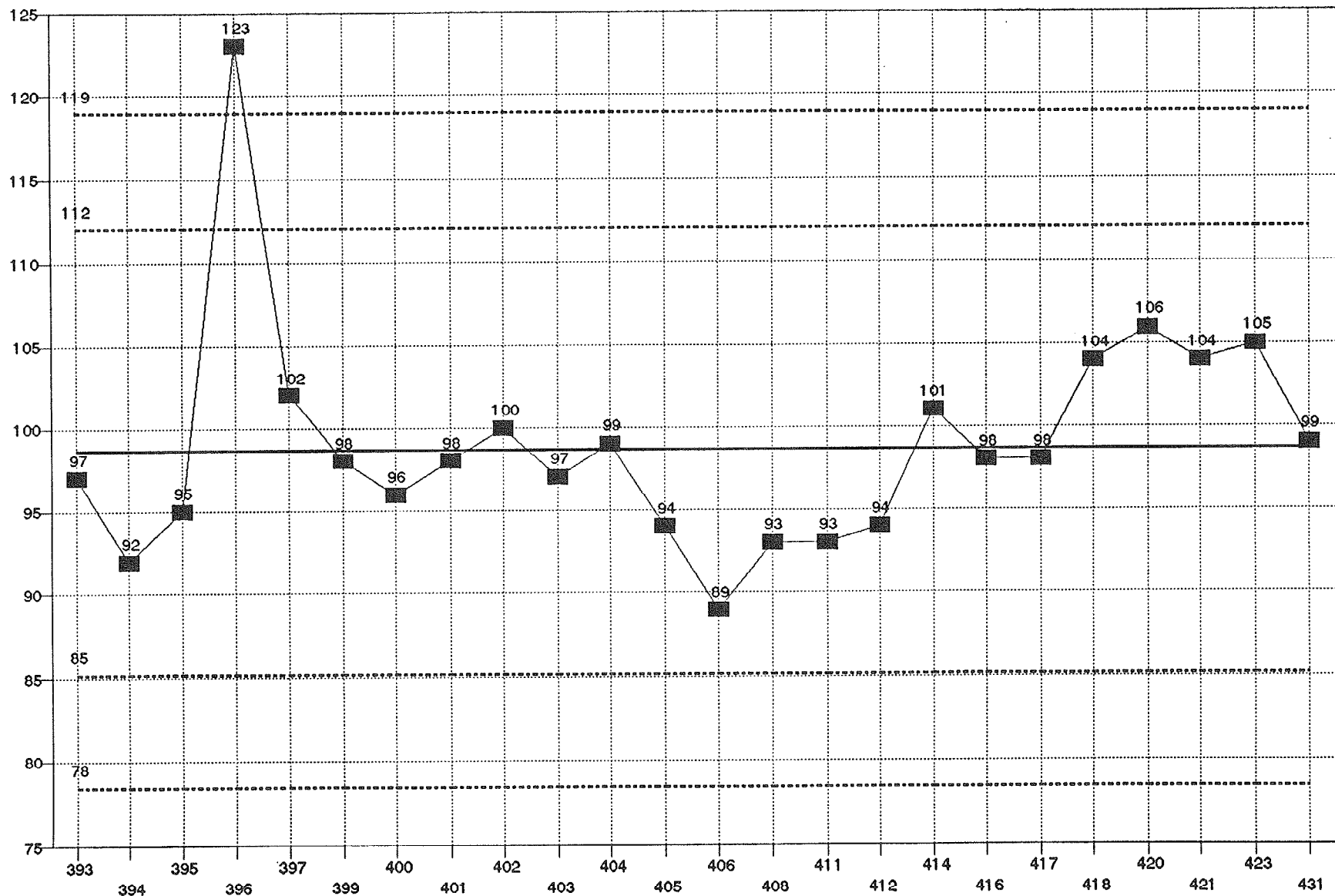
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STD DEV = 4.29 MEAN = 90.8

0000344

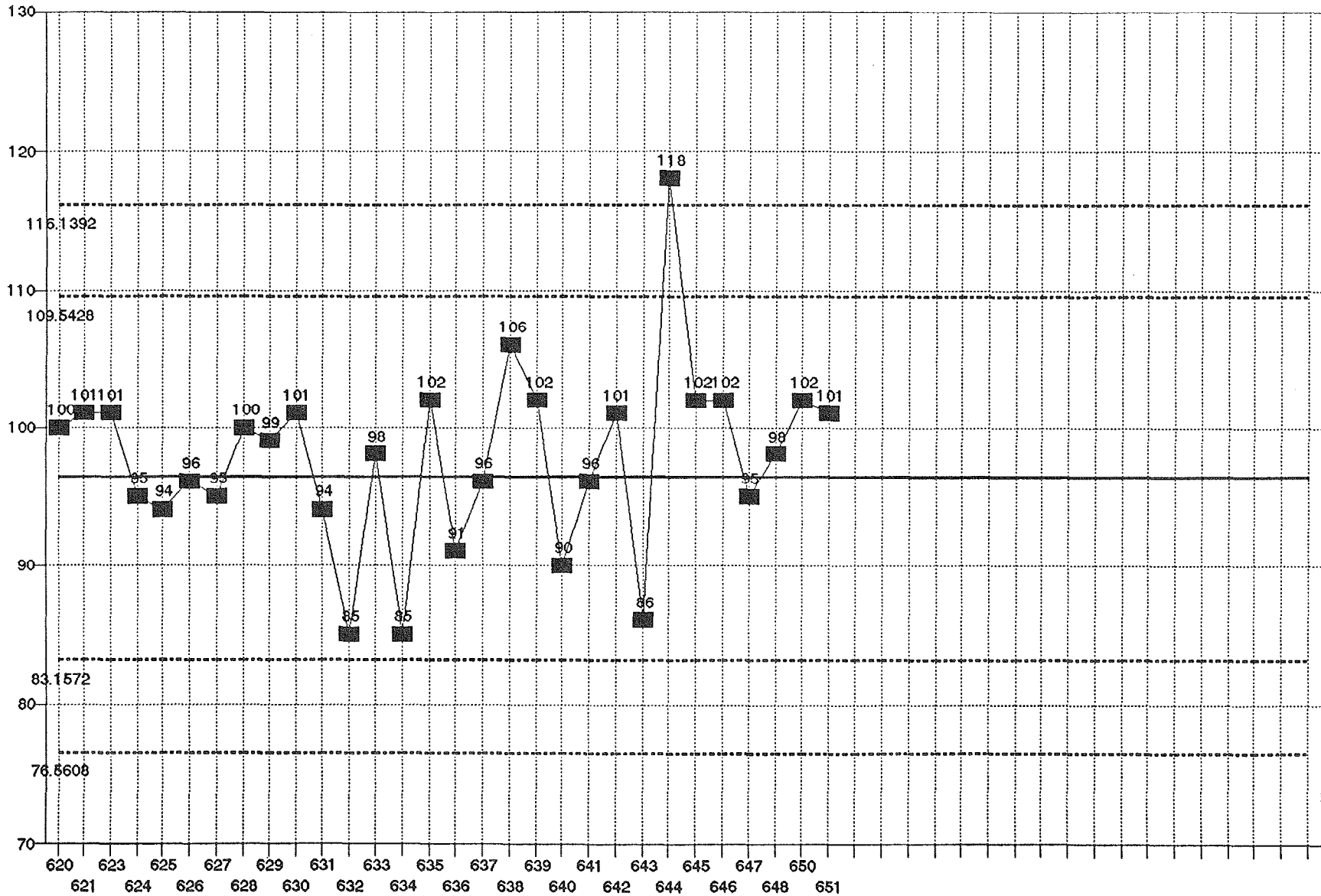
Ag COMMERCIAL LCS WATER RECOVERIES LIMITS SET 8/95



STD DEV = 6.75 MEAN = 98.6

0000345

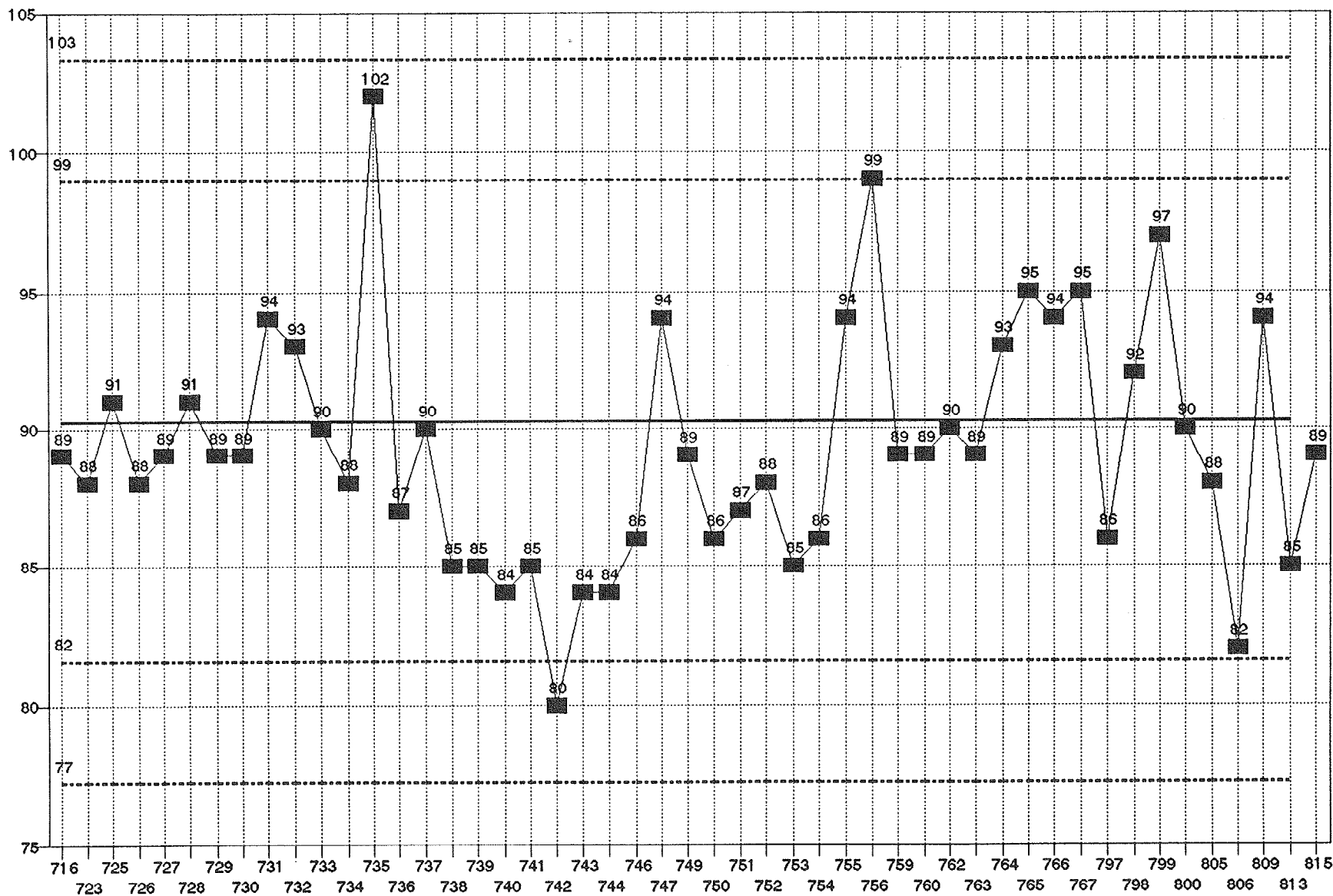
Hg COMMERCIAL LCS WATER RECOVERIES LIMITS SET 7/95



STD DEV = 5.43 MEAN = 96.35

0000346

Pb COMMERCIAL LCS SOLID RECOVERIES LIMITS SET 4/95



STD DEV = 4.35 MEAN = 90.25

0000347

CHAIN-OF-CUSTODY RECORD

166402

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

OBJECT NAME		PROJECT LOCATION		NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)							REMARKS			
O.J. NO.		PROJECT CONTACT			PROJECT TELEPHONE NO.		TPH - GRO	TPH - DRO	TCLP Metals	TCLP Semi-Volatile	Pb-Ca Haz Waste Char.		Pb-Ca	TCLP Total Lead	Volatile + BTEX (8249)
CLIENT'S REPRESENTATIVE		PROJECT MANAGER/SUPERVISOR													
SAMPLE NUMBER	DATE	TIME	COMP		GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)									
Camp Lejeune D.O. 44		Camp Greer, NC		3			X ⁻¹³						44897		
6487		Rakesh Mishra			910-451-2599		X ⁻²	X ⁻⁴	X ⁻⁴						
CLIENT'S REPRESENTATIVE		PROJECT MANAGER/SUPERVISOR			Jim Dunn / Randy Smith		X ⁻³	X ⁻⁵	X ⁻⁵						
CLJ44-CU-016	8/4	1030	X			Composite of contaminated soil from pile 1 of Area C	X ⁻⁴	X ⁻⁴	X ⁻⁴						
CLJ44-CU-017	8/4	1040	X			Contaminated soil of pile 2 from Area C	X ⁻⁵	X ⁻⁷	X ⁻⁷						
CLJ44-CU-018	8/4	1050	X			Contaminated soil of pile 3 from Area C	X ⁻⁶	X ⁻⁸	X ⁻⁸						
CLJ44-CU-019	8/4	1100	X			Contaminated soil of pile 4 from Area C	X ⁻⁷	X ⁻⁹	X ⁻⁹						
CLJ44-CU-020	8/4	1110	X			Contaminated soil of pile 5 from Area C	X ⁻⁸	X ⁻¹⁰	X ⁻¹⁰						
CLJ44-CU-021	8/4	1120	X			Contaminated soil of pile 6 from Area C	X ⁻⁹	X ⁻¹¹	X ⁻¹¹						
CLJ44-CU-022	8/4	1130	X			Contaminated soil of pile 7 from Area C	X ⁻¹⁰	X ⁻¹²	X ⁻¹²						
CLJ44-CU-023	8/4	1140	X		Contaminated soil of pile 8 from Area C	X ⁻¹¹	X ⁻¹³	X ⁻¹³							
CLJ44-CU-024	8/4	1200	X		Contaminated soil of pile 9 from Area C	X ⁻¹²	X ⁻¹⁴	X ⁻¹⁴							
CLJ44-CU-025	8/4	1210	X		Contaminated soil of pile 10 from Area C	X ⁻¹³	X ⁻¹⁵	X ⁻¹⁵	X ⁻²²	X ⁻²³	X ⁻²⁴	X ⁻²⁵			
TRANSFER NUMBER		ITEM NUMBER	TRANSFERS RELINQUISHED BY		TRANSFERS ACCEPTED BY		DATE	TIME	REMARKS						
1	1-10	[Signature]		[Signature]		8/4	1400	Please send samples to fac lab							
2				[Signature]		8/5/15	1310	24 hr TAT							
3								[Signature]							
4								SAMPLER'S SIGNATURE							

0000349



CHAIN-OF-CUSTODY RECORD

LAB COPY
Form 0019
Field Technical Services
Rev. 08/89

166403

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME <i>Camp Lejeune D.O. 44</i>		PROJECT LOCATION <i>Camp Geiger NC</i>	
IOJ. NO. <i>6487</i>	PROJECT CONTACT <i>Rakesh Mishra</i>	PROJECT TELEPHONE NO. <i>910-451-2599</i>	
CLIENT'S REPRESENTATIVE		PROJECT MANAGER/SUPERVISOR <i>Jim Dunn / Randy Smith</i>	

SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)			REMARKS
							TPH-GRD	TPH-DRD	DEG	
<i>CLJ44-CU-026</i>	<i>1220</i>	<i>8/4</i>	<i>X</i>		<i>Contaminated soil of Pile 11 From Area C</i>	<i>3</i>	<i>X</i>	<i>X</i>	<i>X</i>	
<i>CLJ44-CU-027</i>	<i>1230</i>	<i>8/4</i>	<i>X</i>		<i>Contaminated Soil of Pile 12 From Area C.</i>	<i>3</i>	<i>X</i>	<i>X</i>	<i>X</i>	

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
<i>1</i>	<i>1-2</i>	<i>[Signature]</i>		<i>8/4</i>	<i>1400</i>	<i>Send Samples to Pace Lab 24 hr TAT</i>
<i>2</i>			<i>[Signature]</i>	<i>8/5</i>	<i>1200</i>	
<i>3</i>						<i>[Signature]</i> SAMPLER'S SIGNATURE
<i>4</i>						

00000000



CHAIN-OF-CUSTODY RECORD

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Rev. 08/89

166404

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME		PROJECT LOCATION		ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)	NUMBER OF CONTAINERS	REMARKS
IOJ. NO.	PROJECT CONTACT	PROJECT TELEPHONE NO.				
AGENT'S REPRESENTATIVE		PROJECT MANAGER/SUPERVISOR				
SAMPLE NUMBER	DATE	TIME	COMP			
Camp Lejeune DO 44		Camp Geiger, NC		TPH-GRO TPH-DEO TCLP Metals TCLP Volatile RCRA Haz Waste Chlor -11 Semi-Volatile	4	44898
6487	Rakesh Mishra	910451-2599				
Jim Dunn / Randy Smith						
CLJ44-CU-012	8/4	0630	X		Clean Soil from Pile 5 of Area C.	X ₁ X ₂ X ₃ X ₄ X ₅
CLJ44-CU-013	8/4	0636	X		Clean Soil from Pile 6 of Area C.	X ₂ X ₆ X ₇ X ₈ X ₉ X ₁₀
CLJ44-CU-014	8/4	0644	X		Runwater Blank	X ₃ X ₄ X ₅ X ₆ X ₇ X ₈ X ₉ X ₁₀ X ₁₁ X ₁₂
CLJ44-CU-015	8/4				Top Blank	X ₄ X ₄

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1-4	<i>[Signature]</i>		8/4	1400	Send samples to Pace Lab 7 days TAT <i>[Signature]</i> SAMPLER'S SIGNATURE
2			<i>[Signature]</i>	8/5	1200	
3						
4						

0000351

August 28, 1995

OHM Remediation Services Corporation
5335 Triangle Parkway
Suite 450
Norcross, GA 30092

SAMPLE DELIVERY GROUP NARRATIVE

Case: OHMRC
SDG: LJN10
Laboratory: PACE New England - New Hampshire of Hampton, NH
Lab Numbers: 44913
Protocol: SW846 Methods. NEESA E deliverables. No diskette.

Sample Receipt: These samples were received at PACE, Inc. on August 8, 1995. Laboratory sample numbers were assigned for test parameters as listed on the Sample Table which follows this narrative. The sample shipment was checked for custody seal integrity and cooler temperature. Samples were checked for appropriate preservation and accuracy against the Chains-of-Custody provided. Other than the exceptions noted below, samples were received between 2-6° C and in good condition. PACE Sample Receipt Condition Reports can be found with the Chains-of-Custody.

Shipment received 8/8/95 (44913): These samples were received and samples were logged in under PACE Lab Numbers 44913 and 44914. A temperature blank was not included with the shipment, therefore the cooler temperature could not be verified upon receipt of samples at PACE. The samples were received cool, and had been packed on ice. Samples listed as Items 1-4 on the COC were logged in under PACE# 44914 for seven day turnaround. Samples listed as Items 5-8 on the COC were logged in under PACE# 44913 for 24 hour turnaround. No problems were encountered with the shipment of these samples.

GRO Analysis: Sample 44913-1 and -4 for gasoline had no recovery for the surrogate. This was a probable matrix effect.

DRO Analysis: Analyses proceeded without difficulty. Matrix spikes and duplicates met all acceptance criteria.

Oil and Grease Analysis: Analyses proceeded without difficulty. Matrix spikes and duplicates met all acceptance criteria.

Volatiles Analysis: Analyses proceeded without difficulty. Matrix spikes and duplicates met all acceptance criteria.

PCB Analysis: Analyses proceeded without difficulty. Matrix spikes and duplicates met all acceptance criteria.

Lead Analysis: Analyses proceeded without difficulty. Matrix spikes and duplicates met all acceptance criteria.

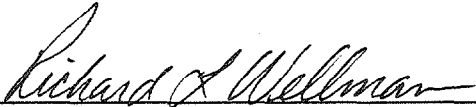
TCLP Metals Analysis: Analyses proceeded without difficulty. Matrix spikes and duplicates met all acceptance criteria.

Conventional Chemistry Analysis: Analyses proceeded without difficulty. Matrix spikes and duplicates met all acceptance criteria.

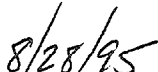
Semi Volatile Analysis: Limits for ABN TCLP analysis have not been re-established since a change in the method, since less than 20 points are available.

Statement of Compliancy and Data Authorization

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature.



PACE Incorporated, New England-New Hampshire



August 28, 1995



NEW ENGLAND - NEW HAMPSHIRE LABORATORY
SAMPLE RECEIPT CONDITION REPORT

44913

Tel. (603) 926-7777
FAX (603) 926-7939

PAGE 1 of 1
COOLER _____ of _____
COC# _____
SDG# LJNIC
CASE# 017M RC

CLIENT OHM

DATE/TIME RECEIVED 8/8/95 0915

LIMS ENTRY BY Gmf

DELIVERED BY Fed Env

TRANSCRIPTION REVIEW BY Gmf

RECEIVED BY [Signature]

LIMS REVIEW BY/PM Gmf

	NA	YES	EXCEPTION	COMMENT	RESOLUTION			
1. CUSTODY SEALS PRESENT/INTACT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
2. CHAIN OF CUSTODY PRESENT IN THIS COOLER	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>					
3. CHAIN OF CUSTODY SIGNED	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>					
4. CHAIN OF CUSTODY MATCHES SAMPLES	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<u>no time on Pace #44913-7</u>				
5. SAMPLES RECEIVED AT 2° - 6° C Ice/Ice Packs Present? <input checked="" type="checkbox"/> or N	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<u>No Temp Blank</u>				
6. VOLATILES FREE OF HEAD SPACE	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>					
7. TRIP BLANK PRESENT IN THIS COOLER	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>					
8. PROPER SAMPLE CONTAINERS AND VOLUME	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>					
9. SAMPLES WITHIN HOLD TIME	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>					
10. SAMPLES PROPERLY PRESERVED	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>Solids</u>				
11. ANALYTICAL PROGRAMS (circle one)	COMMERCIAL	CLP	EPA-CLP	NYASP	NJ ISRA	<u>NEESA</u>	AFCEE	Other _____
12. NUMBER OF PACE FILTRATIONS:	_____							
13. CORRECTIVE ACTIONS REPORT #	_____							

Log-in Notes: 24-TAT

CLIENT AUTHORIZATION SIGNATURE _____ DATE _____

0000003

SAMPLE TABLE

CLIENT ID.	MATRIX	PACE #	PARAMETERS
CLJ44-CC-020	SOLID	44913-001 44913-005	TOTAL GASOLINE OIL & GREASE BY GRAVIMETRY TOTAL DIESEL
CLJ44-CC-021	SOLID	44913-002 44913-006	TOTAL GASOLINE OIL & GREASE BY GRAVIMETRY TOTAL DIESEL
CLJ44-CC-022	SOLID	44913-003 44913-007 44913-009	GC/MS VOA TOTAL GASOLINE PCBS OIL & GREASE BY GRAVIMETRY TOTAL DIESEL Pb GC/MS VOA ACID EXTRACTABLES BASE/NEUTRAL EXTRACTABLES TCLP VOA EXTRACT TCLP ORGANICS EXTRACT CORROSIVITY FLASH POINT RELEASABLE CYANIDE RELEASABLE SULFIDE TCLP METALS EXTRACTION Ba, Cd, Cr, Pb, Hg, Ag, As, Se
CLJ44-CC-023	SOLID	44913-004 44913-008	TOTAL GASOLINE OIL & GREASE BY GRAVIMETRY TOTAL DIESEL

Field Identification: CLJ44-CC-020

Matrix: SOLID

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Total Gasoline (ug/g)	420	27	44913-001	08/09/95	BG1033A	8015(mod)/2
Total Diesel (ug/g)	2400	38	44913-005	08/09/95		8015(mod),3350/2
Oil and Grease by Gravimetry (ug/g)	720	290	44913-005	08/10/95	BG1370	9071,503D/2,3

Field Identification: CLJ44-CC-021

Matrix: SOLID

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Total Gasoline (ug/g)	160	14	44913-002	08/09/95	BG1033A	8015(mod)/2
Total Diesel (ug/g)	1600	38	44913-006	08/09/95		8015(mod),3350/2
Oil and Grease by Gravimetry (ug/g)	790	290	44913-006	08/10/95	BG1370	9071,503D/2,3

Field Identification: CLJ44-CC-022

Matrix: SOLID

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Total Gasoline (ug/g)	870	75	44913-003	08/09/95	BG1033A	8015(mod)/2
Total Diesel (ug/g)	2500	39	44913-007	08/09/95		8015(mod),3350/2
Oil and Grease by Gravimetry (ug/g)	1300	290	44913-007	08/10/95	BG1370	9071,503D/2,3
Lead, total (ug/g)	6	5	44913-007	08/09/95	21806	3050,6010/2
Corrosivity (pH, units)	6.4		44913-009	08/08/95	347	2.1.2/2
Releasable Sulfide (mg/Kg)	BDL	50	44913-009	08/08/95	290	7.3.4.2/2
Releasable Cyanide (mg/Kg)	BDL	1	44913-009	08/08/95	290	7.3.3.2/2
Flash Point (degrees F)	>150	50	44913-009	08/08/95	316	1010/2

Field Identification: CLJ44-CC-023

Matrix: SOLID

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Total Gasoline (ug/g)	210	14	44913-004	08/09/95	BG1033A	8015(mod)/2
Total Diesel (ug/g)	1800	39	44913-008	08/09/95		8015(mod),3350/2
Oil and Grease by Gravimetry (ug/g)	680	280	44913-008	08/10/95	BB1370	9071,503D/2,3

Results expressed on a dry weight basis with the exception of releasables, which are expressed on a weight as received basis.

References: 1) 40 CFR Part 136, Friday, October 26, 1984
 2) EPA SW 846, 3rd Edition
 3) Standard Methods, 16th Edition

pace
 INCORPORATED
 THE ASSURANCE OF QUALITY

0000005

Laboratory number: 44913-003
Sample Designation: CLJ44-CC-022
Date Analyzed: 08/08/95
Matrix: SOLID

Instrument File Name: >C9715

Results are expressed on a dry (103 degrees C) basis.
Moisture content was 17 % , elevating the reporting limits
by a factor of 1.2 .

VOLATILE ORGANICS	CONCENTRATION (ug/g)	REPORTING LIMIT (ug/g)
Chloromethane	BDL	2.9
Bromomethane	BDL	2.9
Vinyl chloride	BDL	2.9
Chloroethane	BDL	1.5
Methylene chloride	BDL	2.9
Acetone	BDL	7
Carbon disulfide	BDL	1.5
1,1-Dichloroethene	BDL	1.5
Tetrahydrofuran	BDL	7
1,1-Dichloroethane	BDL	1.5
1,2-Dichloroethene (total)	BDL	1.5
Chloroform	BDL	1.5
Methyl ethyl ketone	BDL	7
1,2-Dichloroethane	BDL	1.5
1,1,1-Trichloroethane	BDL	1.5
Carbon Tetrachloride	BDL	1.5
Vinyl acetate	BDL	2.9
Bromodichloromethane	BDL	1.5
cis-1,3-Dichloropropene	BDL	1.5
trans-1,3-Dichloropropene	BDL	1.5
Trichloroethene	BDL	1.5
Benzene	BDL	1.5
Dibromochloromethane	BDL	1.5
1,1,2-Trichloroethane	BDL	1.5
1,2-Dichloropropane	BDL	1.5
2-Chloroethyl vinyl ether	BDL	1.5
Bromoform	BDL	1.5
Methyl isobutyl ketone	BDL	7
2-Hexanone	BDL	7
1,1,2,2-Tetrachloroethane	BDL	1.5
Tetrachloroethene	BDL	1.5
Toluene	BDL	1.5
Chlorobenzene	BDL	1.5
Ethylbenzene	2.8	1.5
Xylene (total)	19	1.5
Styrene	BDL	1.5

METHOD REFERENCE: EPA SW 846, 3rd Edition
METHOD 8240

BDL = Below reporting limit

Detection limit raised by the presence of non-listed compounds.



0000006

Laboratory number: 44913-007
Sample Designation: CLJ44-CC-022
Date Extracted: 08/08/95
Date Analyzed: 08/09/95
Matrix: SOLID

Results are expressed on a dry (103 degrees C) basis.
Moisture content was 16 % , elevating the reporting limits
by a factor of 1.2 .

PCB'S	CONCENTRATION (ug/g)	REPORTING LIMIT (ug/g)
PCB-1242 (Arochlor 1242)	BDL	0.1
PCB-1254 (Arochlor 1254)	BDL	0.1
PCB-1221 (Arochlor 1221)	BDL	0.1
PCB-1232 (Arochlor 1232)	BDL	0.1
PCB-1248 (Arochlor 1248)	BDL	0.1
PCB-1260 (Arochlor 1260)	BDL	0.1
PCB-1016 (Arochlor 1016)	BDL	0.1

METHOD REFERENCE: EPA SW 846, 3rd Edition
METHODS 3550 AND 8080

BDL = Below reporting limit

TOXICITY CHARACTERISTIC LEACHING PROCEDURE (1)
EXTRACTION FOR VOLATILE CONSTITUENTS

Laboratory Number : 44913-009
Field Identification : CLJ44-CC-022
Extraction Date : 08/09/95
TCLP Blank : 90,002-388

Sample description : NON-HOMOGENEOUS GRANULAR SOIL

Extraction Fluid Selection (1,2):

Extraction Fluid #1 was used as specified in the method.

Sample Preparation (1):

Since the sample contained no free liquid, it was not filtered before extraction. 25 g of sample was added to the extractor with 500 mL of Extraction Fluid #1.

Extraction Time : 16.00 hrs

% Solids as defined in method : 100

References:

1. 40 CFR Part 261, Appendix II, Nov. 24, 1992
2. Extraction Fluid #1: 0.57% by volume glacial acetic acid to which 0.1N NaOH has been added to yield a pH of 4.93 +/- 0.05.

TOXICITY CHARACTERISTIC LEACHING PROCEDURE
ANALYSIS FOR VOLATILE CONSTITUENTS

Laboratory number: 44913-009
Sample Designation: CLJ44-CC-022
Matrix: TCLP EXTRACT

Parameter	Result (mg/L)	Regulatory Limit (mg/L)	Reporting Limit (mg/L)

VOLATILES		Date Analyzed: 08/11/95	
Vinyl chloride	BDL	0.2	.01
1,1-Dichloroethene	BDL	0.7	.005
1,2-Dichloroethane	BDL	0.5	.005
Chloroform	BDL	6.0	.005
Methyl ethyl ketone	BDL	200	.025
Carbon Tetrachloride	BDL	0.5	.005
Trichloroethene	BDL	0.5	.005
Benzene	.007	0.5	.005
Tetrachloroethene	BDL	0.7	.005
Chlorobenzene	BDL	100	.005

Results uncorrected for matrix spike recovery.

TOXICITY CHARACTERISTIC LEACHING PROCEDURE (1)
EXTRACTION FOR NON-VOLATILE CONSTITUENTS

Laboratory Number : 44913-009
Field Identification : CLJ44-CC-022
Extraction Date : 08-09-95
TCLP Blank : 90,001-274

Sample description : NON-HOMOGENEOUS GRANULAR SOIL

Extraction Fluid Selection (1,2):

A 5.0 gm portion of the sample was stirred with 96.5 mL deionized water. The pH at the end of 5 minutes was 7.37. 3.5 mL 1.0N HCl was added and the mixture was then heated to 50C for ten minutes. Upon cooling the pH was 1.61, therefore Extraction Fluid #1 was used.

Sample Preparation (1):

Since the sample contained no free liquid, it was not filtered before extraction. 100 gm of sample was added to the extractor with 2000 mL Extraction Fluid #1.

Extraction Time : 17.00 hrs

Final pH : 4.87

% Solids as defined in method : 100

References:

1. 40 CFR Part 261, Appendix II, Nov. 24, 1992
2. Extraction Fluid: 0.57% by volume glacial acetic acid to which 0.1N NaOH has been added to yield a pH of 4.93 +/- 0.05.

Laboratory number: 44913-009
Sample Designation: CLJ44-CC-022
Date Extracted: 08/10/95
Date Analyzed: 08/11/95
Matrix: TCLP EXTRACT

Instrument File Name: >H8784

Parameter	Result (mg/L)	Regulatory Limit (mg/L)	Reporting Limit (mg/L)
Pyridine	BDL	5.0	0.05
1,4-Dichlorobenzene	BDL	7.5	0.05
2,4-Dinitrotoluene	BDL	0.13	0.05
2-Methylphenol	BDL	200	0.05
3,4-Methylphenols	BDL	200	0.05
Hexachloroethane	BDL	3.0	0.05
Nitrobenzene	BDL	2.0	0.05
Hexachlorobenzene	BDL	0.13	0.05
Pentachlorophenol	BDL	100	0.05
Hexachlorobutadiene	BDL	0.5	0.05
2,4,6-Trichlorophenol	BDL	2.0	0.05
2,4,5-Trichlorophenol	BDL	400	0.05

METHOD REFERENCE: EPA SW846, 3rd Edition
METHOD 8270

BDL = Below reporting limit

TOXICITY CHARACTERISTIC LEACHING PROCEDURE
ANALYSIS FOR METALS CONSTITUENTS

Laboratory number: 44913 -009
 Sample Designation: CLJ44-CC-022
 Matrix: TCLP EXTRACT

Parameter		Result (mg/L)	Regulatory Limit (mg/L)	Reporting Limit (mg/L)

METALS	Date Analyzed			
Arsenic	08/16/95 13:25	BDL	5.0	.05
Barium	08/16/95 13:25	BDL	100	.5
Cadmium	08/16/95 13:25	BDL	1.0	.03
Chromium	08/16/95 13:25	BDL	5.0	.05
Lead	08/16/95 13:25	.05	5.0	.03
Mercury	08/17/95 11:51	BDL	0.2	.0003
Selenium	08/16/95 13:25	BDL	1.0	.05
Silver	08/16/95 13:25	BDL	5.0	.1

Results uncorrected for matrix spike recovery.



TCLP METHOD SUMMARY

PARAMETER	METHOD/REF.
TCLP Extract Generation	1311/1
Volatile organic compounds	8240/2
Semivolatile organic compounds	8270/2
Pesticides	8080/2
Herbicides	8150/2
Metals:	
Arsenic	6010/2
Barium	6010/2
Cadmium	6010/2
Chromium	6010/2
Lead	6010/2
Mercury	7470/2
Selenium	6010/2
Silver	6010/2

References: 1) 40 CFR Part 261, Appendix II, Nov. 24, 1992
2) EPA SW 846, 3rd Edition

QUALITY CONTROL DATA
TOTAL GASOLINE

BLANK DATA

Laboratory Number: B-G1033A
Sample Designation: LABORATORY BLANK
Date Analyzed: 08/09/95
Matrix: SOLID

COMPOUND	CONCENTRATION ug/g	DETECTION LIMIT ug/g
GASOLINE	BDL	12

MATRIX SPIKE RECOVERY

Laboratory Number: LS-G1033
Sample Designation: LABORATORY CONTROL SAMPLE
Date Analyzed: 08/09/95
Matrix: SOLID

COMPOUND	ug/g IN SAMPLE	ug/g SPIKE	ug/g FOUND	%REC- OVERY
GASOLINE	0	50	54	108

METHOD REFERENCE: METHOD 8015 (MODIFIED)

Laboratory number: BV1118A
Sample Designation: LABORATORY BLANK
Date Analyzed: 08/08/95
Matrix: SOLID

VOLATILE ORGANICS	CONCENTRATION (ug/g)	DETECTION LIMIT (ug/g)
Chloromethane	BDL	1.0
Bromomethane	BDL	1.0
Vinyl chloride	BDL	1.0
Chloroethane	BDL	0.5
Methylene chloride	BDL	1.0
Acetone	BDL	2.5
Carbon disulfide	BDL	0.5
1,1-Dichloroethene	BDL	0.5
Tetrahydrofuran	BDL	2.5
1,1-Dichloroethane	BDL	0.5
Chloroform	BDL	0.5
Methyl ethyl ketone	BDL	2.5
1,2-Dichloroethane	BDL	0.5
1,1,1-Trichloroethane	BDL	0.5
Carbon Tetrachloride	BDL	0.5
Vinyl acetate	BDL	1.0
Bromodichloromethane	BDL	0.5
cis-1,3-Dichloropropene	BDL	0.5
cis-1,3-Dichloropropene	BDL	0.5
trans-1,3-Dichloropropene	BDL	0.5
Trichloroethene	BDL	0.5
Benzene	BDL	0.5
Dibromochloromethane	BDL	0.5
1,1,2-Trichloroethane	BDL	0.5
1,2-Dichloropropane	BDL	0.5
2-Chloroethyl vinyl ether	BDL	0.5
Bromoform	BDL	0.5
Methyl isobutyl ketone	BDL	2.5
2-Hexanone	BDL	2.5
1,1,2,2-Tetrachloroethane	BDL	0.5
Tetrachloroethene	BDL	0.5
Toluene	BDL	0.5
Chlorobenzene	BDL	0.5
Ethylbenzene	BDL	0.5
m-Xylene	BDL	0.5
o,p-Xylene	BDL	0.5
Styrene	BDL	0.5

METHOD REFERENCE: EPA SW 846, 3RD EDITION
METHOD 8240

BDL = Below detection limit

MATRIX SPIKE RECOVERY
VOLATILE ORGANIC COMPOUNDS

Laboratory Number: LS1118
Sample Designation: LABORATORY CONTROL SAMPLE
Date Analyzed: 08/08/95
Matrix: SOLID

COMPOUND	ug/g IN SAMPLE	ug/g SPIKE	ug/g FOUND	%REC- OVERY
1,1-DICHLOROETHENE	0	6.25	6.76	108
TRICHLOROETHYLENE	0	6.25	6.42	103
BENZENE	0	6.25	6.13	98
TOLUENE	0	6.25	6.04	97
CHLOROBENZENE	0	6.25	6.04	97

METHOD REFERENCE: EPA SW 846, 3RD EDITION
METHOD 8240

QUALITY CONTROL
OIL & GREASE

BLANK DATA

Laboratory Number: B-G1370
Sample Designation: LABORATORY BLANK
Date Analyzed: 08/10/95
Matrix: SOLID

PARAMETER	CONCENTRATION ug/g	DETECTION LIMIT ug/g
OIL & GREASE	BDL	250

MATRIX SPIKE RECOVERY

Laboratory Number: LS-G1370
Sample Designation: LABORATORY CONTROL SAMPLE
Date Analyzed: 08/10/95
Matrix: SOLID

PARAMETER	ug/g IN SAMPLE	ug/g SPIKE	ug/g FOUND	%REC- OVERY
OIL & GREASE	0	1300	1000	77

METHOD REFERENCE: EPA SW846, 3RD EDITION
METHOD 9071
STANDARD METHODS, 16TH EDITION, METHOD 503D

QUALITY CONTROL DATA
PETROLEUM HYDROCARBONS BY GCFID

BLANK DATA

Laboratory Number: B-H1358
Sample Designation: LABORATORY BLANK
Date Analyzed: 08/09/95
Matrix: SOLID

HYDROCARBON TYPE	CONCENTRATION ug/g	DETECTION LIMIT ug/g
DIESEL	BDL	3

MATRIX SPIKE RECOVERY

Laboratory Number: LSH1358
Sample Designation: LABORATORY CONTROL SAMPLE
Date Analyzed: 08/09/95
Matrix: SOLID

COMPOUND	ug/g SAMPLE	ug/g SPIKE	ug/g FOUND	%REC- OVERY
DIESEL	0	33.46	25.05	75

METHOD REFERENCE: EPA SW 846, 3RD EDITION METHOD 8100 (MODIFIED)
AND ASTM D 3328-78

Laboratory number: B-P4401
Sample Designation: LABORATORY BLANK
Date Analyzed: 08/10/95
Matrix: SOLID

Results are expressed on a dry (103 degrees C) basis.

PCB'S	CONCENTRATION (ug/g)	DETECTION LIMIT (ug/g)
PCB-1242	BDL	0.1
PCB-1254	BDL	0.1
PCB-1221	BDL	0.1
PCB-1232	BDL	0.1
PCB-1248	BDL	0.1
PCB-1260	BDL	0.1
PCB-1016	BDL	0.1

METHOD REFERENCE: EPA SW846, 3RD EDITION
METHODS 3550 AND 8080

BDL = Below detection limit

PCB'S

MATRIX SPIKE RECOVERY

Laboratory Number: LS-P4401
Sample Designation: LABORATORY CONTROL SAMPLE
Date Analyzed 08/10/95
Matrix: SOLID

COMPOUND	ug/g IN SAMPLE	ug/g SPIKE	ug/g FOUND	%REC- OVERY
AR-1254	0	1.01	1.16	115

METHOD REFERENCE: EPA SW846, 3RD EDITION
METHODS 3550 AND 8080

Laboratory number: BC081195A1
Sample Designation: LABORATORY BLANK
Date Analyzed: 08/11/95
Matrix: WATER

VOLATILE ORGANICS	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
Chloromethane	BDL	10
Bromomethane	BDL	10
Vinyl chloride	BDL	10
Chloroethane	BDL	5
Methylene chloride	BDL	10
Acetone	BDL	25
Carbon disulfide	BDL	5
1,1-Dichloroethene	BDL	5
Tetrahydrofuran	BDL	25
1,1-Dichloroethane	BDL	5
1,2-Dichloroethene (total)	BDL	5
Chloroform	BDL	5
Methyl ethyl ketone	BDL	25
1,2-Dichloroethane	BDL	5
1,1,1-Trichloroethane	BDL	5
Carbon Tetrachloride	BDL	5
Vinyl acetate	BDL	10
Bromodichloromethane	BDL	5
cis-1,3-Dichloropropene	BDL	5
trans-1,3-Dichloropropene	BDL	5
Trichloroethene	BDL	5
Benzene	BDL	5
Dibromochloromethane	BDL	5
1,1,2-Trichloroethane	BDL	5
1,2-Dichloropropane	BDL	5
2-Chloroethyl vinyl ether	BDL	5
Bromoform	BDL	5
Methyl isobutyl ketone	BDL	25
2-Hexanone	BDL	25
1,1,2,2-Tetrachloroethane	BDL	5
Tetrachloroethene	BDL	5
Toluene	BDL	5
Chlorobenzene	BDL	5
Ethylbenzene	BDL	5
m-Xylene	BDL	5
o,p-Xylene	BDL	5
Styrene	BDL	5

METHOD REFERENCE: EPA SW 846 3RD EDITION
METHOD 8240

BDL = Below detection limit

Laboratory number: TCLP BLANK #388
Client ID: TCLP BLANK
Date Analyzed: 08/11/95
Matrix: TCLP EXTRACT

Parameter	Result (ug/L)	Regulatory Limit (ug/L)	Detection Limit (ug/L)
Vinyl chloride	BDL	200	10
1,1-Dichloroethene	BDL	700	5
1,2-Dichloroethane	BDL	500	5
Chloroform	BDL	6000	5
Methyl ethyl ketone	BDL	200000	25
Carbon Tetrachloride	BDL	500	5
Trichloroethene	BDL	500	5
Benzene	BDL	500	5
Tetrachloroethene	BDL	700	5
Chlorobenzene	BDL	100000	5

METHOD REFERENCE: EPA SW846 3rd EDITION
METHOD 8240

BDL = Below detection limit

MATRIX SPIKE RECOVERY
VOLATILE ORGANIC COMPOUNDS

Laboratory Number: LCC081195A1
Sample Designation: LABORATORY CONTROL SAMPLE
Date Analyzed: 08/11/95
Matrix: WATER

COMPOUND	ug/L IN SAMPLE	ug/L SPIKE	ug/L FOUND	%REC- OVERY
1,1-DICHLOROETHENE	0	50	64	128
TRICHLOROETHYLENE	0	50	58	116
BENZENE	0	50	56	112
TOLUENE	0	50	58	115
CHLOROBENZENE	0	50	61	122

METHOD REFERENCE: EPA SW 846, 3RD EDITION
METHOD 8240

Laboratory number: B-A2398
 Sample Designation: LABORATORY BLANK
 Date Analyzed: 08/11/95
 Matrix: WATER

ACID/BASE/NEUTRAL EXTRACTABLES	DETECTION		ACID/BASE/NEUTRAL EXTRACTABLES	DETECTION	
	CONCENTRATION (ug/L)	LIMIT (ug/L)		CONCENTRATION (ug/L)	LIMIT (ug/L)
N-Nitrosodimethylamine	BDL	10	3-Nitroaniline	BDL	50
Phenol	BDL	10	Acenaphthene	BDL	10
Aniline	BDL	10	2,4-Dinitrophenol	BDL	50
Bis(2-chloroethyl)ether	BDL	10	4-Nitrophenol	BDL	50
2-Chlorophenol	BDL	10	Dibenzofuran	BDL	10
1,3-Dichlorobenzene	BDL	10	2,4-Dinitrotoluene	BDL	10
1,4-Dichlorobenzene	BDL	10	Diethylphthalate	BDL	10
Benzylalcohol	BDL	10	4-Chlorophenyl-phenylether	BDL	10
1,2-Dichlorobenzene	BDL	10	Fluorene	BDL	10
2-Methylphenol	BDL	10	4-Nitroaniline	BDL	50
Bis(2-chloroisopropyl)ether	BDL	10	4,6-Dinitro-2-methylphenol	BDL	50
4-Methylphenol	BDL	10	N-Nitrosodiphenylamine	BDL	10
N-Nitroso-di-N-propylamine	BDL	10	Azobenzene	BDL	10
Hexachloroethane	BDL	10	4-Bromophenyl-phenylether	BDL	10
Nitrobenzene	BDL	10	Hexachlorobenzene	BDL	10
Isophorone	BDL	10	Pentachlorophenol	BDL	10
2-Nitrophenol	BDL	10	Phenanthrene	BDL	10
2,4-Dimethylphenol	BDL	10	Anthracene	BDL	10
Benzoic acid	BDL	50	Di-N-butylphthalate	BDL	10
Bis(2-chloroethoxy)methane	BDL	10	Fluoranthene	BDL	10
2,4-Dichlorophenol	BDL	10	Benzidine	BDL	50
1,2,4-Trichlorobenzene	BDL	10	Pyrene	BDL	10
Naphthalene	BDL	10	Butylbenzylphthalate	BDL	10
4-Chloroaniline	BDL	10	3,3'-Dichlorobenzidine	BDL	20
Hexachlorobutadiene	BDL	10	Benzo(A)anthracene	BDL	10
4-Chloro-3-methylphenol	BDL	10	Chrysene	BDL	10
2-Methylnaphthalene	BDL	10	Bis(2-ethylhexyl)phthalate	BDL	10
Hexachlorocyclopentadiene	BDL	10	Di-N-octylphthalate	BDL	10
2,4,6-Trichlorophenol	BDL	10	Benzo(B)fluoranthene	BDL	10
2,4,5-Trichlorophenol	BDL	50	Benzo(K)fluoranthene	BDL	10
2-Chloronaphthalene	BDL	10	Benzo(A)pyrene	BDL	10
2-Nitroaniline	BDL	50	Ideno(1,2,3,-CD)pyrene	BDL	10
Dimethylphthalate	BDL	10	Dibenz(A,H)anthracene	BDL	10
Acenaphthylene	BDL	10	Benzo(G,H,I)perylene	BDL	10
2,6-Dinitrotoluene	BDL	10			

METHOD REFERENCE: EPA SW 846, 3RD EDITION
 METHOD 8270

BDL = Below detection limit



0000024

Laboratory number: TCLP BLANK #274
Sample Designation: TCLP BLANK
Date Analyzed: 08/18/95
Matrix: TCLP EXTRACT

Parameter	Result (ug/L)	Regulatory Limit (ug/L)	Detection Limit (ug/L)
-----	-----	-----	-----
Pyridine	BDL	5000	56
1,4-Dichlorobenzene	BDL	7500	56
2,4-Dinitrotoluene	BDL	130	56
2-Methylphenol	BDL	200000	56
3,4-Methylphenols	BDL	200000	56
Hexachloroethane	BDL	3000	56
Nitrobenzene	BDL	2000	56
Hexachlorobenzene	BDL	130	56
Pentachlorophenol	BDL	100000	56
Hexachlorobutadiene	BDL	500	56
2,4,6-Trichlorophenol	BDL	2000	56
2,4,5-Trichlorophenol	BDL	400000	56

METHOD REFERENCE: EPA SW 846, 3RD EDITION
METHOD 8270

BDL = Below detection limit

MATRIX SPIKE RECOVERY
ACID/BASE/NEUTRAL EXTRACTABLE ORGANIC COMPOUNDS

Laboratory Number: LS-A2398
Sample Designation: LABORATORY CONTROL SAMPLE
Date Analyzed: 08/11/95
Matrix: WATER

COMPOUND	ug/L IN SAMPLE	ug/L SPIKE	ug/L FOUND	%REC- OVERY
PHENOL	0	200	112	56
2-CHLOROPHENOL	0	200	126	63
1,4-DICHLOROBENZENE	0	100	55	55
N-NITROSO-DI-N-PROPYLAMINE	0	100	64	64
1,2,4-TRICHLOROBENZENE	0	100	62	62
4-CHLORO-3-METHYLPHENOL	0	200	133	67
ACENAPHTHENE	0	100	67	67
4-NITROPHENOL	0	200	125	63
2,4-DINITROTOLUENE	0	100	66	66
PENTACHLOROPHENOL	0	200	130	65
PYRENE	0	100	59	59

METHOD REFERENCE: 40 CFR PART 136, FRIDAY, OCTOBER 26, 1984
METHOD 625

QUALITY CONTROL

Corrosivity

Method: 7.2 SW846 3rd Edition

QC Batch: 347 For: 44913

Matrix: SOLID

LABORATORY CONTROL SAMPLES:

	True Value Units -----	Observed Value Units -----
LCS1	7.0	7.02

QUALITY CONTROL

Flashpoint

Method: D93-80, ASTM

QC Batch: 316 For: 44913

Matrix: SOIL

LABORATORY CONTROL SAMPLES:

	True Value Deg F	Observed Value Deg F
	-----	-----
LCS1	81.0	81.00

PACE INC. NE-NH LAB
 QUALITY CONTROL
 Releasable Sulfide
 Method: 7.3.4.2 EPA SW846, 3rd Edition

QC Batch: 290 For: 44913
 Matrix: SOLID

METHOD BLANK: Result
 ug/g

 < 50.00

LABORATORY CONTROL SAMPLES:	True Value ug/g	Observed Value ug/g	Accuracy
			Recovery %
LCS1	1403.0	1480.3	105.5

FIELD SAMPLE:

Precision Lab No.	Replicate 1 ug/g	Replicate 2 ug/g	Average ug/g	Relative Percent Difference
				%
44829-1	< 50.00	< 50.00	NC	NC

QUALITY CONTROL QUALIFIER STATEMENT

The sample results used to generate quality control information for solid samples are uncorrected for dry weight. This does not affect the results reported for percent of spike recovery and relative percent difference.

NC = Not calculable due to result below detection limit.



PACE INC. NE-NH LAB
 QUALITY CONTROL
 Releasable Cyanide
 Method: 7.3.3.2 SW846, 3rd Edition

QC Batch: 290 For: 44913
 Matrix: SOLID

METHOD BLANK: Result
 ug/g

 < 1.00

LABORATORY CONTROL SAMPLES:	True Value	Observed Value	Accuracy
	ug/g	ug/g	Recovery %
	-----	-----	-----
LCS1	40.0	6.200	15.5

FIELD SAMPLE:

Precision	Replicate 1	Replicate 2	Average	Relative Percent Difference
Lab No.	ug/g	ug/g	ug/g	%
-----	-----	-----	-----	-----
44829-1	< 1.00	< 1.00	NC	NC

QUALITY CONTROL QUALIFIER STATEMENT

The sample results used to generate quality control information for solid samples are uncorrected for dry weight. This does not affect the results reported for percent of spike recovery and relative percent difference.

NC = Not calculable due to result below detection limit.



PACE New England, Inc.

Metals Results for TCLP Blank 274

ELEMENT	BLANK RESULT	
Arsenic	< 0.20	mg/L
Barium	< 0.10	mg/L
Cadmium	< 0.005	mg/L
Chromium	< 0.01	mg/L
Lead	< 0.05	mg/L
Mercury	< 0.0003	mg/L
Selenium	< 0.20	mg/L
Silver	< 0.02	mg/L

All results are methods 3010 and 6010,
except mercury (method 7470).

PACE New England, Inc.

Metals QC Results for : 44913

QC BATCH: 12423
 MATRIX: WATER
 CONCENTRATION UNITS: UG/L

ELEMENT	LCS TRUE VALUE	LCS RESULT	LCS % RECOVERY	METHOD	BLANK
Aluminum	2000.00	2070.00	103.5	U	15.4
Antimony	500.00	486.00	97.2	U	11.9
Arsenic	2000.00	1920.00	96.0	U	22.4
Arsenic -	2000.00	1890.00	94.5	U	2.6
Barium	2000.00	1950.00	97.5	U	0.8
Beryllium	50.00	47.40	94.8	U	0.2
Boron	1000.00	1000.00	100.0	U	34.6
Cadmium	50.00	53.70	107.4	U	1.4
Calcium	10000.00	10100.00	101.0	U	7.3
Chromium	200.00	202.00	101.0	U	2.0
Cobalt	500.00	504.00	100.8	U	2.4
Copper	250.00	247.00	98.8	U	5.6
Iron	1000.00	1010.00	101.0	U	11.0
Lead	500.00	460.00	92.0	U	15.4
Lead -	500.00	481.00	96.2	U	1.0
Magnesium	10000.00	9850.00	98.5	B	28.0
Manganese	500.00	496.00	99.2	U	0.5
Molybdenum	1000.00	1040.00	104.0	U	1.5
Nickel	500.00	511.00	102.2	U	5.5
Potassium	10000.00	9920.00	99.2	U	500.0
Selenium	2000.00	1880.00	94.0	U	25.3
Selenium -	2000.00	1820.00	91.0	U	3.5
Silver	50.00	52.40	104.8	B	4.7
Sodium	10000.00	9700.00	97.0	B	100.0
Thallium	2000.00	1830.00	91.5	U	21.7
Thallium -	2000.00	1860.00	93.0	U	3.7
Tin	1000.00	1050.00	105.0	U	5.3
Titanium	1000.00	970.00	97.0	U	0.2
Vanadium	500.00	488.00	97.6	U	2.5
Zinc	500.00	478.00	95.6	U	5.8

B = Result between instrument detection limit and reporting limit.

U = Result below instrument detection limit.

N = LCS recovery not within advisory QC limits (80% - 120%)
 with the exception of Silver QC limits (52% - 136%).

PACE New England, Inc.

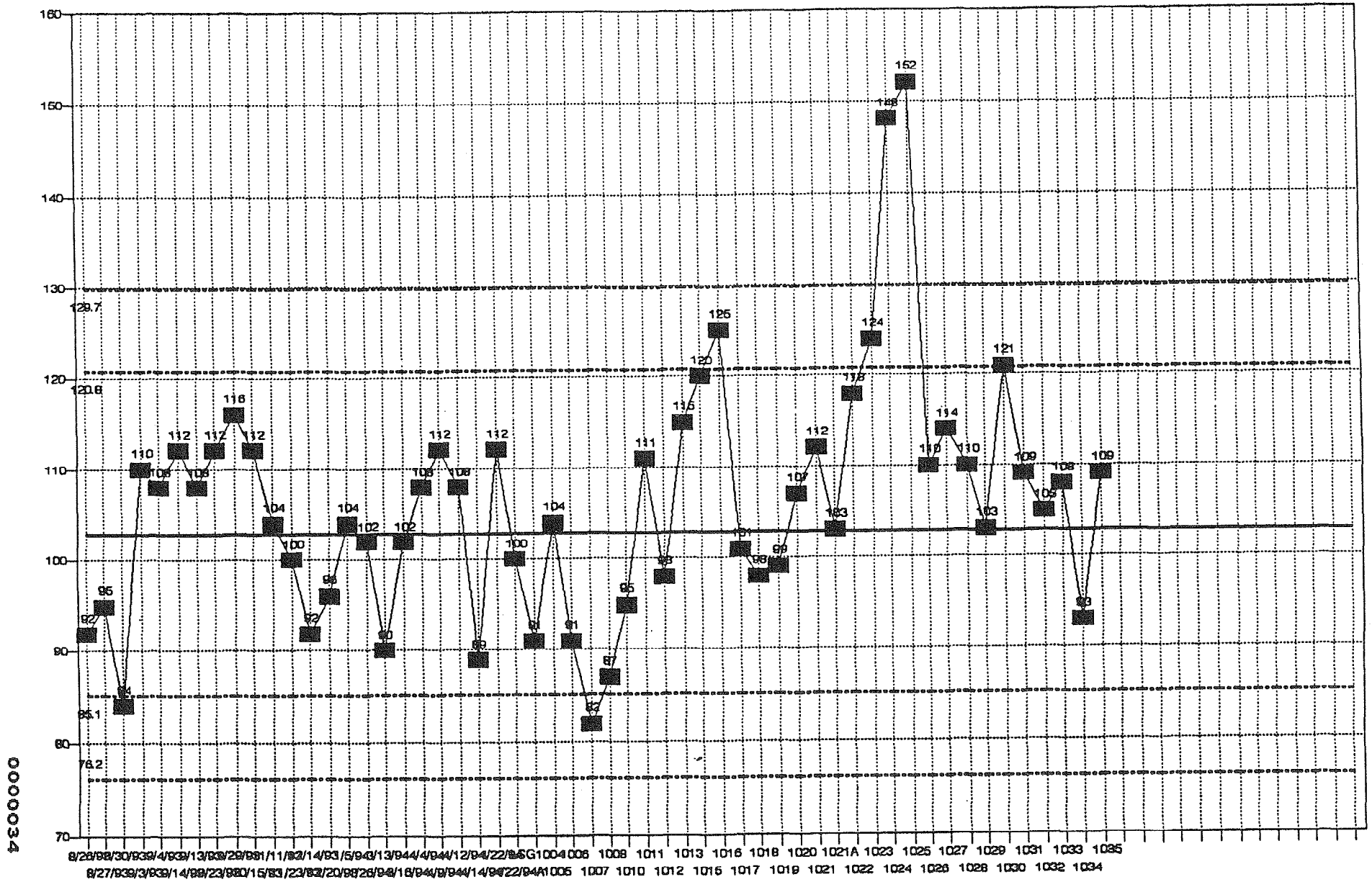
Metals QC Results for : 44913

QC BATCH: 6175B
MATRIX: WATER
CONCENTRATION UNITS: UG/L

ELEMENT	LCS TRUE VALUE	LCS RESULT	LCS % RECOVERY	METHOD BLANK
Mercury	8.00	8.00	100.0	U 0.10

B = Result between instrument detection limit and reporting limit.
U = Result below instrument detection limit.
N = LCS recovery not within advisory QC limits (80% - 120%)
with the exception of Silver QC limits (52% - 136%).

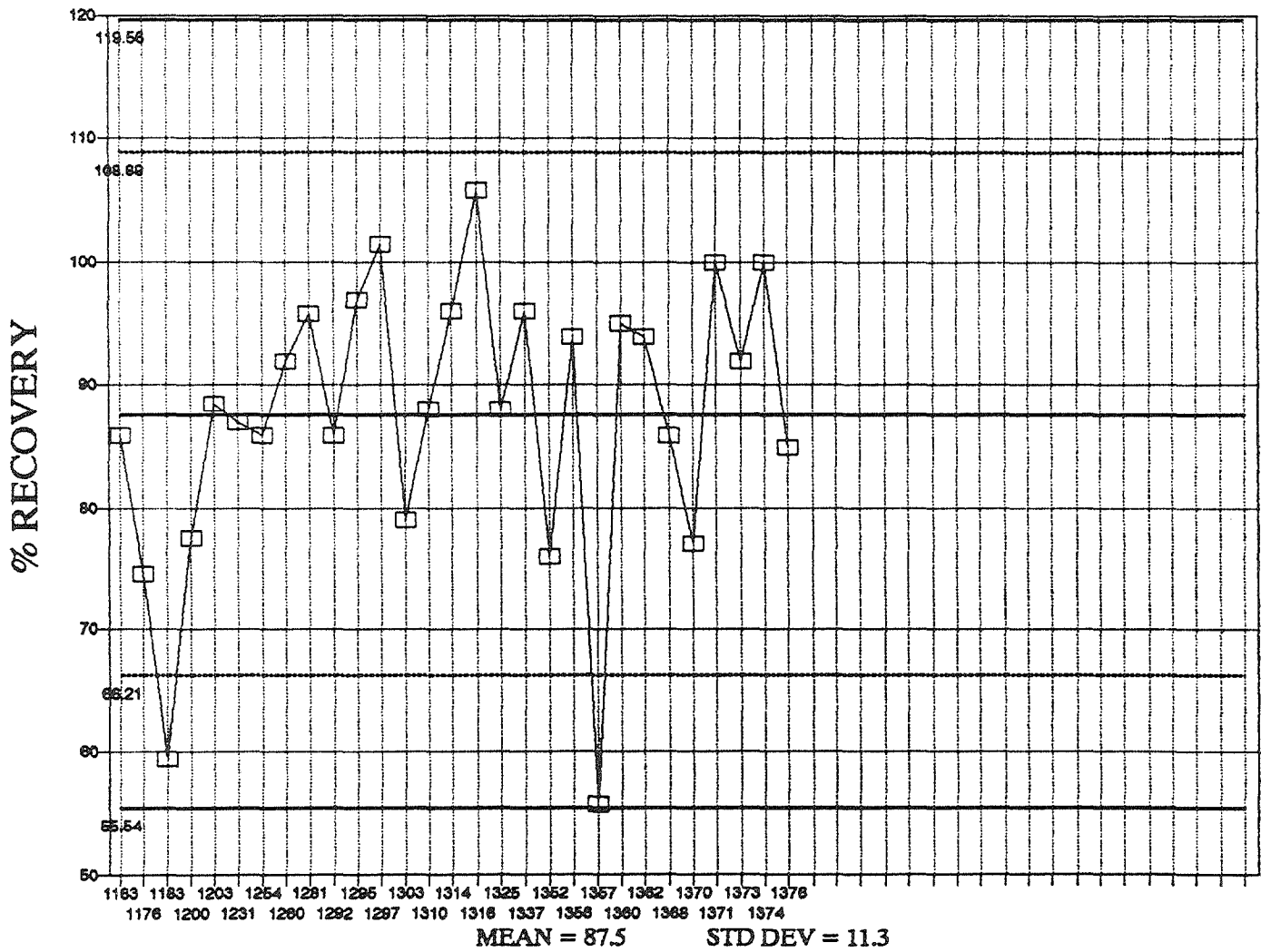
TOTAL GAS LCS RECOVERIES LIMITS SET 4/13/94



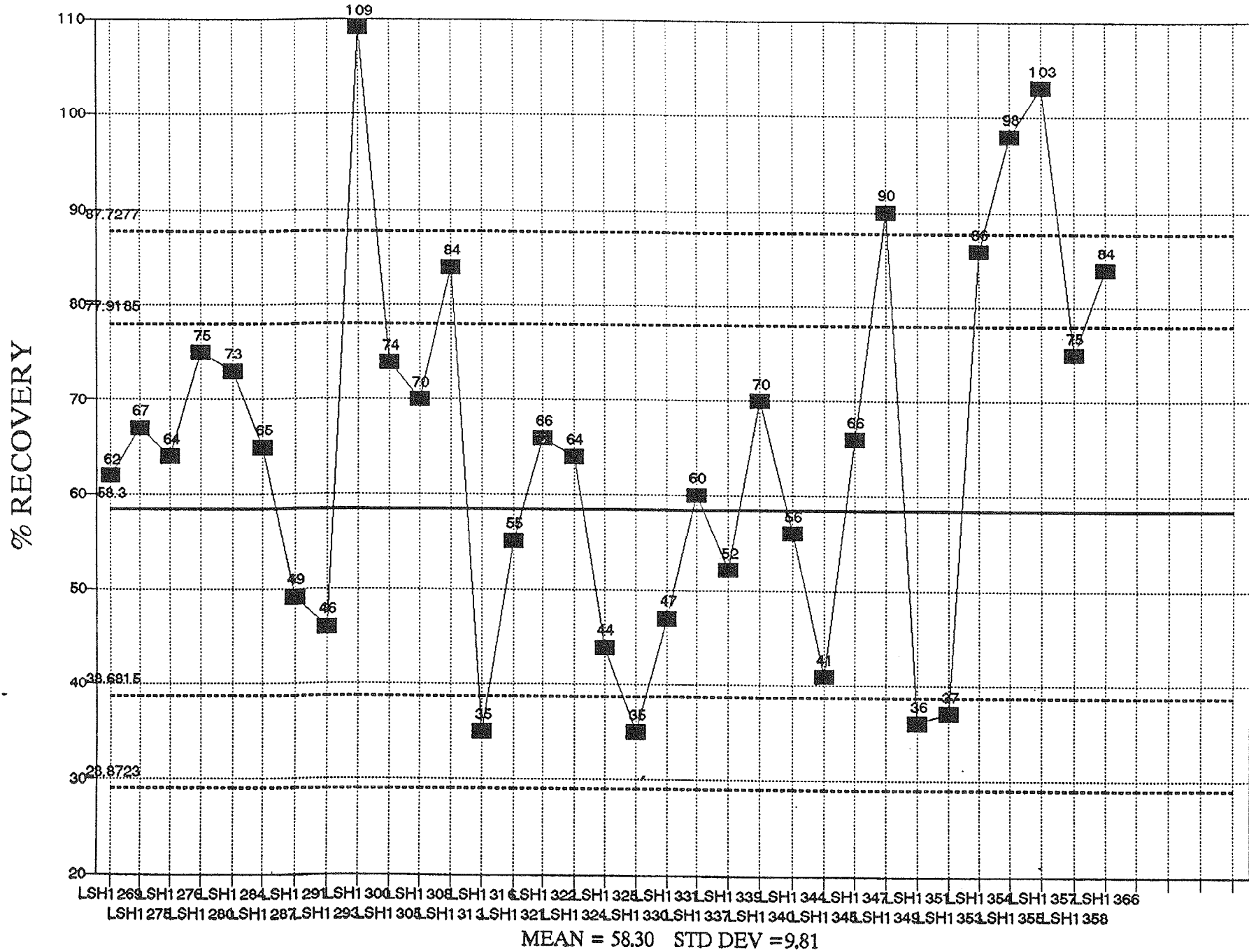
0000034

STD DEV = 8.93 MEAN = 103

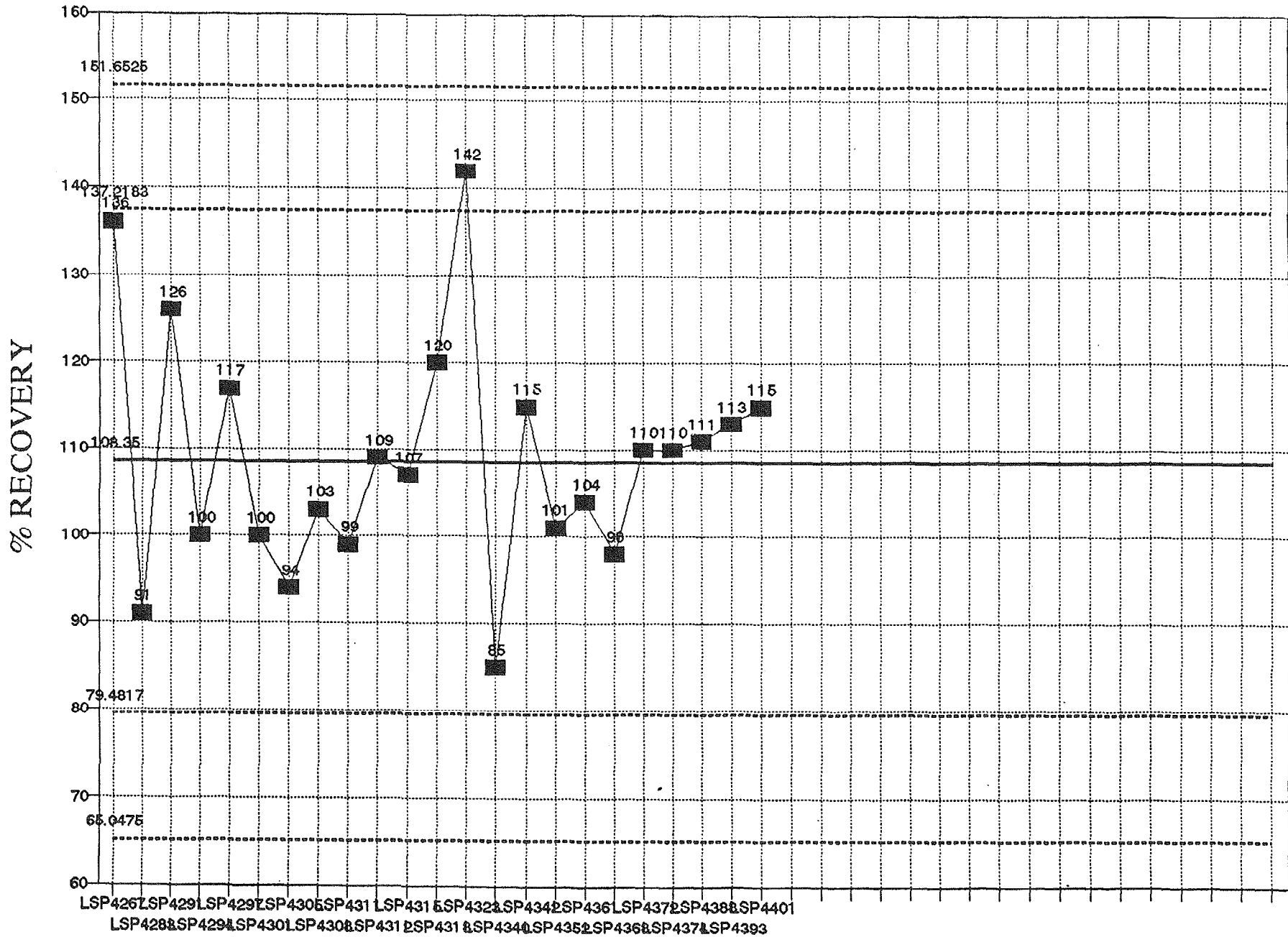
O&G GRAV-S LCS RECOVERIES



PHC LOW SOLIDS - DIESEL
 SPK REC LIMS SET6/6/95-PPCBCHT\PHCS1294



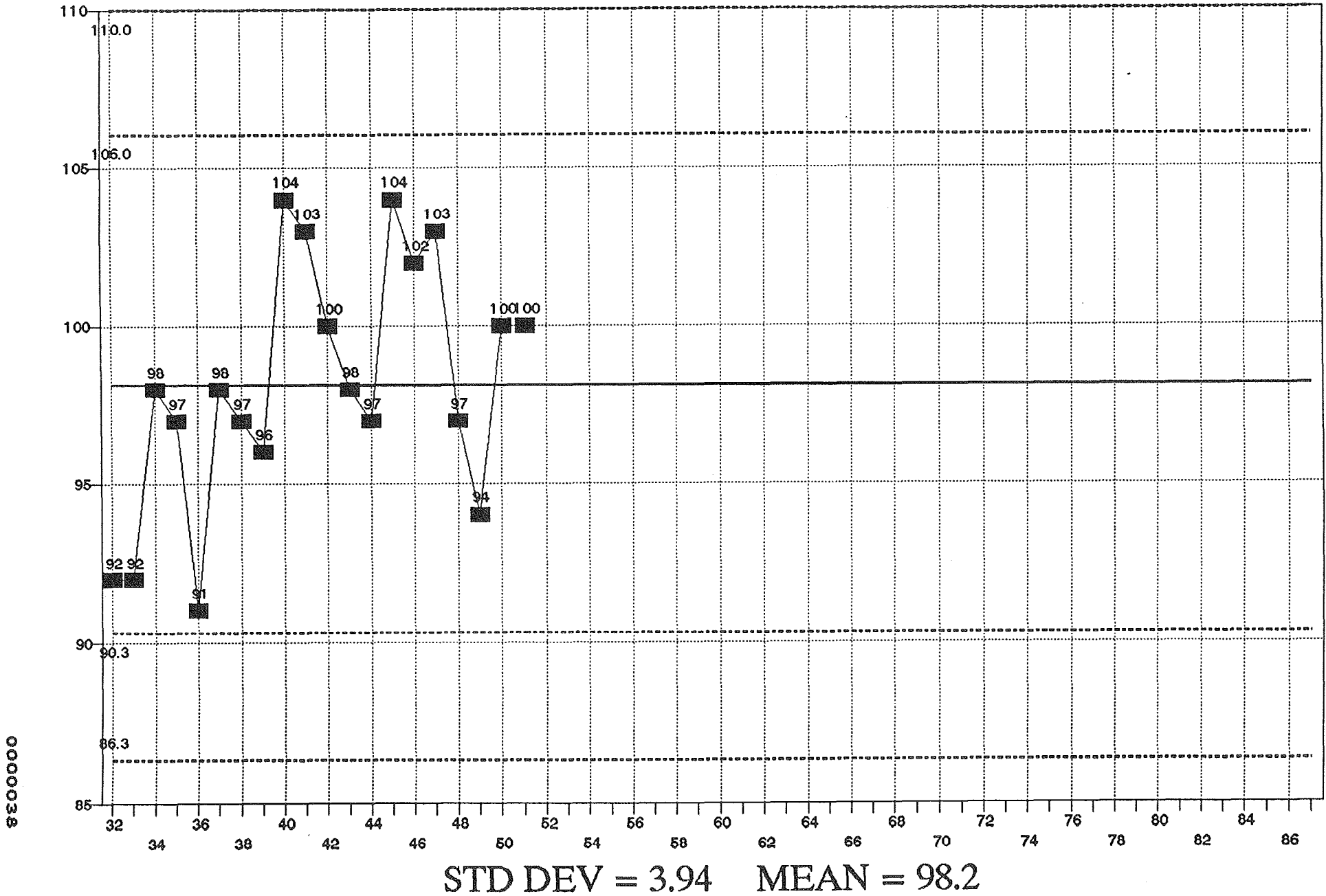
PCB MEDIUM SOLIDS AROCHLOR 1254
 SPK LIMITS SET 8/95-PPCBCHTAR1254S



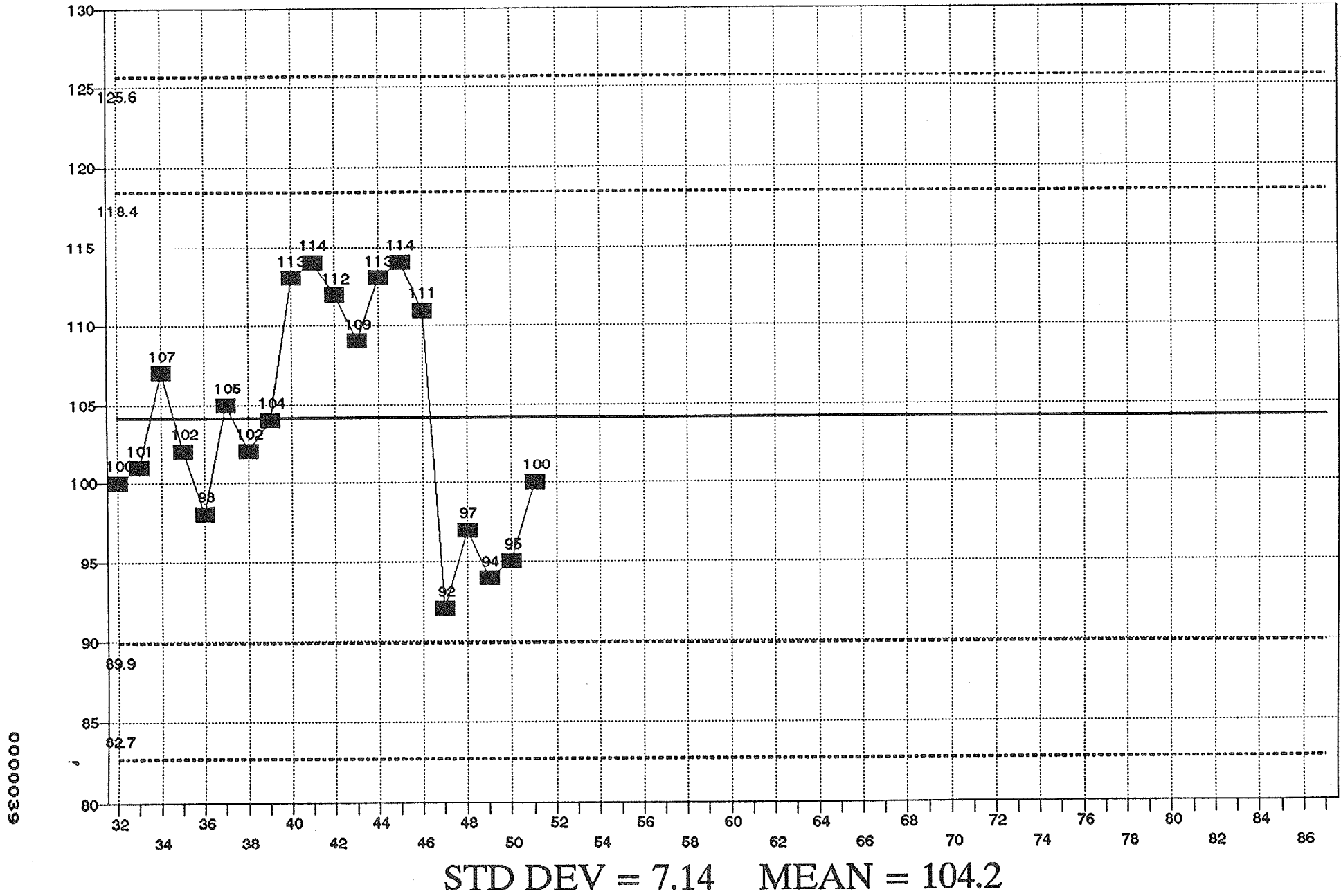
MEAN = 108.35 STD DEV = 14.43

0000037

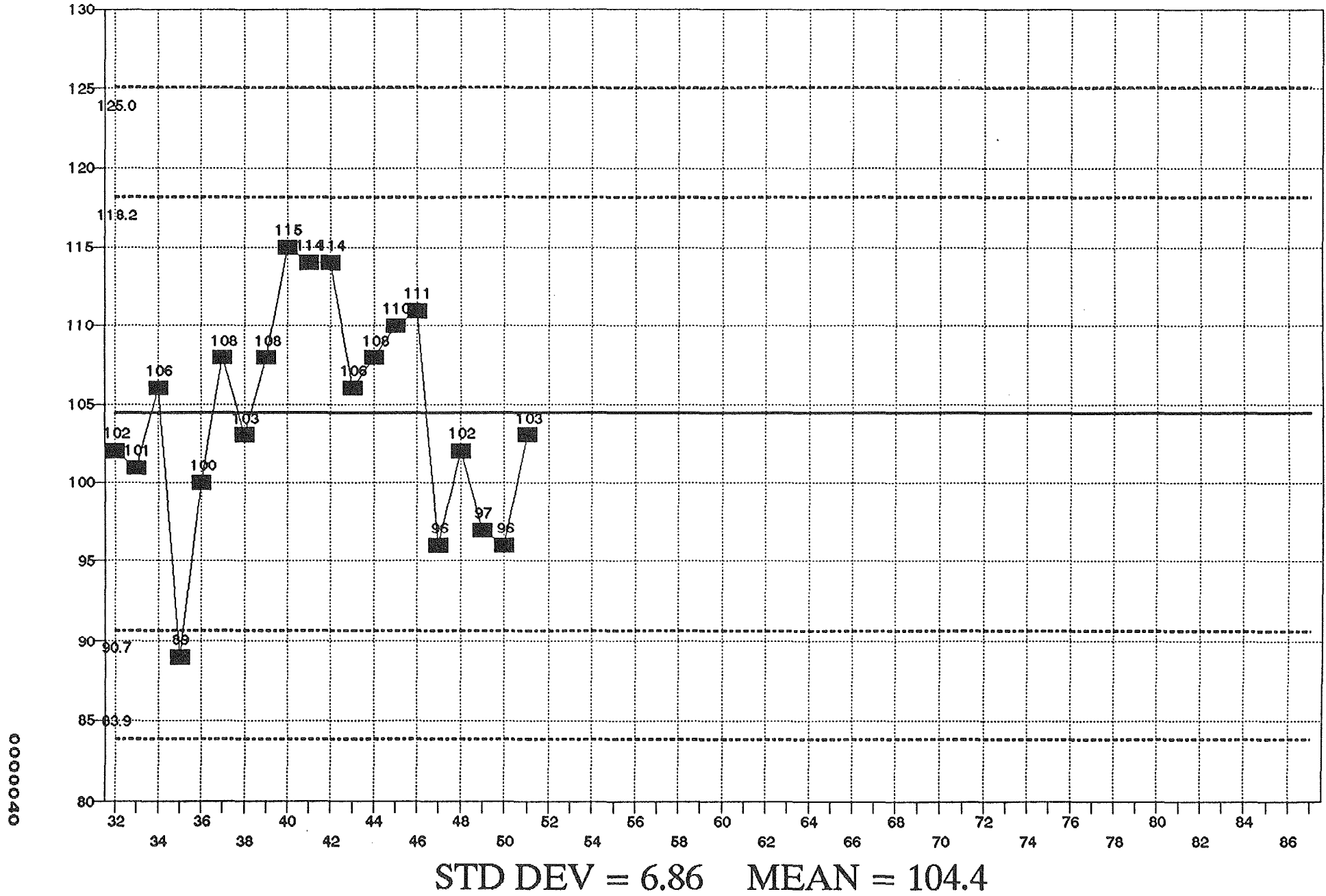
VOA MED SOLIDS - SURR DCE LIMIT SET 8/95



VOA MED SOLIDS - SURR TOL LIMIT SET 8/95



VOA MED SOLIDS - SURR BFB LIMIT SET 8/95

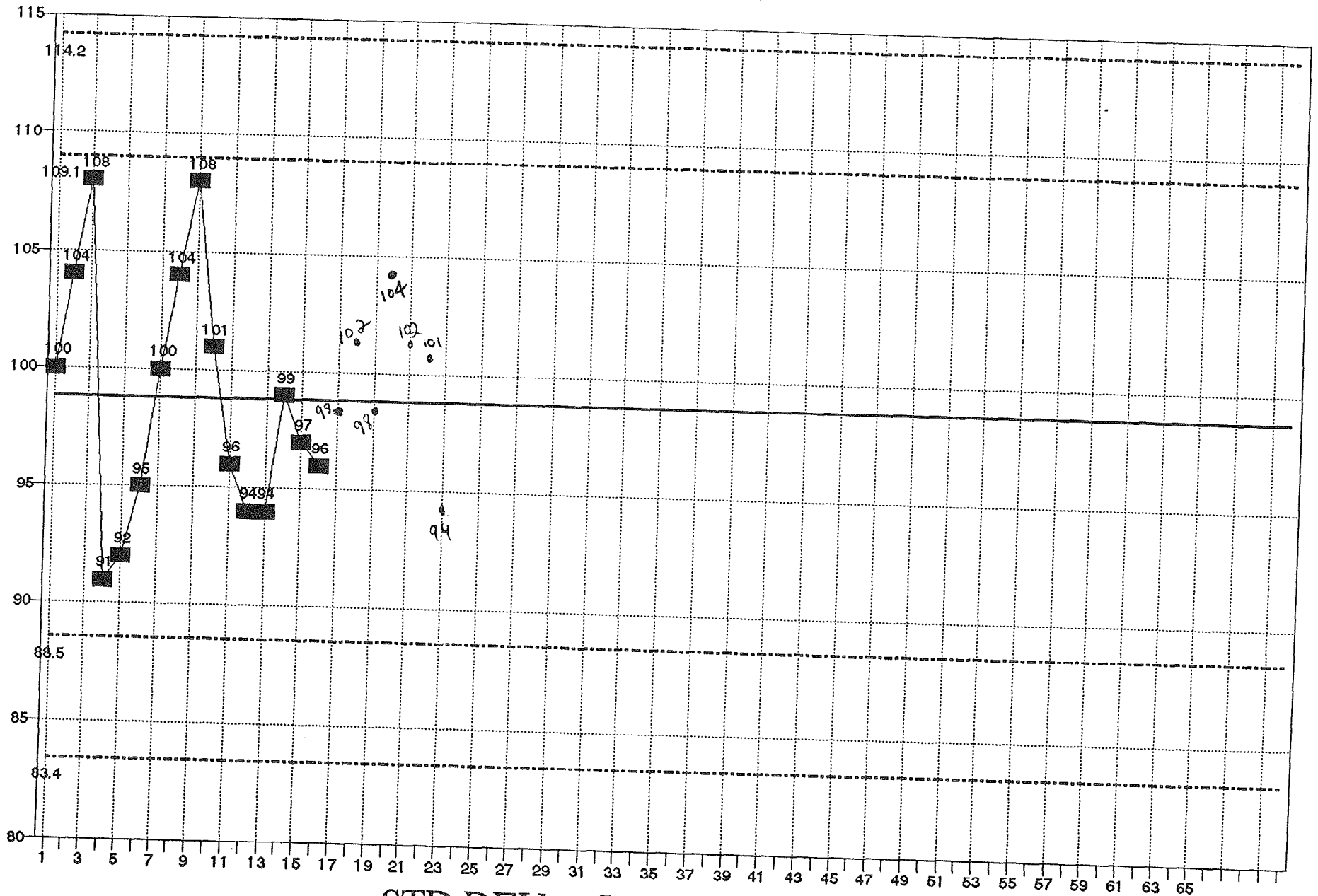


MED SOIL BLANK # LIST

POINT / BLANK

1 MB021693A
2 MB022193B
3 MB022993B
4 MB030193A
5 MB040293A
6 MB050493A
7 MB050493A
8 MB050593A
9 MB050693A
10 MB052793B
11 MB052593A
12 MB101293A
13 MB100993A
14 MB111793A
15 MB121393A
16 MB121393A
17 MB020694A
18 MB021094A
19 MB021594A
20 MB021594A
21 MB021594A
22 MB042994B
23 MB050494A
24 MB050494A
25 B-V1005A
26 B-V1021A
27 B-V1027B
28 B-V1027C
29 B-V1034C
30 B-V1039
31 B-V1044A
32 B-V1045A
33 B-V1044B
34 B-V1050
35 B-V1066 EMS
36 B-V1066 CMS
37 B-V1070 12/30/94
38 B-V1070 1/3/95
39 B-V1085
40 B-V1084
41 B-V1085
42 B-V1084
43 B-V1087
44 B-V1085
45 B-V1084
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48 B-V1117B
49 B-V1118A
50 B-V1118D
51 B-V1118B

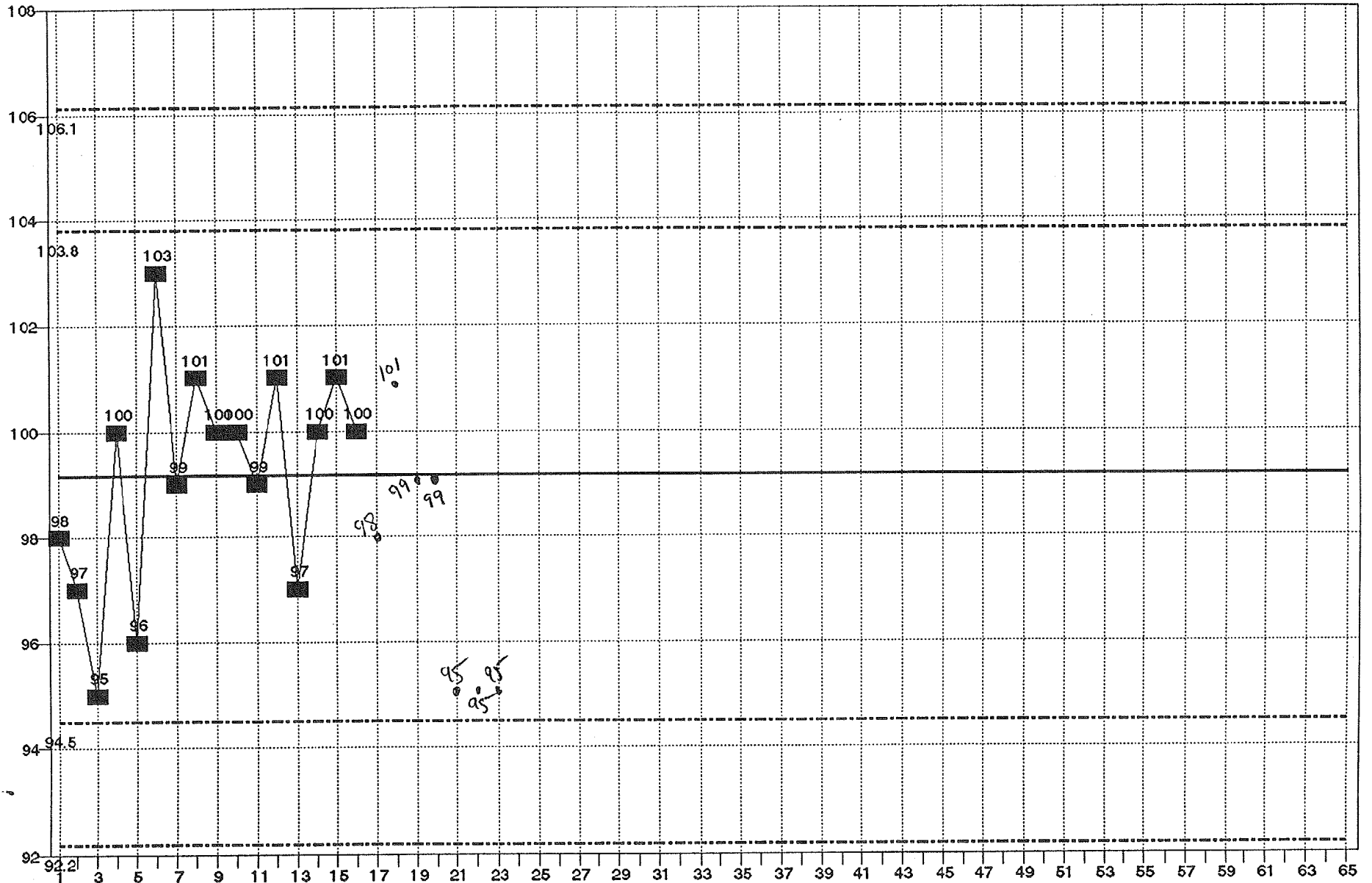
VOA TCLP - SURR DCE LIMIT SET 7/93



STD DEV = 5.13 MEAN = 98.8

0000042

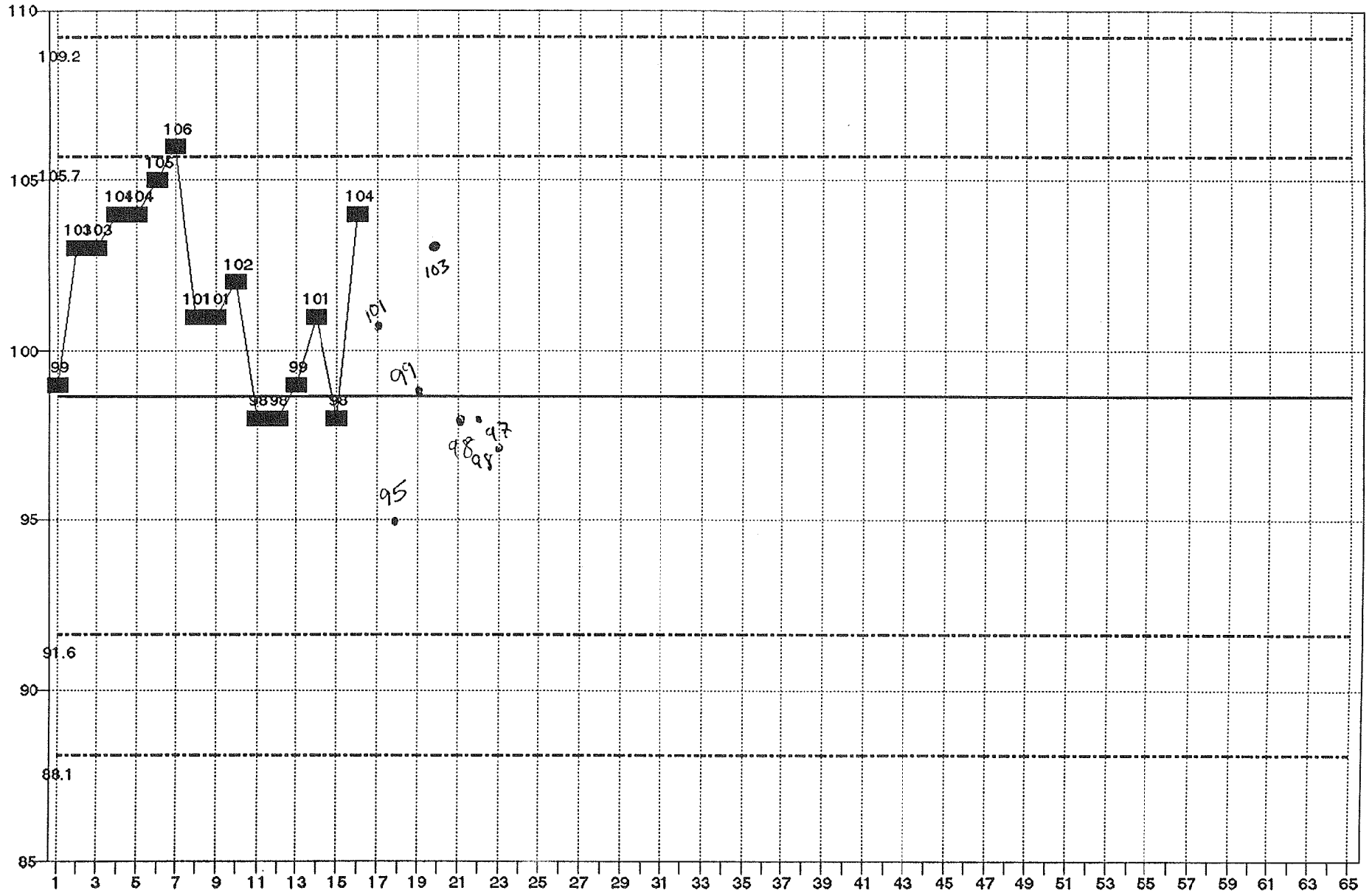
VOA TCLP - SURR TOL LIMIT SET 7/93



STD DEV = 2.32 MEAN = 99.1

0000043

VOA TCLP - SURR BFB LIMIT SET 7/93

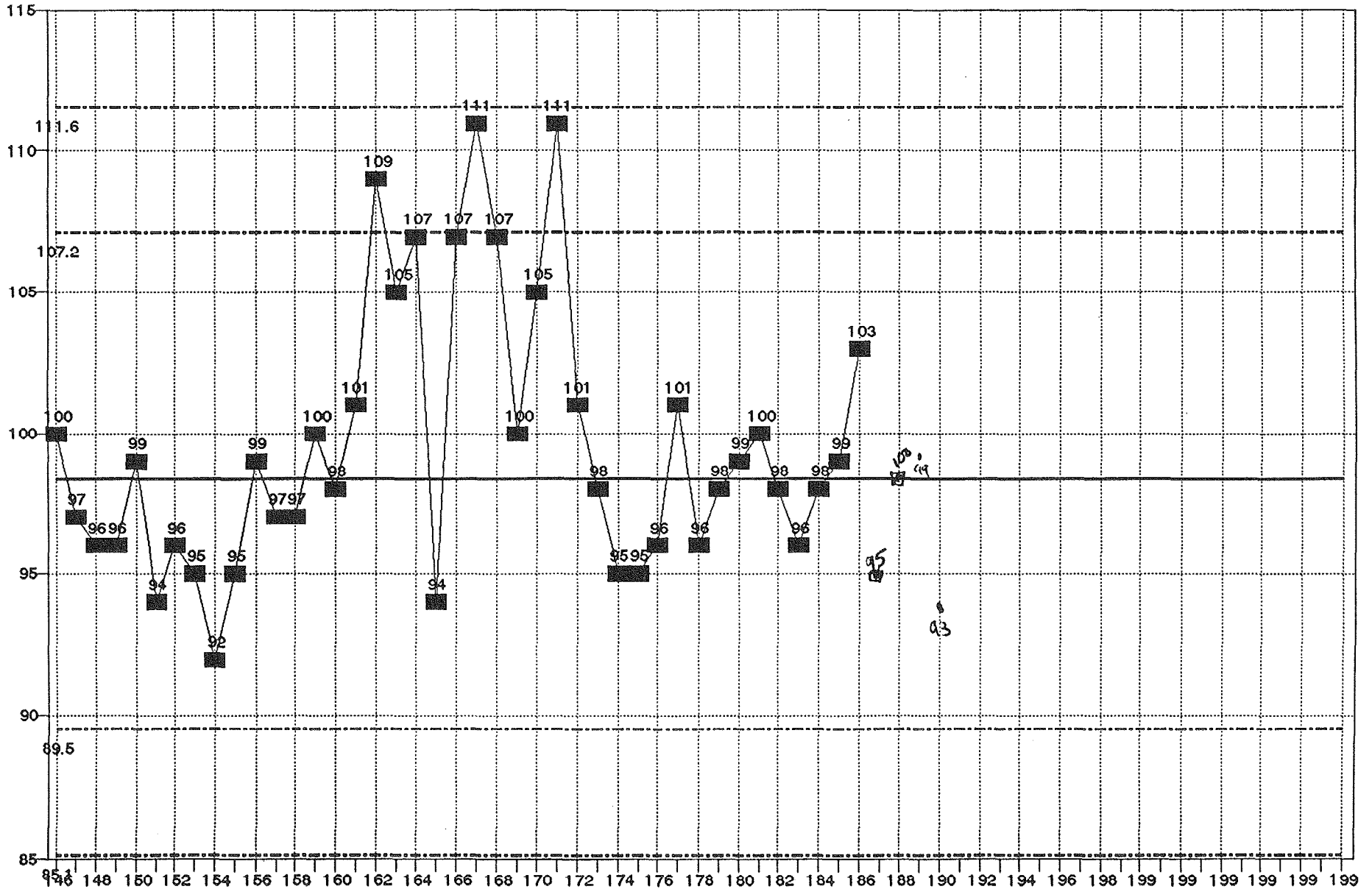


STD DEV = 3.51 MEAN = 98.6

0000044

1	TCLP	BLANK	340	03/16/94
2	TCLP	BLANK	340	03/17/94
3	TCLP	BLANK	341	03/17/94
4	TCLP	BLANK	341	03/18/94
5	TCLP	BLANK	342	03/18/94
6	TCLP	BLANK	341	03/22/94
7	TCLP	BLANK	343	03/25/94
8	TCLP	BLANK	343	03/28/94
9	TCLP	BLANK	344	03/28/94
10	TCLP	BLANK	345	03/28/94
11	TCLP	BLANK	346	04/07/94
12	TCLP	BLANK	347	04/19/94
13	TCLP	BLANK	349	05/11/94
14	TCLP	BLANK	350	05/16/94
15	TCLP	BLANK	352	05/17/94
16	TCLP	BLANK	354	06/06/94
17	TCLP	BLANK	357	7/12/94
18	TCLP	BLANK	358	7/15/94
19	TCLP	BLANK	360	7/27/94
20	TCLP	BLANK	369	11/10/94
21	TCLP	BLANK	386	
22	TCLP	BLANK	388	
23	TCLP	BLANK	389	

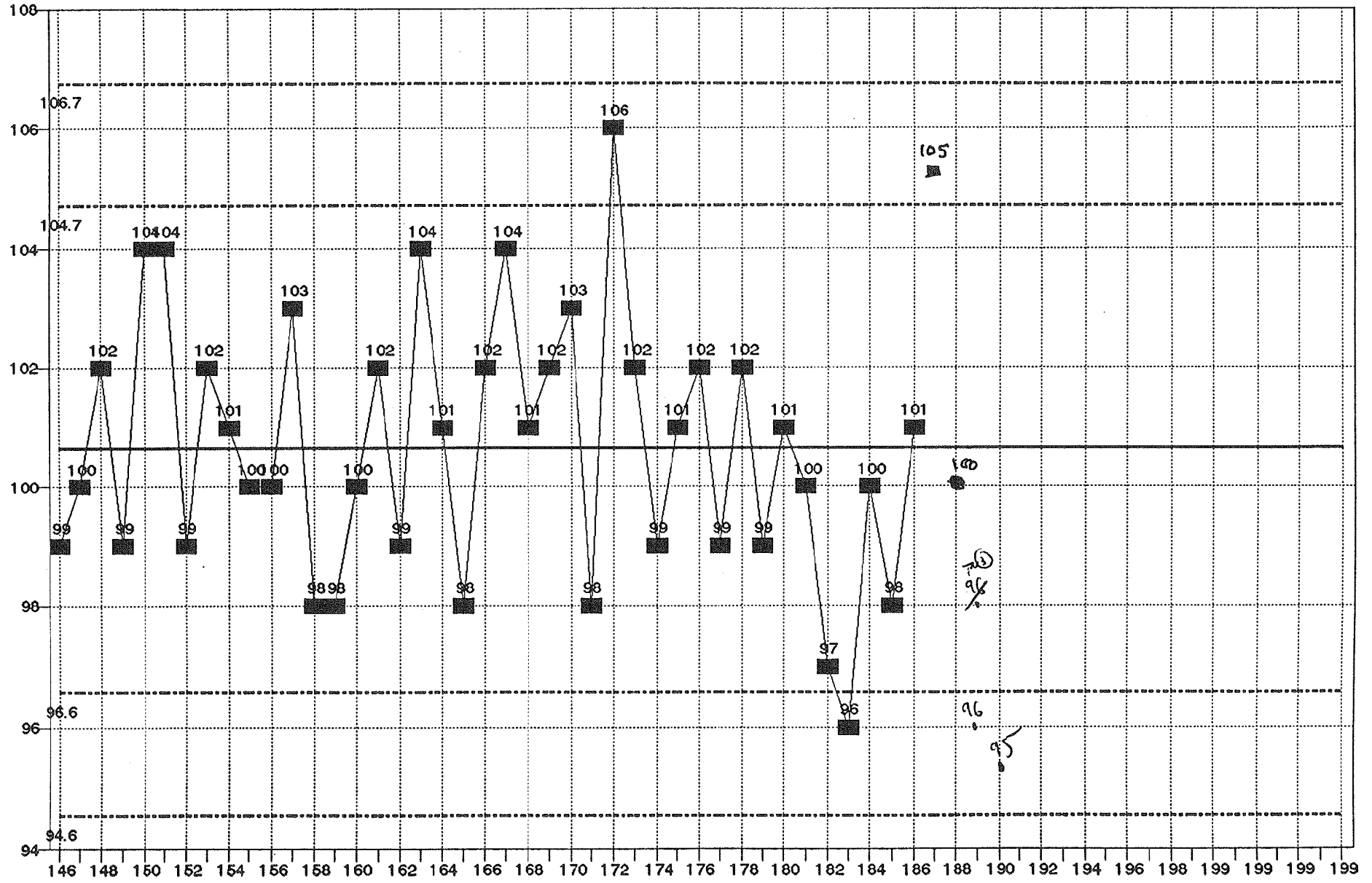
VOA WATERS - SURR DCE LIMITS SET 4/95



0000046

STD DEV = 4.40 MEAN = 98.4

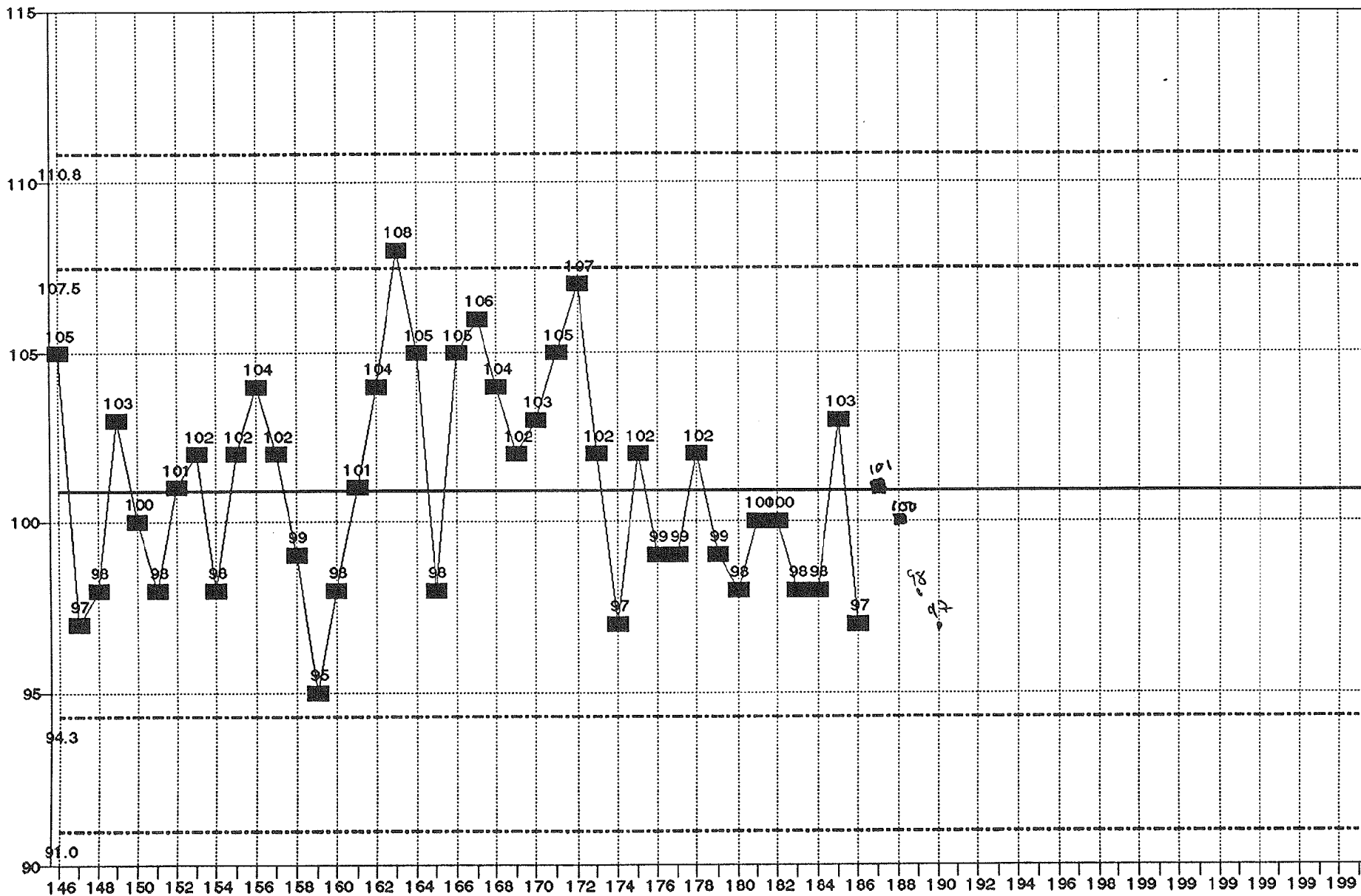
VOA WATERS - SURR TOL LIMIT SET 4/95



STD DEV = 2.03 MEAN = 100.6

00000047

VOA WATERS - SURR BFB LIMIT SET 4/95



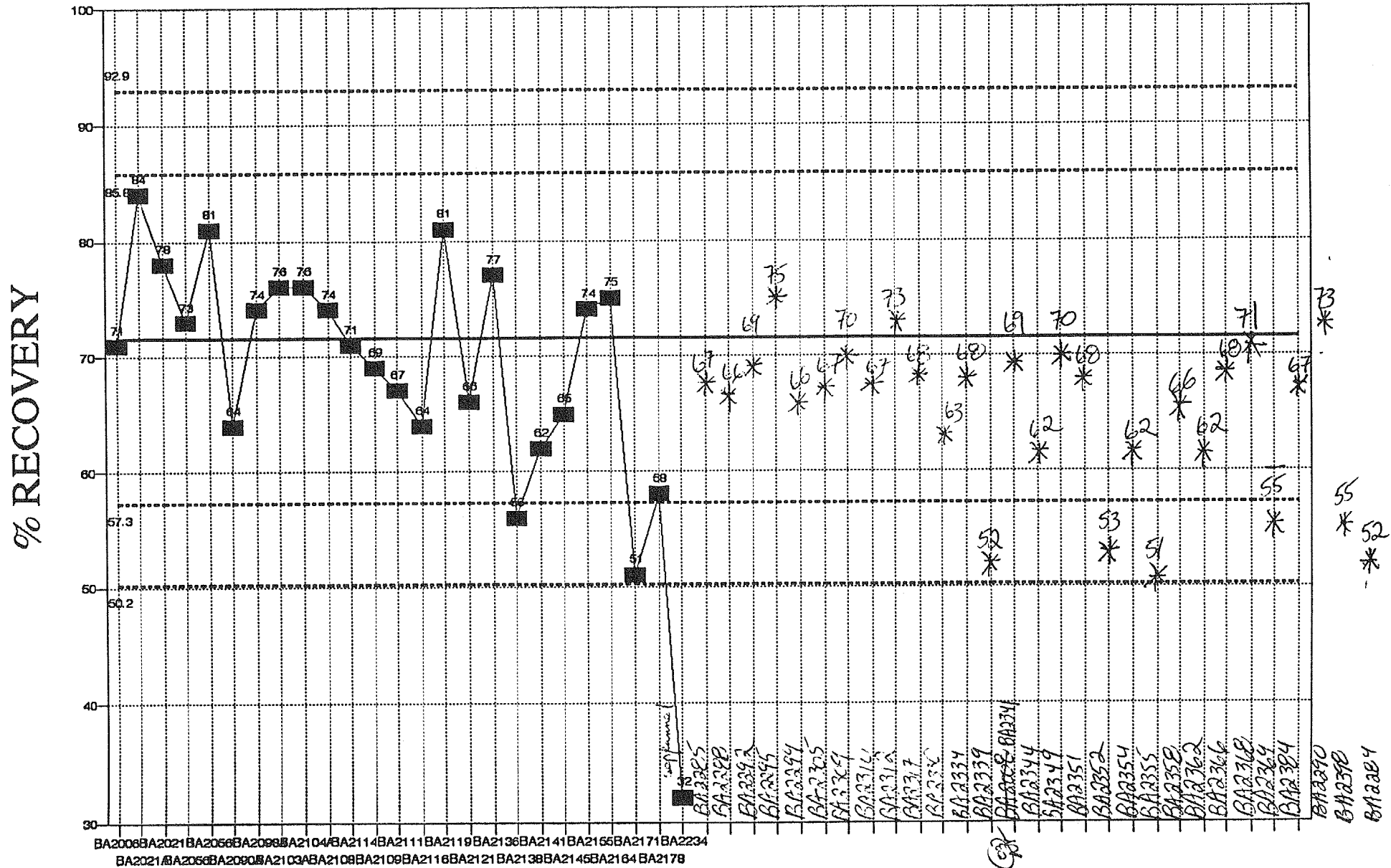
STD DEV = 3.31 MEAN = 100.9

0000048

VOLATILES -- WATER SURROGATE CONTROL CHARTS
POINT / BLANK

21	BE081892A	69	BC041493A	117	BE070794A	165	BC041295A
22	BC082192A	70	BE052593B	118	BE070894A	166	BI042095B
23	BE082092A	71	BE060193A	119	BC063094A	167	BI042195A
24	BC082592A	72	BE060393A	120	BC072794A	168	BI042495A
25	BC082692A	73	BC062193A	121	BD072794A	169	BC042595B
26	BE082792A	74	BE051393A	122	BD072894A	170	BI042595A
27	BE082892B	75	BC062493A	123	BD072994A	171	BI042795A
28	BE083092A	76	BD051993A	124	BE081194A	172	BI050195A
29	BD101492A	77	BD052093B	125	BC081994A	173	BC050595A
30	BC100992A	78	BC063093A	126	BE101194A	174	BC050695A
31	BC110692A	79	BC061093A	127	BE101294B	175	BG050295B
32	BC111992A	80	BE051393A	128	BG101494A	176	BC062995B
33	BE112092A	81	BD072293A	129	BC110294B	177	BC063095B
34	BC112392A	82	BD072393A	130	BC110394B	178	BC072495A
35	BG113092B	83	BD072693A	131	BC110794B	179	BC072695A
36	BG120192A	84	BD072793A	132	BC110894B	180	BI080895A
37	BC122292A	85	BD073093A	133	BC110994A	181	BI080995A
38	BG013093B	86	BC080493A	134	BC111594B	182	BC080295A
39	BC012193A	87	BC080593A	135	BC111794B	183	BC080495A
40	BD021693A	88	BE091793A	136	BC111894B	184	BC080795A
41	BD021793A	89	BC092093B	137	BG111094A	185	BC080895A
42	BD021893A	90	BC093093B	138	BC120194B	186	BI081095A
43	BD021993A	91	BG093093A	139	BC120294B	187	BI081195A
44	BD022293A	92	BE120693A	140	BC120594B	188	BI080995A
45	BD022393A	93	BE120793A	141	BC120694B	189	BC081195A
46	BD022493A	94	BE121793A	142	BC120794B	190	BC081495A
47	BG030293A	95	BC122793B	143	BC121594B	191	
48	BC030193B	96	BC122893A	144	BG120394B	192	
49	BG030393A	97	BG021094A	145	BC122294B	193	
50	BG030493A	98	BG021194A	146	BC122994B	194	
51	BG031593A	99	BG021494A	147	BE121694A	195	
52	BG031693A	100	BG021594A	148	BE020995B	196	
53	BD031893A	101	BC022394B	149	BE021395A	197	
54	BD031993A	102	BC022494C	150	BE021595A	198	
55	BC032293B	103	BC022594B	151	BE021695A	199	
56	BC032393A	104	BG022594B	152	BC032295A	200	
57	BC041293A	105	BG022894A	153	BC032395A	201	
58	BC041393A	106	BG030394A	154	BC032495A	202	
59	BC041993A	107	BD022194A	155	BC032795A	203	
60	BE042893A	108	BC031194A	156	BC040695A	204	
61	BE042993A	109	BC031594B	157	BC041195B	205	
62	BE043093A	110	BG040794A	158	BC041395A	206	
63	BE050393A	111	BC041294B	159	BC041495A	207	
64	BE050493A	112	BG042894A	160	BG041095B	208	
65	BE050593A	113	BG042994A	161	BG041495B	209	
66	BE050693A	114	BC050994C	162	BI041395A	210	
67	BE051093A	115	BG060394A	163	BI041895B	211	
68	BE051193A	116	BC050394B	164	BI041995A	212	

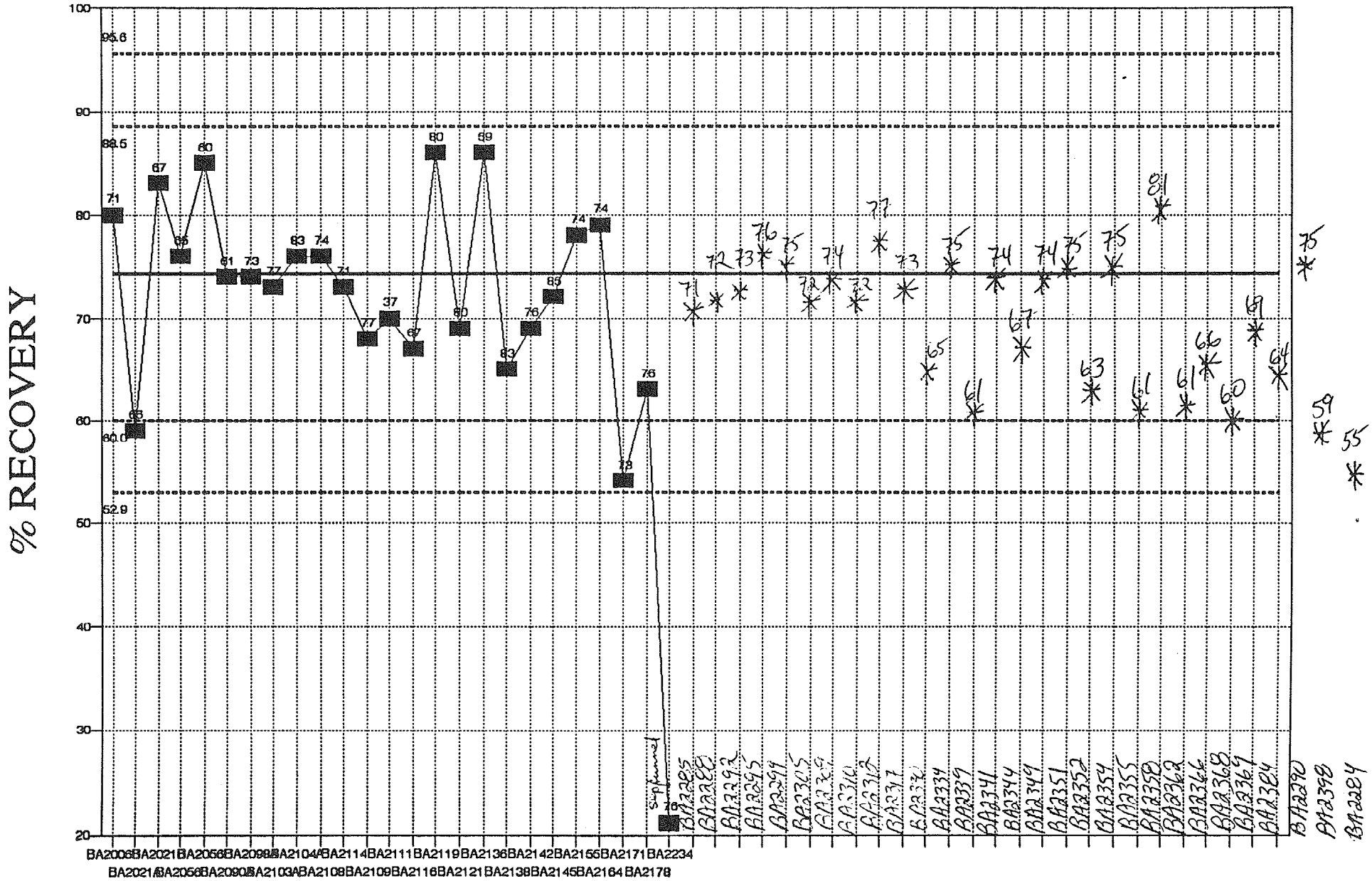
ABN WATER 3520/8270, 2-FLUOROPHENOL SURR, LIMITS SET 2/95



STD DEV = 7.12 MEAN = 71.6

0500000

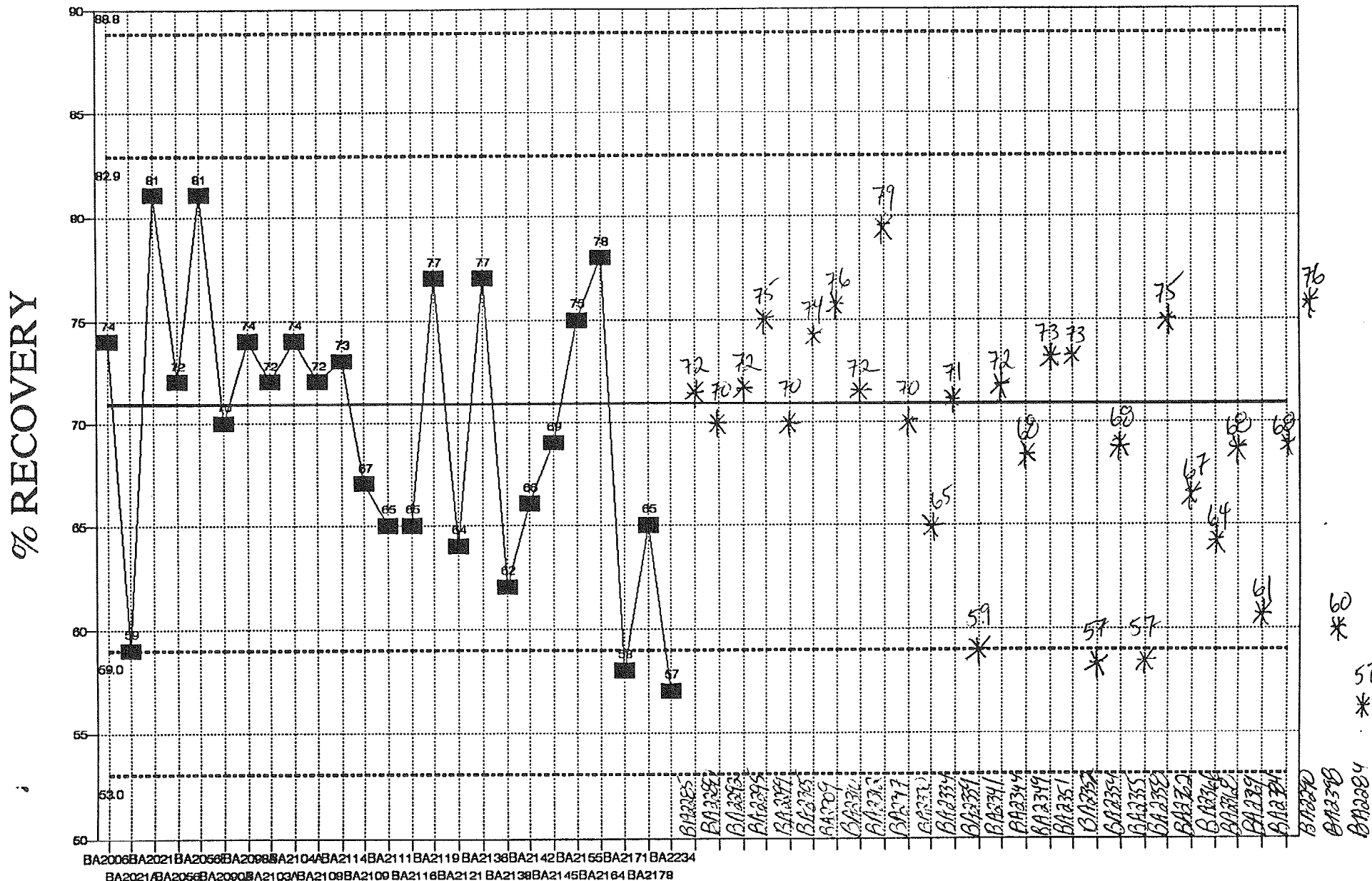
ABN WATER 3520/8270, PHENOL-D5 SURR, LIMITS SET 2/95



1500000

STD DEV = 7.13 MEAN = 74.2

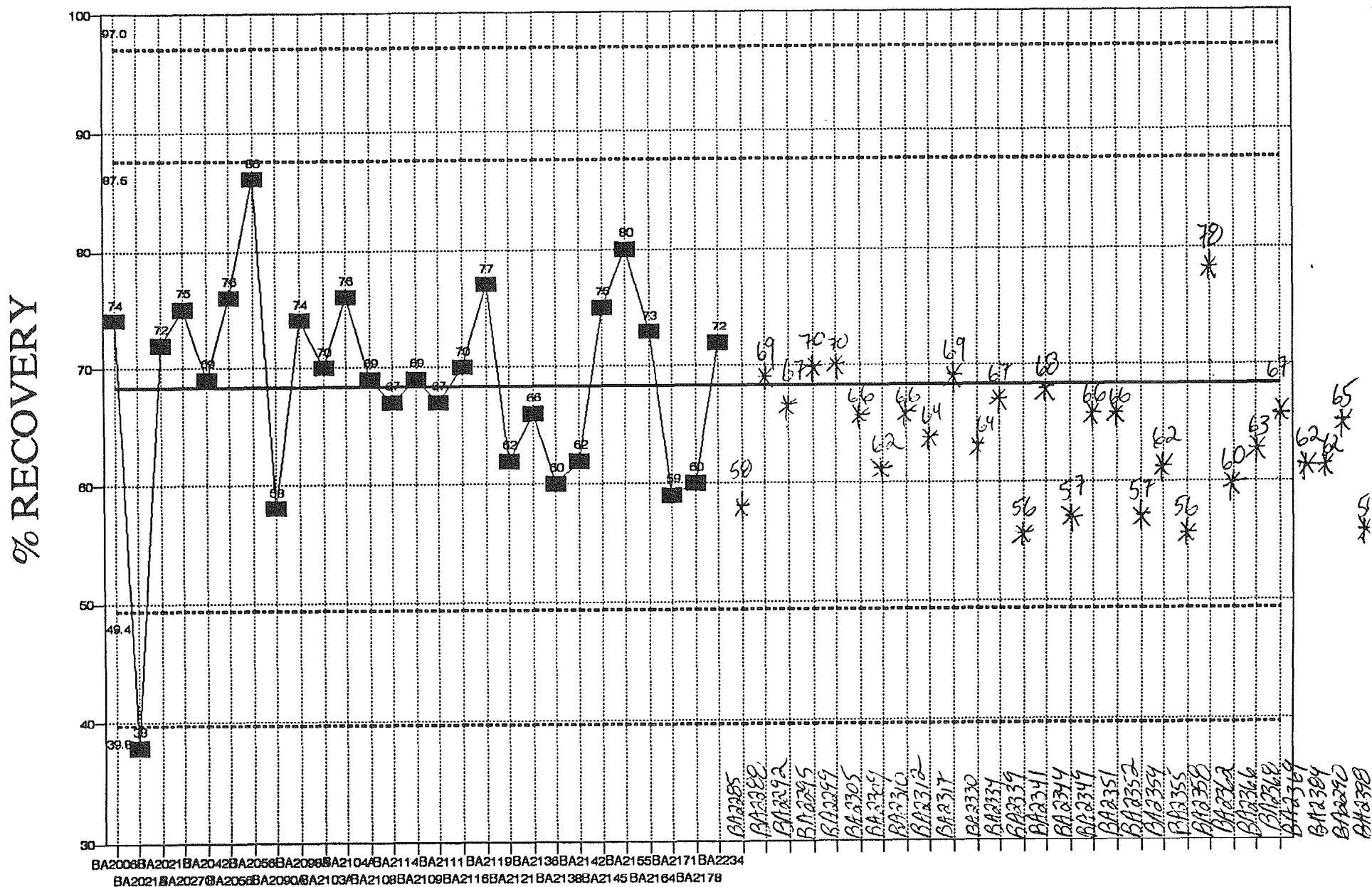
ABN WATER 3520/8270, 2-CHLOROPHENOL-D4 SURR, LIMITS SET 2/95



0000052

STD DEV = 5.97 MEAN = 70.9

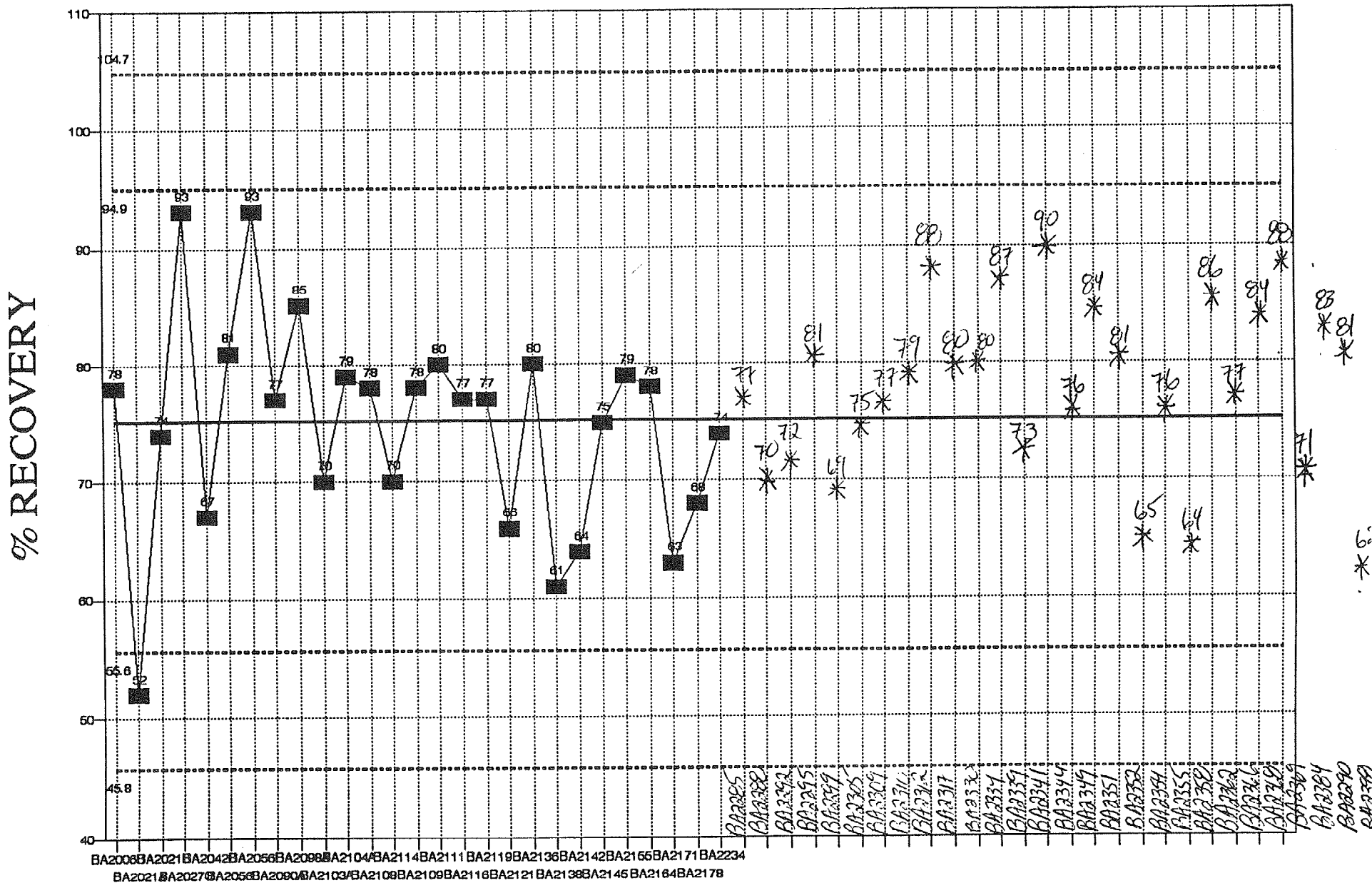
ABN H2O 3520/8270, 1,2-DICHLOROBENZENE-SURR, LIMITS SET 2/95



STD DEV = 9.54 MEAN = 68.4

ES000000

ABN H2O 3520/8270, NITROBENZENE-D5 SURR, LIMITS SET 2/95

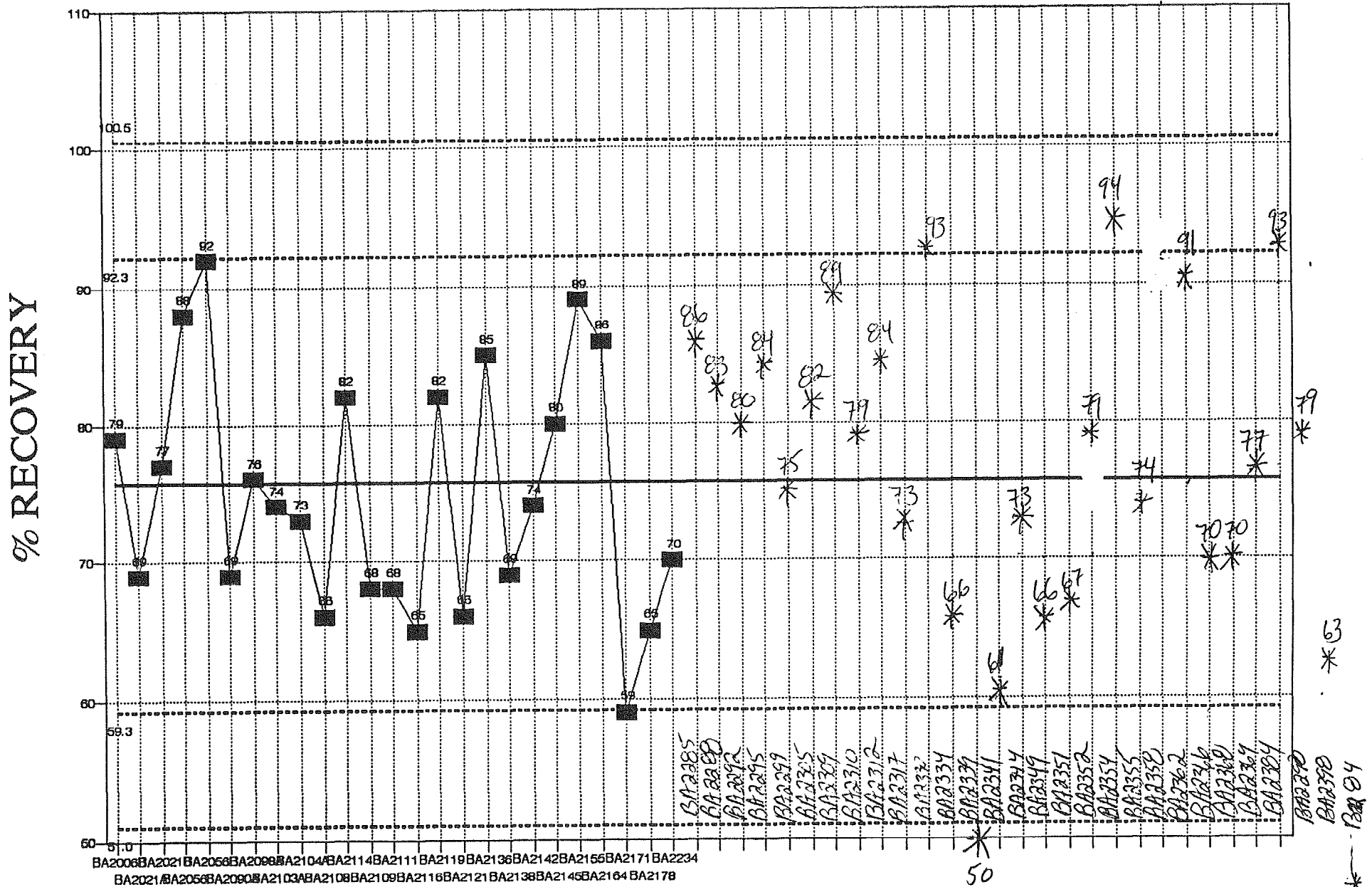


STD DEV = 9.82 MEAN = 75.2

0000054

ABN H2O 3520/8270, 2,4,6-TRIBROMOPHENOL SURR, LIMITS SET 2/95

120
*

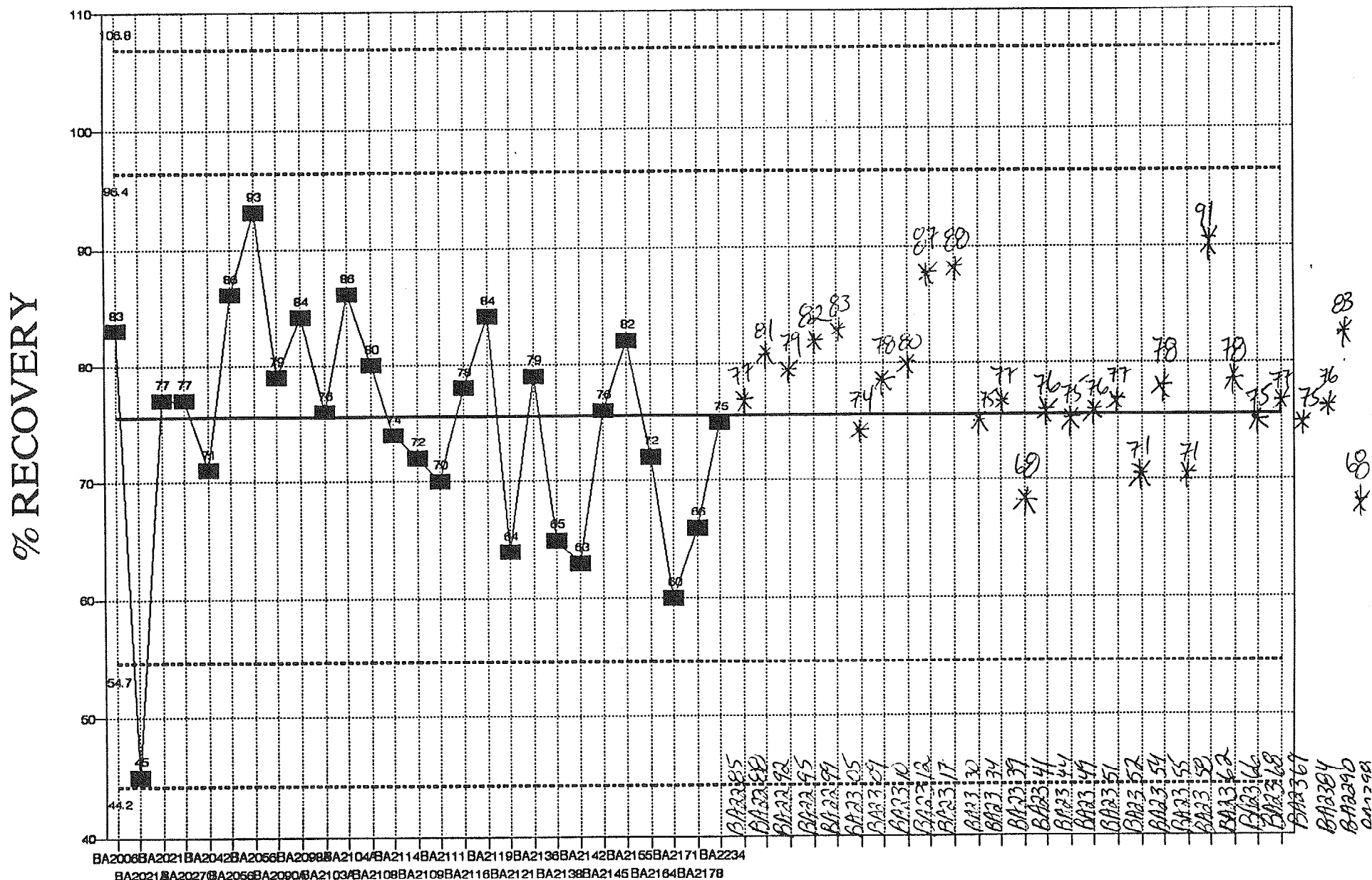


STD DEV = 8.24 MEAN = 75.8

50

*
46

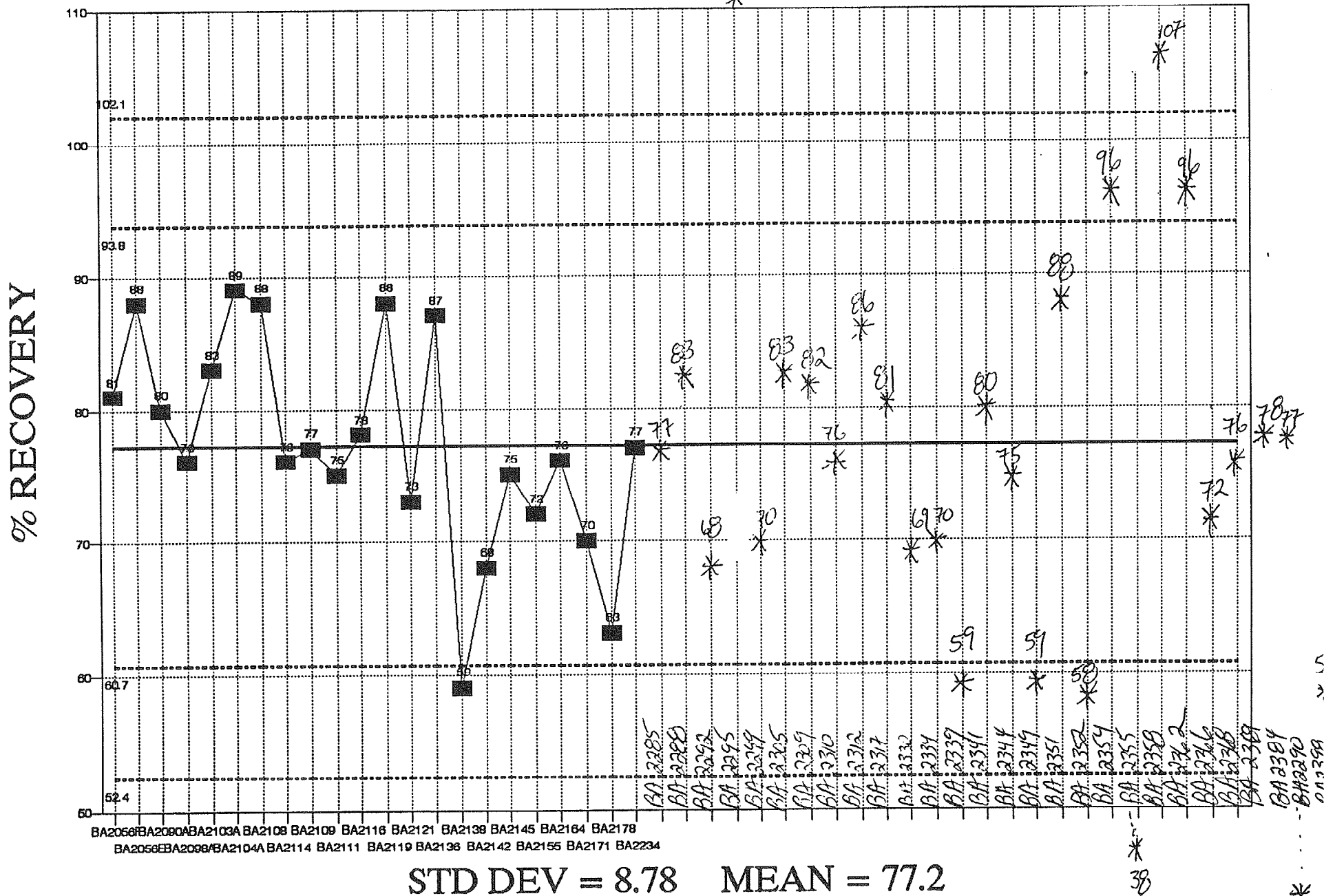
ABN H2O 3520/8270, 2-FLUOROBIPHENYL SURR, LIMITS SET 2/95



9500000

STD DEV = 10.4 MEAN = 75.5

ABN H2O 3520/8270, TERPHENYL-D14 SURR, LIMITS SET 2/95



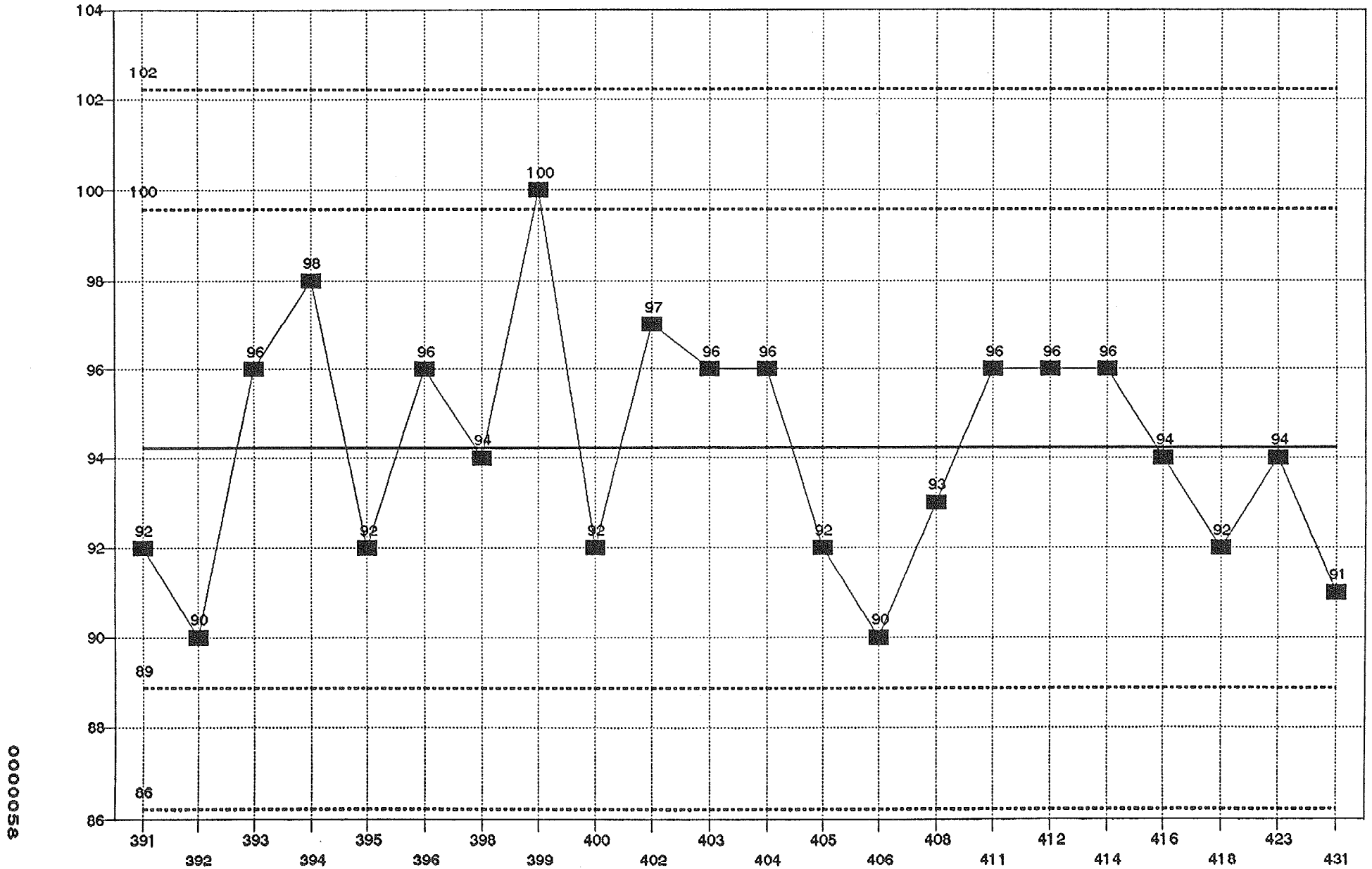
7500000

BA2066 BA2080 BA2103 BA2108 BA2109 BA2111 BA2116 BA2119 BA2121 BA2138 BA2145 BA2164 BA2178
BA2056 BA2098 BA2104 BA2114 BA2119 BA2119 BA2119 BA2138 BA2142 BA2155 BA2171 BA2234

38

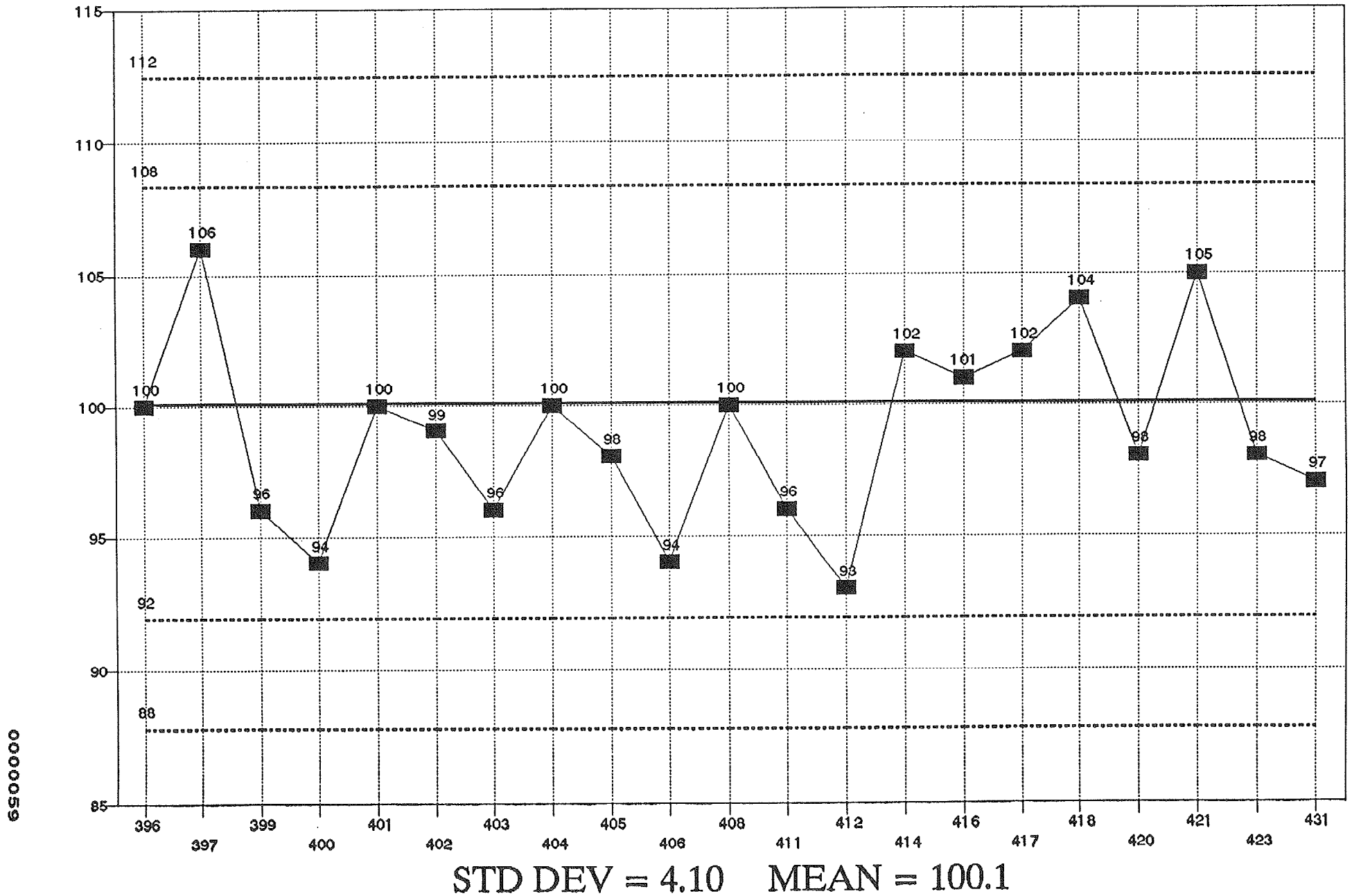
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AS TRACECOMMERCIAL LCS WATER RECOVERIES LIMITS SET 8/95

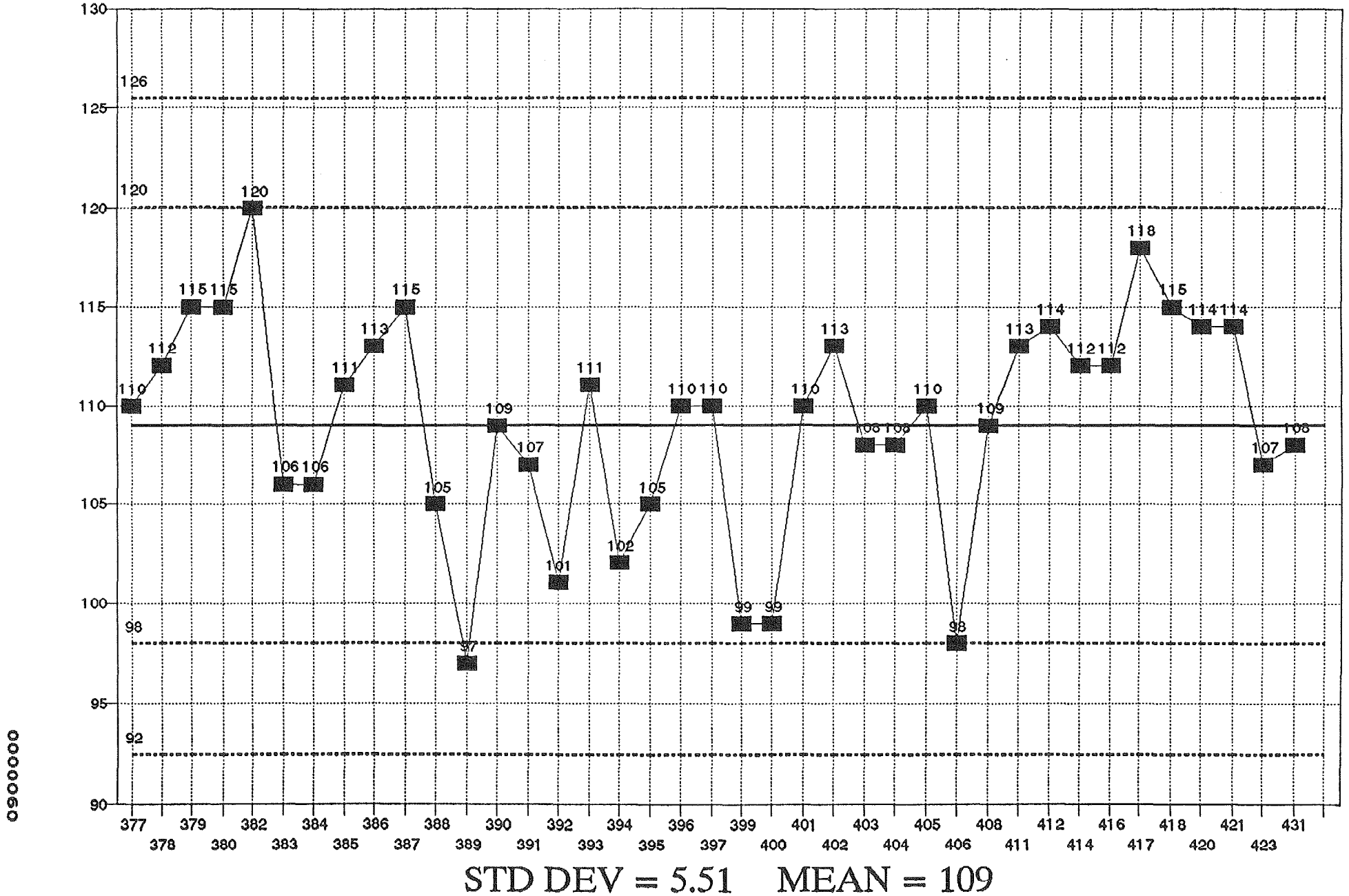


STD DEV = 2.67 MEAN = 94.2

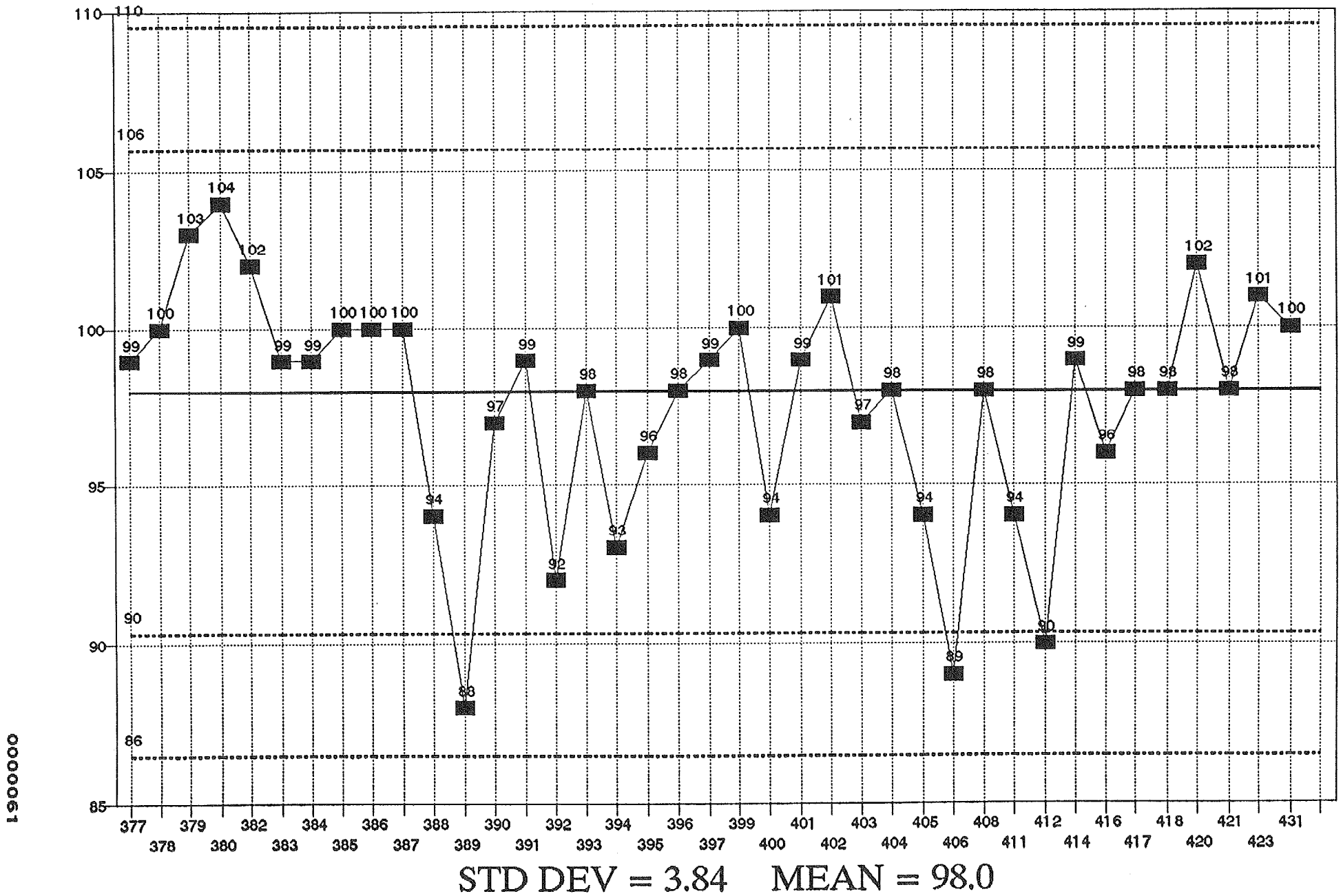
Ba COMMERCIAL LCS WATER RECOVERIES LIMITS SET 7/95



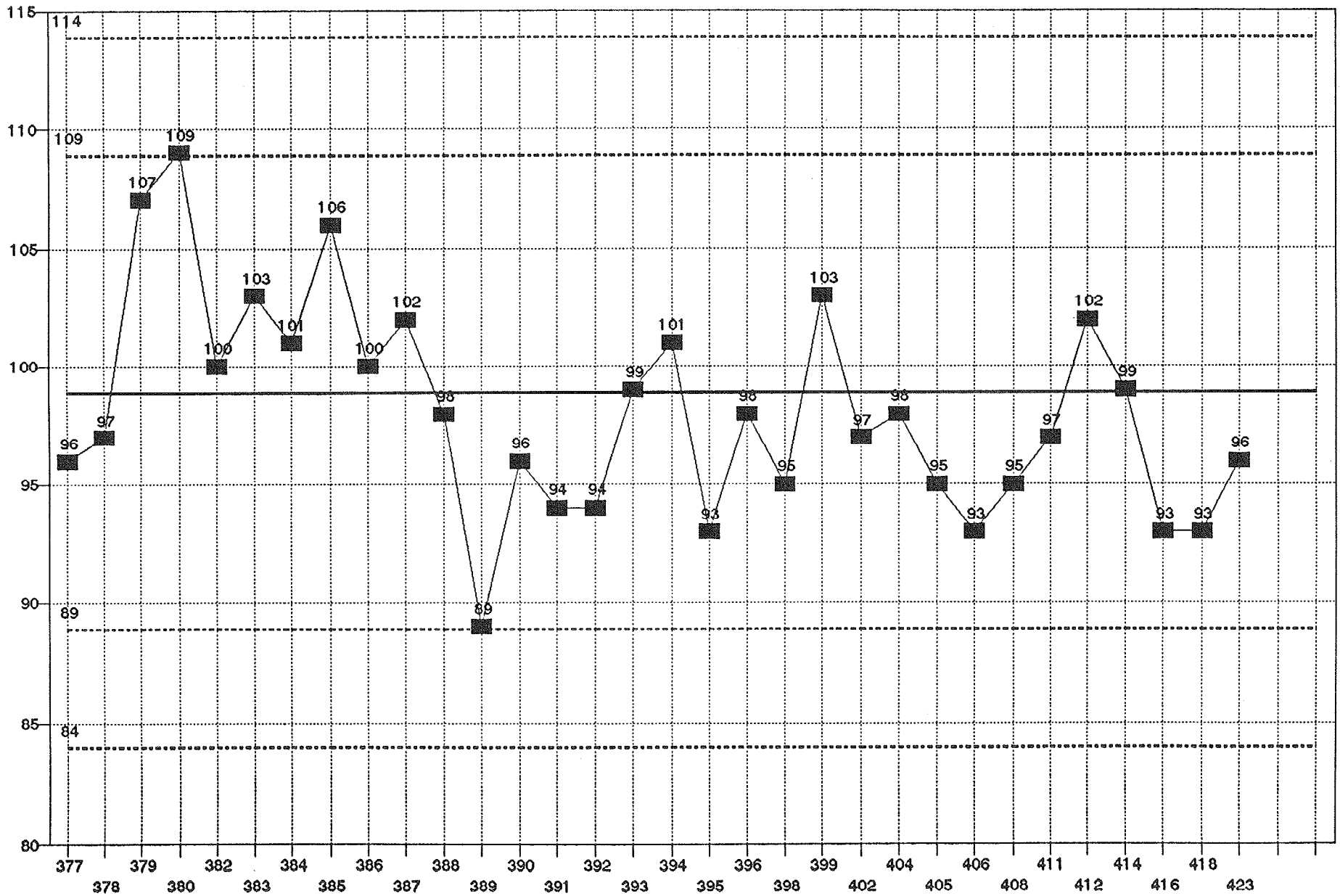
Cd COMMERCIAL LCS WATER RECOVERIES LIMITS SET 7/95



Cr COMMERCIAL LCS WATER RECOVERIES LIMITS SET 7/95



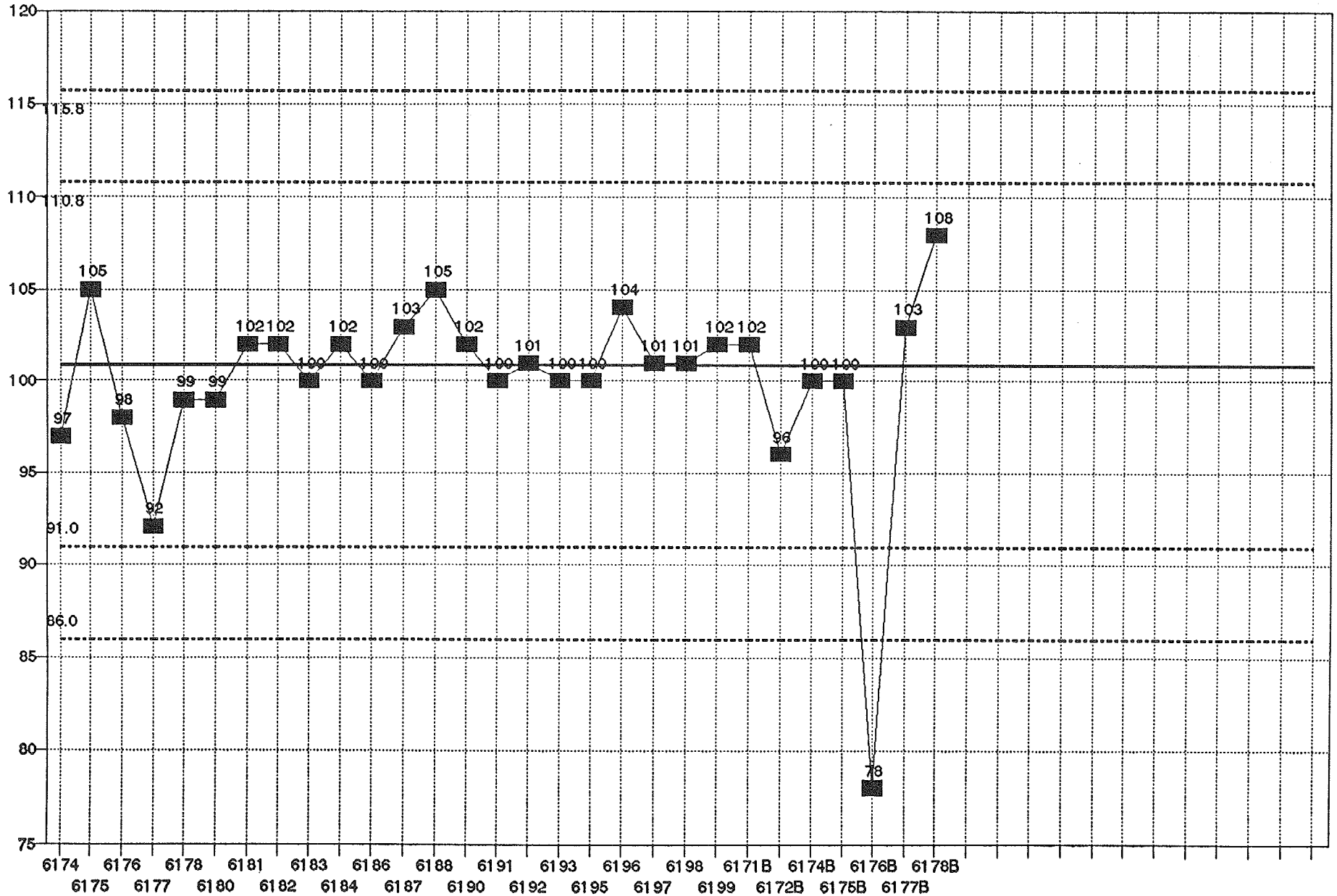
Pb TRACECOMMERCIAL LCS WATER RECOVERIES LIMITS SET 7/95



STD DEV = 4.99 MEAN = 98.9

0000062

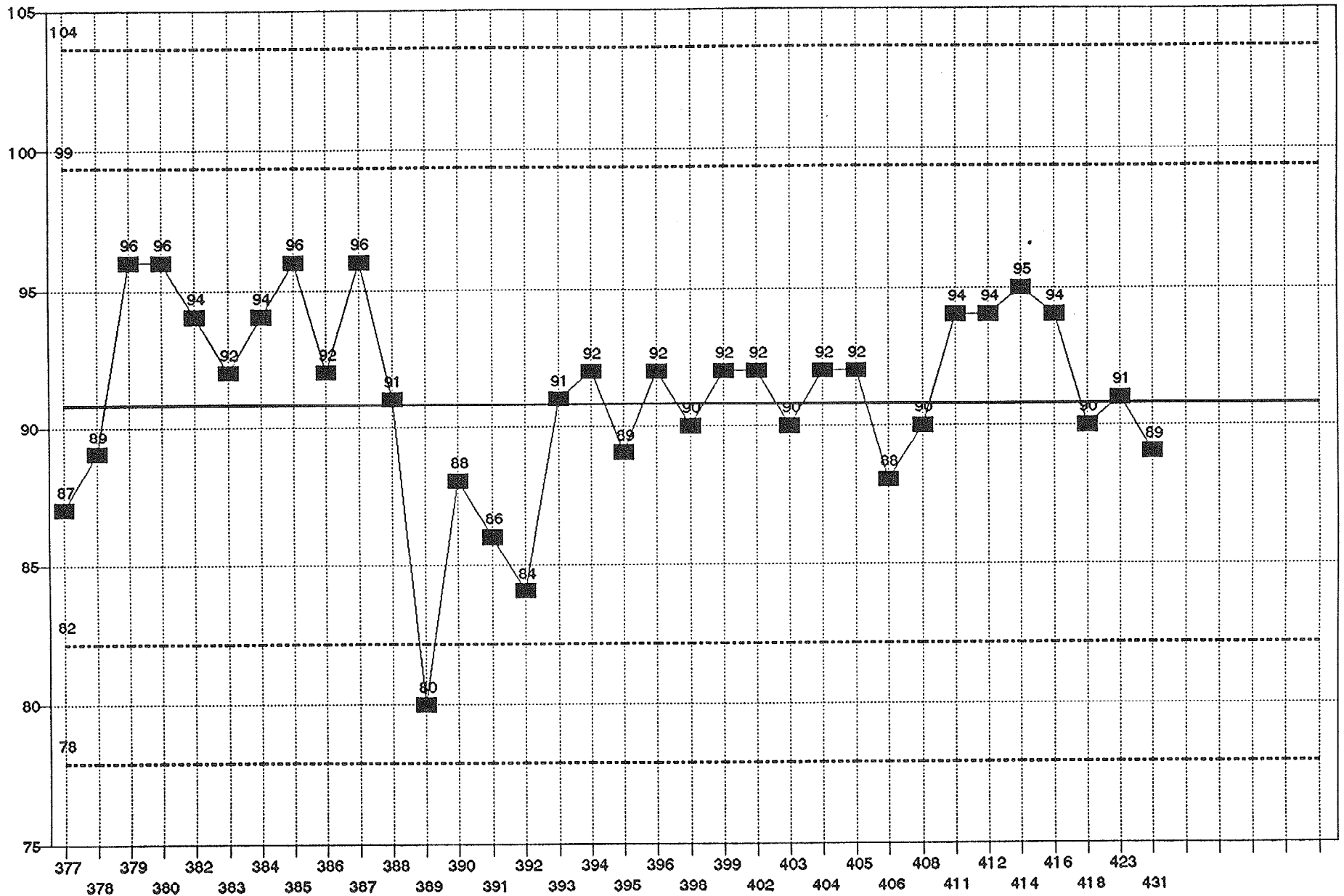
MERCURY CV LCS WATER RECOVERIES LIMITS SET 2/94



STD DEV = 4.96 MEAN = 100.9

0000063

Se TRACECOMMERCIAL LCS WATER RECOVERIES LIMITS SET 7/95



STD DEV = 4.29 MEAN = 90.8

0000064



OHM Corporation

CHAIN-OF-CUSTODY RECORD

LAB COPY

Form 001
Field Technical Service
Rev. 08/1

144100

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME <i>Camp Lejeune D.O. 44</i>		PROJECT LOCATION <i>Camp Geiger, NC</i>	
PROJ. NO. <i>16487</i>	PROJECT CONTACT <i>Rakesh Mishra</i>	PROJECT TELEPHONE NO. <i>910-451-2599</i>	
CLIENT'S REPRESENTATIVE		PROJECT MANAGER/SUPERVISOR <i>Jim Dunn / Randy Smith</i>	

NUMBER OF CONTAINERS

ANALYSIS DESIRED
(INDICATE SEPARATE CONTAINERS)

TPH-GRO
TPH-DRO
TCUP Metals
TCUP Volatile
RCRA Haz Waste
O&G
PCB, Total Lead
Volatile + BTEX

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	TPH-GRO	TPH-DRO	TCUP Metals	TCUP Volatile	RCRA Haz Waste	O&G	PCB, Total Lead	Volatile + BTEX	REMARKS	
1	CLJ44-CU-016	8/7	1040	X		Composite of Clean Soil from Pile 4 of Area C.	4	X	X	X	X	X					
2	CLJ44-CU-017	8/7	1050	X		Composite of Clean Soil from Pile 4 Pile 7 of Area C.	4	X	X	X	X	X					
3	CLJ44-CU-018 -RB	8/7	1102			Rinsate Blank of Clean Soil of Pile 4 & 7 of Area C.	5	X	X	X	X	X					
4	CLJ44-CU-019 -TB	8/7				Trip Blank	3	X		X				X			
5	CLJ44-CC-020	8/7	1115	X		Composite of Contaminated Soil from Pile 13 of Area C.	4	1-X	X-5				X-5				44913
6	CLJ44-CC-021	8/7	1121	X		Composite of Contaminated Soil from Pile 14 of Area C.	4	2-X	X-6				X-6				
7	CLJ44-CC-022	8/7	1132	X		Composite of Contaminated Soil from Pile 15 of Area C.	4	3-X	X-7	X-7	X-7	X-7	X-7	X-7	X-7		
8	CLJ44-CC-023	8/7	1145	X		Composite of contaminated soil from Pile 16 of Area C.	4	4-X	X-8	9			X-8				
9																	
10																	

TRANSFER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1-8	<i>[Signature]</i>	<i>[Signature]</i>	8/15	0915	Send samples to Pace Lab. Samples 1-4 7days TAT. Samples 5-8 24hr. TAT. = 44913
3						
4						<i>[Signature]</i> SAMPLER'S SIGNATURE

5900000

August 29, 1995

OHM Remediation Services Corporation
5335 Triangle Parkway
Suite 450-
Norcross, GA 30092

SAMPLE DELIVERY GROUP NARRATIVE

Case: OHMRC
SDG: LJN1A
Laboratory: PACE New England - New Hampshire of Hampton, NH
Lab Numbers: 44914
Protocol: SW846 Methods. NEESA C deliverables. No diskette.

Sample Receipt: These samples were received at PACE, Inc. on August 8, 1995. Laboratory sample numbers were assigned for test parameters as listed on the Sample Table which follows this narrative. The sample shipment was checked for custody seal integrity and cooler temperature. Samples were checked for appropriate preservation and accuracy against the Chains-of-Custody provided. Other than the exceptions noted below, samples were received between 2-6° C and in good condition. PACE Sample Receipt Condition Reports can be found with the Chains-of-Custody.

Shipment received 8/8/95 (44913): These samples were received and samples were logged in under PACE Lab Numbers 44913 and 44914. A temperature blank was not included with the shipment, therefore the cooler temperature could not be verified upon receipt of samples at PACE. The samples were received cool, and had been packed on ice. Samples listed as Items 1-4 on the COC were logged in under PACE# 44914 for seven day turnaround. Samples listed as Items 5-8 on the COC were logged in under PACE# 44913 for 24 hour turnaround. No problems were encountered with the shipment of these samples.

GRO Analysis: Analyses proceeded without difficulty. Matrix spikes and duplicates met all acceptance criteria.

DRO Analysis: Laboratory numbers 44914-2, -6 and -11 for diesel range organics contained petroleum hydrocarbon products which did not match diesel.

Volatiles Analysis: The laboratory number 44914-10 submitted for volatiles analysis was not preserved to a pH < 2.

Metals Analysis: Samples were analyzed within holding time and in accordance with SW846 methods for the TCLP list of eight metals (Ag, As, Ba, Cd, Cr, Hg, Pb, Se). Sample matrices consisted of water and TCLP extracts run as waters. No sample QC was requested for this SDG. Due to software restrictions, sample field identifications were shortened to six characters. The correct full identifications have been included as comments on the Form I sample data. NEESA control charts showed acceptable recoveries for laboratory control samples. One high trend was evident for cadmium, but the LCS of batch 12423 brought it back into control.

Samples were prepared in two ICP batches and one mercury batch. Analyses were conducted in three sequences on three instruments:

TJA01 08/14/95 for Ag, As, Ba, Cd, Cr, Pb, Se.
TJA03 08/16/95 for Ag, As, Ba, Cd, Cr, Pb, Se.
PE02 08/17/95 for Hg.

The TJA03 instrument, located at Pace NE-ME, achieves lower detection limits for As, Pb, and Se than the TJA01. Standards met all compliance criteria. Blanks were also acceptable, although they had low hits on the TJA01 instrument for lead and selenium. This should not affect the TCLP sample data for which the action limits are high. Laboratory control sample data were also acceptable for all analytes of this project.

SDG Narrative
Case: OHMRC, SDG: LJN1A

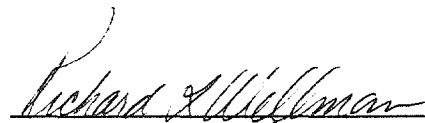
TCLP Volatiles Analysis: Analyses proceeded without difficulty. Matrix spikes and duplicates met all acceptance criteria.

TCLP Semivolatiles Analysis: The control charts included, per NEESA C requirements, are in the process of accumulating 20 data points since a change was made in the method. Therefore, limits have yet to be established.

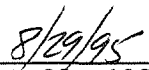
Conventional Chemistry Analysis: Analyses proceeded without difficulty. Matrix spikes and duplicates met all acceptance criteria.

Statement of Compliancy and Data Authorization

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature.



PACE Incorporated, New England-New Hampshire



August 29, 1995

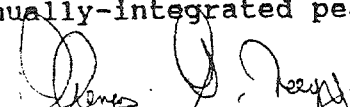
Case: _____

SDG: LJNIA

TABLE 1: MANUAL INTEGRATIONS PERFORMED

EPA ID	LAB ID	FILE NUMBER	COMPOUNDS MANUALLY INTEGRATED
	VSTD010	>C9104	ACETONE 1,2-DICHLOROETHANE (TOTAL) 2-HEXANONE
	VSTD050	>C9753	1,2-DICHLOROETHANE (TOTAL) TRANS-1,3-DICHLOROPROPENE
	VSTD050	>C9772	1,2-DICHLOROETHANE

Manual integrations were performed as required to correct faulty integrations made by the automated software. The manual integrations began and ended at the points where the peak intersected the baseline (unless otherwise indicated), in order that the entire peak and only the peak would be integrated. Hardcopies of the manually-integrated peaks have been provided with the data.


Analyst Signature, PACE Incorporated
PACE Incorporated

8/29/95
Date



NEW ENGLAND - NEW HAMPSHIRE LABORATORY
SAMPLE RECEIPT CONDITION REPORT

44914

Tel. (603) 926-7777
FAX (603) 926-7939

PAGE 1 of 1
COOLER _____ of _____
COC# _____
SDG# LJN/IA
CASE# CHM RC

CLIENT OHM

DATE/TIME RECEIVED 8/8/95 0845 0915

LIMS ENTRY BY Gmf

DELIVERED BY Fed Ex

TRANSCRIPTION REVIEW BY TR 8/8/95

RECEIVED BY [Signature]

LIMS REVIEW BY/PM Gmf

	NA	YES	EXCEPTION	COMMENT	RESOLUTION			
1. CUSTODY SEALS PRESENT/INTACT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
2. CHAIN OF CUSTODY PRESENT IN THIS COOLER	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>					
3. CHAIN OF CUSTODY SIGNED	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>					
4. CHAIN OF CUSTODY MATCHES SAMPLES	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>					
5. SAMPLES RECEIVED AT 2° - 6° C Ice/Ice Packs Present? <input checked="" type="checkbox"/> or N	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<u>No Temp Blank</u>				
6. VOLATILES FREE OF HEAD SPACE	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>					
7. TRIP BLANK PRESENT IN THIS COOLER	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>					
8. PROPER SAMPLE CONTAINERS AND VOLUME	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>					
9. SAMPLES WITHIN HOLD TIME	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>					
10. SAMPLES PROPERLY PRESERVED	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>					
11. ANALYTICAL PROGRAMS (circle one)	<input checked="" type="checkbox"/> COMMERCIAL	<input type="checkbox"/> CLP	<input type="checkbox"/> EPA-CLP	<input type="checkbox"/> NYASP	<input checked="" type="checkbox"/> NJ ISRA	<input checked="" type="checkbox"/> NEESA	<input type="checkbox"/> AFCEE	<input type="checkbox"/> Other
12. NUMBER OF PACE FILTRATIONS:	<u>Level C</u>							
13. CORRECTIVE ACTIONS REPORT #	_____							

Log-in Notes: 7-day TAT

CLIENT AUTHORIZATION SIGNATURE _____ DATE _____

SAMPLE TABLE

CLIENT ID.	MATRIX	PACE #	PARAMETERS
CLJ44-CU-016	SOLID	44914-001	TOTAL GASOLINE
		44914-002	TOTAL DIESEL
		44914-003	GC/MS VOA ACID EXTRACTABLES BASE/NEUTRAL EXTRACTABLES TCLP VOA EXTRACT TCLP ORGANICS EXTRACT TCLP METALS EXTRACTION Ba, Cd, Cr, Pb, Hg, Ag, As, Se
		44914-004	CORROSIVITY FLASH POINT RELEASABLE CYANIDE RELEASABLE SULFIDE
CLJ44-CU-017	SOLID	44914-005	TOTAL GASOLINE
		44914-006	TOTAL DIESEL
		44914-007	GC/MS VOA ACID EXTRACTABLES BASE/NEUTRAL EXTRACTABLES TCLP VOA EXTRACT TCLP ORGANICS EXTRACT TCLP METALS EXTRACTION Ba, Cd, Cr, Pb, Hg, Ag, As, Se
		44914-008	CORROSIVITY FLASH POINT RELEASABLE CYANIDE RELEASABLE SULFIDE
CLJ44-CU-018-RB	WATER	44914-009	TOTAL GASOLINE
		44914-010	GC/MS VOA
		44914-011	TOTAL DIESEL
		44914-012	ACID EXTRACTABLES BASE/NEUTRAL EXTRACTABLES
		44914-013	Ba, Cd, Cr, Pb, Hg, Ag, As, Se
44914-014	CORROSIVITY FLASH POINT RELEASABLE CYANIDE RELEASABLE SULFIDE		
CLJ44-CU-019-TB	WATER	44914-015	GC/MS VOA TOTAL GASOLINE

Field Identification: CLJ44-CU-016

Matrix: SOLID

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Total Gasoline (ug/g)	BDL	13	44914-001	08/08/95	BG1033A	8015(mod)/2
Total Diesel (ug/g)	46	3.6	44914-002	08/09/95		8015(mod),3350/2
Corrosivity (pH, units)	8.0		44914-004	08/08/95	347	2.1.2/2
Releasable Sulfide (mg/Kg)	BDL	50	44914-004	08/08/95	290	7.3.4.2/2
Releasable Cyanide (mg/Kg)	BDL	1	44914-004	08/08/95	290	7.3.3.2/2
Flash Point (degrees F)	>150	50	44914-004	08/08/95	316	1010/2

Field Identification: CLJ44-CU-017

Matrix: SOLID

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Total Gasoline (ug/g)	BDL	12	44914-005	08/08/95	BG1033A	8015(mod)/2
Total Diesel (ug/g)	16	3.7	44914-006	08/09/95		8015(mod),3350/2
Corrosivity (pH, units)	8.1		44914-008	08/08/95	347	2.1.2/2
Releasable Sulfide (mg/Kg)	BDL	50	44914-008	08/08/95	290	7.3.4.2/2
Releasable Cyanide (mg/Kg)	BDL	1	44914-008	08/08/95	290	7.3.3.2/2
Flash Point (degrees F)	>150	50	44914-008	08/08/95	316	1010/2

Field Identification: CLJ44-CU-018-RB

Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Total Gasoline (ug/L)	BDL	100	44914-009	08/10/95		8015(mod)/2
Total Diesel (ug/L)	150	100	44914-011	08/11/95		8015(mod),3350/2
Corrosivity (pH, units)	6.1		44914-014	08/08/95	347	2.1.2/2
Releasable Sulfide (mg/Kg)	BDL	50	44914-014	08/08/95	290	7.3.4.2/2
Releasable Cyanide (mg/Kg)	BDL	1	44914-014	08/08/95	290	7.3.3.2/2
Flash Point (degrees F)	>150	50	44914-014	08/08/95	316	1010/2

Field Identification: CLJ44-CU-019-TB

Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Total Gasoline (ug/L)	BDL	100	44914-015	08/10/95		8015(mod)/2

Results for solid sample expressed on a dry weight basis with the exception of releasables, which are expressed on a weight as received basis.

References: 2) EPA SW 846, 3rd Edition



QUALITY CONTROL DATA
TOTAL GASOLINE

BLANK DATA

Laboratory Number: BG1033
Sample Designation: LABORATORY BLANK
Date Analyzed: 08/09/95
Matrix: SOLID

COMPCUND	CONCENTRATION ug/g	DETECTION LIMIT ug/g
GASOLINE	BDL	12

MATRIX SPIKE RECOVERY

Laboratory Number: LS-G1033
Sample Designation: LABORATORY CONTROL SAMPLE
Date Analyzed: 08/09/95
Matrix: SOLID

COMPOUND	ug/g IN SAMPLE	ug/g SPIKE	ug/g FOUND	%REC- OVERY
GASOLINE	0	50	54	108

METHOD REFERENCE: METHOD 8015 (MODIFIED)

QUALITY CONTROL DATA
TOTAL GASOLINE

BLANK DATA

Laboratory Number: BG080995TGA
Sample Designation: LABORATORY BLANK
Date Analyzed: 08/09/95
Matrix: WATER

COMPOUND	CONCENTRATION ug/L	DETECTION LIMIT ug/L
GASOLINE	BDL	100

METHOD REFERENCE: METHOD 8015 (MODIFIED)

QUALITY CONTROL DATA
TOTAL GASOLINE

BLANK DATA

Laboratory Number: BG081095TGA
Sample Designation: LABORATORY BLANK
Date Analyzed: 08/10/95
Matrix: WATER

COMPOUND	CONCENTRATION ug/L	DETECTION LIMIT ug/L
GASOLINE	BDL	100

MATRIX SPIKE DUPLICATE RECOVERY

Laboratory Number: LW081095TGA
Sample Designation: LABORATORY CONTROL SAMPLE
Date Analyzed: 08/10/95
Matrix: WATER

COMPOUND	ug/L IN SAMPLE	ug/L SPIKE	ug/L FOUND	%REC- OVERY
GASOLINE	0	500	579	116

METHOD REFERENCE: METHOD 8015 (MODIFIED)

PACE New England
VOA SOILS PREP

TOTAL GASOLINE

Date/Init	Smpl Ct.	SAMPLE #	Prep Wt. (g)	Pan #	Pan Wt. (g)	Wet Wt. + Pan (g)	Dry Wt. + Pan (g)	% Solid	COMMENTS
CF 8/10/95		861033A	4.0						MeOH Lot#
		LS 1003	4.0						
		44913-1	4.3						
		1-2	4.1						
		-3	4.0						
		6-4	4.1						
CF 8/10/95		44914-1	4.2						
		-5	4.5						
CF 8/10/95		861033B	4.0						
		44928-1	4.1						
		2	4.3						
		3	4.2						
		4	4.3						
		5	4.5						
		6	Trip Blank						
CF 8/10/95									

CF 8/16/95

Calibration Curve for total gas

Titles

Test: total gas
Date: 05/02/95
X-Axis: concentration
Y-Axis: area

Regression Output:

Constant 724456.9
Std Err of Y Est 305148.5
R Squared 0.997547
No. of Observations 5
Degrees of Freedom 3

	Conc.	Obs.	Calc-Abs.
1	100	1088896	1410739
2	200	1884627	2077020
3	500	4045123	4155865
4	1000	7950574	7587273
5	2000	14246985	14450089

X Coefficient(s) 6662.816
Std Err of Coef. 176.4519

Slope = 6662.816
Y-Intercept = 724456.9

cf 8/16/75

Calibration Curve for bromofluorobenzene

Titles

Test: bromofluorobenzene
Date: 06/08/75
X-Axis: concentration
Y-Axis: area

Regression Output:

Constant 15674.93
Std Err of Y Est 11300.24
R Squared 0.999333
No. of Observations 5
Degrees of Freedom 3

	Conc.	Abs.	Calc-Abs.
1	10	71195.62	74025.06
2	20	120301.1	132355.2
3	50	320495.9	307345.5
4	100	605433.7	598996.2
5	200	1177067	1162297

X Coefficient(s) 5833.012
Std Err of Coef. 72.76106

Slope = 5833.012
Y-Intercept = 15674.93

PACE, Incorporated New England - New Hampshire Laboratory

Instrument GC07

TOTAL GAS

Logbook # 1

Reviewed by _____ Date _____

Method EPA modified 8015

surr recov	result file	surr μL	tube #	sample #	vol	MI	COMMENTS/DATE/INITIALS/METHOD FILE
	G70K117429		1	B6000995TBA	5ml		CK09/09/95 T/A T.A.S. 0010 copy T.A.S. 0008
	30		2	15101000	5ml		
	31		3	BG1033A	100ml		
	32		4	44913-1	10ml		Screens
	33		5	2	↓		↓
	34		6	3	↓		
	35		7	4	↓		↓
	36		8	LS1033	100ml		
	37		9	44913-1	50ml		
	38		10	2	100ml		
	39		1	3	20ml		
	40		2	4	100ml		
	41		3	BG1033B	100ml		
	42		4	44928-1	10ml		Screens
	43		5	-2	10ml		↓
	44		6	-3	10ml		
	45		7	-4	10ml		
	46		8	-5	10ml		↓
	47		9	-6	10ml		
	48		10	44897-3	20ml		
	49		1	-4	100ml		
	50		2	-8	30ml		
	51		3	-1	100ml		
	52		4	TUBE Blanks			BDL
	53		5	↓			BDL
	54		6				BDL
	55		7				BDL
	56		8				BDL
	57		9				BDL
	58			BAKE			
CK 01/10/95							

Instrument GC07
 Reviewed by _____ Date _____

TOTAL GAS

Logbook # 2
 Method EPA modified 8015

surr recov	result file	surr μL	tube #	sample #	vol	MI	COMMENTS/DATE/INITIALS/METHOD FILE
	670K117459		1	B6081095T0A	5ml		CF 8/16/95 70-N510612 COPY 70N50608
	60		2	V51D1000	5ml		5-1V6145
	61		3	44928-1	30ml		
	62		4	2	100ml		
	63		5	3	100ml		
	64		6	4	100ml		
	65		7	5	100ml		
	67		8	44897-12	40ml		
	68		9	44898-3	5ml		pH neutral
	69		10	4	5ml		pH < 2
	70		1	44914-1	10ml		
	71		2	5	10ml		
	72		3	9	5ml		pH neutral
	73		4	15	5ml		pH < 2
	74		5	44881-3	5ml		pH < 2
	75		6	4	5ml		pH < 2
	76		7	5	5ml		pH neutral
	77		8	LW08101516-A	5ml		
	78		9	TUBE blanks			BDL
	79		10				BDL
	80		1				BDL
	81		2				BDL
	82		3				BDL
	83		4				BDL
	84		5				✓
	85		6				✓
	86		7				✓
	87		8	BAKE			

PACE, Incorporated New England - New Hampshire Laboratory

Instrument GC07
 Reviewed by _____ Date _____

TOTAL GAS

0000051
 Logbook # 2
 Method EPA modified 8015

surr recov	result file	surr μL	tube #	sample #	vol	MI	COMMENTS/DATE/INITIALS/METHOD FILE
	170E117488	1		6608119576A	5ml		07/11/95 THP 761150612 EX(2)
	89	2		1510 1000	5ml		5μl 66145
	90	3		661034A	100ml		
	91	4		44939-1			
	92	5		2			
	93	6		3			
	94	7		4			
	95	8		5			
	96	9		6			
		10		7			} OKED 8/1/95
		1		8			
		2		9			
	97	3		44878-1	100ml		
	98	4		44878-2 100ml 8/1/95	100ml		
	99	5		43939-10	100ml		
	100	6		-11	100ml		
	1	7		44881-3	800μl		
	2	8		4			
	3	9		5			
	4	10		44939-7	100ml		
	5	1		44939-8	100ml		
	6	2		44939-9	100ml		
	7	3		44914-1	100ml		
	8	4		5	100ml		
	9	5		661034B	100ml		
	10	6		44951-1	20ml		Screens
	11	7		-2	20ml		
	12	8		-3	20ml		
	13	9		44939-1ms	100ml		
	14	10		-1ms			
	15	1		LS1034			

100ml
 8/1/95

QUALITY CONTROL DATA
PETROLEUM HYDROCARBONS BY GCFID

BLANK DATA

Laboratory Number: B-H1358
Sample Designation: LABORATORY BLANK
Date Analyzed: 08/09/95
Matrix: SOLID

HYDROCARBON TYPE	CONCENTRATION ug/g	DETECTION LIMIT ug/g
DIESEL	BDL	3

MATRIX SPIKE RECOVERY

Laboratory Number: LSH1358
Sample Designation: LABORATORY CONTROL SAMPLE
Date Analyzed: 08/09/95
Matrix: SOLID

COMPOUND	ug/g SAMPLE	ug/g SPIKE	ug/g FOUND	%REC- OVERY
DIESEL	0	33.5	25.1	75

METHOD REFERENCE: EPA SW 846, 3RD EDITION METHOD 8015 (MODIFIED)
AND 3350

QUALITY CONTROL DATA
PETROLEUM HYDROCARBONS BY GCFID

BLANK DATA

Laboratory Number: B-H1361
Sample Designation: LABORATORY BLANK
Date Analyzed: 08/10/95
Matrix: WATER

HYDROCARBON TYPE	CONCENTRATION ug/L	DETECTION LIMIT ug/L
DIESEL	BDL	100

MATRIX SPIKE RECOVERY

Laboratory Number: LSH1361
Sample Designation: LABORATORY CONTROL SAMPLE
Date Analyzed: 08/10/95
Matrix: SOLID

COMPOUND	ug/L IN SAMPLE	ug/L SPIKE	ug/L FOUND	%REC- OVERY
DIESEL	0	1004	1337	133

METHOD REFERENCE: EPA SW 846, 3RD EDITION METHOD 8015 (MODIFIED)
AND 3350



PACE INCORPORATED
Organics Extraction
SOLIDS PREP LOG

PROTOCOL: EPA SW846

SOP #: QA 5547

METHOD: SONC/3550

MATRIX: SOLID

TEST / LEVEL: PHC /

COUNT	DATE/INIT	BLANK/SPIKES SAMPLE #	INIT WT (g)	SURR # AMT/CONC.	LCS MS/MSD	SPIKE # AMT/CONC.	NA2SO4 (g)	INTER VOL (ml)	ALIQOT VOL (ml)	FINAL VOL (ml)
-	mc 8/18/95	BH1358	30.0	E1363 0.5ml	N/A	N/A	60.0	10.0	10.0	1.0
-		LSH1358	30.0	101ppm	LSH1358	E1319 200ul				
5		4498-5	30.08		44877-1	501ppm N/A				
6		-6	30.04		MS/MSD	NA				
7		44913-5	30.69							
8		-6	30.65							
9		-7	30.74							
10		-8	30.23							
11		44914-2	30.08							
12		-3	30.55							
13		-6	30.38							
14		-7	30.09							

Sent
MC
8/18/95

mc
8/18/95
N/A

COMMENTS: Ass. QC 44877-1 MS/MSD

PACE, INC. NEW ENGLAND - NEW HAMPSHIRE LAB
Organic Extractions
AQUEOUS PREP LOG

PROTOCOL: EPA SW846

LOGBOOK NO: 2

SOP: PACE NE-NH SOP 5501

METHOD: CONT/3520 SEPF/3510

MATRIX: AQUEOUS

TEST/LEVEL: PHC /

COUNT	DATE/INIT	CONT #	BLANK/SPIKE/SAMPLE #	INIT VOL (L)	SURR AMT/CONC	LCS MS/MSD	SPIKE # AMT/CONC	INTER VOL (mL)	ALIQVOT VOL (mL)	FINAL VOL (mL)
—	PM		B H 1361	1.0	E1384 0.5 ml		L5H1361 no qc	10.0	10.0	1.0
—	8-10-95		L5 H1361	1.0	101 ppm	E1383 200 ml	MS/MSD assigned			
15			44898-7	1.0		5019 ppm N/A	0.1 ms point			
16			44932-1	.720						
17			(E10) -2	.720						
18			-3	.720						
19			44914-11	1.0						

QUALITY
CHECK
OK

~~PM~~
~~JEN~~
3
8
10-95

COMMENTS: (E10) - May have double surrogated
44932-2 - PM 8-10-95

FACE, Incorporated

+-----+
| INITIAL CALIBRATION SUMMARY |
+-----+

For /DATA/GC09/METHOD/DIESEL015.MTH
Method created: 08/23/95 11:10:55
Method updated: 08/23/95 11:21:55

Result files used for Calibration data:
Level 1 /DATA/GC09/RESULT/G9H18939.RES
Level 2 /DATA/GC09/RESULT/G9H18940.RES
Level 3 /DATA/GC09/RESULT/G9H18941.RES
Level 4 /DATA/GC09/RESULT/G9H18942.RES
Level 5 /DATA/GC09/RESULT/G9H18943.RES

#	Time	Analyte	Correlation	B0 Intercept	B1 Slope	B2 Quadratic
1	3.73	SOLVENT PEAK	.00000	0.00	*****	*****
2	20.45	DIESEL FUEL	1.0000	40620.00	3554.09	.08

$$R = B_0 + B_1X + B_2X^2$$

FACE, Incorporated

+-----+
| INITIAL CALIBRATION SUMMARY |
+-----+

for /DATA/GC12/METHOD/DIESEL006.MTH
Method created: 08/07/95 11:04:44
Method updated: 08/07/95 11:34:29

Result files used for Calibration data:

Level 1 /DATA/GC12/RESULT/G12H01296.RES
Level 2 /DATA/GC12/RESULT/G12H01297.RES
Level 3 /DATA/GC12/RESULT/G12H01298.RES
Level 4 /DATA/GC12/RESULT/G12H01299.RES
Level 5 /DATA/GC12/RESULT/G12H01300.RES

#	Time	Analyte	Correlation	B ₀ Intercept	B ₁ Slope	B ₂ Quadratic
1	3.72	SOLVENT PEAK	.00000	0.00	*****	*****
2	21.89	DIESEL FUEL	.99999	-22114.00	2942.53	.12

$$R = B_0 + B_1 X + B_2 X^2$$

PACE, Incorporated
Continuing Calibration Report

Fri Aug 25, 1995 1:26:17 pm

/DATA/GC09/RESULT/G9H18855.RES
/DATA/GC09/METHOD/DIESEL014.MTH

Sample: DRO 2500PPM P8710
Injected: Wed Aug 9, 1995 5:45:14 pm

RetTime	Analyte	Found	Nominal	%D	Recovery
18.67	DIESEL FUEL	2302.05	2500.000	7.9	92.1

PACE, Incorporated
Continuing Calibration Report

Fri Aug 25, 1995 1:19:59 pm

/DATA/GC12/RESULT/G12H01359.RES
/DATA/GC12/METHOD/DIESEL006.MTH

Sample: DRO 2500PPM P8710
Injected: Thu Aug 10, 1995 12:20:09 am

RetTime	Analyte	Found	Nominal	%D	Recovery
18.67	DIESEL FUEL	2647.61	2500.000	5.9	105.9

PACE, Incorporated
Continuing Calibration Report

Fri Aug 25, 1995 1:20:25 pm

/DATA/GC12/RESULT/G12H01370.RES
/DATA/GC12/METHOD/DIESEL006.MTH

Sample: DRO 2500PPM P8710
Injected: Thu Aug 10, 1995 10:47:02 pm

RetTime	Analyte	Found	Nominal	%D	Recovery
20.30	DIESEL FUEL	2744.91	2500.000	9.8	109.8

FACE, INCORPORATED
GC Instrument Run Log

0000070

Reviewed by _____ Date _____

Circle one:
CLP/~~PHC~~/OPF/HERB/P-P

Date	init	result file	Sample	MI	v	Method	column	Sequence
8/8/95	HS	G9118834	p8609 MSP/HYBR 2546/5159ppm	Y	Y	Calib 231	154	G910808
		835	p8578 #6 Fuel Dil 10000ppm					
		836	p8611 MOPF 5061 ppm					
		837	p8429 10200 ppm change					
		838	p8591 JP4/L8 501/24ppm					
		839	DR0 50ppm p8585			Diesel014		
		840	DR0 500ppm p8584					
		841	DR0 2500ppm p8710					
		842	DR0 5000ppm p8582					
		843	DR0 10000ppm p8581					
		844	B11358 PHL-LS LTN10					
		845	LS117358 PHL-LS					
		846	44898-5 DR0-LS LTN09					
		847	-6 ↓ ↓					
		848	44913-5 LTN10		N	need DIE		
		849	-6					
		850	-7					
		851	-8					
		852	44914-2	Y	Y			
		853	-3					
8/9/95	HS	G9118834	p8722 Gas/Lube/THP	Y	Y*	Calib 231	154	G910809
		855	DR0 2500ppm p8710			Diesel014		
		856	44913-5 DR0-LS LTN10 L10					
		857	-6					
		858	-7					
		859	-8					
		860	44914-6					
		861	-7					
		862	44877-1 PHL-S Shell.					
		863	-1MS					
		864	-1MS6					

PACE, INCORPORATED
GC Instrument Run Log

0000044

Circle one:
CLP/PHC OPP/HERB/P-P

Reviewed by _____ Date _____

Date	init	result file	Sample	MI	v	Method	column	Sequence
8/4/95	HS	614401289	P8722 Gas/Lube/2FBP 504/5104/511	Y	Y	Calib008	131	G20804
		290	P8610 Kerosene 5219 PPM					
		291	P8809 MSP/HYDR 2546/5159 PPM					
		292	P8578 #6 Fuel oil 10000 PPM					
		293	P8611 MODF 5061 PPM					
		294	P8429 10200 PPM Orange					
		295	P8591 JMF/CIS 50/24 PPM					
		296	DRO 50 PPM P8385			Diesel006		
		297	DRO 500 PPM P8584					
		298	DRO 2500 PPM P8710					
		299	DRO 5000 PPM P8382					
		300	DRO 10000 PPM P8381					
		301	BH1354 DRO-S					
		302	LSH1354					
		303	44837-2			PACE1J		
		304	BH1355 PHC-LS			Calib008		
		305	LSH1355					
		306	44837-3			Shell		
		307	44862-9			LJN09	Diesel006	
		308	-11					
		309	-12					
		310	-13					
		311	Gas/Lube 504/5104/511 PPM P8722			Calib008		
		312	Diesel 2500 PPM P8710	Y	Y	Diesel006		
		313	Gas/Lube 504/5104/511 PPM P8722			Calib008	131	G20807
8/7/95	HS	614401314	BH1357 PHC-LS			Diesel006		
		315	LSH1357 PHC-LS					
		316	44897-13 DRO-LS LJN09					
		317	-14					
		318	-15			need data		
		319	-16					

FACB, INCORPORATED
GC Instrument Run Log

0000046

Reviewed by _____ date _____

Circle one:
CLP/PHC/OPP/HERB/P-P

Date	init	result file	Sample	MI	v	Method	column	Sequence
8/9/95	HS	GL21401351	44862-15 PRO-W LS No9	Y	Y	Dieselob	131	GL20808
8/9/95	HS	GL21401352	44897-21 PRO-LS LS No9 1:100					GL20809
		GL21401353	BH1360					
		354	LSH1360					
		355	44928-8					
		356	-9					
		357	-10					
		358	-11					
		359	PRO 2500ppm P8710 100	Y	Y			
		360	44928-13 PRO-LS LJS 1:10					
		361	BH1359 PRO-W					
		362	LSH1359					
		363	44881-1					
		364	-2					
		365	44897-15 1:100					
8/10/95	HS	GL21401366	BH1361 PHC-W			Dieselob	131	GL20810
		367	LSH1361					
		368	44898-7 PRO-W					
		369	44932-1					
		370	PRO 2500ppm P8710	Y	Y			
		371	44932-2 PRO-W					
		372	-3					
		373	44914-11					
		374	Diesel 2500ppm P8710	Y	Y	Dieselob	131	GL20811
8/11/95	HS	GL21401375	BH1364 PHC-S					
		376	LSH1364					
		377	44951-5 PRO-S 1:10					
		378	-6					
		379	-7					
		380	BH1362 PRO-S					
		381	LSH1362					

QUALITY CONTROL
Corrosivity
Method: 7.2 SW846 3rd Edition

QC Batch: 347 For: 44914
Matrix: SOLID

LABORATORY CONTROL SAMPLES:

	True Value Units	Observed Value Units
LCS1	7.0	7.02

PACE INC. NE-NH LAB
QUALITY CONTROL
Releasable Sulfide
Method: 7.3.4.2 EPA SW846, 3rd Edition

QC Batch: 290 For: 44914
Matrix: SOLID

METHOD BLANK: Result
ug/g

< 50.00

LABORATORY CONTROL SAMPLES:	True Value ug/g -----	Observed Value ug/g -----	Accuracy
			Recovery %
LCS1	1403.0	1480.3	105.5

FIELD SAMPLE:

Precision	Replicate 1	Replicate 2	Average	Relative Percent Difference
Lab No.	ug/g	ug/g	ug/g	%
-----	-----	-----	-----	-----
44829-1	< 50.00	< 50.00	NC	NC

QUALITY CONTROL QUALIFIER STATEMENT
The sample results used to generate quality control information for solid samples are uncorrected for dry weight. This does not affect the results reported for percent of spike recovery and relative percent difference.

NC = Not calculable due to result below detection limit.



PACE INC. NE-NH LAB
 QUALITY CONTROL
 Releasable Cyanide
 Method: 7.3.3.2 SW846, 3rd Edition

QC Batch: 290 For: 44914
 Matrix: SOLID

METHOD BLANK:	Result
	ug/g

	< 1.00

LABORATORY CONTROL SAMPLES:	True Value	Observed Value	Accuracy
	ug/g	ug/g	Recovery %
	-----	-----	-----
LCS1	40.0	6.200	15.5

FIELD SAMPLE:

Precision	Replicate 1	Replicate 2	Average	Relative Percent Difference
Lab No.	ug/g	ug/g	ug/g	%
	-----	-----	-----	-----
44829-1	< 1.00	< 1.00	NC	NC

QUALITY CONTROL QUALIFIER STATEMENT

The sample results used to generate quality control information for solid samples are uncorrected for dry weight. This does not affect the results reported for percent of spike recovery and relative percent difference.

NC = Not calculable due to result below detection limit.



QUALITY CONTROL
Flashpoint
Method: D93-80, ASTM

QC Batch: 316 For: 44914
Matrix: SOIL

LABORATORY CONTROL SAMPLES:

	True Value Deg F	Observed Value Deg F
LCS1	81.0	81.00

TOXICITY CHARACTERISTIC LEACHING PROCEDURE (1)
EXTRACTION FOR VOLATILE CONSTITUENTS

Laboratory Number : 44914-003
Field Identification : CLJ44-CU-016
Extraction Date : 08/09/95
TCLP Blank : 90,002-388

Sample description : NON-HOMOGENEOUS GRANULAR SOIL

Extraction Fluid Selection (1,2):

Extraction Fluid #1 was used as specified in the method.

Sample Preparation (1):

Since the sample contained no free liquid, it was not filtered before extraction. 25 g of sample was added to the extractor with 500 mL of Extraction Fluid #1.

Extraction Time : 16.00 hrs

% Solids as defined in method : 100

References:

1. 40 CFR Part 261, Appendix II, Nov. 24, 1992
2. Extraction Fluid #1: 0.57% by volume glacial acetic acid to which 0.1N NaOH has been added to yield a pH of 4.93 +/- 0.05.

TOXICITY CHARACTERISTIC LEACHING PROCEDURE
ANALYSIS FOR VOLATILE CONSTITUENTS

Laboratory number: 44914-003
Sample Designation: CLJ44-CU-016
Matrix: TCLP EXTRACT

Parameter	Result (mg/L)	Regulatory	Reporting
		Limit (mg/L)	Limit (mg/L)

VOLATILES		Date Analyzed: 08/11/95	
Vinyl chloride	BDL	0.2	.01
1,1-Dichloroethene	BDL	0.7	.005
1,2-Dichloroethane	BDL	0.5	.005
Chloroform	BDL	6.0	.005
Methyl ethyl ketone	BDL	200	.025
Carbon Tetrachloride	BDL	0.5	.005
Trichloroethene	BDL	0.5	.005
Benzene	BDL	0.5	.005
Tetrachloroethene	BDL	0.7	.005
Chlorobenzene	BDL	100	.005

Results uncorrected for matrix spike recovery.

TOXICITY CHARACTERISTIC LEACHING PROCEDURE (1)
EXTRACTION FOR VOLATILE CONSTITUENTS

Laboratory Number : 44914-007
Field Identification : CLJ44-CU-017
Extraction Date : 08/09/95
TCLP Blank : 90,002-388

Sample description : NON-HOMOGENEOUS GRANULAR SOIL

Extraction Fluid Selection (1,2):

Extraction Fluid #1 was used as specified in the method.

Sample Preparation (1):

Since the sample contained no free liquid, it was not filtered before extraction. 25 g of sample was added to the extractor with 500 mL of Extraction Fluid #1.

Extraction Time : 16.00 hrs

% Solids as defined in method : 100

References:

1. 40 CFR Part 261, Appendix II, Nov. 24, 1992
2. Extraction Fluid #1: 0.57% by volume glacial acetic acid to which 0.1N NaOH has been added to yield a pH of 4.93 +/- 0.05.

TOXICITY CHARACTERISTIC LEACHING PROCEDURE
ANALYSIS FOR VOLATILE CONSTITUENTS

Laboratory number: 44914-007
Sample Designation: CLJ44-CU-017
Matrix: TCLP EXTRACT

Parameter	Result (mg/L)	Regulatory Limit (mg/L)	Reporting Limit (mg/L)

VOLATILES		Date Analyzed: 08/14/95	
Vinyl chloride	BDL	0.2	.01
1,1-Dichloroethene	BDL	0.7	.005
1,2-Dichloroethane	BDL	0.5	.005
Chloroform	BDL	6.0	.005
Methyl ethyl ketone	BDL	200	.025
Carbon Tetrachloride	BDL	0.5	.005
Trichloroethene	BDL	0.5	.005
Benzene	BDL	0.5	.005
Tetrachloroethene	BDL	0.7	.005
Chlorobenzene	BDL	100	.005

Results uncorrected for matrix spike recovery.

TOXICITY CHARACTERISTIC LEACHING PROCEDURE
ANALYSIS FOR VOLATILE CONSTITUENTS

Laboratory number: 44914-010
Sample Designation: CLJ44-CU-018-RB
Matrix: WATER

Parameter	Result (mg/L)	Regulatory Limit (mg/L)	Reporting Limit (mg/L)

VOLATILES	Date Analyzed: 08/11/95		
Vinyl chloride	BDL	0.2	.01
1,1-Dichloroethene	BDL	0.7	.005
1,2-Dichloroethane	BDL	0.5	.005
Chloroform	BDL	6.0	.005
Methyl ethyl ketone	BDL	200	.025
Carbon Tetrachloride	BDL	0.5	.005
Trichloroethene	BDL	0.5	.005
Benzene	BDL	0.5	.005
Tetrachloroethene	BDL	0.7	.005
Chlorobenzene	BDL	100	.005

Results uncorrected for matrix spike recovery.

Laboratory number: 44914-015
Sample Designation: CLJ44-CU-019-TB
Date Analyzed: 08/11/95
Matrix: WATER

Instrument File Name: >C9761

VOLATILE ORGANICS	CONCENTRATION (ug/L)	REPORTING LIMIT (ug/L)
Chloromethane	BDL	10
Bromomethane	BDL	10
Vinyl chloride	BDL	10
Chloroethane	BDL	5
Methylene chloride	BDL	10
Acetone	BDL	25
Carbon disulfide	BDL	5
Tetrahydrofuran	BDL	25
Trichlorofluoromethane	BDL	5
1,1-Dichloroethene	BDL	5
1,1-Dichloroethane	BDL	5
1,2-Dichloroethene (total)	BDL	5
Chloroform	BDL	5
1,2-Dichloroethane	BDL	5
2-Butanone	BDL	25
1,1,1-Trichloroethane	BDL	5
Carbon Tetrachloride	BDL	5
Vinyl acetate	BDL	10
Bromodichloromethane	BDL	5
1,2-Dichloropropane	BDL	5
cis-1,3-Dichloropropene	BDL	5
trans-1,3-Dichloropropene	BDL	5
Trichloroethene	BDL	5
Dibromochloromethane	BDL	5
1,1,2-Trichloroethane	BDL	5
Benzene	BDL	5
Bromoform	BDL	5
4-Methyl-2-Pentanone	BDL	25
2-Hexanone	BDL	25
Tetrachloroethene	BDL	5
1,1,2,2-Tetrachloroethane	BDL	5
Toluene	BDL	5
Chlorobenzene	BDL	5
Ethylbenzene	BDL	5
Styrene	BDL	5
Xylene (total)	BDL	5

METHOD REFERENCE: EPA SW 846, 3rd Edition
METHOD 8240

BDL = Below reporting limit

WATER VOLATILES SURROGATE RECOVERY

Client: OHM REMEDIATION SERVICES CORP.
Project: CAMP LEJEUNE/LJN1A

Lab No.: 44914

CLIENT SAMPLE NO.	S1 (TOL) #	S2 (BFB) #	S3 (DCE) #	OTHER	TOT OUT
=====	=====	=====	=====	=====	=====
CLJ44-CU-016	96	96	103		0
CLJ44-CU-017	93	99	99		0
CLJ44-CU-018-RB	92	95	100		0
CLJ44-CU-019-TB	94	99	98		0
TCLP BLANK #388	95	98	101		0
TCLP BLANK #389	95	97	94		0
BC081495A1	95	97	93		0
BC081195A1	96	98	99		0

QC LIMITS

S1 (TOL) = Toluene-d8 86 - 114
S2 (BFB) = Bromofluorobenzene 72 - 132
S3 (DCE) = 1,2-Dichloroethane-d4 70 - 138

Column to be used to flag recovery values with an asterisk
* Values outside of designated QC limits
D Surrogates diluted out



Laboratory number: TCLP BLANK #388
Client ID: TCLP BLANK
Date Analyzed: 08/11/95
Matrix: TCLP EXTRACT

Parameter	Result (ug/L)	Regulatory Limit (ug/L)	Detection Limit (ug/L)
Vinyl chloride	BDL	200	10
1,1-Dichloroethene	BDL	700	5
1,2-Dichloroethane	BDL	500	5
Chloroform	BDL	6000	5
Methyl ethyl ketone	BDL	200000	25
Carbon Tetrachloride	BDL	500	5
Trichloroethene	BDL	500	5
Benzene	BDL	500	5
Tetrachloroethene	BDL	700	5
Chlorobenzene	BDL	100000	5

METHOD REFERENCE: EPA SW846 3rd EDITION
METHOD 8240

BDL = Below detection limit

Laboratory number: BC081195A1
Sample Designation: LABORATORY BLANK
Date Analyzed: 08/11/95
Matrix: WATER

VOLATILE ORGANICS	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
Chloromethane	BDL	10
Bromomethane	BDL	10
Vinyl chloride	BDL	10
Chloroethane	BDL	5
Methylene chloride	BDL	10
Acetone	BDL	25
Carbon disulfide	BDL	5
1,1-Dichloroethene	BDL	5
Tetrahydrofuran	BDL	25
1,1-Dichloroethane	BDL	5
1,2-Dichloroethene (total)	BDL	5
Chloroform	BDL	5
Methyl ethyl ketone	BDL	25
1,2-Dichloroethane	BDL	5
1,1,1-Trichloroethane	BDL	5
Carbon Tetrachloride	BDL	5
Vinyl acetate	BDL	10
Bromodichloromethane	BDL	5
cis-1,3-Dichloropropene	BDL	5
trans-1,3-Dichloropropene	BDL	5
Trichloroethene	BDL	5
Benzene	BDL	5
Dibromochloromethane	BDL	5
1,1,2-Trichloroethane	BDL	5
1,2-Dichloropropane	BDL	5
2-Chloroethyl vinyl ether	BDL	5
Bromoform	BDL	5
Methyl isobutyl ketone	BDL	25
2-Hexanone	BDL	25
1,1,2,2-Tetrachloroethane	BDL	5
Tetrachloroethene	BDL	5
Toluene	BDL	5
Chlorobenzene	BDL	5
Ethylbenzene	BDL	5
m-Xylene	BDL	5
o,p-Xylene	BDL	5
Styrene	BDL	5

METHOD REFERENCE: EPA SW 846 3RD EDITION
METHOD 8240

BDL = Below detection limit

MATRIX SPIKE RECOVERY
VOLATILE ORGANIC COMPOUNDS

Laboratory Number: LCC081195A1
Sample Designation: LABORATORY CONTROL SAMPLE
Date Analyzed: 08/11/95
Matrix: WATER

COMPOUND	ug/L IN SAMPLE	ug/L SPIKE	ug/L FOUND	%REC- OVERY
1,1-DICHLOROETHENE	0	50	64	128
TRICHLOROETHYLENE	0	50	58	116
BENZENE	0	50	56	112
TOLUENE	0	50	58	115
CHLOROBENZENE	0	50	61	122

METHOD REFERENCE: EPA SW 846, 3RD EDITION
METHOD 8240

Laboratory number: TCLP BLANK #389
Client ID: TCLP BLANK
Date Analyzed: 08/14/95
Matrix: TCLP EXTRACT

Parameter	Result (ug/L)	Regulatory Limit (ug/L)	Detection Limit (ug/L)
Vinyl chloride	BDL	200	10
1,1-Dichloroethene	BDL	700	5
1,2-Dichloroethane	BDL	500	5
Chloroform	BDL	6000	5
Methyl ethyl ketone	BDL	200000	25
Carbon Tetrachloride	BDL	500	5
Trichloroethene	BDL	500	5
Benzene	BDL	500	5
Tetrachloroethene	BDL	700	5
Chlorobenzene	BDL	100000	5

METHOD REFERENCE: EPA SW846 3rd EDITION
METHOD 8240

BDL = Below detection limit

Laboratory number: BC081495A1
Sample Designation: LABORATORY BLANK
Date Analyzed: 08/14/95
Matrix: WATER

VOLATILE ORGANICS	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
Chloromethane	BDL	10
Bromomethane	BDL	10
Vinyl chloride	BDL	10
Chloroethane	BDL	5
Methylene chloride	BDL	10
Acetone	BDL	25
Carbon disulfide	BDL	5
1,1-Dichloroethene	BDL	5
Tetrahydrofuran	BDL	25
1,1-Dichloroethane	BDL	5
1,2-Dichloroethene (total)	BDL	5
Chloroform	BDL	5
Methyl ethyl ketone	BDL	25
1,2-Dichloroethane	BDL	5
1,1,1-Trichloroethane	BDL	5
Carbon Tetrachloride	BDL	5
Vinyl acetate	BDL	10
Bromodichloromethane	BDL	5
cis-1,3-Dichloropropene	BDL	5
trans-1,3-Dichloropropene	BDL	5
Trichloroethene	BDL	5
Benzene	BDL	5
Dibromochloromethane	BDL	5
1,1,2-Trichloroethane	BDL	5
1,2-Dichloropropane	BDL	5
2-Chloroethyl vinyl ether	BDL	5
Bromoform	BDL	5
Methyl isobutyl ketone	BDL	25
2-Hexanone	BDL	25
1,1,2,2-Tetrachloroethane	BDL	5
Tetrachloroethene	BDL	5
Toluene	BDL	5
Chlorobenzene	BDL	5
Ethylbenzene	BDL	5
m-Xylene	BDL	5
o,p-Xylene	BDL	5
Styrene	BDL	5

METHOD REFERENCE: EPA SW 846 3RD EDITION
METHOD 8240

BDL = Below detection limit

MATRIX SPIKE RECOVERY
VOLATILE ORGANIC COMPOUNDS

Laboratory Number: LCC081495A1
Sample Designation: LABORATORY CONTROL SAMPLE
Date Analyzed: 08/14/95
Matrix: WATER

COMPOUND	ug/L IN SAMPLE	ug/L SPIKE	ug/L FOUND	%REC- OVERY
1,1-DICHLOROETHENE	0	50	60	120
TRICHLOROETHYLENE	0	50	51	102
BENZENE	0	50	51	101
TOLUENE	0	50	47	94
CHLOROBENZENE	0	50	49	98

METHOD REFERENCE: EPA SW 846, 3RD EDITION
METHOD 8240

5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: PACE New England Contract:
Lab Code: RESAN Case No.: OHMRC SAS No.: SDG No.: LJN1A
Lab File ID: >C9099 BFB Injection Date: 06/23/95
Instrument ID: CMS BFB Injection Time: 16:33

ION ABUNDANCE CRITERIA for C9099 are reported on a separate sheet.

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS

CLIENT I.D.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	DATE ANALYZED
VSTD200	VSTD200	C9100	06/23/95	17:04
VSTD100	VSTD100	C9101	06/23/95	17:39
VSTD050	VSTD050	C9102	06/23/95	18:14
VSTD020	VSTD020	C9103	06/23/95	18:48
VSTD010	VSTD010	C9104	06/23/95	19:23

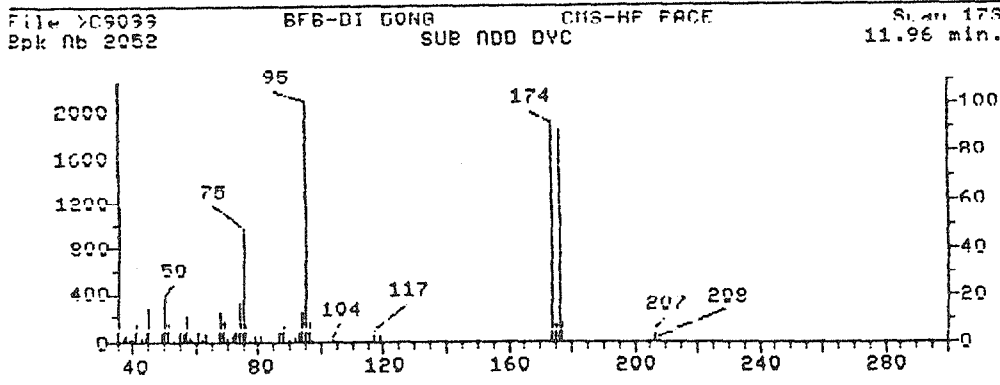
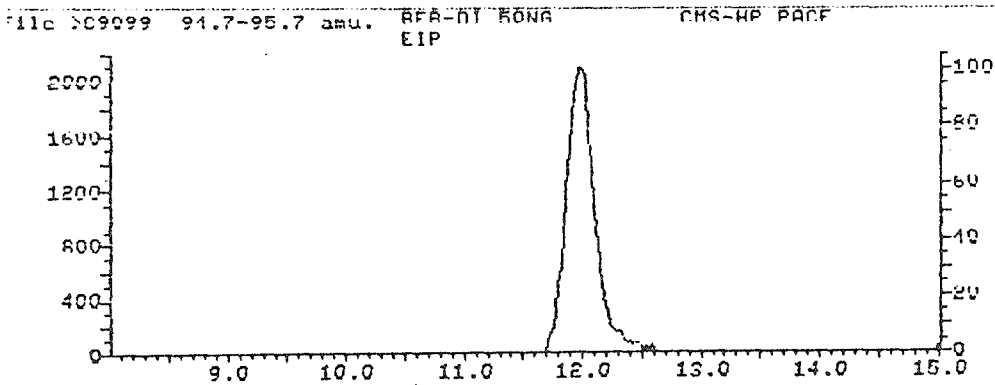
GC/MS PERFORMANCE STANDARD

Bromofluorobenzene (BFB) 'HH

m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	Appropriate Peak	Status
50	15-40% of mass 95	17.24	17.24	OK
75	30-60% of mass 95	45.22	45.22	OK
95	Base peak, 100% relative abundance	100.00	100.00	OK
96	5-9% of mass 95	7.99	7.99	OK
173	less than 2% of mass 174	0.00	0.00	OK
174	Greater than 50% of mass 95	90.59	90.59	OK
175	5-9% of mass 174	6.43	7.10	OK
176	95-101% of mass 174	89.47	98.76	OK
177	5-9% of mass 176	7.26	8.12	OK

Injection Date: 06/23/95
 Injection Time: 16:33
 Data File: >09099
 Scan: 173

THIS IS THE RESULT OF AVERAGING AND SUBTRACTING BACKGROUND SCAN
 172.00 173.00 174.00
 153.00



5A
 VOLATILE ORGANIC GC/MS TUNING AND MASS
 CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: PACE New England Contract:
 Lab Code: RESAN Case No.: OHMRC SAS No.: SDG No.: LJN1A
 Lab File ID: >C9751 BFB Injection Date: 08/11/95
 Instrument ID: CMS BFB Injection Time: 11:04

ION ABUNDANCE CRITERIA for C9751 are reported on a separate sheet.

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS

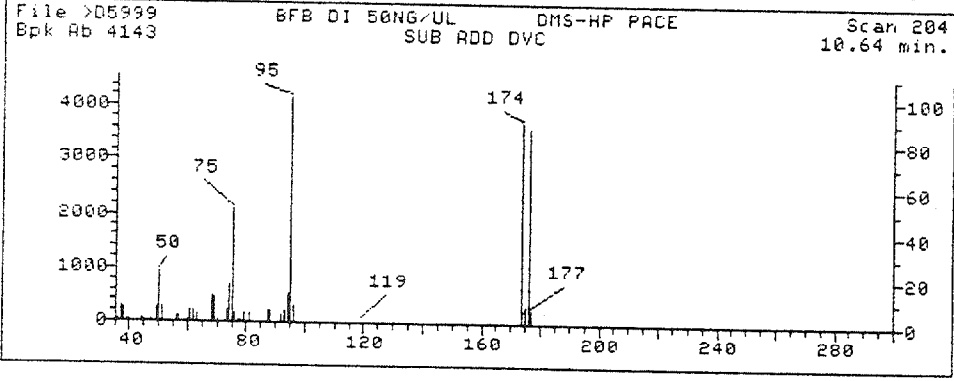
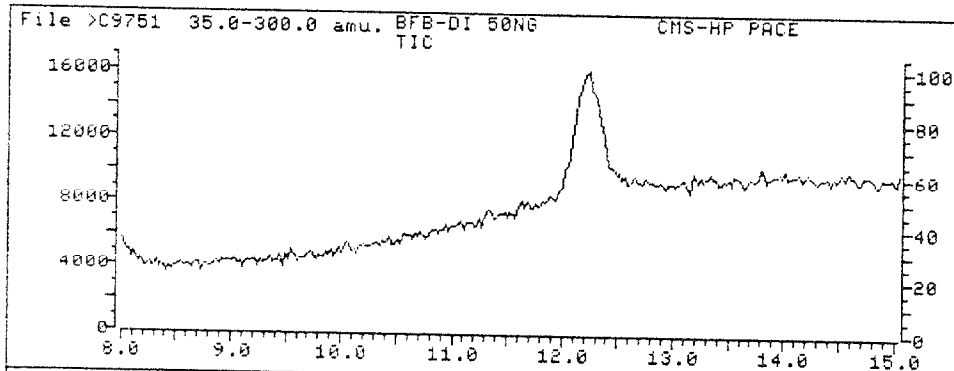
CLIENT I.D.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	DATE ANALYZED
VSTD050	VSTD050	C9753	08/11/95	12:30
BC081195A1	90182-063	C9754	08/11/95	13:05
LCC081195A1	90182-063MS	C9755	08/11/95	13:51
TCLPBLK388 5ML	90182-082	C9756	08/11/95	14:26
CLJ44-CU-016	44914-003	C9758	08/11/95	15:36
CLJ44-CU-018-RB	44914-010	C9760	08/11/95	16:46
CLJ44-CU-019-TB	44914-015	C9761	08/11/95	17:21

GC/MS PERFORMANCE STANDARD

Bromofluorobenzene (BFB) '88

m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	% Relative Abundance Appropriate Peak	Status
50	15-40% of mass 95	18.48	18.48	Ok
75	30-60% of mass 95	56.18	56.18	Ok
95	Base peak, 100% relative abundance	100.00	100.00	Ok
96	5-9% of mass 95	6.84	6.84	Ok
173	Less than 2% of mass 174	0.00	0.00	Ok
174	Greater than 50% of mass 95	95.50	95.50	Ok
175	5-9% of mass 174	7.85	8.21	Ok
176	95-101% of mass 174	96.28	100.81	Ok
177	5-9% of mass 176	7.00	7.27	Ok

Injection Date: 08/11/95
 Injection Time: 11:04
 Data File: >C9751
 Scan: 183



5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: PACE New England Contract:
Lab Code: RESAN Case No.: OHMRC SAS No.: SDG No.: LJN1A
Lab File ID: >C9770 BFB Injection Date: 08/14/95
Instrument ID: CMS BFB Injection Time: 12:44

ION ABUNDANCE CRITERIA for C9770 are reported on a separate sheet.

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS

CLIENT I.D.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	DATE ANALYZED
VSTD050	VSTD050	C9772	08/14/95	13:44
BC081495A1	90182-065	C9773	08/14/95	14:19
TCLPBLK389 5ML	90182-078	C9774	08/14/95	15:05
LCC081495A1	90182-065MS	C9777	08/14/95	17:01
CLJ44-CU-017	44914-007	C9779	08/14/95	18:11

Sum of corrected areas: 28722.

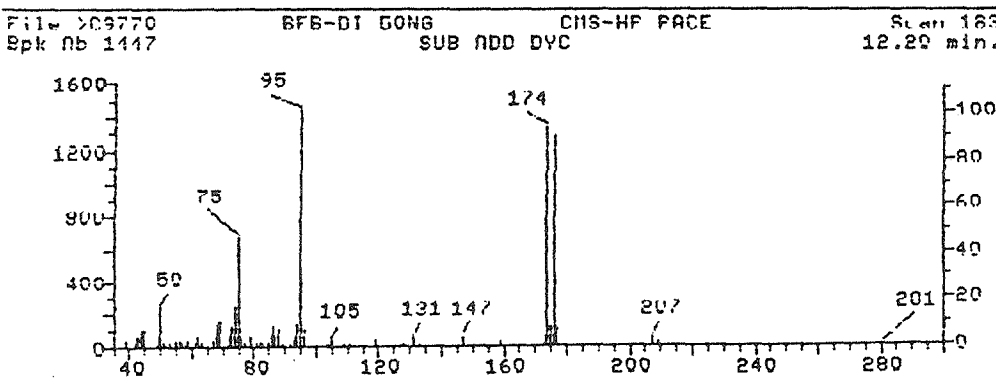
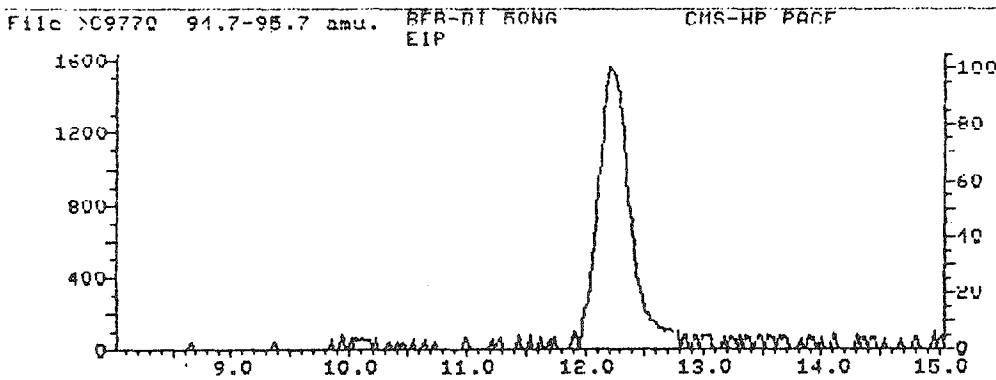
GC/MS PERFORMANCE STANDARD

Bromofluorobenzene (BFB) 'RR

m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	Appropriate Peak	Status
50	15-40% of mass 95	16.54	16.54	OK
75	30-60% of mass 95	46.21	46.21	OK
95	Base peak, 100% relative abundance	100.00	100.00	OK
96	5-9% of mass 95	6.25	6.25	OK
173	Less than 2% of mass 174	.90	.97	OK
174	Greater than 50% of mass 95	93.04	93.04	OK
175	5-9% of mass 174	7.69	8.22	OK
176	95-101% of mass 174	89.29	95.96	OK
177	5-9% of mass 176	7.10	7.95	OK

Injection Date: 08/14/95
Injection Time: 12:44
Data File: >C9770
Scan: 183

THIS IS THE RESULT OF AVERAGING 182.00 183.00 184.00
AND SUBTRACTING BACKGROUND SCAN 163.00



Initial Calibration Data
HSL Compounds

NR
6/26/95

Case No: _____
Contractor: RESAM
Contract No: 60020026

Instrument ID: CHS-HP
Calibration Date: ~~06/26/95~~ 6/23/95
NR
6/26/95
(3)

CC0623 / IC0623

Minimum RF for SPCC is .30 Maximum % RSD for CCC is 30%

Compound	Laboratory ID: >C9104 >C9103 >C9102 >C9101 >C9100					RR1	RF	% RSD	CCC	SPCC
	RF	RF	RF	RF	RF					
C010 CHLOROPETRAHE	.44111	.47892	.43083	.44213	.42666	.214	.44553	4.414	**	✓
C015 BROMOPETRAHE	1.16219	1.20325	1.14649	1.21862	1.20167	.292	1.18644	2.575		
C020 VINYL CHLORIDE	.65743	.73678	.68291	.72002	.69786	.354	.69900	4.443	*	✓
C025 CHLOROPETRAHE	.37753	.44550	.40659	.44271	.44451	.435	.42337	7.177		
C030 METHYLENE CHLORIDE	1.28878	1.17373	1.01633	1.00839	.97652	.626	1.09275	12.231		
C035 ACETONE	.34619	.28659	.16263	.14432	.11643	.718	.21131	42.191	ok	
C040 CARBON DISULFIDE	2.68964	2.83092	2.69218	2.11613	2.72336	.832	2.59445	10.749		
C042 TRICHLOROFLUOROMETHANE	2.59125	2.79585	2.60479	2.64426	2.59431	.896	2.64609	3.263		
C045 1,1-DICHLOROETHENE	.89085	.94021	.91494	.92055	.90566	.980	.91605	1.734	*	✓
C058 TETRAHYDROFURAN	.02735	.02715	.05066	.05617	.05167	1.133	.04260	33.250	ok - no clip	
C050 1,1-DICHLOROETHANE	1.63841	1.75796	1.64674	1.66338	1.59399	1.128	1.66010	3.640	**	✓
C053 1,2-DICHLOROETHENE (total)	1.03216	1.10286	1.06407	1.08872	1.05839	1.225	1.06924	2.573		(Conc=20.0, 40.0, 100.0, 200)
C060 CHLOROFORM	2.59660	2.72050	2.53178	2.55614	2.44103	1.278	2.56921	3.971	*	✓
C110 2-BUTANONE	.42552	.38522	.27731	.28076	.22415	1.405	.31859	26.227	ok	
C065 1,2-DICHLOROETHANE	1.54349	1.54943	1.53859	1.56006	1.45559	1.388	1.52943	2.749		
MTBE	1.01306	1.01258	1.70064	1.69466	1.51541	1.549	1.70727	7.132		
C515 1,2-DICHLOROETHANE-d4	1.50326	1.39407	1.35789	1.36355	1.25332	1.375	1.37442	6.512		
C115 1,1,1-TRICHLOROETHANE	.69839	.72645	.69731	.69466	.69962	.639	.70329	1.859		
C120 CARBON TETRACHLORIDE	.72352	.74585	.71789	.70999	.72995	.660	.72544	1.870		
C125 VINYL ACETATE	.49945	.43341	.42886	.41222	.38742	.681	.43227	9.636		
C130 BROMODICHLOROETHANE	.84039	.80884	.79241	.77807	.79210	.682	.80236	2.977		
C140 1,2-DICHLOROPROPANE	.29110	.29789	.27865	.28285	.27668	.768	.28543	3.117	*	✓
C143 CIS-1,3-DICHLOROPROPENE	.48081	.47282	.46907	.47801	.47853	.780	.47585	1.006		
C150 TRICHLOROETHENE	.47278	.48281	.48008	.45509	.45917	.818	.46999	2.634		
C155 DIBROMOCHLOROETHANE	.82091	.79930	.77186	.77017	.76601	.836	.78565	3.016		
C160 1,1,2-TRICHLOROETHANE	.35377	.34425	.32595	.32092	.29906	.849	.32919	6.655		
C165 BENZENE	.74143	.73148	.70580	.70061	.68233	.854	.71233	3.362		
C172 TRANS-1,3-DICHLOROPROPENE	.45094	.44416	.43799	.44579	.44169	.853	.44411	1.085		
C176 2-CHLOROETHYL VINYL ETHER	.11279	.11512	.11643	.12513	.12206	.920	.11831	4.325		
C180 BROMOFORM	.67840	.67970	.66705	.62931	.62601	.987	.65609	4.031	**	✓

RF - Response Factor (Subscript is amount in ug/L)

RR1 - Average Relative Retention Time (RT Std/RT Istd)

RF - Average Response Factor

XRSD - Percent Relative Standard Deviation

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

Initial Calibration Data
HSL Compounds

Case No: _____ Instrument ID: CMS-HP

Contractor: RESAH

Calibration Date: ~~06/26/95~~ 6/23/95

Contract No: 68020026

MIC
6/26/95
①

CC0623 / IC0623

Minimum RF for SPCC is .30 Maximum % RSD for CCC is 30%

Compound	Laboratory ID: >C9104 >C9103 >C9102 >C9101 >C9100					RR1	RF	% RSD	CCC	SPCC
	RF	RF	RF	RF	RF					
C505 TOLUENE-d8	1.03191	1.01040	.96869	.98472	.94411	.950	.98797	3.484		
C205 4-METHYL-2-PENTANONE	.31566	.27172	.23076	.23245	.20627	.814	.25137	17.068		
C210 2-HEXANONE	.19333	.19267	.16894	.15660	.13748	.884	.16980	14.111		
C220 TETRACHLOROETHENE	.55657	.60396	.56390	.57770	.56904	.895	.57423	3.189		
C225 1,1,2,2-TETRACHLOROETHANE	.61589	.59586	.56297	.57818	.54269	.883	.57912	4.900	**	✓
C230 TOLUENE	1.09937	1.12361	1.08256	1.09458	1.06627	.959	1.09328	1.942	**	✓
C235 CHLOROBENZENE	.95413	.99569	.94105	.92963	.92169	1.005	.94844	3.069	**	✓
C240 ETHYLBENZENE	.43746	.44906	.42847	.44287	.42954	1.088	.43748	2.004	**	✓
C245 STYRENE	.95027	.94350	.88876	.89022	.86434	1.207	.90742	4.137		
C251 XYLENE	.54129	.54229	.52494	.50758	.49606	1.216	.52243	3.914		
C250 XYLENE (total)	.55102	.55236	.52631	.51593	.50162	1.241	.52945	4.178		
C510 BROMOFLUOROBENZENE	1.04312	.93476	.89359	.88607	.83735	1.164	.91898	8.438		

(Conc=20.0, 40.0, 100.0, 200)

- RF - Response factor (Subscript is amount in ug/L)
- RR1 - Average Relative Retention Time (RT Std/RT 1std)
- RF - Average Response Factor
- XRSD - Percent Relative Standard Deviation
- CCC - Calibration Check Compounds (*) SPEC - System Performance Check Compounds (**)

Continuing Calibration Check
HSL Compounds

IC0811

Case No: _____ Calibration Date: 08/11/95
 Contractor: RESAN Time: 12:30
 Contract No: 68020026 Laboratory ID: >C9753
 Instrument ID: CMS-HP Initial Calibration Date: 06/26/95

Minimum \overline{RF} for SPCC is .30

Maximum % Diff for CCC is 25%

Compound	\overline{RF}	RF	%Diff	CCC	SPCC
C010 CHLOROMETHANE	.44553	.40595	8.88		**
C015 BROMOMETHANE	1.18644	1.05038	11.47		
C020 VINYL CHLORIDE	.69900	.62797	10.16	*	
C025 CHLOROETHANE	.42337	.40296	4.82		
C030 METHYLENE CHLORIDE	1.09275	1.03589	5.20		
C035 ACETONE	.21131	.18478	12.55		
C040 CARBON DISULFIDE	2.59445	1.98810	23.37		
C042 TRICHLOROFLUOROMETHANE	2.64609	2.34800	11.27		
C045 1,1-DICHLOROETHENE	.91605	.83468	8.88	*	
C058 TETRAHYDROFURAN	.04260	.05557	30.44		
C050 1,1-DICHLOROETHANE	1.66010	1.58238	4.68		**
C053 1,2-DICHLOROETHENE (total)	1.06924	.96048	10.17		(Conc=100.00)
C060 CHLOROFORM	2.56921	2.47631	3.62	*	
C110 2-BUTANONE	.31859	.32136	.87		
C065 1,2-DICHLOROETHANE	1.52943	1.50147	1.83		
MTBE	1.70727	1.72217	.87		(Conc=50.00)
CS15 1,2-DICHLOROETHANE-d4	1.37442	1.40992	2.58		
C115 1,1,1-TRICHLOROETHANE	.70329	.67527	3.98		
C120 CARBON TETRACHLORIDE	.72544	.66744	7.99		
C125 VINYL ACETATE	.43227	.41241	4.59		
C130 BROMODICHLOROMETHANE	.80236	.78938	1.62		
C140 1,2-DICHLOROPROPANE	.28543	.27813	2.56	*	
C143 CIS-1,3-DICHLOROPROPENE	.47585	.46550	2.18		(Conc=50.00)
C150 TRICHLOROETHENE	.46999	.45227	3.77		
C155 DIBROMOCHLOROMETHANE	.78565	.76045	3.21		
C160 1,1,2-TRICHLOROETHANE	.32919	.33397	1.45		
C165 BENZENE	.71233	.70035	1.68		
C172 TRANS-1,3-DICHLOROPROPENE	.44411	.42695	3.86		(Conc=50.00)
C176 2-CHLOROETHYL VINYLETHER	.11831	.10557	10.77		
C180 BROMOFORM	.65609	.60099	8.40		**
CS05 TOLUENE-d8	.98797	.91624	7.26		
C205 4-METHYL-2-PENTANONE	.25137	.24988	.59		

RF - Response Factor from daily standard file at 50.00 ug/L

\overline{RF} - Average Response Factor from Initial Calibration Form VI

%Diff - % Difference from original average or curve

Continuing Calibration Check
HSL Compounds

Case No: _____	Calibration Date: 08/11/95
Contractor: RESAN	Time: 12:30
Contract No: 68020026	Laboratory ID: >C9753
Instrument ID: CMS-HP	Initial Calibration Date: 06/26/95

Minimum RF for SPCC is .30

Maximum % Diff for CCC is 25%

Compound	RF	RF	%Diff	CCC	SPCC
C210 2-HEXANONE	.16980	.14451	14.90		
C220 TETRACHLOROETHENE	.57423	.50101	12.75		
C225 1,1,2,2-TETRACHLOROETHANE	.57912	.52914	8.63		**
C230 TOLUENE	1.09328	.96321	11.90	*	
C235 CHLOROBENZENE	.94844	.84785	10.61		**
C240 ETHYLBENZENE	.43748	.39812	9.00	*	
C245 STYRENE	.90742	.79508	12.38		
C251 XYLENE	.52243	.46171	11.62		
C250 XYLENE (total)	.52945	.46892	11.43		(Conc=100.00)
CS10 BROMOFLUOROBENZENE	.91898	.90400	1.63		

Continuing Calibration Check
HSL Compounds

IC0814

Case No: _____

Calibration Date: 08/14/95

Contractor: RESAN

Time: 13:44

Contract No: 68020026

Laboratory ID: >C9772

Instrument ID: CMS-HP

Initial Calibration Date: 06/26/95

Minimum RF for SPCC is .30

Maximum % Diff for CCC is 25%

Compound	RF	RF	%Diff	CCC	SPCC
C010 CHLOROMETHANE	.44553	.49290	10.63		**
C015 BROMOMETHANE	1.18644	1.20335	1.42		
C020 VINYL CHLORIDE	.69900	.70764	1.24	*	
C025 CHLOROETHANE	.42337	.42894	1.32		
C030 METHYLENE CHLORIDE	1.09275	1.05440	3.51		
C035 ACETONE	.21131	.15913	24.69		
C040 CARBON DISULFIDE	2.59445	2.48122	4.36		
C042 TRICHLOROFLUOROMETHANE	2.64609	2.50054	5.50		
C045 1,1-DICHLOROETHENE	.91605	.94344	2.99	*	
C058 TETRAHYDROFURAN	.04260	.06341	48.86		
C050 1,1-DICHLOROETHANE	1.66010	1.64388	.98		**
C053 1,2-DICHLOROETHENE (total)	1.06924	1.09171	2.10		(Conc=100.00)
C060 CHLOROFORM	2.56921	2.56532	.15	*	
C110 2-BUTANONE	.31859	.33143	4.03		
C065 1,2-DICHLOROETHANE	1.52943	1.59754	4.45		
MTBE	1.70727	1.94910	14.16		(Conc=50.00)
CS15 1,2-DICHLOROETHANE-d4	1.37442	1.36900	.39		
C115 1,1,1-TRICHLOROETHANE	.70329	.66098	6.01		
C120 CARBON TETRACHLORIDE	.72544	.66124	8.85		
C125 VINYL ACETATE	.43227	.41676	3.59		
C130 BROMODICHLOROMETHANE	.80236	.79438	.99		
C140 1,2-DICHLOROPROPANE	.28543	.27186	4.75	*	
C143 CIS-1,3-DICHLOROPROPENE	.47585	.48013	.90		(Conc=50.00)
C150 TRICHLOROETHENE	.46999	.46835	.35		
C155 DIBROMOCHLOROMETHANE	.78565	.77019	1.97		
C160 1,1,2-TRICHLOROETHANE	.32919	.33066	.45		
C165 BENZENE	.71233	.69897	1.87		
C172 TRANS-1,3-DICHLOROPROPENE	.44411	.44501	.20		(Conc=50.00)
C176 2-CHLOROETHYL VINYLETHER	.11831	.12562	6.18		
C180 BROMOFORM	.65609	.64325	1.96		**
CS05 TOLUENE-d8	.98797	.89456	9.45		
C205 4-METHYL-2-PENTANONE	.25137	.25542	1.61		

RF - Response Factor from daily standard file at 50.00 ug/L

RF - Average Response Factor from Initial Calibration Form VI

%Diff - % Difference from original average or curve

Continuing Calibration Check
HSL Compounds

Case No: _____ Calibration Date: 08/14/95
 Contractor: RESAN _____ Time: 13:44
 Contract No: 68020026 _____ Laboratory ID: >C9772
 Instrument ID: CMS-HP _____ Initial Calibration Date: 06/26/95

Minimum \overline{RF} for SPCC is .30

Maximum % Diff for CCC is 25%

Compound	\overline{RF}	RF	%Diff	CCC	SPCC
C210 2-HEXANONE	.16980	.17560	3.41		
C220 TETRACHLOROETHENE	.57423	.52738	8.16		
C225 1,1,2,2-TETRACHLOROETHANE	.57912	.57347	.97		**
C230 TOLUENE	1.09328	1.04296	4.60	*	
C235 CHLOROBENZENE	.94844	.90207	4.89		**
C240 ETHYLBENZENE	.43748	.42088	3.79	*	
C245 STYRENE	.90742	.85821	5.42		
C251 XYLENE	.52243	.49407	5.43		
C250 XYLENE (total)	.52945	.48726	7.97		(Conc=100.00)
CS10 BROMOFLUOROBENZENE	.91898	.89628	2.47		

8A

VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: PACE New England

Contract:

Lab Code: RESAN Case No.: OHMRC

SAS No.:

SDG No.: LUN1A

Lab File ID (Standard): >C9753

Date Analyzed: 08/11/95

Instrument ID: CMS

Time Analyzed: 12:30

	IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	70943	7.30	237048	17.87	202271	22.68
=====	=====	=====	=====	=====	=====	=====
UPPER LIMIT	141886	7.80	474096	18.37	404542	23.18
=====	=====	=====	=====	=====	=====	=====
LOWER LIMIT	35472	6.80	118524	17.37	101136	22.18
=====	=====	=====	=====	=====	=====	=====
CLIENT I.D.						
=====	=====	=====	=====	=====	=====	=====
BC081195A1	63710	7.32	213519	17.88	189244	22.73
LCC081195A1	54014	7.30	188000	17.86	162008	22.70
TCLPBLK388 5ML	59588	7.36	210935	17.89	186096	22.70
CLJ44-CU-016	59218	7.28	223263	17.89	201858	22.69
CLJ44-CU-018-RB	65011	7.27	224908	17.88	209383	22.69
CLJ44-CU-019-TB	66506	7.34	231321	17.88	199011	22.71

IS1 (BCM) = Bromochloromethane
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CBZ) = Chlorobenzene

UPPER LIMIT = + 100%
 of internal standard area.
 LOWER LIMIT = - 50%

Column used to flag internal standard area values outside of
 UPPER and LOWER LIMIT with an asterisk



VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: PACE New England

Contract:

Lab Code: RESAN Case No.: OHMRC

SAS No.:

SDG No.: LJNI1A

Lab File ID (Standard): >C9772

Date Analyzed: 08/14/95

Instrument ID: CMS

Time Analyzed: 13:44

	IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	73756	7.25	268303	17.87	223786	22.68
=====	=====	=====	=====	=====	=====	=====
UPPER LIMIT	147512	7.75	536606	18.37	447572	23.18
=====	=====	=====	=====	=====	=====	=====
LOWER LIMIT	36878	6.75	134152	17.37	111893	22.18
=====	=====	=====	=====	=====	=====	=====
CLIENT I.D.						
=====	=====	=====	=====	=====	=====	=====
BC081495A1	73246	7.31	254765	17.89	217753	22.70
TCLPBLK389 5ML	70932	7.30	247754	17.86	209535	22.69
LCC081495A1	62691	7.27	216712	17.88	195656	22.67
CLJ44-CU-017	63125	7.28	217185	17.87	189445	22.68

IS1 (BCM) = Bromochloromethane
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CBZ) = Chlorobenzene

UPPER LIMIT = + 100%
 of internal standard area.
 LOWER LIMIT = - 50%

Column used to flag internal standard area values outside of
 UPPER and LOWER LIMIT with an asterisk

64.5pt
150

Voltage = 1675

PACE New England

TGN

0619957CN

GCMS/VOA

Instr CMS-HP Analyst/Date TRC 4/23/95 STD Lot # V-621A

FRN	REV	ID File	Tube	SAMPLE	AMT	COMMENTS	pH	A	R
207099	#	-	-	BFB-DI	50ng	m+r1 m/1295 = 3512 OK 188 + '91 V-6088			4
				Scow: 172+173 +174-153 time: 1633					
209100		IC0623	1	VSTD000	5mls	IC0623/CC0623			4
	01		2	VSTD100		OK 188 + '91			4
	02		3	VSTD050					4
	03		4	VSTD020					4
	04		5	VSTD010		m2=C7 m3=C13 m2=C36			4
	05	IC0423	6	PC002395A		VBLKCM			4
	06		7	LC0062395					4
	07		8	TCCPBlank2381					4
	08		9	44,349-2		(R624(TCCP))			4
	09		10	48,769-23		WP034			4
	10		1	-24					4
	11		2	-25		re for DCBS			4
	12		3	-26	✓	↓			4
	13		✓	BAKE					4

TRC 4/23/95

CLP

VOLTAGE = 1725
624/8240 + EDB
MSC8AM

PACE New England

GCMS/VOA

Instr CMS-HP Analyst/Date TU 8/14/15

STD Lot # V-63503 ^{g1145764}

FRN	Acq	ID File	Tube	SAMPLE	AMT	COMMENTS	pH	A	R
>C9749	8478	-	-	BFB-DI	50ng			N	
50		-	-	BFB-DI	50ng			N	
51		-	-	BFB-DI	50ng	MTU 1 ME 95 = 29K '91 + (88 - @ C9751)		✓	✓
				TIME: 11:04					
				SCAN: 183 + 184 + 185 -	138				
>C9752	ICE623		1	VSTD 050 + EDB	5ml	NOT USED		N	
53			2	VSTD 050 + EDB	↓	C-12 (11) 8/14/15 C-31 (11) 8/14/15		✓	✓
54	IC0811		3	BC081195A1	↓	VBLK CZ		✓	✓
>C9755			4	LCC081195A1	5ml	V-6349		✓	
56			5	TCLP BLK 388	5ml	(R6247CLP)	>2	✓	✓
57			6	44913-9		CLJ44-CC-022 ^{SP10} V-8/11 *		✓	✓
58			7	44914-3		CLJ44-CU-016		✓	✓
59			8	-7		CLJ44-CU-017 ^{LOW S/N} P. 86		✓	✓
60			9	-10		CLJ44-CU-018- RB	✓	✓	✓
61			10	-15		(R8240) CLJ44-CU-019- TB	<2	✓	✓
62			1	44910-15MS		26169 (R9100A) 26122 V-6349	↓	✓	✓
63			2	-15MSD	↓	↓ M2=C26 ↓		✓	✓
64			3	BV1118 D	WME	(R8240)		✓	✓
65			4	44897-27	SOME	CLJ44-CU-025 ^{Verks 8/14/15} LJN091P		✓	✓
66			5	-27 MS	↓	M2=C45 ↓		✓	✓
67			6	BLANK	5ml			✓	✓
68			7	44897-27MS	SOME	CLJ44-CU-025 ⁽²⁶⁾ LJN09		✓	✓
69			8	BAKE -				✓	✓
70			9			M2=C45		✓	✓

VOLTAGE = 1725
 624/8/10
 MSCSAM

PACE New England

GCMS/VOA

Instr CMS-HP

Analyst/Date

PK
7/15/95

STD Lot # V-4369A

081495ALP

FRN	Acq	ID File	Tube	SAMPLE	AMT	COMMENTS	pH	A	R
>C9770	471	-	-	BFB - DI	50ug	MTN 1 1/2 95 = 29K			✓
				TIME: 12:44					
				SCAN: 182-183-184-163		'88 291			
>C9771		IC0813	1	USD050	5ml	NOT USED			N
72			2	USD050	↓	0-13 H3			✓
73		IC0814	3	BC081495A1	↓	V BLKCA			✓
74			5	TCLP BLK 389	5ml	(P624TCLP)	22		✓
75			6	44929-12	↓	CLJ44-CC-027 V-8111 LSN012	22		✓
76			7	-14	↓	CLJ44-CC-027D ↓	22		✓
77			84	LCC081495A1	5ml	V-6367			✓
78		ICE814	5	EDB 90050	↓				4
79		IC0814	6	44914-7	↓	CLJ44-CC-017 LSN1A V-8115	22		4-✓
80		ICE814	7	44942-1	600ul	(R624TCLP) 26175 RE 12-25013	22		N
81			8	-2	5ml	26172			4-✓
82			9	-295	↓	V-6367			4-✓
83			10	-200	↓	↓			4-✓
84			1	-3	↓	25012			4-✓
85			2	-4	↓	26174 RE 2mls			4-✓
86			3	-5	↓	25499			4-✓
87		IC0814	4	44989-17	5ml	(R624TCLP)	22		4-✓
88			5	-18	↓	↓			4-✓
89			6	-19	↓	↓			4-✓
90		IC0814	7	44942 HB	5ml	HOLDING BLANK HB44942			N
91				BAKE		out of window			
91		ICE814	8	44942-1	1.2ml	26175 25013 out of window	22		N
92				BAKE		RE 1.2mls			

PK
7/15/95

TOXICITY CHARACTERISTIC LEACHING PROCEDURE (1)
EXTRACTION FOR NON-VOLATILE CONSTITUENTS

Laboratory Number : 44914-003
Field Identification : CLJ44-CU-016
Extraction Date : 08/09/95
TCLP Blank : 90,001-274

Sample description : NON-HOMOGENEOUS GRANULAR SOIL

Extraction Fluid Selection (1,2):

A 5.0 gm portion of the sample was stirred with 96.5 mL deionized water. The pH at the end of 5 minutes was 6.41. 3.5 mL 1.0N HCl was added and the mixture was then heated to 50C for ten minutes. Upon cooling the pH was 1.69, therefore Extraction Fluid #1 was used.

Sample Preparation (1):

Since the sample contained no free liquid, it was not filtered before extraction. 100 gm of sample was added to the extractor with 2000 mL Extraction Fluid #1.

Extraction Time : 17.00 hrs

Final pH : 5.27

% Solids as defined in method : 100

References:

1. 40 CFR Part 261, Appendix II, Nov. 24, 1992
2. Extraction Fluid: 0.57% by volume glacial acetic acid to which 0.1N NaOH has been added to yield a pH of 4.93 +/- 0.05.

Laboratory number: 44914-003
Sample Designation: CLJ44-CU-016
Date Extracted: 08/10/95
Date Analyzed: 08/11/95
Matrix: TCLP EXTRACT

Instrument File Name: >H8785

Parameter	Result (mg/L)	Regulatory Limit (mg/L)	Reporting Limit (mg/L)
-----	-----	-----	-----
Pyridine	BDL	5.0	0.05
1,4-Dichlorobenzene	BDL	7.5	0.05
2,4-Dinitrotoluene	BDL	0.13	0.05
2-Methylphenol	BDL	200	0.05
3,4-Methylphenols	BDL	200	0.05
Hexachloroethane	BDL	3.0	0.05
Nitrobenzene	BDL	2.0	0.05
Hexachlorobenzene	BDL	0.13	0.05
Pentachlorophenol	BDL	100	0.05
Hexachlorobutadiene	BDL	0.5	0.05
2,4,6-Trichlorophenol	BDL	2.0	0.05
2,4,5-Trichlorophenol	BDL	400	0.05

METHOD REFERENCE: EPA SW846, 3rd Edition
METHOD 8270

BDL = Below reporting limit

TOXICITY CHARACTERISTIC LEACHING PROCEDURE (1)
EXTRACTION FOR NON-VOLATILE CONSTITUENTS

Laboratory Number : 44914-007
Field Identification : CLJ44-CU-017
Extraction Date : 08/09/95
TCLP Blank : 90,001-274

Sample description : NON-HOMOGENEOUS GRANULAR SOIL

Extraction Fluid Selection (1,2):

A 5.0 gm portion of the sample was stirred with 96.5 mL deionized water. The pH at the end of 5 minutes was 8.14. 3.5 mL 1.0N HCl was added and the mixture was then heated to 50C for ten minutes. Upon cooling the pH was 2.47, therefore Extraction Fluid #1 was used.

Sample Preparation (1):

Since the sample contained no free liquid, it was not filtered before extraction. 100 gm of sample was added to the extractor with 2000 mL Extraction Fluid #1.

Extraction Time : 17.00 hrs

Final pH : 5.41

% Solids as defined in method : 100

References:

1. 40 CFR Part 261, Appendix II, Nov. 24, 1992
2. Extraction Fluid: 0.57% by volume glacial acetic acid to which 0.1N NaOH has been added to yield a pH of 4.93 +/- 0.05.

Laboratory number: 44914-007
Sample Designation: CLJ44-CU-017
Date Extracted: 08/10/95
Date Analyzed: 08/11/95
Matrix: TCLP EXTRACT

Instrument File Name: >H8786

Parameter	Result (mg/L)	Regulatory Limit (mg/L)	Reporting Limit (mg/L)
Pyridine	BDL	5.0	0.05
1,4-Dichlorobenzene	BDL	7.5	0.05
2,4-Dinitrotoluene	BDL	0.13	0.05
2-Methylphenol	BDL	200	0.05
3,4-Methylphenols	BDL	200	0.05
Hexachloroethane	BDL	3.0	0.05
Nitrobenzene	BDL	2.0	0.05
Hexachlorobenzene	BDL	0.13	0.05
Pentachlorophenol	BDL	100	0.05
Hexachlorobutadiene	BDL	0.5	0.05
2,4,6-Trichlorophenol	BDL	2.0	0.05
2,4,5-Trichlorophenol	BDL	400	0.05

METHOD REFERENCE: EPA SW846, 3rd Edition
METHOD 8270

BDL = Below reporting limit

Laboratory number: 44914-012
Sample Designation: CLJ44-CU-018-RB
Date Extracted: 08/10/95
Date Analyzed: 08/11/95
Matrix: WATER

Instrument File Name: >H8787

Parameter	Result (mg/L)	Regulatory Limit (mg/L)	Reporting Limit (mg/L)
Pyridine	BDL	5.0	0.05
1,4-Dichlorobenzene	BDL	7.5	0.05
2,4-Dinitrotoluene	BDL	0.13	0.05
2-Methylphenol	BDL	200	0.05
3,4-Methylphenols	BDL	200	0.05
Hexachloroethane	BDL	3.0	0.05
Nitrobenzene	BDL	2.0	0.05
Hexachlorobenzene	BDL	0.13	0.05
Pentachlorophenol	BDL	100	0.05
Hexachlorobutadiene	BDL	0.5	0.05
2,4,6-Trichlorophenol	BDL	2.0	0.05
2,4,5-Trichlorophenol	BDL	400	0.05

METHOD REFERENCE: EPA SW846, 3rd Edition
METHOD 8270

BDL = Below reporting limit

WATER SEMIVOLATILES SURROGATE RECOVERY

Client: OHM REMEDIATION SERVICES CORP.
 Project: CAMP LEJEUNE/LJN1A

Lab No.: 44914

CLIENT SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 (PHL) #	S5 (2FP) #	S6 (TBP) #	OTHER	TOT OUT
CLJ44-CU-016	71	76	67	63	61	74		0
CLJ44-CU-017	62	68	61	58	55	67		0
CLJ44-CU-018-RB	64	69	53	57	56	68		0
B-A2398	62	68	59	59	55	63		0
TCLP BLANK #274	76	79	79	71	69	76		0

QC LIMITS

- S1 (NBZ) = Nitrobenzene-d5 35 - 114
- S2 (FBP) = 2-Fluorobiphenyl 43 - 116
- S3 (TPH) = Terphenyl-d14 33 - 141
- S4 (PHL) = Phenol-d5 10 - 110
- S5 (2FP) = 2-Fluorophenol 21 - 110
- S6 (TBP) = 2,4,6-Tribromophenol 10 - 123

Column to be used to flag recovery values with an asterisk
 * Values outside of designated QC limits
 D Surrogates diluted out



Laboratory number: TCLP BLANK #274
Sample Designation: TCLP BLANK
Date Analyzed: 08/18/95
Matrix: TCLP EXTRACT

Parameter	Result (ug/L)	Regulatory Limit (ug/L)	Detection Limit (ug/L)
Pyridine	BDL	5000	56
1,4-Dichlorobenzene	BDL	7500	56
2,4-Dinitrotoluene	BDL	130	56
2-Methylphenol	BDL	200000	56
3,4-Methylphenols	BDL	200000	56
Hexachloroethane	BDL	3000	56
Nitrobenzene	BDL	2000	56
Hexachlorobenzene	BDL	130	56
Pentachlorophenol	BDL	100000	56
Hexachlorobutadiene	BDL	500	56
2,4,6-Trichlorophenol	BDL	2000	56
2,4,5-Trichlorophenol	BDL	400000	56

METHOD REFERENCE: EPA SW 846, 3RD EDITION
METHOD 8270

BDL = Below detection limit

Laboratory number: B-A2398
 Sample Designation: LABORATORY BLANK
 Date Analyzed: 08/11/95
 Matrix: WATER

ACID/BASE/NEUTRAL EXTRACTABLES	CONCENTRATION (ug/L)	DETECTION	ACID/BASE/NEUTRAL EXTRACTABLES	CONCENTRATION (ug/L)	DETECTION
		LIMIT (ug/L)			LIMIT (ug/L)
N-Nitrosodimethylamine	BDL	10	3-Nitroaniline	BDL	50
Phenol	BDL	10	Acenaphthene	BDL	10
Aniline	BDL	10	2,4-Dinitrophenol	BDL	50
Bis(2-chloroethyl)ether	BDL	10	4-Nitrophenol	BDL	50
2-Chlorophenol	BDL	10	Dibenzofuran	BDL	10
1,3-Dichlorobenzene	BDL	10	2,4-Dinitrotoluene	BDL	10
1,4-Dichlorobenzene	BDL	10	Diethylphthalate	BDL	10
Benzylalcohol	BDL	10	4-Chlorophenyl-phenylether	BDL	10
1,2-Dichlorobenzene	BDL	10	Fluorene	BDL	10
2-Methylphenol	BDL	10	4-Nitroaniline	BDL	50
Bis(2-chloroisopropyl)ether	BDL	10	4,6-Dinitro-2-methylphenol	BDL	50
4-Methylphenol	BDL	10	N-Nitrosodiphenylamine	BDL	10
N-Nitroso-di-N-propylamine	BDL	10	Azobenzene	BDL	10
Hexachloroethane	BDL	10	4-Bromophenyl-phenylether	BDL	10
Nitrobenzene	BDL	10	Hexachlorobenzene	BDL	10
Isophorone	BDL	10	Pentachlorophenol	BDL	10
2-Nitrophenol	BDL	10	Phenanthrene	BDL	10
2,4-Dimethylphenol	BDL	10	Anthracene	BDL	10
Benzoic acid	BDL	50	Di-N-butylphthalate	BDL	10
Bis(2-chloroethoxy)methane	BDL	10	Fluoranthene	BDL	10
2,4-Dichlorophenol	BDL	10	Benzidine	BDL	50
1,2,4-Trichlorobenzene	BDL	10	Pyrene	BDL	10
Naphthalene	BDL	10	Butylbenzylphthalate	BDL	10
4-Chloroaniline	BDL	10	3,3'-Dichlorobenzidine	BDL	20
Hexachlorobutadiene	BDL	10	Benzo(A)anthracene	BDL	10
4-Chloro-3-methylphenol	BDL	10	Chrysene	BDL	10
2-Methylnaphthalene	BDL	10	Bis(2-ethylhexyl)phthalate	BDL	10
Hexachlorocyclopentadiene	BDL	10	Di-N-octylphthalate	BDL	10
2,4,6-Trichlorophenol	BDL	10	Benzo(B)fluoranthene	BDL	10
2,4,5-Trichlorophenol	BDL	50	Benzo(K)fluoranthene	BDL	10
2-Chloronaphthalene	BDL	10	Benzo(A)pyrene	BDL	10
2-Nitroaniline	BDL	50	Ideno(1,2,3,-CD)pyrene	BDL	10
Dimethylphthalate	BDL	10	Dibenz(A,H)anthracene	BDL	10
Acenaphthylene	BDL	10	Benzo(G,H,I)perylene	BDL	10
2,6-Dinitrotoluene	BDL	10			

METHOD REFERENCE: EPA SW 846, 3RD EDITION
 METHOD 8270

BDL = Below detection limit

MATRIX SPIKE RECOVERY
ACID/BASE/NEUTRAL EXTRACTABLE ORGANIC COMPOUNDS

Laboratory Number: LS-A2398
Sample Designation: LABORATORY CONTROL SAMPLE
Date Analyzed: 08/11/95
Matrix: WATER

COMPOUND	ug/L IN SAMPLE	ug/L SPIKE	ug/L FOUND	%REC- OVERY
PHENOL	0	200	112	56
2-CHLOROPHENOL	0	200	126	63
1,4-DICHLOROBENZENE	0	100	55	55
N-NITROSO-DI-N-PROPYLAMINE	0	100	64	64
1,2,4-TRICHLOROBENZENE	0	100	62	62
4-CHLORO-3-METHYLPHENOL	0	200	133	67
ACENAPHTHENE	0	100	67	67
4-NITROPHENOL	0	200	125	63
2,4-DINITROTOLUENE	0	100	66	66
PENTACHLOROPHENOL	0	200	130	65
PYRENE	0	100	59	59

METHOD REFERENCE: EPA SW 846, 3rd Edition
METHOD 8270

REVIEWED BY
JUN 08/21/95

PACE INCORPORATED
 Organics Extraction
 AQUEOUS PREP LOG

PROTOCOL: EPA SW846

LOG BOOK NO: 3

SOP #: QA5514

METHOD: CONT/3520 SEPF/3510

MATRIX: AQUEOUS

TCIP
 Neutral
 LCS
 MS/MSD

TEST / LEVEL: ABN /

COUNT	DATE/INIT	BLANK/SPIKES SAMPLE #	LCS MS/MSD	SURR # AMT/CONC	INIT VOL (L)	SPIKE # AMT/CONC	INTER VOL (ml)	ALIQ VOL (ml)	FINAL VOL (mL)	SPECIAL CLEAN-UP	QUATRO DATE/INIT
	8/10/95	BA 2398	1.0	LSA 2398 2.500g		N/A	10.0	10.0	1.0	N/A	JGL JGL 6/11/95
		LSA 2398	1.0	160ppm 200ppm	LSA 2398	E1514 1.000g					
13		44913-9	200ml			N/A					
14		44914-3									
15		-7									
16		44853-2									
17		44898-11									
18		44914-12									
<p>JUN 8 PM</p> <p>8-11-95</p>											

COMMENTS: * F = Florisil; G = GPC; S = Sulfur

5B
 SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS
 CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: PACE New England Contract:
 Lab Code: RESAN Case No.: OHMRC SAS No.: SDG No.: LJN1A
 Lab File ID: >H8752 DFTPP Injection Date: 08/10/95
 Instrument ID: HMS DFTPP Injection Time: 08:39

ION ABUNDANCE CRITERIA for H8752 are reported on a separate sheet.

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS

CLIENT I.D.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	DATE ANALYZED
=====	=====	=====	=====	=====
ABNSTD160	ABNSTD160	H8754	08/10/95	08:55
ABNSTD120	ABNSTD120	H8755	08/10/95	09:30
ABNSTD080	ABNSTD080	H8756	08/10/95	10:05
ABNSTD050	ABNSTD050	H8757	08/10/95	10:39
ABNSTD020	ABNSTD020	H8758	08/10/95	11:14

GC/MS PERFORMANCE STANDARD

Decafluorotriphenylphospine (DFTPP)

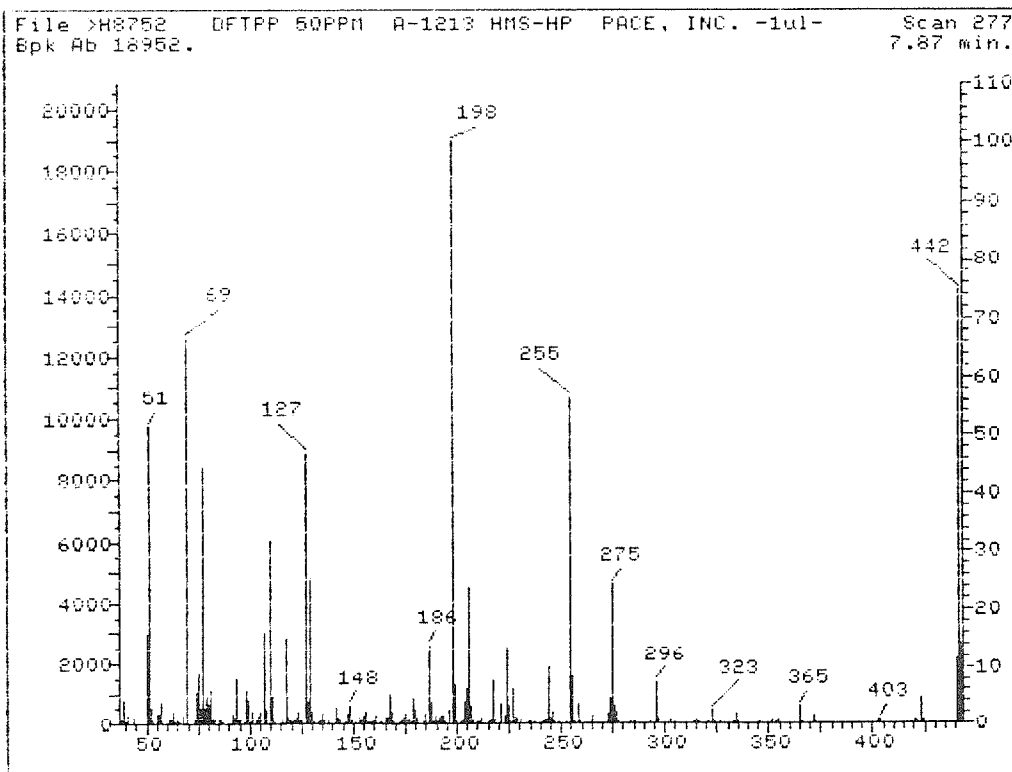
m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	Appropriate Peak	Status
51	30-60% of mass 198	51.41	51.41	Ok
68	Less than 2% of mass 69	0.00	0.00	Ok
69	(reference only)	66.36	66.36	Ok
70	Less than 2% of mass 69	0.00	0.00	Ok
127	40-60% of mass 198	46.88	46.88	Ok
197	Less than 1% of mass 198	0.00	0.00	Ok
198	Base peak, 100% relative abundance	100.00	100.00	Ok
199	5-9% of mass 198	6.76	6.76	Ok
275	10-30% of mass 198	24.36	24.36	Ok
365	Greater than 1% of mass 198	3.04	3.04	Ok
441	0-100% of mass 443	11.33	82.14	Ok
442	Greater than 40% of mass 198	74.66	74.66	Ok
443	17-23% of mass 442	13.80	18.48	Ok

Injection Date: 08/10/95

Injection Time: 08:39

Data File: >H8752

Scan: 277



5B
 SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS
 CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: PACE New England Contract:
 Lab Code: RESAN Case No.: OHMRC SAS No.: SDG No.: LJN1A
 Lab File ID: >H8773 DFTPP Injection Date: 08/11/95
 Instrument ID: HMS DFTPP Injection Time: 07:17

ION ABUNDANCE CRITERIA for H8773 are reported on a separate sheet.

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS

CLIENT I.D.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	DATE ANALYZED
=====	=====	=====	=====	=====
ABNSTD050	ABNSTD050	H8775	08/11/95	07:35
BA2398	90176-065	H8782	08/11/95	13:32
LSA2398	90176-065MS	H8783	08/11/95	16:03
CLJ44-CU-016	44914-003	H8785	08/11/95	17:13
CLJ44-CU-017	44914-007	H8786	08/11/95	17:48
CLJ44-CU-018-RB	44914-012	H8787	08/11/95	18:22

GC/MS PERFORMANCE STANDARD

Decafluorotriphenylphospine (DFTPP)

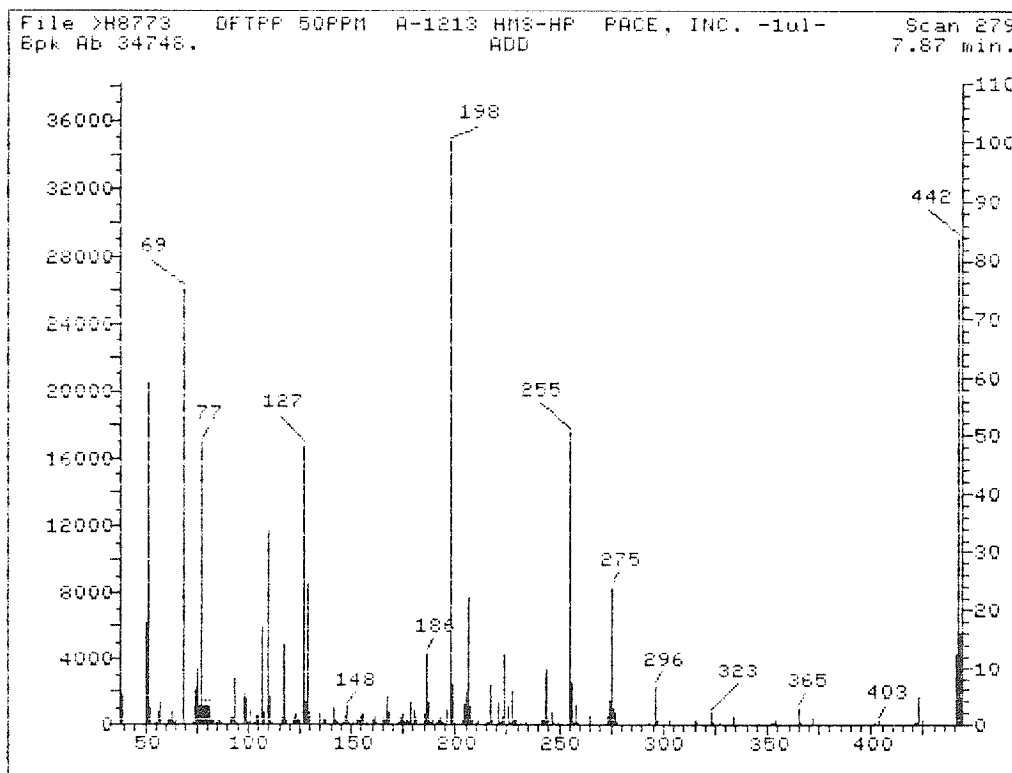
m/z	Ion Abundance Criteria	% Relative Abundance		Status
		Base Peak	Appropriate Peak	
51	30-60% of mass 198	58.80	58.80	Ok
68	Less than 2% of mass 69	.09	.12	Ok
69	(reference only)	74.82	74.82	Ok
70	Less than 2% of mass 69	.16	.21	Ok
127	40-60% of mass 198	48.24	48.24	Ok
197	Less than 1% of mass 198	0.00	0.00	Ok
198	Base peak, 100% relative abundance	100.00	100.00	Ok
199	5-9% of mass 198	6.78	6.78	Ok
275	10-30% of mass 198	23.83	23.83	Ok
365	Greater than 1% of mass 198	2.89	2.89	Ok
441	0-100% of mass 443	12.39	77.22	Ok
442	Greater than 40% of mass 198	83.55	83.55	Ok
443	17-23% of mass 442	16.04	19.20	Ok

Injection Date: 08/11/95

Injection Time: 07:17

Data File: >H8773

Scan: 279



5B
SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: PACE New England Contract:
Lab Code: RESAN Case No.: OHMRC SAS No.: SDG No.: LJNIA
Lab File ID: >H8859 DFTPP Injection Date: 08/18/95
Instrument ID: HMS DFTPP Injection Time: 07:50

ION ABUNDANCE CRITERIA for H8859 are reported on a separate sheet.

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS

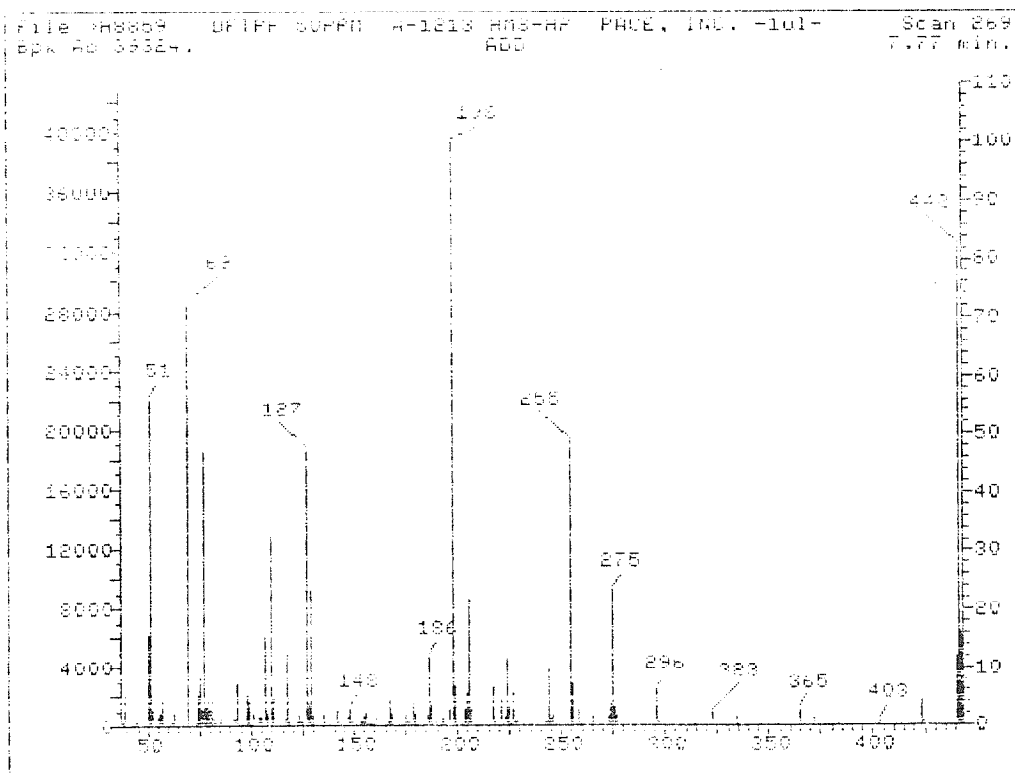
CLIENT I.D.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	DATE ANALYZED
ABNSTD050	ABNSTD050	H8861	08/18/95	08:08
90001-274	90001-274	H8864	08/18/95	09:55

GC/MS PERFORMANCE STANDARD

Decafluorotriphenylphosphine (DFTPP)

m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	Appropriate Peak	Status
51	30-60% of mass 198	56.11	56.11	Ok
68	Less than 2% of mass 69	.12	.16	Ok
69	(reference only)	72.10	72.10	Ok
70	Less than 2% of mass 69	.56	.78	Ok
127	40-60% of mass 198	47.07	47.07	Ok
197	Less than 1% of mass 198	0.00	0.00	Ok
198	Base peak, 100% relative abundance	100.00	100.00	Ok
199	5-9% of mass 198	6.86	6.86	Ok
275	10-30% of mass 198	23.28	23.28	Ok
365	Greater than 1% of mass 198	2.49	2.49	Ok
441	0-100% of mass 443	12.06	75.69	Ok
442	Greater than 40% of mass 198	82.14	82.14	Ok
443	17-23% of mass 442	15.94	19.40	Ok

Injection Date: 08/18/95
 Injection Time: 07:50
 Data File: >H8859
 Scan: 269



Initial Calibration Data
HSL Compounds

Case No: _____ Instrument ID: HMS-HP
 Contractor: FACE, INC. Calibration Date: 08/10/95
 Contract No: _____

Minimum RF for SPCC is .05 Maximum % RSD for CCC is 30%

Compound	Laboratory ID: >H8758 >H8757 >H8756 >H8755 >H8754					RRT	RF	% RSD	CCC	SPCC
	RF	RF	RF	RF	RF					
	20.00	50.00	80.00	120.00	160.00					
C310 N-NITROSODIMETHYLAMINE	.78952	.82818	.81636	.82583	.84814	.501	.82161	2.598		
C350 2-FLUOROPHENOL	1.32477	1.36126	1.34128	1.36827	1.36689	.749	1.35249	1.397		
C345 PHENOL-d5	1.61943	1.66316	1.62659	1.65894	1.63747	.934	1.64112	1.179		
C370 2-CHLOROPHENOL-d4	1.42596	1.42674	1.40202	1.39882	1.39802	.962	1.41031	1.044		
C375 1,2-DICHLOROBENZENE-d4	.92085	.89987	.86056	.84000	.81430	1.041	.86712	5.003		
C315 PHENOL	1.72486	1.71988	1.69397	1.71078	1.72246	.937	1.71439	.735	*	
C320 ANILINE	1.42590	1.45993	1.40253	1.35110	1.22789	.939	1.37347	6.589		
C325 BIS(2-CHLOROETHYL)ETHER	1.45777	1.44561	1.46596	1.60539	1.72295	.951	1.53954	7.882		
C330 2-CHLOROPHENOL	1.43133	1.43881	1.38791	1.39536	1.37139	.965	1.40536	2.039		
C335 1,3-DICHLOROBENZENE	1.58642	1.58049	1.52211	1.50270	1.46970	.993	1.53224	3.290		
C340 1,4-DICHLOROBENZENE	1.58843	1.54768	1.47243	1.46628	1.43978	1.003	1.49760	3.782	*	
C345 BENZYL ALCOHOL	.82435	.85139	.84324	.85173	.83499	1.034	.84114	1.383		
C350 1,2-DICHLOROBENZENE	1.48992	1.45968	1.36086	1.34383	1.32861	1.044	1.39658	5.234		
C355 2-METHYLPHENOL	1.14143	1.17212	1.14948	1.14758	1.13040	1.058	1.14820	1.333		
C360 BIS(2-CHLOROISOPROPYL)ETH	1.87015	1.85922	1.81233	1.79993	1.79160	1.064	1.82665	1.955		
C365 4-METHYLPHENOL	1.23357	1.25934	1.23262	1.27525	1.28665	1.091	1.25749	1.932		
C370 N-NITROSO-DI-N-PROPYLAMIN	1.02963	1.06867	1.07902	1.07674	1.11469	1.099	1.07375	2.827	**	
C375 HEXACHLOROETHANE	.86925	.88701	.77767	.77882	.77281	1.110	.78911	2.220		
C410 NITROBENZENE	.49768	.50072	.47503	.48714	.48522	.883	.48916	2.109		
C415 ISOPHORONE	.93000	.92974	.89797	.92036	.91886	.925	.92099	1.483		
C320 NITROBENZENE-d5	.49564	.50297	.47815	.49228	.48915	.880	.49164	1.856		
C420 2-NITROPHENOL	.23296	.24014	.22955	.23439	.22715	.937	.23284	2.155	*	
C425 2,4-DIMETHYLPHENOL	.50348	.49324	.46723	.47252	.47559	.944	.48241	3.170		
C450 BENZOIC ACID	.19665	.21361	.20249	.20441	.19728	.972	.20289	3.376		
C435 BIS(2-CHLOROETHOXY)METHAN	.55458	.55438	.53110	.54427	.53725	.959	.54432	1.907		
C440 2,4-DICHLOROPHENOL	.35021	.34949	.32233	.31795	.31485	.978	.33097	5.271	*	
C445 1,2,4-TRICHLOROBENZENE	.38829	.37597	.35636	.34524	.33843	.992	.36086	5.794		
C450 NAPHTHALENE	1.12174	1.08572	1.04297	1.04193	.97750	1.004	1.05397	5.135		
C455 4-CHLOROANILINE	.42985	.42790	.41831	.42117	.41800	1.014	.42305	1.301		
C460 HEXACHLOROBUTADIENE	.29169	.27260	.24401	.22773	.22265	1.034	.25174	11.774	*	

RF - Response Factor (Subscript is amount in ug/ml)

RRT - Average Relative Retention Time (RT Std/RT Istd)

RF - Average Response Factor

%RSD - Percent Relative Standard Deviation

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

Initial Calibration Data
HSL Compounds

Case No: _____ Instrument ID: HMS-HP
 Contractor: FACE, INC. Calibration Date: 08/10/95
 Contract No: _____

Minimum RF for SPCC is .05 Maximum % RSD for CCC is 30%

Compound	Laboratory ID: >H8758 >H8757 >H8756 >H8755 >H8754					RT	RF	% RSD	CCC	SPCC
	RF	RF	RF	RF	RF					
	20.00	50.00	80.00	120.00	160.00					
C465 4-CHLORO-3-METHYLPHENOL	.44723	.43717	.41067	.40798	.40801	1.098	.42221	4.410	*	
C470 2-METHYLNAPHTHALENE	.68119	.65400	.62447	.60669	.60565	1.124	.63440	5.148		
C555 2,4,6-TRIBROMOPHENOL	.38696	.37960	.38125	.37089	.37175	1.108	.37809	1.789		
C525 2-FLUOROBIPHENYL	1.48494	1.59867	1.28884	1.23542	1.24291	.908	1.33016	8.144		
C510 HEXACHLOROCYCLOPENTADIENE	.29497	.36752	.37756	.37516	.38834	.887	.36071	10.396	**	
C515 2,4,6-TRICHLOROPHENOL	.50295	.48534	.45878	.44355	.43589	.898	.46530	6.078	*	
C520 2,4,5-TRICHLOROPHENOL	.56154	.53700	.50666	.48948	.46875	.904	.51269	7.221		
C525 2-CHLORONAPHTHALENE	1.31139	1.24220	1.16172	1.14035	1.11852	.923	1.19484	6.711		
C530 2-NITROANILINE	.64039	.63980	.62574	.63665	.64582	.939	.63768	1.168		
C535 DIMETHYLPHTHALATE	1.82843	1.73487	1.66252	1.62587	1.64392	.967	1.69912	4.902		
C540 ACENAPHTHYLENE	2.07039	1.99434	1.89359	1.82694	1.80238	.980	1.91753	5.906		
C545 3-NITROANILINE	.42056	.42761	.41908	.42707	.42177	.996	.42322	.918		
C550 ACENAPHTHENE	1.35710	1.26713	1.21880	1.16570	1.18532	1.005	1.23881	6.174	*	
C555 2,4-DINITROPHENOL	.16937	.24387	.26177	.26854	.27012	1.009	.24273	17.432	**	
C560 4-NITROPHENOL	.40781	.42096	.41688	.42541	.46914	1.019	.42804	5.578	**	
C565 DIBENZOFURAN	1.92874	1.78039	1.72186	1.69630	1.70718	1.027	1.76689	5.440		
C543 2,6-DINITROTOLUENE	.41225	.41794	.40162	.37485	.37178	.977	.39569	5.376		
C570 2,4-DINITROTOLUENE	.59168	.59648	.58725	.60268	.60768	1.030	.59715	1.375		
C580 DIETHYLPHTHALATE	2.14272	1.99271	1.90195	1.87447	1.92349	1.064	1.96707	5.465		
C585 4-CHLOROPHENYL-PHENYLETHER	.75441	.65511	.58978	.54436	.51046	1.072	.61082	15.854		
C590 FLUORENE	1.45597	1.30402	1.23312	1.17754	1.21006	1.074	1.27614	8.678		
C595 4-NITROANILINE	.40420	.42887	.45624	.45744	.46971	1.083	.44329	5.971		
C610 4,6-DINITRO-2-METHYLPHENO	.17702	.20566	.20266	.19392	.16608	.907	.18907	8.996		
C615 N-NITROSODIPHENYLAMINE	.59931	.56304	.53702	.51285	.49584	.908	.54161	7.575	*	
C620 AZOBENZENE	.23072	.21988	.20782	.19360	.16492	.912	.20339	12.569		
C625 4-BROMOPHENYL-PHENYLETHER	.27717	.25936	.24407	.23601	.22363	.948	.24805	8.392		
C630 HEXACHLOROBENZENE	.42468	.39634	.37265	.34970	.34505	.966	.37768	8.812		
C635 PENTACHLOROPHENOL	.26208	.26869	.26349	.26188	.25808	.986	.26284	1.458	*	
C640 PHENANTHRENE	1.26437	1.17967	1.11818	1.07759	1.06656	1.003	1.14127	7.172		
C645 ANTHRACENE	1.26256	1.18069	1.11580	1.05482	1.03232	1.008	1.12924	8.347		

RF - Response Factor (Subscript is amount in ug/ml)

RT - Average Relative Retention Time (RT Std/RT Istd)

RF - Average Response Factor

%RSD - Percent Relative Standard Deviation

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

Initial Calibration Data
HSL Compounds

Case No: _____ Instrument ID: HMS-HP
 Contractor: PACE, INC. Calibration Date: 08/10/95
 Contract No: _____

Minimum RF for SPCC is .05 Maximum % RSD for CCC is 30%

Compound	Laboratory ID: >H8756 >H8757 >H8756 >H8755 >H8754					RRT	RF	% RSD	CCC	SPCC
	RF	RF	RF	RF	RF					
	20.00	50.00	80.00	120.00	160.00					
C650 DI-N-BUTYLPHthalATE	2.08964	1.95774	1.83242	1.55975	1.50596	1.069	1.78910	14.068		
C655 FLUORANTHENE	1.42196	1.31925	1.24199	1.14425	1.16702	1.138	1.25890	9.066	*	
C660 BENZIDINE	.12899	.14550	.15186	.15872	.13931	1.150	.14487	7.901		
C530 TERPHENYL-d14	.93665	.86989	.88597	.90250	.95891	.907	.91078	4.012		
C715 PYRENE	1.29814	1.25145	1.26392	1.34911	1.47191	.894	1.32691	6.742		
C720 BUTYLBENZYLPHthalATE	.94955	.89635	.92238	.97282	1.05611	.951	.95944	6.378		
C725 3,3'-DICHLOROGENZIDINE	.53313	.52963	.50222	.50296	.48635	.997	.51086	3.897		
C730 BENZO(A)ANTHRACENE	1.26293	1.22516	1.17202	1.17766	1.24897	.999	1.21735	3.379		
C745 BIS(2-ETHYLHEXYL)PHthalAT	1.17932	1.13910	1.06921	1.08969	1.20268	1.002	1.13600	5.006		
C740 CHRYSENE	1.15355	1.07701	1.06484	1.12623	1.21815	1.003	1.12796	5.496		
C760 DI-N-OCTYLPHthalATE	2.92894	2.71411	2.58821	2.37744	2.28748	.910	2.57923	10.006	*	
C765 BENZO(B)FLUORANTHENE	1.64726	1.53698	1.97354	1.94591	1.95653	.956	1.81204	11.299		
C770 BENZO(K)FLUORANTHENE	1.42049	1.39546	.81647	.72613	.67327	.959	1.00636	36.794		
C775 BENZO(A)PYRENE	1.34734	1.32355	1.28587	1.27580	1.26465	.994	1.29944	2.674	*	
C780 INDENO(1,2,3-CD)PYRENE	1.75329	1.75579	1.77747	1.78777	1.73666	1.172	1.76219	1.156		
C785 DIBENZO(A,H)ANTHRACENE	-	1.42549	1.43882	1.45538	1.43663	1.176	1.43908	.857		
C790 BENZO(G,H,I)PERYLENE	1.41428	1.42961	1.47130	1.49151	1.45369	1.222	1.45208	2.139		

RF - Response Factor (Subscript is amount in ug/ml)

RRT - Average Relative Retention Time (RT Std/RT Istd)

RF - Average Response Factor

%RSD - Percent Relative Standard Deviation

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

Continuing Calibration Check
HSL Compounds

Case No: _____ Calibration Date: 08/11/95
 Contractor: PACE, INC. Time: 07:35
 Contract No: _____ Laboratory ID: >H8775
 Instrument ID: HMS-HP Initial Calibration Date: 08/10/95

Minimum RF for SPCC is .05 Maximum % Diff for CCC is 25%

Compound	RF	RF	%Diff	CCC	SPCC
C310 N-NITROSODIMETHYLAMINE	.82161	.81497	.81		
C550 2-FLUOROPHENOL	1.35249	1.36535	.95		
C545 PHENOL-d5	1.64112	1.63322	.48		
C570 2-CHLOROPHENOL-d4	1.41031	1.42553	1.08		
C575 1,2-DICHLOROBENZENE-d4	.86712	.90804	4.72		
C315 PHENOL	1.71439	1.72287	.49	*	
C320 ANILINE	1.37347	1.48206	7.91		
C325 BIS(2-CHLOROETHYL)ETHER	1.53954	1.46650	4.74		
C330 2-CHLOROPHENOL	1.40536	1.42616	1.48		
C335 1,3-DICHLOROBENZENE	1.53224	1.57955	3.09		
C340 1,4-DICHLOROBENZENE	1.49760	1.55080	3.55	*	
C345 BENZYL ALCOHOL	.84114	.78585	6.57		
C350 1,2-DICHLOROBENZENE	1.39658	1.46121	4.63		
C355 2-METHYLPHENOL	1.14820	1.23458	7.52		
C360 BIS(2-CHLOROISOPROPYL)ETH	1.82665	1.87461	2.63		
C365 4-METHYLPHENOL	1.25749	1.27040	1.03		
C370 N-NITROSO-DI-N-PROPYLAMIN	1.07375	1.06483	.83	**	
C375 HEXACHLOROETHANE	.78911	.83007	5.19		
C410 NITROBENZENE	.48916	.50400	3.03		
C415 ISOPHORONE	.92099	.92723	.68		
C520 NITROBENZENE-d5	.49164	.50070	1.84		
C420 2-NITROPHENOL	.23284	.23915	2.71	*	
C425 2,4-DIMETHYLPHENOL	.48241	.50068	3.79		
C430 BENZOIC ACID	.20289	.20653	1.79		
C435 BIS(2-CHLOROETHOXY)METHAN	.54432	.54663	.42		
C440 2,4-DICHLOROPHENOL	.33097	.34642	4.67	*	
C445 1,2,4-TRICHLOROBENZENE	.36086	.38042	5.42		
C450 NAPHTHALENE	1.05397	1.10180	4.54		
C455 4-CHLOROANILINE	.42305	.44079	4.19		
C460 HEXACHLOROBUTADIENE	.25174	.28145	11.80	*	
C465 4-CHLORO-3-METHYLPHENOL	.42221	.43974	4.15	*	
C470 2-METHYLNAPHTHALENE	.63440	.66768	5.25		

RF - Response Factor from daily standard file at 50.00 ug/ml

RF - Average Response Factor from Initial Calibration Form VI

%Diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

Continuing Calibration Check
HSL Compounds

Case No: _____ Calibration Date: 08/11/95
 Contractor: PACE, INC. _____ Time: 07:35
 Contract No: _____ Laboratory ID: >H8775
 Instrument ID: HMS-HP _____ Initial Calibration Date: 08/10/95

Minimum RF for SPCC is .05 Maximum % Diff for CCC is 25%

Compound	RF	RF	%Diff	CCC	SPCC
C555 2,4,6-TRIBROMOPHENOL	.37809	.37094	1.89		
C525 2-FLUOROBIPHENYL	1.33016	1.36667	2.74		
C510 HEXACHLOROCYCLOPENTADIENE	.36071	.41440	14.88	**	
C515 2,4,6-TRICHLOROPHENOL	.46530	.46271	.56	*	
C520 2,4,5-TRICHLOROPHENOL	.51269	.54447	6.20		
C525 2-CHLORONAPHTHALENE	1.19484	1.22624	2.63		
C530 2-NITROANILINE	.63768	.61927	2.89		
C535 DIMETHYLPHTHALATE	1.69912	1.71159	.73		
C540 ACENAPHTHYLENE	1.91753	1.94558	1.46		
C545 3-NITROANILINE	.42322	.42287	.08		
C550 ACENAPHTHENE	1.23881	1.25952	1.67	*	
C555 2,4-DINITROPHENOL	.24273	.23504	3.17	**	
C560 4-NITROPHENOL	.42804	.41939	2.02	**	
C565 DIBENZOFURAN	1.76689	1.83536	3.88		
C543 2,6-DINITROTOLUENE	.39569	.42135	6.49		
C570 2,4-DINITROTOLUENE	.59715	.66562	1.42		
C580 DIETHYLPHTHALATE	1.96707	2.02765	3.08		
C585 4-CHLOROPHENYL-PHENYLETHER	.61082	.68701	12.47		
C590 FLUORENE	1.27614	1.33923	4.94		
C595 4-NITROANILINE	.44329	.42807	3.43		
C610 4,6-DINITRO-2-METHYLPHENO	.18907	.21328	12.81		
C615 N-NITROSODIPHENYLAMINE	.54161	.60209	11.17	*	
C620 AZOBENZENE	.20339	.21988	8.11		
C625 4-BROMOPHENYL-PHENYLETHER	.24805	.26641	7.40		
C630 HEXACHLOROBENZENE	.37768	.40852	8.17		
C635 PENTACHLOROPHENOL	.26284	.27783	5.70	*	
C640 PHENANTHRENE	1.14127	1.20217	5.34		
C645 ANTHRACENE	1.12924	1.19294	5.64		
C650 DI-N-BUTYLPHTHALATE	1.78910	1.97739	10.52		
C655 FLUORANTHRENE	1.25890	1.29401	2.79	*	
C660 BENZIDINE	.14487	.14054	3.00		
C530 TERPHENYL-d14	.91078	.92989	2.10		

RF - Response Factor from daily standard file at 50.00 ug/ml

RF - Average Response Factor from Initial Calibration Form VI

%Diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

Continuing Calibration Check
HSL Compounds

Case No: _____ Calibration Date: 08/11/95
 Contractor: PACE, INC. _____ Time: 07:35
 Contract No: _____ Laboratory ID: >H8775
 Instrument ID: HMS-HP _____ Initial Calibration Date: 08/10/95

Minimum RF for SPCC is .05 Maximum % Diff for CCC is 25%

Compound	RF	RF	%Diff	CCC SPCC
C715 PYRENE	1.32691	1.31035	1.25	
C720 BUTYLBENZYLPHthalate	.95944	.95404	.56	
C725 3,3'-DICHLOROBENZIDINE	.51086	.50557	1.03	
C730 BENZO(A)ANTHRACENE	1.21735	1.22549	.67	
C745 BIS(2-ETHYLHEXYL)PHthalat	1.13600	1.14132	.47	
C740 CHRYSENE	1.12796	1.11203	1.41	
C760 DI-N-OCTYLPHthalate	2.57923	2.88457	11.84	*
C765 BENZO(B)FLUORANTHENE	1.81204	1.63434	9.81	
C770 BENZO(K)FLUORANTHENE	1.00636	1.35465	34.61	
C775 BENZO(A)PYRENE	1.29944	1.33635	2.84	*
C780 INDENO(1,2,3-CD)PYRENE	1.76219	1.70011	3.52	
C785 DIBENZ(A,H)ANTHRACENE	1.43908	1.38010	4.10	
C790 BENZO(G,H,I)PERYLENE	1.45208	1.37452	5.34	

RF - Response Factor from daily standard file at 50.00 ug/ml

RF - Average Response Factor from Initial Calibration Form VI

%Diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

Continuing Calibration Check
HSL Compounds

Case No: _____ Calibration Date: 08/18/95
 Contractor: PACE, INC. Time: 08:08
 Contract No: _____ Laboratory ID: >H8861
 Instrument ID: HMS-HP Initial Calibration Date: 08/10/95

Minimum RF for SPCC is .05 Maximum % Diff for CCC is 25%

Compound	RF	RF	%diff	CCC	SPCC
C310 N-NITROSDIMETHYLAMINE	.82161	.82755	.72		
C350 2-FLUOROPHENOL	1.35249	1.35630	.28		
C345 PHENOL-d5	1.64112	1.63988	.06		
C370 2-CHLOROPHENOL-d4	1.41021	1.39895	.83		
C375 1,2-DICHLOROBENZENE-d4	.86712	.87771	3.53		
C315 PhenOL	1.71457	1.71114	.19	*	
C320 ANILINE	1.37347	1.49170	8.61		
C325 BIS(2-CHLOROETHYL)ETHER	1.53954	1.44975	5.90		
C330 2-CHLOROPHENOL	1.40536	1.39492	.74		
C335 1,3-DICHLOROBENZENE	1.53224	1.56195	1.90		
C340 1,4-DICHLOROBENZENE	1.49760	1.55398	3.76	*	
C345 BENZYL ALCOHOL	.84114	.83087	1.22		
C350 1,2-DICHLOROBENZENE	1.39658	1.43833	2.99		
C355 2-METHYLPHENOL	1.14620	1.13716	.96		
C360 BIS(2-CHLOROISOPROPYL)ETH	1.82665	1.84775	1.16		
C365 4-METHYLPHENOL	1.25749	1.23577	1.73		
C370 N-NITROSO-DI-N-PROPYLAMIN	1.07375	.97682	9.03	**	
C375 HEXACHLOROETHANE	.78911	.79104	.24		
C410 NITROBENZENE	.48916	.48912	.01		
C415 ISOPHORONE	.92099	.93304	1.31		
C520 NITROBENZENE-d5	.49164	.48273	1.81		
C420 2-NITROPHENOL	.23284	.22705	2.49	*	
C425 2,4-DIMETHYLPHENOL	.48241	.48463	.46		
C430 BENZOIC ACID	.20289	.19977	1.54		
C435 BIS(2-CHLOROETHOXY)METHAN	.54432	.55543	2.04		
C440 2,4-DICHLOROPHENOL	.33097	.33821	2.15	*	
C445 1,2,4-TRICHLOROBENZENE	.36063	.37998	5.30		
C450 NAPHTHALENE	1.05397	1.06676	3.11		
C455 4-CHLOROANILINE	.42305	.42874	1.35		
C460 HEXACHLOROBUTADIENE	.25174	.26684	6.00	*	
C465 4-CHLORO-3-METHYLPHENOL	.42221	.42918	1.65	*	
C470 2-METHYLNAPHTHALENE	.63440	.65311	2.95		

RF - Response Factor from daily standard file at 50.00 ug/ml

RF - Average Response Factor from Initial Calibration Form VI

%diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

Continuing Calibration Check
HSL Compounds

Case No: _____ Calibration Date: 00/10/95
 Contractor: FACE, INC. Time: 00:00
 Contract No: _____ Laboratory ID: 488001
 Instrument ID: HMS-HP Initial Calibration Date: 00/10/95

Minimum RF for SPEC is .05 Maximum % Diff for CCC is 25%

Compound	RF	RF	%Diff	CCC	SPEC
0009 2,4,6-TRIBROMOPHENOL	.37809	.37103	1.87		
0029 2-FLUOROBIPHENYL	1.33016	1.37302	3.28		
0010 HEXACHLOROCYCLOPENTADIENE	.36071	.36189	.27		**
0015 2,4,6-TRICHLOROPHENOL	.48530	.47354	2.30	*	
0020 2,4,6-TRICHLOROPHTHAL	.51269	.50034	.85		
0025 2-CHLORONAPHTHALENE	1.19484	1.23450	3.32		
0030 2-NITROANILINE	.63760	.60755	7.86		
0035 DIETHYLPHTHALATE	1.69912	1.69293	.36		
0040 ACENAPHTHYLENE	1.91759	1.97207	2.87		
0045 3-NITROANILINE	.42322	.41817	1.00		
0050 ACENAPHTHENE	1.19001	1.27010	7.1	*	
0055 2,4-DINITROPHENOL	.24173	.17900	26.32		**
0060 4-NITROPHENOL	.42004	.37472	12.40		**
0065 DIBENZOFURAN	1.76007	1.60280	2.36		
0043 2,6-DINITROTOLUENE	.39589	.39810	.61		
0070 2,4-DINITROTOLUENE	.59715	.56480	5.40		
0080 DIETHYLPHTHALATE	1.96707	2.00382	2.02		
0085 4-CHLOROPHENYL-NITROETHANE	.61002	.60444	12.05		
0090 FLUORACET	1.27814	1.30057	2.30		
0095 4-NITROANILINE	.44329	.40010	6.39		
0010 4,6-DINITRO-2-ETHYLBENZ	.18907	.17810	5.77		
0015 8-NITROOXYBENZOLAMINE	.54101	.57419	6.01	*	
0020 AZOBENZENE	.20739	.21740	5.71		
0025 4-BROMOPHENYL ETHYLENE	.24305	.26000	7.90		
0030 HEXACHLOROENDENE	.37709	.37372	3.89		
0035 PENTACHLOROPHENOL	.26204	.25034	4.76	*	
0040 FLUORANTHRACENE	1.14127	1.10177	3.71		
0045 ANTHRACENE	1.12924	1.10970	3.30		
0050 DI-N-BUTYLPHTHALATE	1.70910	1.91012	7.04		
0055 FLUORANILINE	1.20090	1.20026	1.70	*	
0060 BENZIDINE	.14487	.05659	68.94		
0030 TERPHEYL-D14	.91078	.89814	1.39		

RF - Response Factor from daily standard file at 50.00 ug/ml

RF - Average Response Factor from Initial Calibration Form VI

%Diff - % Difference from original average on curve

CCC - Calibration Check Compounds (*) SPEC - System Performance Check Compounds (**)

Continuing Calibration Check
HSL Compounds

Case No: _____ Calibration Date: 08/18/95
 Contractor: PACE, INC. Time: 08:08
 Contract No: _____ Laboratory ID: >H88e1
 Instrument ID: HHS-HP Initial Calibration Date: 08/10/95

Minimum RF for SPCC is .05 Maximum % Diff for CCC is 25%

Compound	RF	RF	%Diff	CCC	SPCC
C715 PYRENE	1.32691	1.28055	3.49		
C720 BUTYLBENZYLPHthalate	.95944	.92144	3.96		
C725 3,3'-DICHloroBenZidine	.51086	.51179	.18		
C730 BenzoflAnthracene	1.21735	1.19709	1.66		
C745 Bis(2-Ethylhexyl)Phthalat	1.13600	1.06385	6.35		
C740 ChrySene	1.12796	1.00363	11.02		
C760 Di-n-OctylPhthalate	2.57923	2.77523	7.60 *		
C765 BenzoflFluoranthene	1.61204	1.67113	7.78		
C770 BenzoflFluoranthene	1.00636	1.26813	26.00		
C775 BenzoflApyrene	1.27544	1.34392	5.19 *		
C780 Indeno(1,2,3-cd)Pyrene	1.76219	1.81650	3.19		
C785 Dibenz(a,h)Anthracene	1.43508	1.45552	1.14		
C790 Benzofl.h.1Perylene	1.45208	1.47766	1.76		

RF - Response factor from daily standard file at 50.00 ug/ml

RF - Average Response Factor from Initial Calibration Form VI

%Diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: PACE New England

Contract:

Lab Code: RESAN Case No.: OHMRC

SAS No.:

SDG No.: LJN1A

Lab File ID (Standard): >H8775

Date Analyzed: 08/11/95

Instrument ID: HMS

Time Analyzed: 07:35

	IS1(DCB)		IS2(NPT)		IS3(ANT)		IS4(PHN)		IS5(CRY)		IS6(PRY)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	34032	7.20	117385	9.20	64043	12.07	104190	14.48	104059	18.86	86420	21.99
UPPER LIMIT	68064	7.70	234770	9.70	128086	12.57	208380	14.98	208118	19.36	172840	22.49
LOWER LIMIT	17016	6.70	58693	8.70	32022	11.57	52095	13.98	52030	18.36	43210	21.49
CLIENT I.D.												
BA2398	29996	7.19	99045	9.19	52907	12.07	86176	14.47	90731	18.84	72497	21.96
LSA2398	29825	7.20	101083	9.19	53836	12.07	87055	14.48	89888	18.83	72312	21.96
CLJ44-CU-016	31564	7.20	103884	9.19	55106	12.07	88817	14.48	92488	18.83	73458	21.96
CLJ44-CU-017	29740	7.20	100670	9.19	53305	12.07	85556	14.48	88650	18.83	70848	21.95
CLJ44-CU-018-RB	29610	7.20	98882	9.19	52034	12.07	83333	14.47	89364	18.83	70568	21.95

IS1 (DCB) = 1,4-Dichlorobenzene-d4

UPPER LIMIT = + 100%

IS2 (NPT) = Naphthalene-d8

of internal standard area.

IS3 (ANT) = Acenaphthene-d10

LOWER LIMIT = - 50%

IS4 (PHN) = Phenanthrene-d10

of internal standard area.

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

Column used to flag internal standard area values outside of UPPER and LOWER LIMIT with an asterisk

SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: PACE New England

Contract:

Lab Code: RESAN Case No.: OHMRC

SAS No.:

SDG No.: LJN1A

Lab File ID (Standard): >H8861

Date Analyzed: 08/18/95

Instrument ID: HMS

Time Analyzed: 08:08

	IS1(DCB)		IS2(NPT)		IS3(ANT)		IS4(PHN)		IS5(CRY)		IS6(PRY)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	31793	7.09	106425	9.08	56782	11.95	95049	14.35	96805	18.72	84113	21.72
UPPER LIMIT	63586	7.59	212850	9.58	113564	12.45	190098	14.85	193610	19.22	168226	22.22
LOWER LIMIT	15897	6.59	53213	8.58	28391	11.45	47525	13.85	48403	18.22	42057	21.22
CLIENT I.D.												
90001-274	29681	7.08	102250	9.08	54466	11.94	88112	14.34	98364	18.69	84873	21.71

IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

UPPER LIMIT = + 100%

of internal standard area.

LOWER LIMIT = - 50%

of internal standard area.

Column used to flag internal standard area values outside of UPPER and LOWER LIMIT with an asterisk

Voltage 1750 Tune Meth MSHDFT Initial Cal 8/10/95 Date 8/10/95
 Threshold 20 Sample Meth MSHTST Batch File HAU10A, B, C Analyst N
 QASOP 5200 Volume Inj 1ul Int Std A-1441 Instr 1 MS-HP

Maintenance: Septum Liner Inlet Disk Column Clip Other

Btl #	File #	Sample	Matrix	ID File	DII	SDG	Comments	MI	A	R	Arcv	P
/	7H0752	7H0752 ^{63K} SF1PP50	A-1213				m/e 198 = 20K inj 0231 scan 277		✓	✓		12/533
/	54	ABNST 5160 57	A-1443	1HAU10			medical complaint	NA	✓	✓		
/	55	ABNST 120	A-1443				2370		✓	✓		
/	56	ABNST 080	A-1444						✓	✓		
/	57	ABNST 050	A-1445						✓	✓		
/	58	ABNST 020	A-1446		✓			✓	✓	✓		
	59	44686-23	ABNL	1H0810	1/1	MYPE	3325		✓	✓		
	60	-24			1/1		3326		✓	✓		
	61	-25			1/2		3327 RE 1/4					
	62	-26			1/4		3328		✓	✓		
	63	-23R			1/1		3325		✓	✓		
	64	-24R			1/1		3326		✓	✓		
	65	-25R			1/2		3327 RE 1/4					
	66	-26R			1/4		3328		✓	✓		
	67	-25			1/4		3327		✓	✓		
	68	-25R			1/4		3327		✓	✓		
	69	BA2389			1/1				✓	✓		
	70	LSA2389							✓	✓		
	71	BA2286							✓	✓		
	72	LSA2286							✓	✓		
							8/11/95					
							N					

PACE New England

GCMS Semi Volatiles
RUN LOG

0000072

Voltage 1750 Tune Meth MSHAFT Initial Cal 8/10/95 Date 8/11/95
 Threshold 20 Sample Meth MSHTST Batch File HAU11A Analyst NT
 QASOP 5200 Volume Inj 1 ul Int Std A-1441 Instr H MS-HP

Maintenance: Septum _____ Liner _____ Inlet Disk _____ Column Clip _____ Other none

Bl #	File #	Sample	Metix	ID File	DII	SDG	Comments	MI	A	R	Arv	P
✓	74B773	DFTPP 50	A-1213				m/e 198 = 22K inj 0717 Scan - 278+279+280		✓	✓	A2/533	
✓	75	ABN STD 50	A-1445	1HAU10			complem 8720	✓	✓	✓		
6	76	44897-25	ABNL	1HTCLP 1H0212	1/1				✓	✓		
7	77	44898-8		↓					✓	✓		
8	78	-9		↓					✓	✓		
9	79	BA2290		1H0211					✓	✓		
10	80	LSA2290		↓					✓	✓		
11	81	44898-11		1HTCLP					✓	✓		
12	82	BA2398		1H0211					✓	✓		
13	83	LSA2398		↓					✓	✓		
14	84	44913-9		1HTCLP					✓	✓		
15	85	44914-3		↓					✓	✓		
16	86	-7		↓					✓	✓		
17	87	-12		↓					✓	✓		
18	88	44853-1		↓	1/5				✓	✓		
19	89	-2		↓	1/10			✓	✓	✓		
20	90	G-161 pre		1HAU10 1HTCLP			pre (run after H-2782		✓	✓		
21	91	G-161 post		1HPRST 1HTCLP			post) BR'S (AW)		N	✓		

8/14/95
N

PACE New England

GCMS Semi Volatiles
RUN LOG

0000077

Voltage 1750 Tune Meth MSHDFT Initial Cal 8/10/95 Date 8/18/95
 Threshold 20 Sample Meth MSHTST Batch File H0818A Analyst LEM
 QASOP 5200 Volume Inj 1 µl Int Std A-1453 Instr HMS-HP

Maintenance: Septum Liner Inlet Disk Column Clip ~15cm Other cleaned syringe

Bl #	File #	Sample	Matrix	ID File	Dil	SDG	Comments	MI	A	R	Arv	P
1	78859	DEIPP 50ppm	A-1213	—	1/1	—	M/2198 SCANS 25K 268+269+270 INS 7:50		✓	✓	12/33	
2	61	ABNSTD050	A-1445	IHAUWQ	1/1	—	COMPLIANT 8270	3	LEM	✓	✓	
6	62	B-A2407	ABNL	IH0818	1/1	—			✓	✓		
7	63	LS A2407					ISG LOW		○			
8	64	90001-274							✓	✓		
9	65	44993-1		IHTCLP			V 8/18		✓	✓		
10	66	B-A2410		IH0818					✓	✓		
11	67	LS-A2410							✓	✓		
12	68	B-A2408	ABNS						✓	✓		
13	69	LS-A2408							✓	✓		
14	70	B-A2405	ABNS						✓	✓		
15	71	LS-A2405					3 spike targets low					
16	72	44996-1	ABNS					✓	✓	✓		
17	73	44995-3						✓	✓	✓		
18	74	-4						✓	✓	✓		
19	75	44991-4	ABNL	IHTCLP			V 8/22 (R68TCLP)		✓	✓		
20	76	-5							✓	✓		
21	77	44958-9	ABNL	IH0818					✓	✓		
22	78	44954-2							✓	✓		
23	79	B+J BK739	MeCl ₂						✓			
24	80	B+J BK381							✓			
25	81	B+J BK298	MeOH						✓			
26	82	B+J BK044							✓			
27	83	B+J BK556							✓			
28	84	44995-4 HST	ABNL				inhomogeneous					
29	85	-4 HST										

8/21/95

U.S. EPA - CLP

EPA SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

CU-016

Lab Name: PACE INC., NE-NH

Contract: LEJEUNE

Lab Code:

Case No.: OHMRC

SAS No.:

SDG No.: MLJN1A

Matrix (soil/water): WATER

Lab Sample ID: 44914-003

Level (low/med): LOW

Date Received: 08/08/95

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic	2.8	U		P
7440-39-3	Barium	31.9	B		P
7440-41-7	Beryllium				
7440-43-9	Cadmium	1.5	U		P
7440-70-2	Calcium				
7440-47-3	Chromium	3.7	U		P
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron				
7439-92-1	Lead	6.4			P
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel				
7440-09-7	Potassium				
7782-49-2	Selenium	3.7	U		P
7440-22-4	Silver	1.9	U		P
7440-23-5	Sodium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
	Cyanide				

Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments:

Actual field ID CLJ44-CU-016 was reduced to CU-016 due to software limitations.

U.S. EPA - CLP

EPA SAMPLE NO.

1
INORGANIC ANALYSIS DATA SHEET

CU-017

Lab Name: PACE INC., NE-NH

Contract: LEJEUNE

Lab Code:

Case No.: OHMRC

SAS No.:

SDG No.: MLJN1A

Matrix (soil/water): WATER

Lab Sample ID: 44914-007

Level (low/med): LOW

Date Received: 08/08/95

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic	2.8	U		P
7440-39-3	Barium	31.9	B		P
7440-41-7	Beryllium				
7440-43-9	Cadmium	1.5	U		P
7440-70-2	Calcium				
7440-47-3	Chromium	3.7	U		P
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron				
7439-92-1	Lead	10.3			P
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel				
7440-09-7	Potassium				
7782-49-2	Selenium	3.7	U		P
7440-22-4	Silver	1.9	U		P
7440-23-5	Sodium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
	Cyanide				

Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments:

Actual field ID CLJ44-CU-017 was reduced to CU-017 due to software limitations.

U.S. EPA - CLP

EPA SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

CU-018

Lab Name: PACE INC., NE-NH

Contract: LEJEUNE

Lab Code:

Case No.: OHMRC

SAS No.:

SDG No.: MLJN1A

Matrix (soil/water): WATER

Lab Sample ID: 44914-013

Level (low/med): LOW

Date Received: 08/08/95

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic	2.8	U		P
7440-39-3	Barium	2.7	U		P
7440-41-7	Beryllium				
7440-43-9	Cadmium	1.5	U		P
7440-70-2	Calcium				
7440-47-3	Chromium	3.7	U		P
7440-48-4	Cobalt				
7440-50-8	Copper				
7439-89-6	Iron				
7439-92-1	Lead	2.4	B		P
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel				
7440-09-7	Potassium				
7782-49-2	Selenium	3.7	U		P
7440-22-4	Silver	1.9	U		P
7440-23-5	Sodium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc				
	Cyanide				

Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments:

Actual field ID CLJ44-CU-018-RB was reduced to CU-018 due to software limitations.

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: PACE INC., NE-NH

Contract: LEJEUNE

Lab Code:

Case No.: OHMRC

SAS No.:

SDG No.: MLJN1A

Initial Calibration Source: VHG\MALL\IV

Continuing Calibration Source: SOL+\VHG\MAL

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum									
Antimony									
Arsenic	1000.0	1039.50	104.0	10000.0	9644.50	96.4	9404.02	94.0	P
Barium	1000.0	1002.64	100.3	40000.0	40398.08	101.0	39522.72	98.8	P
Beryllium									
Cadmium	500.0	500.98	100.2	1000.0	983.82	98.4	975.35	97.5	P
Calcium									
Chromium	1000.0	1043.97	104.4	4000.0	4074.37	101.9	3994.62	99.9	P
Cobalt									
Copper									
Iron									
Lead	1000.0	997.58	99.8	10000.0	9834.90	98.3	9654.69	96.5	P
Magnesium									
Manganese									
Mercury	4.0	4.14	103.5	5.0	4.76	95.2			CV
Nickel									
Potassium									
Selenium	1000.0	1041.29	104.1	10000.0	9931.38	99.3	9799.65	98.0	P
Silver	200.0	210.87	105.4	1000.0	1057.57	105.8	1040.44	104.0	P
Sodium									
Thallium									
Vanadium									
Zinc									
Cyanide									

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: PACE INC., NE-NH

Contract: LEJEUNE

Lab Code:

Case No.: OHMRC

SAS No.:

SDG No.: MLJN1A

Initial Calibration Source: VHG\MALL\IV

Continuing Calibration Source: SOL+\VHG\MAL

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum									
Antimony									
Arsenic				10000.0	9473.95	94.7	9644.01	96.4	P
Barium				40000.0	39792.58	99.5	40217.63	100.5	P
Beryllium									
Cadmium				1000.0	983.19	98.3	983.12	98.3	P
Calcium									
Chromium				4000.0	4016.09	100.4	4035.82	100.9	P
Cobalt									
Copper									
Iron									
Lead				10000.0	9709.64	97.1	9747.01	97.5	P
Magnesium									
Manganese									
Mercury									
Nickel									
Potassium									
Selenium				10000.0	9906.67	99.1	9955.23	99.6	P
Silver				1000.0	1045.80	104.6	1052.86	105.3	P
Sodium									
Thallium									
Vanadium									
Zinc									
Cyanide									

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: PACE INC., NE-NH

Contract: LEJEUNE

Lab Code:

Case No.: OHMRC

SAS No.:

SDG No.: MLJN1A

Initial Calibration Source: VHG\MALL\IV

Continuing Calibration Source: SOL+\VHG\MAL

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum									
Antimony									
Arsenic				10000.0	9477.84	94.8	9516.09	95.2	P
Barium				40000.0	39680.06	99.2	40064.95	100.2	P
Beryllium									
Cadmium				1000.0	980.26	98.0	979.85	98.0	P
Calcium									
Chromium				4000.0	4002.35	100.1	4025.74	100.6	P
Cobalt									
Copper									
Iron									
Lead				10000.0	9656.65	96.6	9705.99	97.1	P
Magnesium									
Manganese									
Mercury									
Nickel									
Potassium									
Selenium				10000.0	9872.79	98.7	9929.95	99.3	P
Silver				1000.0	1047.23	104.7	1049.96	105.0	P
Sodium									
Thallium									
Vanadium									
Zinc									
Cyanide									

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: PACE INC., NE-NH

Contract: LEJEUNE

Lab Code:

Case No.: OHMRC

SAS No.:

SDG No.: MLJN1A

Initial Calibration Source: VHG\MALL\IV

Continuing Calibration Source: SOL+\VHG\MAL

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum									
Antimony									
Arsenic				10000.0	9656.05	96.6	9586.88	95.9	P
Barium				40000.0	40489.51	101.2	41027.48	102.6	P
Beryllium									
Cadmium				1000.0	982.84	98.3	985.22	98.5	P
Calcium									
Chromium				4000.0	4050.57	101.3	4105.04	102.6	P
Cobalt									
Copper									
Iron									
Lead				10000.0	9769.83	97.7	9862.86	98.6	P
Magnesium									
Manganese									
Mercury									
Nickel									
Potassium									
Selenium				10000.0	9946.02	99.5	10061.04	100.6	P
Silver				1000.0	1055.69	105.6	1060.38	106.0	P
Sodium									
Thallium									
Vanadium									
Zinc									
Cyanide									

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: PACE INC., NE-NH

Contract: LEJEUNE

Lab Code:

Case No.: OHMRC

SAS No.:

SDG No.: MLJN1A

Initial Calibration Source: VHG\MALL\IV

Continuing Calibration Source: SOL+\VHG\MAL

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum									
Antimony									
Arsenic				10000.0	9585.02	95.9	9369.98	93.7	P
Barium				40000.0	40706.41	101.8	39319.49	98.3	P
Beryllium									
Cadmium				1000.0	986.09	98.6	966.82	96.7	P
Calcium									
Chromium				4000.0	4116.65	102.9	3997.20	99.9	P
Cobalt									
Copper									
Iron									
Lead				10000.0	9853.09	98.5	9588.10	95.9	P
Magnesium									
Manganese									
Mercury									
Nickel									
Potassium									
Selenium				10000.0	10086.31	100.9	9572.23	95.7	P
Silver				1000.0	1052.80	105.3	1040.41	104.0	P
Sodium									
Thallium									
Vanadium									
Zinc									
Cyanide									

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: PACE INC., NE-NH

Contract: LEJEUNE

Lab Code:

Case No.: OHMRC

SAS No.:

SDG No.: MLJN1A

Initial Calibration Source: VHGMALL\IV

Continuing Calibration Source: SOL+\VHGMAL

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum									
Antimony									
Arsenic				10000.0	9525.81	95.3	9630.68	96.3	P
Barium				40000.0	39249.00	98.1	39769.10	99.4	P
Beryllium									
Cadmium				1000.0	977.27	97.7	985.77	98.6	P
Calcium									
Chromium				4000.0	4031.26	100.8	4056.65	101.4	P
Cobalt									
Copper									
Iron									
Lead				10000.0	9688.49	96.9	9713.99	97.1	P
Manganese									
Mercury									
Nickel									
Potassium									
Selenium				10000.0	9665.00	96.6	9769.67	97.7	P
Silver				1000.0	1049.00	104.9	1059.59	106.0	P
Sodium									
Thallium									
Vanadium									
Zinc									
Cyanide									

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: PACE INC., NE-NH

Contract: LEJEUNE

Lab Code:

Case No.: OHMRC

SAS No.:

SDG No.: MLJN1A

Initial Calibration Source: VHG\MALL\IV

Continuing Calibration Source: SOL+\VHG\MAL

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum									
Antimony									
Arsenic				10000.0	9820.48	98.2	9490.00	94.9	P
Barium				40000.0	40618.09	101.5	39159.04	97.9	P
Beryllium									
Cadmium				1000.0	1003.62	100.4	973.78	97.4	P
Calcium									
Chromium				4000.0	4128.70	103.2	3991.28	99.8	P
Cobalt									
Copper									
Iron									
Lead				10000.0	9919.49	99.2	9596.05	96.0	P
Magnesium									
Manganese									
Mercury									
Nickel									
Potassium									
Selenium				10000.0	9970.26	99.7	9613.80	96.1	P
Silver				1000.0	1082.08	108.2	1048.41	104.8	P
Sodium									
Thallium									
Vanadium									
Zinc									
Cyanide									

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: PACE INC., NE-NH

Contract: LEJEUNE

Lab Code:

Case No.: OHMRC

SAS No.:

SDG No.: MLJN1A

Initial Calibration Source: VHG\MALL\IV

Continuing Calibration Source: SOL+\VHG\MAL

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum									
Antimony									
Arsenic				10000.0	9161.31	91.6	10141.98	101.4	P
Barium				40000.0	38872.54	97.2	44044.29	110.1	P
Beryllium									
Cadmium				1000.0	964.73	96.5	1030.24	103.0	P
Calcium									
Chromium				4000.0	3938.38	98.5	4296.81	107.4	P
Cobalt									
Copper									
Iron									
Lead				10000.0	9469.23	94.7	10219.96	102.2	P
Magnesium									
Manganese									
Mercury									
Nickel									
Potassium									
Selenium				10000.0	9373.04	93.7	10506.60	105.1	P
Silver				1000.0	1033.47	103.3	1128.31	112.8	P
Sodium									
Thallium									
Vanadium									
Zinc									
Cyanide									

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: PACE INC., NE-NH

Contract: LEJEUNE

Lab Code:

Case No.: OHMRC

SAS No.:

SDG No.: MLJN1A

Initial Calibration Source: IV

Continuing Calibration Source: IV

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum									
Antimony									
Arsenic	750.0	755.05	100.7	1000.0	1014.12	101.4	1024.82	102.5	P
Barium	250.0	256.56	102.6	1000.0	998.09	99.8	981.62	98.2	P
Beryllium									
Cadmium	875.0	897.62	102.6	1000.0	972.43	97.2	977.83	97.8	P
Calcium									
Chromium	250.0	247.23	98.9	1000.0	967.71	96.8	968.19	96.8	P
Cobalt									
Copper									
Iron									
Lead	1250.0	1244.58	99.6	1000.0	976.73	97.7	980.33	98.0	P
Magnesium									
Manganese									
Mercury									
Nickel									
Potassium									
Selenium	750.0	757.42	101.0	1000.0	1014.00	101.4	1017.27	101.7	P
Silver	500.0	510.08	102.0	1000.0	1035.85	103.6	1031.49	103.1	P
Sodium									
Thallium									
Vanadium									
Zinc									
Cyanide									

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: PACE INC., NE-NH

Contract: LEJEUNE

Lab Code:

Case No.: OHMRC

SAS No.:

SDG No.: MLJN1A

Initial Calibration Source: IV

Continuing Calibration Source: IV

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum									
Antimony									
Arsenic				1000.0	1027.69	102.8	1034.57	103.5	P
Barium				1000.0	989.48	98.9	997.08	99.7	P
Beryllium									
Cadmium				1000.0	972.33	97.2	984.07	98.4	P
Calcium									
Chromium				1000.0	965.13	96.5	970.89	97.1	P
Cobalt									
Copper									
Iron									
Lead				1000.0	976.32	97.6	992.03	99.2	P
Magnesium									
Manganese									
Mercury									
Nickel									
Potassium									
Selenium				1000.0	1025.33	102.5	1031.85	103.2	P
Silver				1000.0	1035.60	103.6	1032.50	103.2	P
Sodium									
Thallium									
Vanadium									
Zinc									
Cyanide									

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

3
BLANKS

Lab Name: PACE INC., NE-NH

Contract: LEJEUNE

Lab Code:

Case No.: OHMRC

SAS No.:

SDG No.: MLJN1A

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		M
		C	1	C	2	C	3	C		C	
Aluminum											
Antimony											
Arsenic	-3.0	B	9.9	B	23.8	B	25.1	B	-11.780	B	P
Barium	-7.0	B	2.7	U	3.9	B	14.7	B	2.700	U	P
Beryllium											
Cadmium	-1.6	B	1.5	U	1.5	U	1.5	U	1.500	U	P
Calcium											
Chromium	3.7	U	3.7	U	4.1	B	4.4	B	3.700	U	P
Cobalt											
Copper											
Iron											
Lead	-8.4		1.6	U	-6.7		6.0		14.030		P
Magnesium											
Manganese											
Mercury	0.1	B	0.1	U					0.100	U	CV
Nickel											
Potassium											
Selenium	6.6		-6.6		12.6		9.3		-6.300		P
Silver	1.9	U	1.9	U	2.5	B	3.7	B	4.740	B	P
Sodium											
Thallium											
Vanadium											
Zinc											
Cyanide											

U.S. EPA - CLP

3
BLANKS

Lab Name: PACE INC., NE-NH

Contract: LEJEUNE

Lab Code:

Case No.: OHMRC

SAS No.:

SDG No.: MLJN1A

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L) C	Continuing Calibration Blank (ug/L)						Prepa- ration Blank C	M
		1 C	2 C	3 C	1 C	2 C	3 C		
Aluminum									
Antimony									
Arsenic		15.5 B	21.1 B	17.1 B			2.800 U	P	
Barium		2.7 U	2.7 U	4.5 B			2.700 U	P	
Beryllium									
Cadmium		1.5 U	1.5 U	1.5 U			1.500 U	P	
Calcium									
Chromium		3.7 U	3.7 U	3.7 U			3.700 U	P	
Cobalt									
Copper									
Iron									
Lead		3.6	1.6 U	1.6 U			1.640 B	P	
Magnesium									
Manganese									
Mercury									
Nickel									
Potassium									
Selenium		10.6	18.6	11.3			3.700 U	P	
Silver		3.3 B	2.8 B	2.8 B			1.900 U	P	
Sodium									
Thallium									
Vanadium									
Zinc									
Cyanide									

U.S. EPA - CLP

3
BLANKS

Lab Name: PACE INC., NE-NH

Contract: LEJEUNE

Lab Code:

Case No.: OHMRC

SAS No.:

SDG No.: MLJN1A

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L)						Prepa- ration Blank	C	M
			1	C	2	C	3	C			
Aluminum											
Antimony											
Arsenic			21.2	B	13.7	B	12.7	B		P	
Barium			10.1	B	4.8	B	6.5	B		P	
Beryllium											
Cadmium			1.5	U	1.5	U	1.5	U		P	
Calcium											
Chromium			3.7	U	3.7	U	3.7	U		P	
Cobalt											
Copper											
Iron											
Lead			2.4	B	1.6	U	1.6	U		P	
Magnesium											
Manganese											
Mercury											
Nickel											
Potassium											
Selenium			9.3		3.7	U	8.6			P	
Silver			1.9	U	1.9	U	1.9	U		P	
Sodium											
Thallium											
Vanadium											
Zinc											
Cyanide											

U.S. EPA - CLP

3
BLANKS

Lab Name: PACE INC., NE-NH

Contract: LEJEUNE

Lab Code:

Case No.: OHMRC

SAS No.:

SDG No.: MLJN1A

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L) C	Continuing Calibration Blank (ug/L)						Prepa- ration Blank C	M
		1	C	2	C	3	C		
Aluminum									
Antimony									
Arsenic		15.1	B	35.9	B	37.4	B	P	
Barium		6.2	B	9.6	B	20.1	B	P	
Beryllium									
Cadmium		1.5	U	1.5	U	1.5	U	P	
Calcium									
Chromium		3.7	U	3.7	U	3.7	U	P	
Cobalt									
Copper									
Iron									
Lead		1.6	U	-2.4	B	1.7	B	P	
Magnesium									
Manganese									
Mercury									
Nickel									
Potassium									
Selenium		3.7	U	3.7	U	13.9		P	
Silver		1.9	U	1.9	U	1.9	U	P	
Sodium									
Thallium									
Vanadium									
Zinc									
Cyanide									

U.S. EPA - CLP

3
BLANKS

Lab Name: PACE INC., NE-NH

Contract: LEJEUNE

Lab Code:

Case No.: OHMRC

SAS No.:

SDG No.: MLJN1A

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L)						Prepa- ration Blank	C	M
			1	C	2	C	3	C			
Aluminum											
Antimony											
Arsenic			27.2	B	12.0	B	2.8	U		P	
Barium			23.7	B	21.9	B	21.5	B		P	
Beryllium											
Cadmium			1.8	B	1.5	U	1.5	U		P	
Calcium											
Chromium			3.7	U	3.8	B	3.7	U		P	
Cobalt											
Copper											
Iron											
Lead			5.2		5.8		5.8			P	
Magnesium											
Manganese											
Mercury											
Nickel											
Potassium											
Selenium			3.7	U	10.7		10.7			P	
Silver			2.0	B	1.9	U	1.9	U		P	
Sodium											
Thallium											
Vanadium											
Zinc											
Cyanide											

U.S. EPA - CLP

3
BLANKS

Lab Name: PACE INC., NE-NH

Contract: LEJEUNE

Lab Code:

Case No.: OHMRC

SAS No.:

SDG No.: MLJN1A

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L)						Prepa- ration Blank		M
			1	C	2	C	3	C	C		
Aluminum											
Antimony											
Arsenic			16.8	B							P
Barium			8.8	B							P
Beryllium											
Cadmium			1.5	U							P
Calcium											
Chromium			3.7	U							P
Cobalt											
Copper											
Iron											
Lead			1.6	U							P
Magnesium											
Manganese											
Mercury											
Nickel											
Potassium											
Selenium			3.7	U							P
Silver			3.6	B							P
Sodium											
Thallium											
Vanadium											
Zinc											
Cyanide											

U.S. EPA - CLP

3
BLANKS

Lab Name: PACE INC., NE-NH

Contract: LEJEUNE

Lab Code:

Case No.: OHMRC

SAS No.:

SDG No.: MLJN1A

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		M
		C	1	C	2	C	3	C		C	
Aluminum											
Antimony											
Arsenic	2.8	U	2.8	U	2.8	U	2.8	U			P
Barium	2.7	U	2.7	U	2.7	U	2.7	U			P
Beryllium											
Cadmium	1.5	U	1.5	U	1.5	U	1.5	U			P
Calcium											
Chromium	3.7	U	3.7	U	3.7	U	3.7	U			P
Cobalt											
Copper											
Iron											
Lead	1.6	B	1.6	U	2.0	B	1.9	B			P
Magnesium											
Manganese											
Mercury											
Nickel											
Potassium											
Selenium	3.7	U	3.7	U	3.7	U	3.7	U			P
Silver	1.9	U	1.9	U	1.9	U	1.9	U			P
Sodium											
Thallium											
Vanadium											
Zinc											
Cyanide											

U.S. EPA - CLP

3
BLANKS

Lab Name: PACE INC., NE-NH

Contract: LEJEUNE

Lab Code:

Case No.: OHMRC

SAS No.:

SDG No.: MLJN1A

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		M
		C	1	C	2	C	3	C	C		
Aluminum											
Antimony											
Arsenic			2.8	U						P	
Barium			2.7	U						P	
Beryllium											
Cadmium			1.5	U						P	
Calcium											
Chromium			3.7	U						P	
Cobalt											
Copper											
Iron											
Lead			1.6	U						P	
Magnesium											
Manganese											
Mercury											
Nickel											
Potassium											
Selenium			3.7	U						P	
Silver			1.9	U						P	
Sodium											
Thallium											
Vanadium											
Zinc											
Cyanide											

U.S. EPA - CLP

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: PACE INC., NE-NH

Contract: LEJEUNE

Lab Code:

Case No.: OHMRC

SAS No.:

SDG No.: MLJN1A

ICP ID Number: TJA01

ICS Source: VHG\SOLNS+

Concentration Units: ug/L

Analyte	True		Initial Found			Final Found		
	Sol. A	Sol. AB	Sol. A	Sol. AB	%R	Sol. A	Sol. AB	%R
Aluminum	500000	500000	503004	502390.3	100.5	494705	496815.1	99.4
Antimony								
Arsenic								
Barium		500	-10	471.5	94.3	-11	477.6	95.5
Beryllium								
Cadmium		1000	2	904.5	90.4	4	903.2	90.3
Calcium	500000	500000	492751	492221.5	98.4	493844	497825.6	99.6
Chromium		500	-2	456.7	91.3	-2	469.1	93.8
Cobalt								
Copper								
Iron	200000	200000	184276	184332.4	92.2	186188	188187.4	94.1
Lead		1000	2	905.1	90.5	-2	925.7	92.6
Magnesium	500000	500000	489833	489733.0	97.9	484537	486963.4	97.4
Manganese								
Mercury								
Nickel								
Potassium								
Selenium								
Silver		1000	2	980.2	98.0	1	979.4	97.9
Sodium								
Thallium								
Vanadium								
Zinc								

U.S. EPA - CLP

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: PACE INC., NE-NH

Contract: LEJEUNE

Lab Code:

Case No.: OHMRC

SAS No.:

SDG No.: MLJN1A

ICP ID Number: TJA01

ICS Source: VHG\SOLNS+

Concentration Units: ug/L

Analyte	True		Initial Found			Final Found		
	Sol. A	Sol. AB	Sol. A	Sol. AB	%R	Sol. A	Sol. AB	%R
Aluminum	500000	500000				555628	546210.0	109.2
Antimony								
Arsenic								
Barium		500				-4	535.5	107.1
Beryllium								
Cadmium		1000				7	941.4	94.1
Calcium	500000	500000				526156	518839.5	103.8
Chromium		500				-4	487.2	97.4
Cobalt								
Copper								
Iron	200000	200000				200604	199624.8	99.8
Lead		1000				-61	907.4	90.7
Magnesium	500000	500000				538725	531466.9	106.3
Manganese								
Mercury								
Nickel								
Potassium								
Selenium								
Silver		1000				-1	1050.5	105.0
Sodium								
Thallium								
Vanadium								
Zinc								

U.S. EPA - CLP

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: PACE INC., NE-NH

Contract: LEJEUNE

Lab Code:

Case No.: OHMRC

SAS No.:

SDG No.: MLJN1A

ICP ID Number: TJA01

ICS Source: HP\IV

Concentration Units: ug/L

Analyte	True		Initial Found			Final Found		
	Sol. A	Sol. AB	Sol. A	Sol. AB	%R	Sol. A	Sol. AB	%R
Aluminum	500000	500000	481289	496030.6	99.2	508829	499911.9	100.0
Antimony								
Arsenic								
Barium		500	4	530.5	106.1	4	534.2	106.8
Beryllium								
Cadmium		1000	1	1011.7	101.2	1	1031.0	103.1
Calcium	500000	500000	471746	492115.1	98.4	507950	502787.6	100.6
Chromium		500	-1	499.5	99.9	-1	504.4	100.9
Cobalt								
Copper								
Iron	200000	200000	192546	197704.7	98.9	204563	199859.6	99.9
Lead		1000	0	1470.4	147.0	1	1500.9	150.1
Magnesium	500000	500000	491339	494791.2	99.0	524568	502625.2	100.5
Manganese								
Mercury								
Nickel								
Potassium								
Selenium								
Silver		1000	-1	1091.0	109.1	0	1092.3	109.2
Sodium								
Thallium								
Vanadium								
Zinc								

U.S. EPA - CLP

7

LABORATORY CONTROL SAMPLE

Lab Name: PACE INC., NE-NH

Contract: LEJEUNE

Lab Code:

Case No.: OHMRC

SAS No.:

SDG No.: MLJN1A

Solid LCS Source: VHG\MALL

Aqueous LCS Source: SOL+\LL\MALL

Analyte	Aqueous (ug/L)			Solid (mg/kg)				%R
	True	Found	%R	True	Found	C	Limits	
Aluminum								
Antimony								
Arsenic	2000.0	1922.28	96.1					
Barium	2000.0	1949.15	97.5					
Beryllium								
Cadmium	50.0	53.72	107.4					
Calcium								
Chromium	200.0	202.25	101.1					
Cobalt								
Copper								
Iron								
Lead	500.0	460.39	92.1					
Magnesium								
Manganese								
Mercury	8.0	8.03	100.4					
Nickel								
Potassium								
Selenium	2000.0	1879.67	94.0					
Silver	50.0	52.42	104.8					
Sodium								
Thallium								
Vanadium								
Zinc								
Cyanide								

U.S. EPA - CLP

7

LABORATORY CONTROL SAMPLE

Lab Name: PACE INC., NE-NH

Contract: LEJEUNE

Lab Code:

Case No.: OHMRC

SAS No.:

SDG No.: MLJN1A

Solid LCS Source: VHG\MALL

Aqueous LCS Source: SOL+\LL\MALL

Analyte	Aqueous (ug/L)			Solid (mg/kg)				%R
	True	Found	%R	True	Found	C	Limits	
Aluminum								
Antimony								
Arsenic	2000.0	1918.18	95.9					
Barium	2000.0	1988.40	99.4					
Beryllium								
Cadmium	50.0	50.30	100.6					
Calcium								
Chromium	200.0	187.40	93.7					
Cobalt								
Copper								
Iron								
Lead	500.0	482.86	96.6					
Magnesium								
Manganese								
Mercury								
Nickel								
Potassium								
Selenium	2000.0	1851.16	92.6					
Silver	50.0	47.12	94.2					
Sodium								
Thallium								
Vanadium								
Zinc								
Cyanide								

U.S. EPA - CLP

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: PACE INC., NE-NH

Contract: LEJEUNE

Lab Code:

Case No.:

SAS No.:

SDG No.: MLJN1A

ICP ID Number:

TJA01

Date:

07/25/95

Flame AA ID Number:

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum	308.22		200.0	10.5	P
Antimony	206.84		60.0	10.5	P
Arsenic	193.70		10.0	17.8	P
Barium	493.41		200.0	2.7	P
Beryllium	313.04		5.0	0.3	P
Cadmium	228.80		5.0	1.5	P
Calcium	317.93		5000.0	10.7	P
Chromium	267.72		10.0	3.7	P
Cobalt	228.62		50.0	1.2	P
Copper	324.75		25.0	2.5	P
Iron	259.94		100.0	9.4	P
Lead	220.35		3.0	10.8	P
Magnesium	279.08		5000.0	15.5	P
Manganese	257.61		15.0	0.8	P
Mercury			0.2		
Nickel	231.60		40.0	6.1	P
Potassium	766.49		5000.0	365.9	P
Selenium	196.03		5.0	23.7	P
Silver	328.07		10.0	1.9	P
Sodium	589.00		5000.0	6.4	P
Thallium			10.0		
Vanadium	292.40		50.0	3.5	P
Zinc	213.86		20.0	3.2	P

Comments:

U.S. EPA - CLP

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: PACE INC., NE-NH

Contract: LEJEUNE

Lab Code:

Case No.:

SAS No.:

SDG No.: MLJN1A

ICP ID Number:

TJA03

Date:

08/01/95

Flame AA ID Number:

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum	308.20		200.0	14.5	P
Antimony	206.80		60.0	2.6	P
Arsenic	189.00		200.0	2.8	P
Barium	493.40		200.0	0.1	P
Beryllium			5.0		
Cadmium	226.50		5.0	0.2	P
Calcium	317.90		5000.0	9.3	P
Chromium	267.70		10.0	0.5	P
Cobalt	228.60		50.0	0.6	P
Copper	324.70		25.0	1.1	P
Iron	271.40		100.0	14.3	P
Lead	220.30		3.0	1.6	P
Magnesium	279.00		5000.0	11.0	P
Manganese			15.0		
Mercury			0.2		
Nickel	231.60		40.0	1.0	P
Potassium			5000.0		
Selenium	196.00		5.0	3.7	P
Silver	328.00		10.0	0.7	P
Sodium			5000.0		
Thallium	190.80		10.0	5.5	P
Vanadium	292.40		50.0	0.5	P
Zinc	213.80		20.0	1.4	P

Comments:

U.S. EPA - CLP

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: PACE INC., NE-NH

Contract: LEJEUNE

Lab Code:

Case No.:

SAS No.:

SDG No.: MLJN1A

ICP ID Number:

Date: 05/23/95

Flame AA ID Number: PE02

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200.0		
Antimony			60.0		
Arsenic			10.0		
Barium			200.0		
Beryllium			5.0		
Cadmium			5.0		
Calcium			5000.0		
Chromium			10.0		
Cobalt			50.0		
Copper			25.0		
Iron			100.0		
Lead			3.0		
Magnesium			5000.0		
Manganese			15.0		
Mercury	253.70		0.2	0.1	CV
Nickel			40.0		
Potassium			5000.0		
Selenium			5.0		
Silver			10.0		
Sodium			5000.0		
Thallium			10.0		
Vanadium			50.0		
Zinc			20.0		

Comments:

PE02 IS A MERCURY COLD VAPOR INSTRUMENT.
CALCULATED IDL IS 0.08ug/L

TOXICITY CHARACTERISTIC LEACHING PROCEDURE (1)
EXTRACTION FOR NON-VOLATILE CONSTITUENTS

Laboratory Number : 44914-003
Field Identification : CLJ44-CU-016
Extraction Date : 08/09/95
TCLP Blank : 90,001-274

Sample description : NON-HOMOGENEOUS GRANULAR SOIL

Extraction Fluid Selection (1,2):

A 5.0 gm portion of the sample was stirred with 96.5 mL deionized water. The pH at the end of 5 minutes was 6.41. 3.5 mL 1.0N HCl was added and the mixture was then heated to 50C for ten minutes. Upon cooling the pH was 1.69, therefore Extraction Fluid #1 was used.

Sample Preparation (1):

Since the sample contained no free liquid, it was not filtered before extraction. 100 gm of sample was added to the extractor with 2000 mL Extraction Fluid #1.

Extraction Time : 17.00 hrs

Final pH : 5.27

% Solids as defined in method : 100

References:

1. 40 CFR Part 261, Appendix II, Nov. 24, 1992
2. Extraction Fluid: 0.57% by volume glacial acetic acid to which 0.1N NaOH has been added to yield a pH of 4.93 +/- 0.05.

TOXICITY CHARACTERISTIC LEACHING PROCEDURE (1)
EXTRACTION FOR NON-VOLATILE CONSTITUENTS

Laboratory Number : 44914-007
Field Identification : CLJ44-CU-017
Extraction Date : 08/09/95
TCLP Blank : 90,001-274

Sample description : NON-HOMOGENEOUS GRANULAR SOIL

Extraction Fluid Selection (1,2):

A 5.0 gm portion of the sample was stirred with 96.5 mL deionized water. The pH at the end of 5 minutes was 8.14. 3.5 mL 1.0N HCl was added and the mixture was then heated to 50C for ten minutes. Upon cooling the pH was 2.47, therefore Extraction Fluid #1 was used.

Sample Preparation (1):

Since the sample contained no free liquid, it was not filtered before extraction. 100 gm of sample was added to the extractor with 2000 mL Extraction Fluid #1.

Extraction Time : 17.00 hrs

Final pH : 5.41

% Solids as defined in method : 100

References:

1. 40 CFR Part 261, Appendix II, Nov. 24, 1992
2. Extraction Fluid: 0.57% by volume glacial acetic acid to which 0.1N NaOH has been added to yield a pH of 4.93 +/- 0.05.

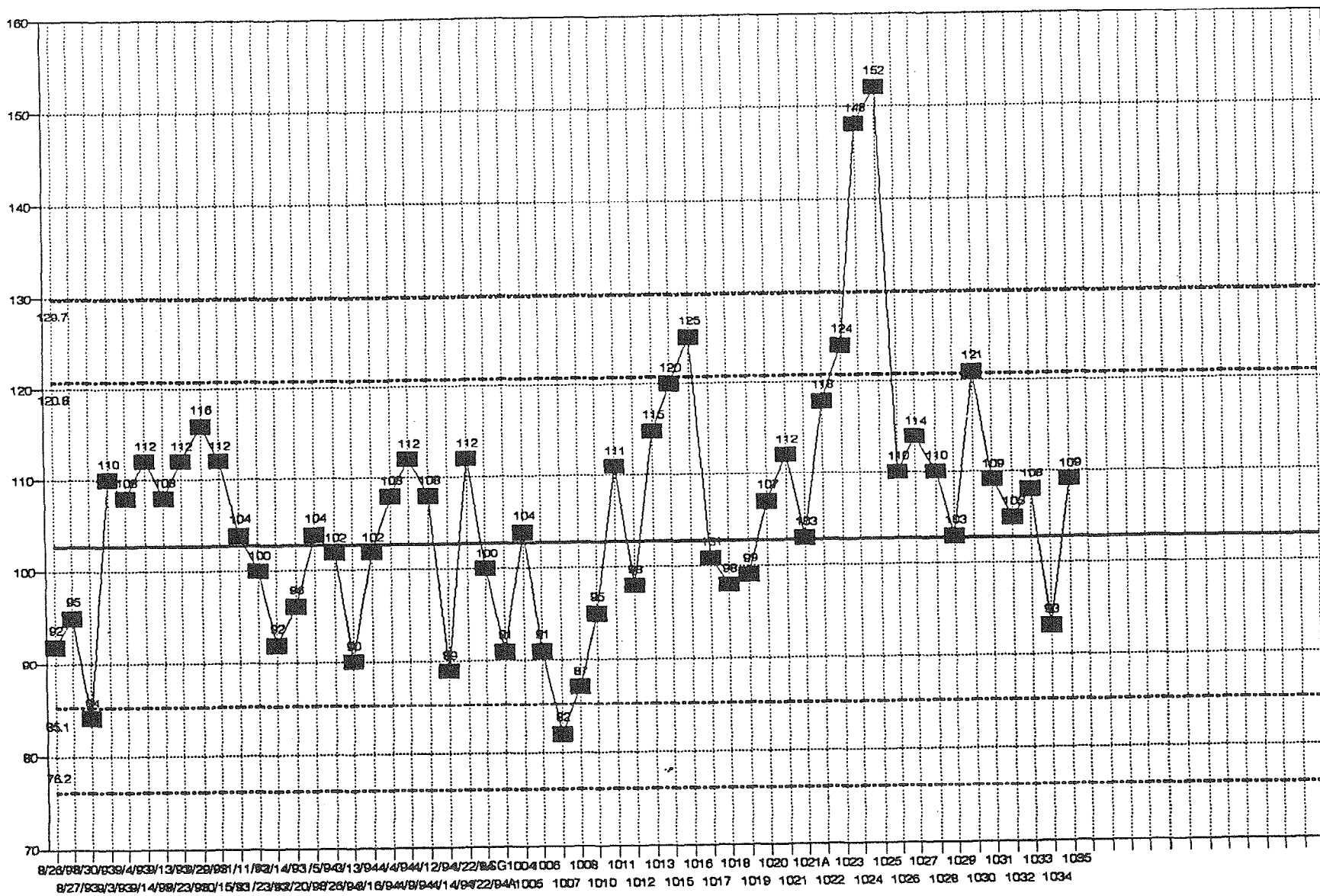
PACE New England, Inc.

Metals Results for TCLP Blank 274

ELEMENT	BLANK RESULT	
Arsenic	< 0.20	mg/L
Barium	< 0.10	mg/L
Cadmium	< 0.005	mg/L
Chromium	< 0.01	mg/L
Lead	< 0.05	mg/L
Mercury	< 0.0003	mg/L
Selenium	< 0.20	mg/L
Silver	< 0.02	mg/L

All results are methods 3010 and 6010,
except mercury (method 7470).

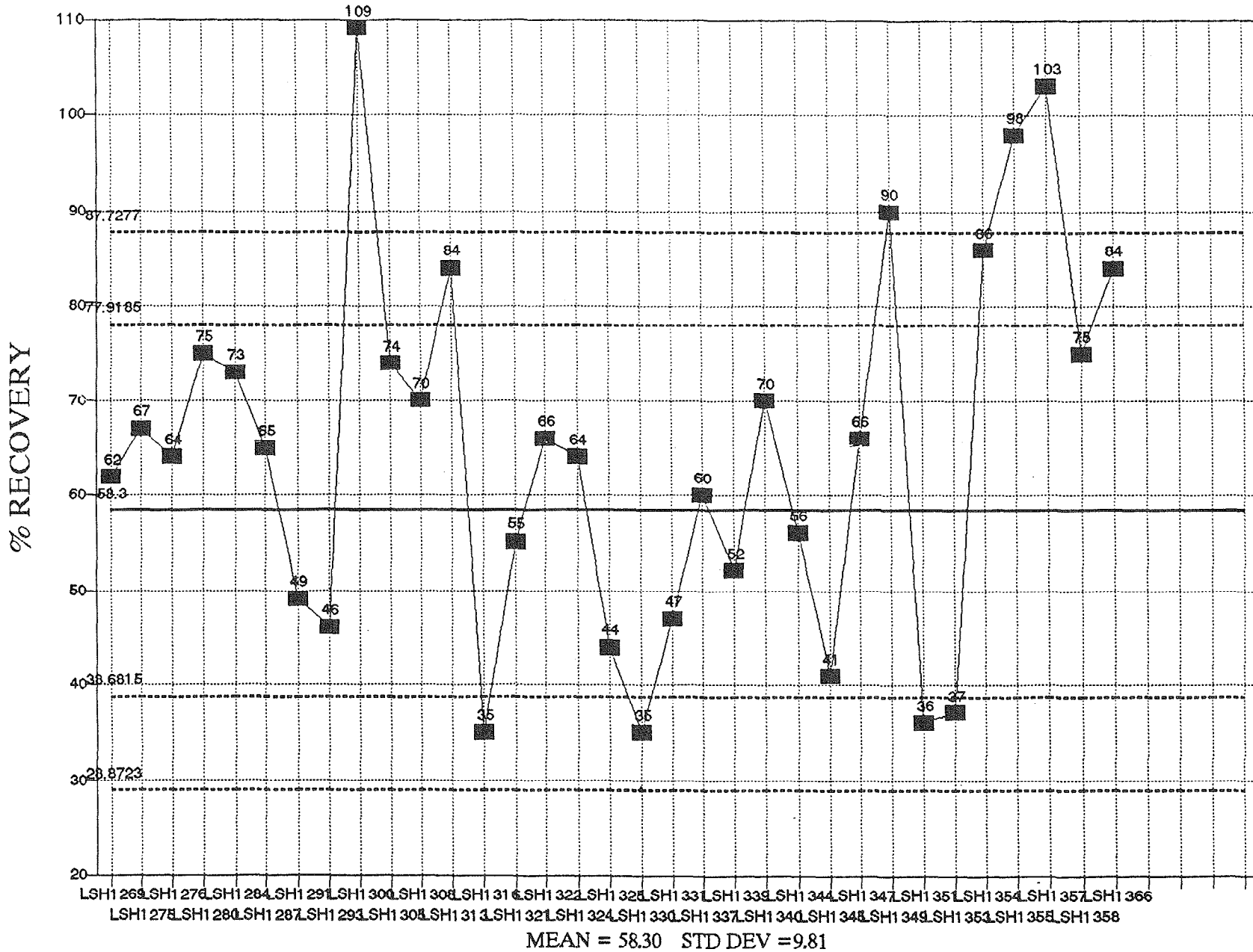
TOTAL GAS LCS RECOVERIES LIMITS SET 4/13/94



STD DEV = 8.93 MEAN = 103

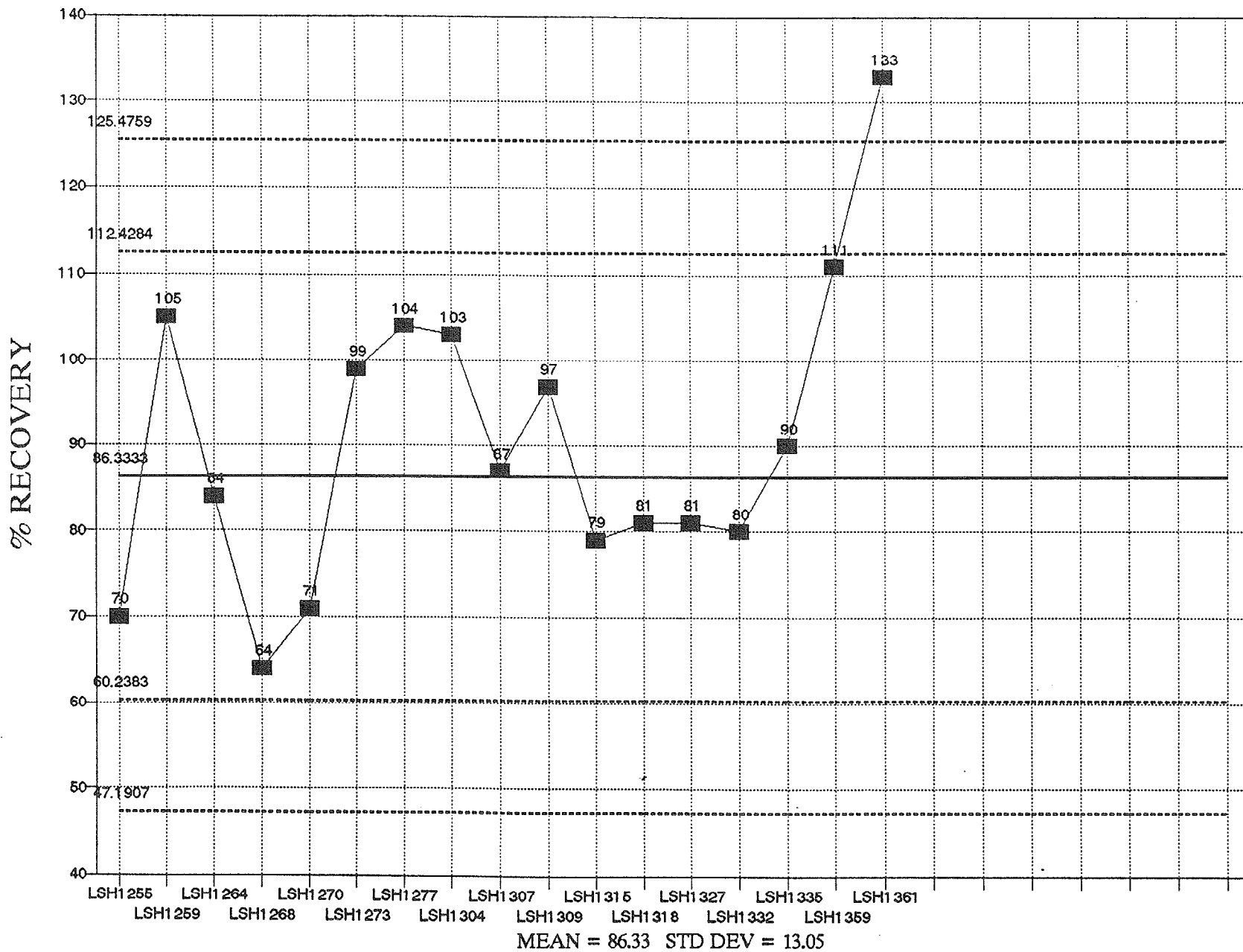
0000125

PHC LOW SOLIDS - DIESEL
 SPK REC LIMS SET6/6/95-PPCBCHT\PHCS1294



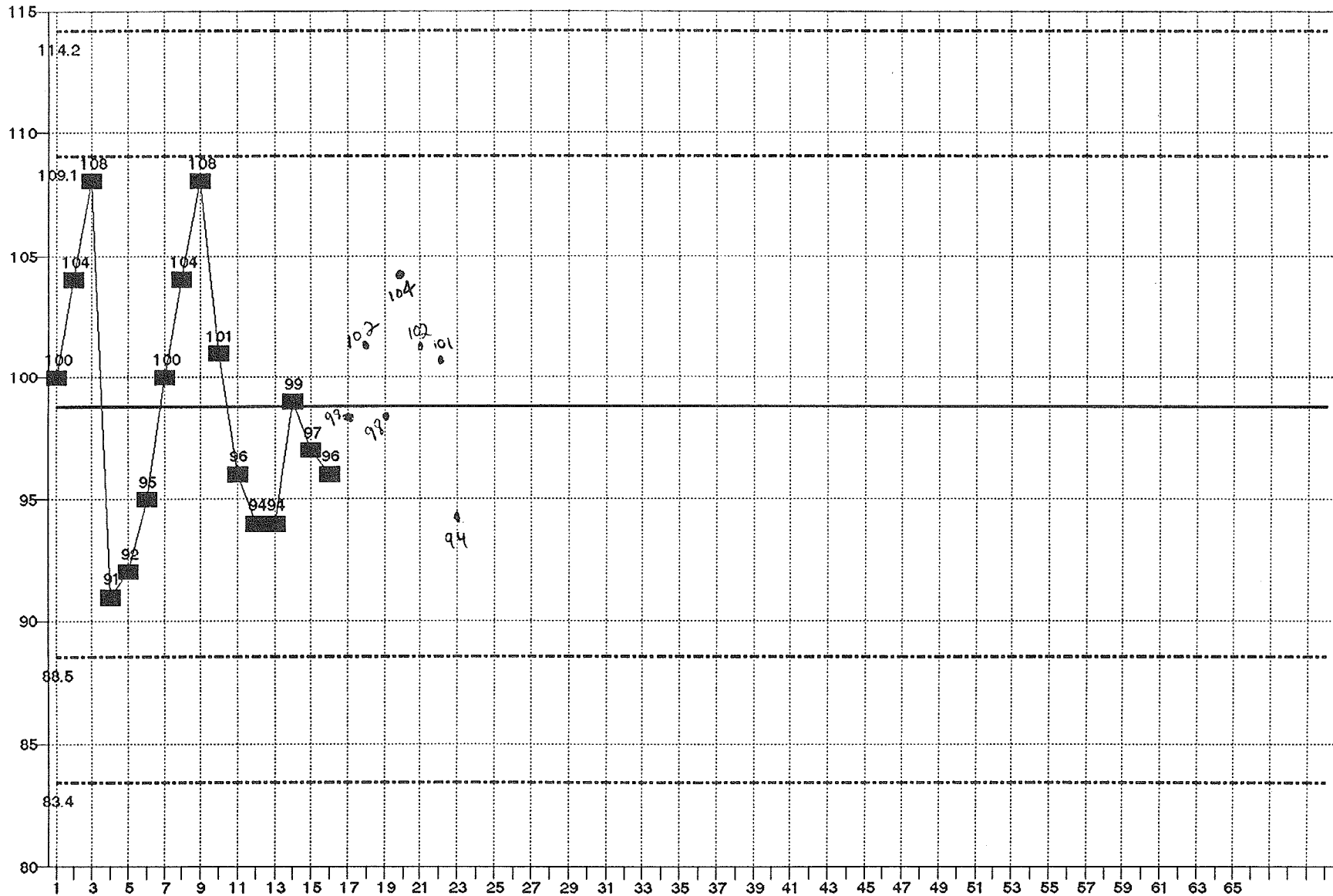
0000126

PHC WATERS BY SEPF - DIESEL
 SPK REC LIMS SET0795-PPCBCHT\PHCWSF94



0000127

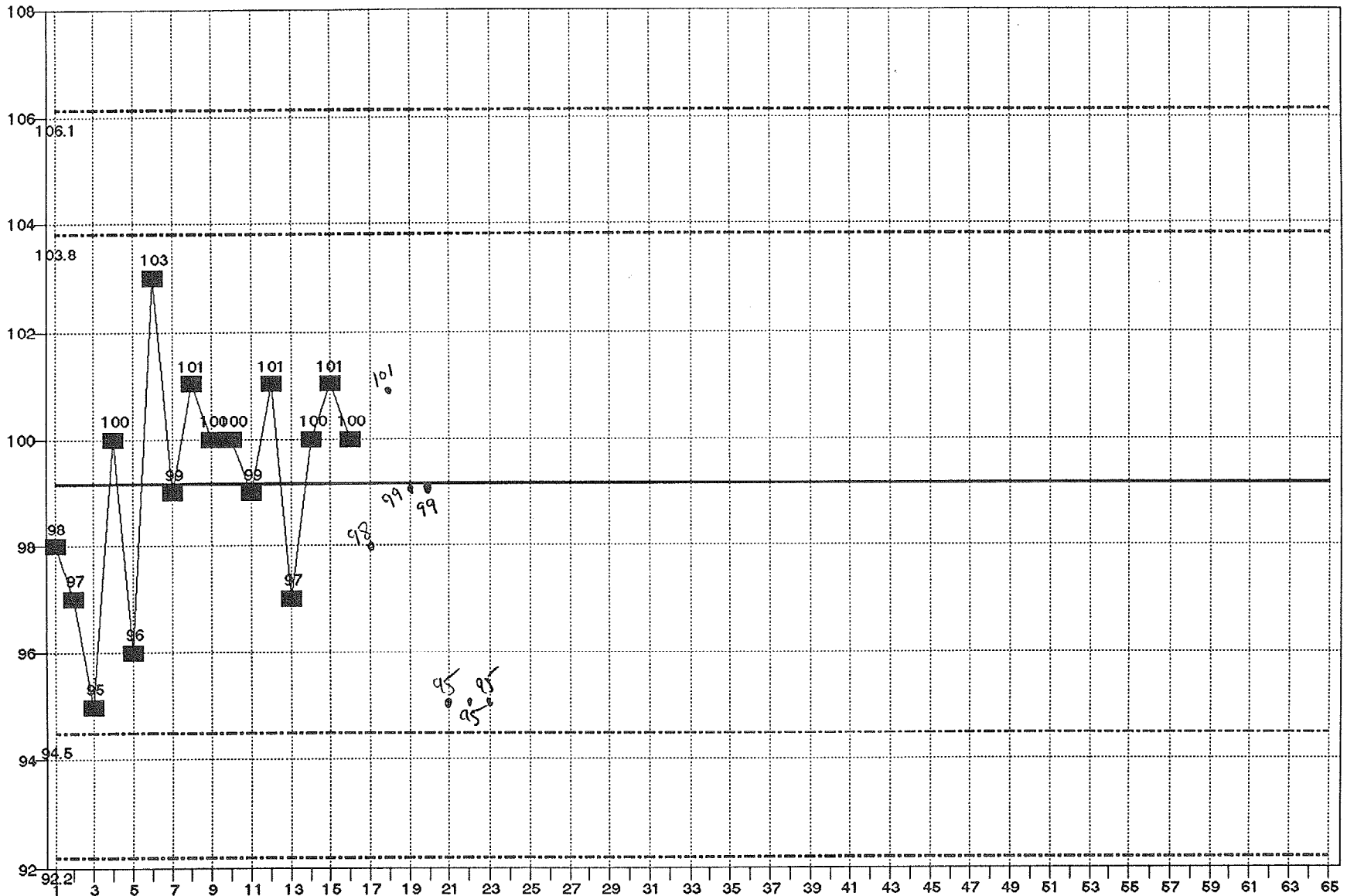
VOA TCLP - SURR DCE LIMIT SET 7/93



STD DEV = 5.13 MEAN = 98.8

0000128

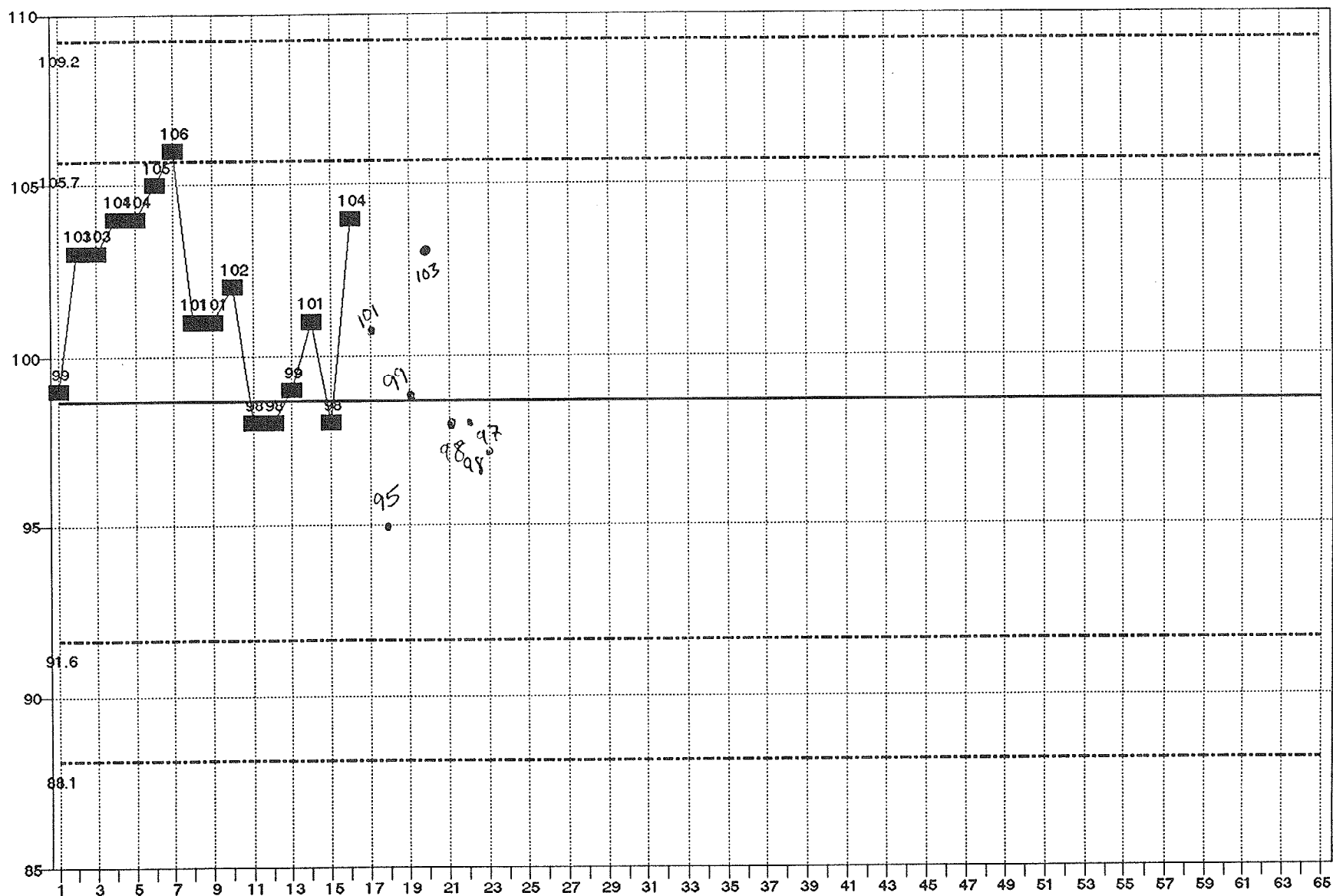
VOA TCLP - SURR TOL LIMIT SET 7/93



STD DEV = 2.32 MEAN = 99.1

0000129

VOA TCLP - SURR BFB LIMIT SET 7/93

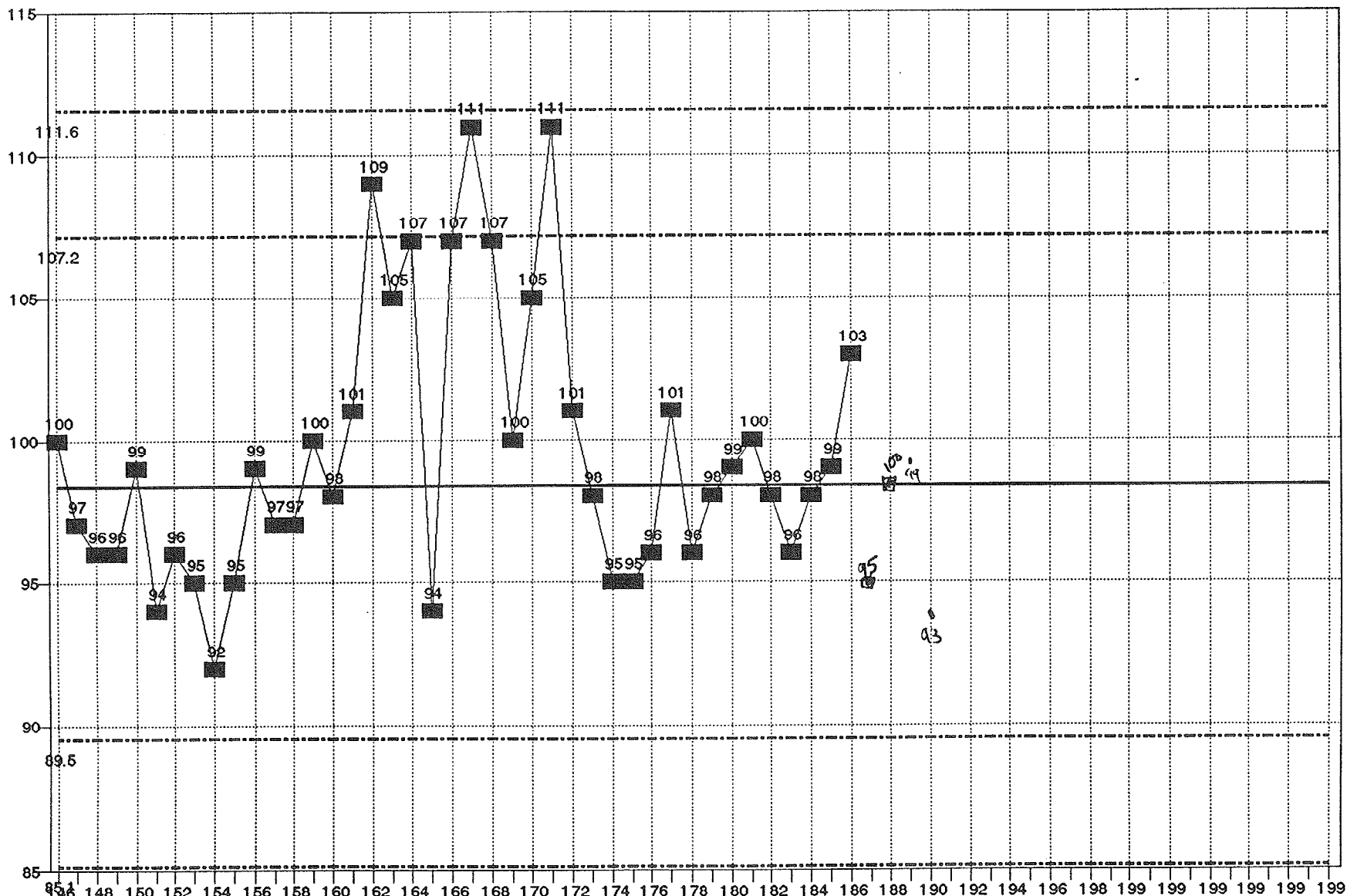


STD DEV = 3.51 MEAN = 98.6

0000130

1	TCLP BLANK	340	03/16/94
2	TCLP BLANK	340	03/17/94
3	TCLP BLANK	341	03/17/94
4	TCLP BLANK	341	03/18/94
5	TCLP BLANK	342	03/18/94
6	TCLP BLANK	341	03/22/94
7	TCLP BLANK	343	03/25/94
8	TCLP BLANK	343	03/28/94
9	TCLP BLANK	344	03/28/94
10	TCLP BLANK	345	03/28/94
11	TCLP BLANK	346	04/07/94
12	TCLP BLANK	347	04/19/94
13	TCLP BLANK	349	05/11/94
14	TCLP BLANK	350	05/16/94
15	TCLP BLANK	352	05/17/94
16	TCLP BLANK	354	06/06/94
17	TCLP BLANK	357	7/12/94
18	TCLP BLANK	358	7/15/94
19	TCLP BLANK	360	7/27/94
20	TCLP BLANK	369	11/10/94
21	TCLP BLANK	386	
22	TCLP BLANK	388	
23	TCLP BLANK	389	

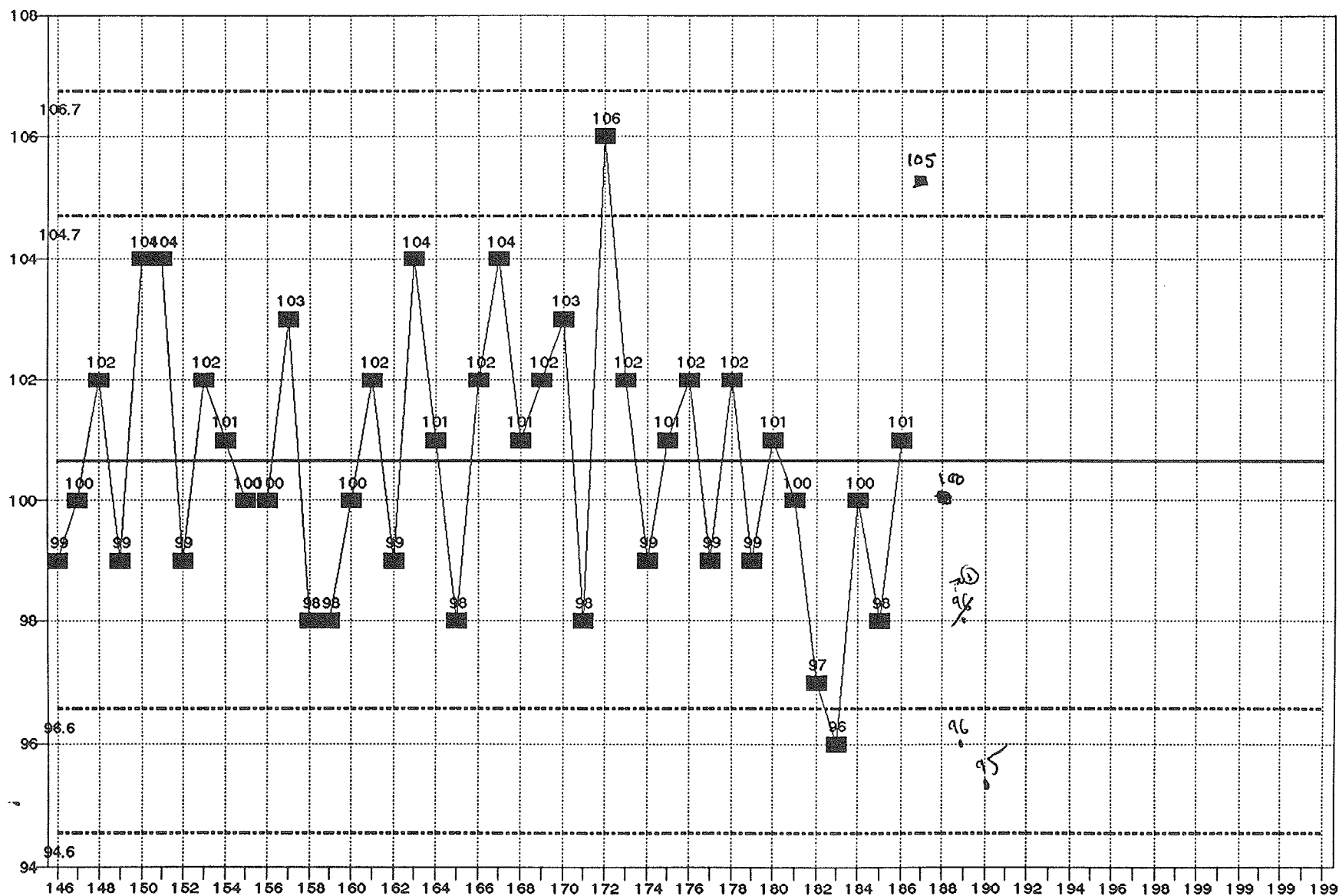
VOA WATERS - SURR DCE LIMITS SET 4/95



STD DEV = 4.40 MEAN = 98.4

0000132

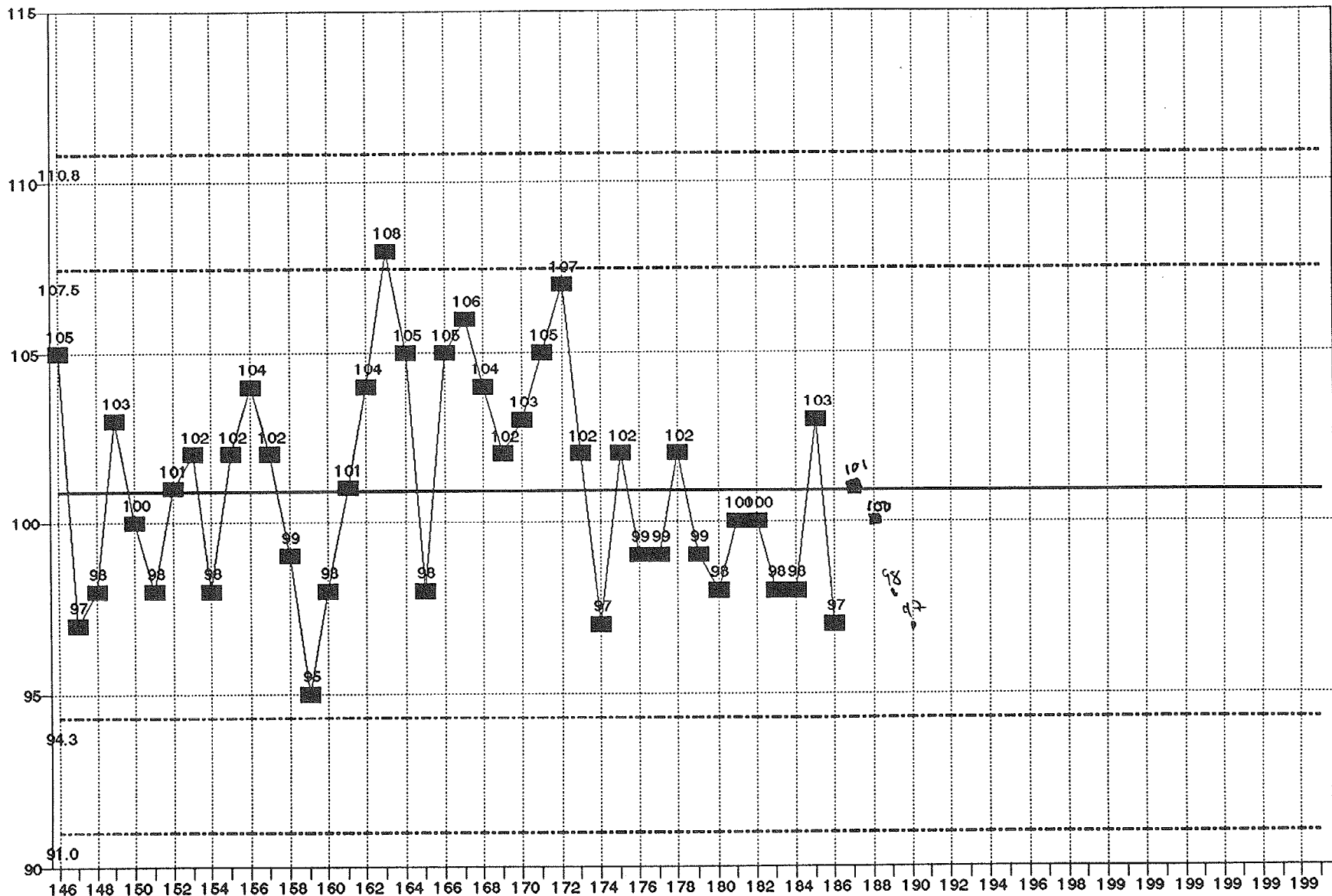
VOA WATERS - SURR TOL LIMIT SET 4/95



STD DEV = 2.03 MEAN = 100.6

0000133

VOA WATERS - SURR BFB LIMIT SET 4/95



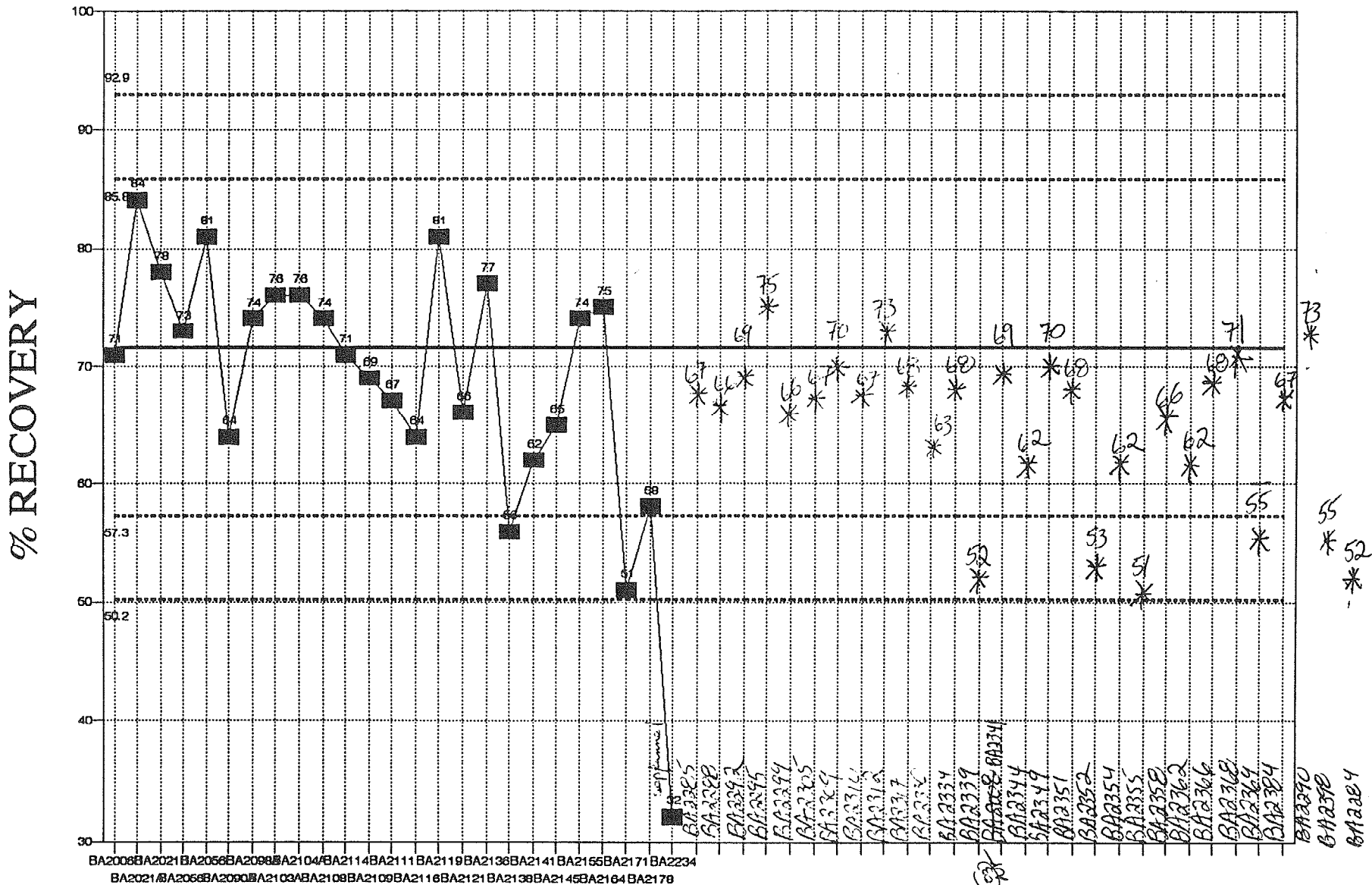
STD DEV = 3.31 MEAN = 100.9

0000134

VOLATILES -- WATER SURROGATE CONTROL CHARTS
 POINT / BLANK

21	BE081892A	69	BC041493A	117	BE070794A	165	BC041295A
22	BC082192A	70	BE052593B	118	BE070894A	166	BI042095B
23	BE082092A	71	BE060193A	119	BC063094A	167	BI042195A
24	BC082592A	72	BE060393A	120	BC072794A	168	BI042495A
25	BC082692A	73	BC062193A	121	BD072794A	169	BC042595B
26	BE082792A	74	BE051393A	122	BD072894A	170	BI042595A
27	BE082892B	75	BC062493A	123	BD072994A	171	BI042795A
28	BE083092A	76	BD051993A	124	BE081194A	172	BI050195A
29	BD101492A	77	BD052093B	125	BC081994A	173	BC050595A
30	BC100992A	78	BC063093A	126	BE101194A	174	BC050695A
31	BC110692A	79	BC061093A	127	BE101294B	175	BG050295B
32	BC111992A	80	BE051393A	128	BG101494A	176	BC062995B
33	BE112092A	81	BD072293A	129	BC110294B	177	BC063095B
34	BC112392A	82	BD072393A	130	BC110394B	178	BC072495A
35	BG113092B	83	BD072693A	131	BC110794B	179	BC072695A
36	BG120192A	84	BD072793A	132	BC110894B	180	BI080895A
37	BC122292A	85	BD073093A	133	BC110994A	181	BI080995A
38	BG013093B	86	BC080493A	134	BC111594B	182	BC080295A
39	BC012193A	87	BC080593A	135	BC111794B	183	BC080495A
40	BD021693A	88	BE091793A	136	BC111894B	184	BC080795A
41	BD021793A	89	BC092093B	137	BG111094A	185	BC080895A
42	BD021893A	90	BC093093B	138	BC120194B	186	BI081095A
43	BD021993A	91	BG093093A	139	BC120294B	187	BI081195A
44	BD022293A	92	BE120693A	140	BC120594B	188	BI080995A
45	BD022393A	93	BE120793A	141	BC120694B	189	BC081195A
46	BD022493A	94	BE121793A	142	BC120794B	190	BC081495A
47	BG030293A	95	BC122793B	143	BC121594B	191	
48	BC030193B	96	BC122893A	144	BG120394B	192	
49	BG030393A	97	BG021094A	145	BC122294B	193	
50	BG030493A	98	BG021194A	146	BC122994B	194	
51	BG031593A	99	BG021494A	147	BE121694A	195	
52	BG031693A	100	BG021594A	148	BE020995B	196	
53	BD031893A	101	BC022394B	149	BE021395A	197	
54	BD031993A	102	BC022494C	150	BE021595A	198	
55	BC032293B	103	BC022594B	151	BE021695A	199	
56	BC032393A	104	BG022594B	152	BC032295A	200	
57	BC041293A	105	BG022894A	153	BC032395A	201	
58	BC041393A	106	BG030394A	154	BC032495A	202	
59	BC041993A	107	BD022194A	155	BC032795A	203	
60	BE042893A	108	BC031194A	156	BC040695A	204	
61	BE042993A	109	BC031594B	157	BC041195B	205	
62	BE043093A	110	BG040794A	158	BC041395A	206	
63	BE050393A	111	BC041294B	159	BC041495A	207	
64	BE050493A	112	BG042894A	160	BG041095B	208	
65	BE050593A	113	BG042994A	161	BG041495B	209	
66	BE050693A	114	BC050994C	162	BI041395A	210	
67	BE051093A	115	BG060394A	163	BI041895B	211	
68	BE051193A	116	BC050394B	164	BI041995A	212	

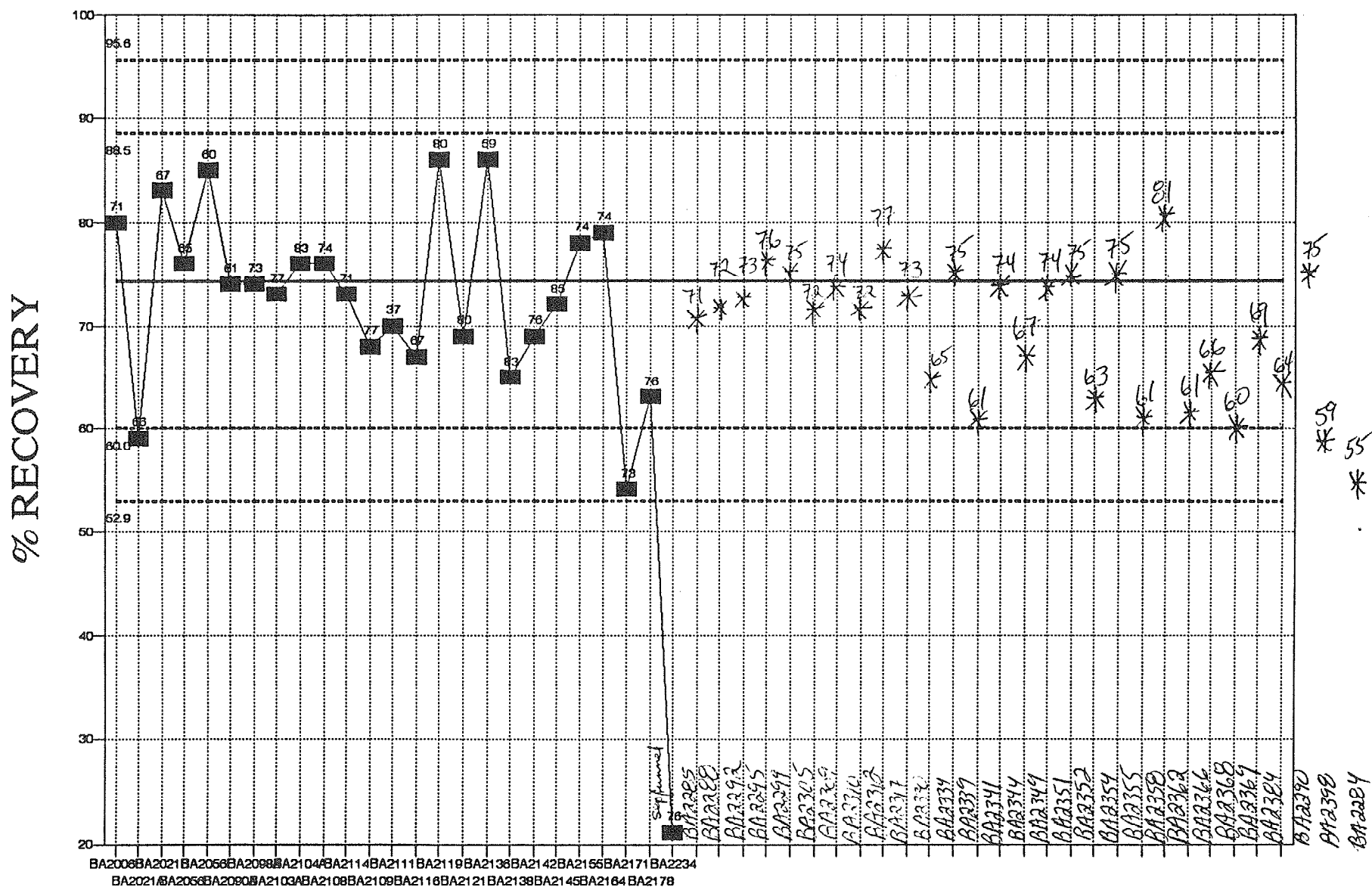
ABN WATER 3520/8270, 2-FLUOROPHENOL SURR, LIMITS SET 2/95



STD DEV = 7.12 MEAN = 71.6

0000136

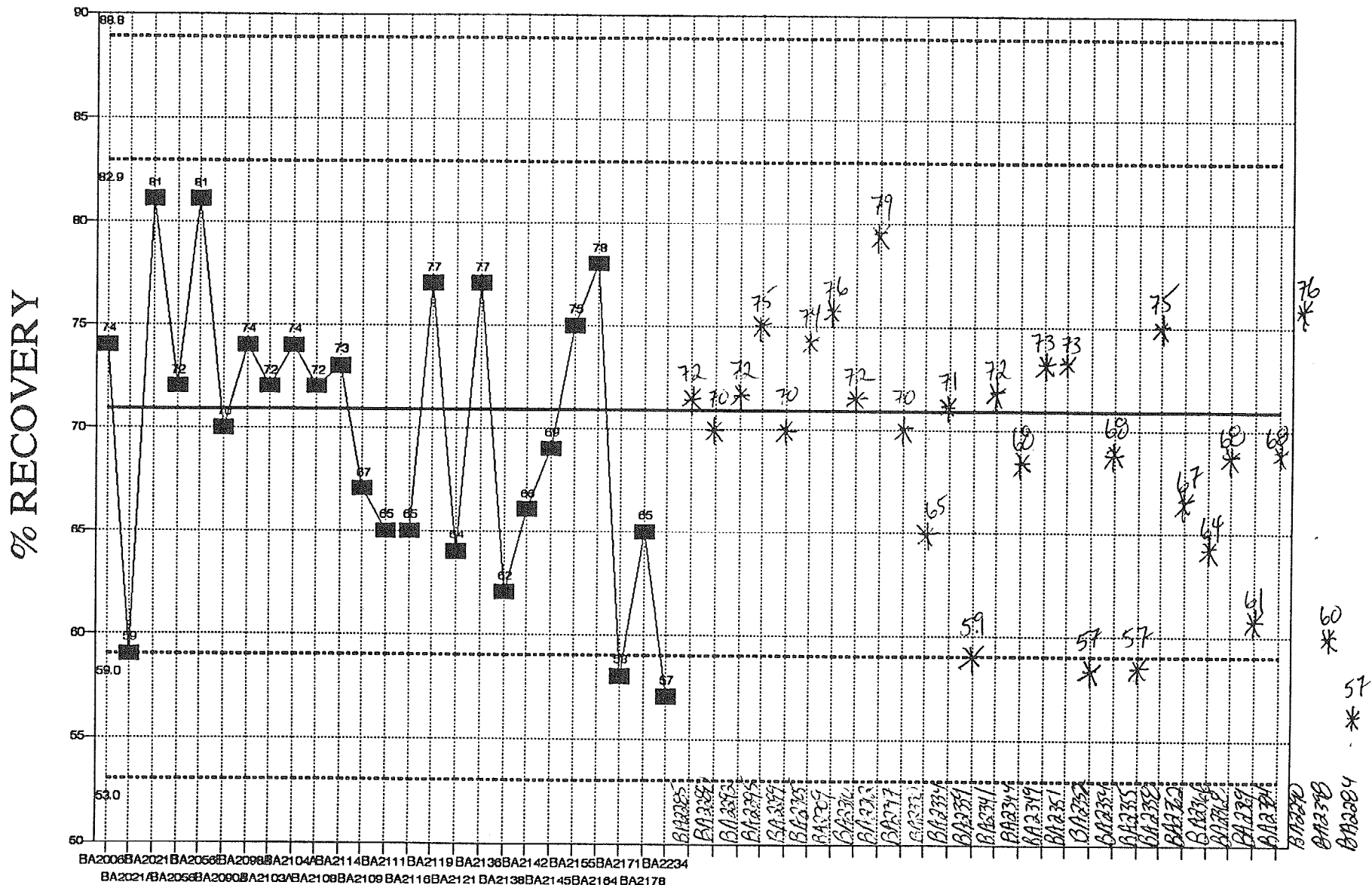
ABN WATER 3520/8270, PHENOL-D5 SURR, LIMITS SET 2/95



STD DEV = 7.13 MEAN = 74.2

0000137

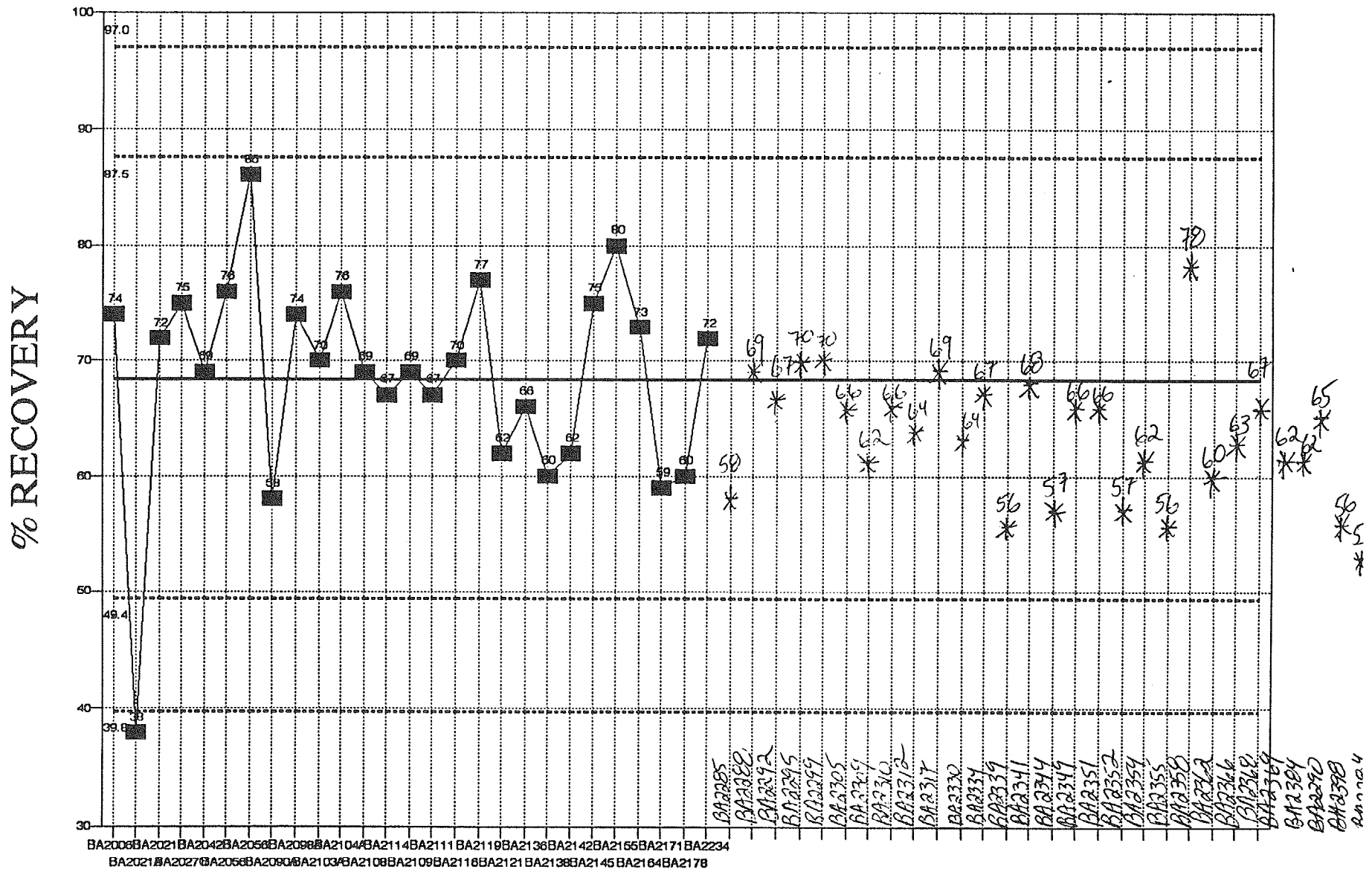
ABN WATER 3520/8270, 2-CHLOROPHENOL-D4 SURR, LIMITS SET 2/95



STD DEV = 5.97 MEAN = 70.9

0000138

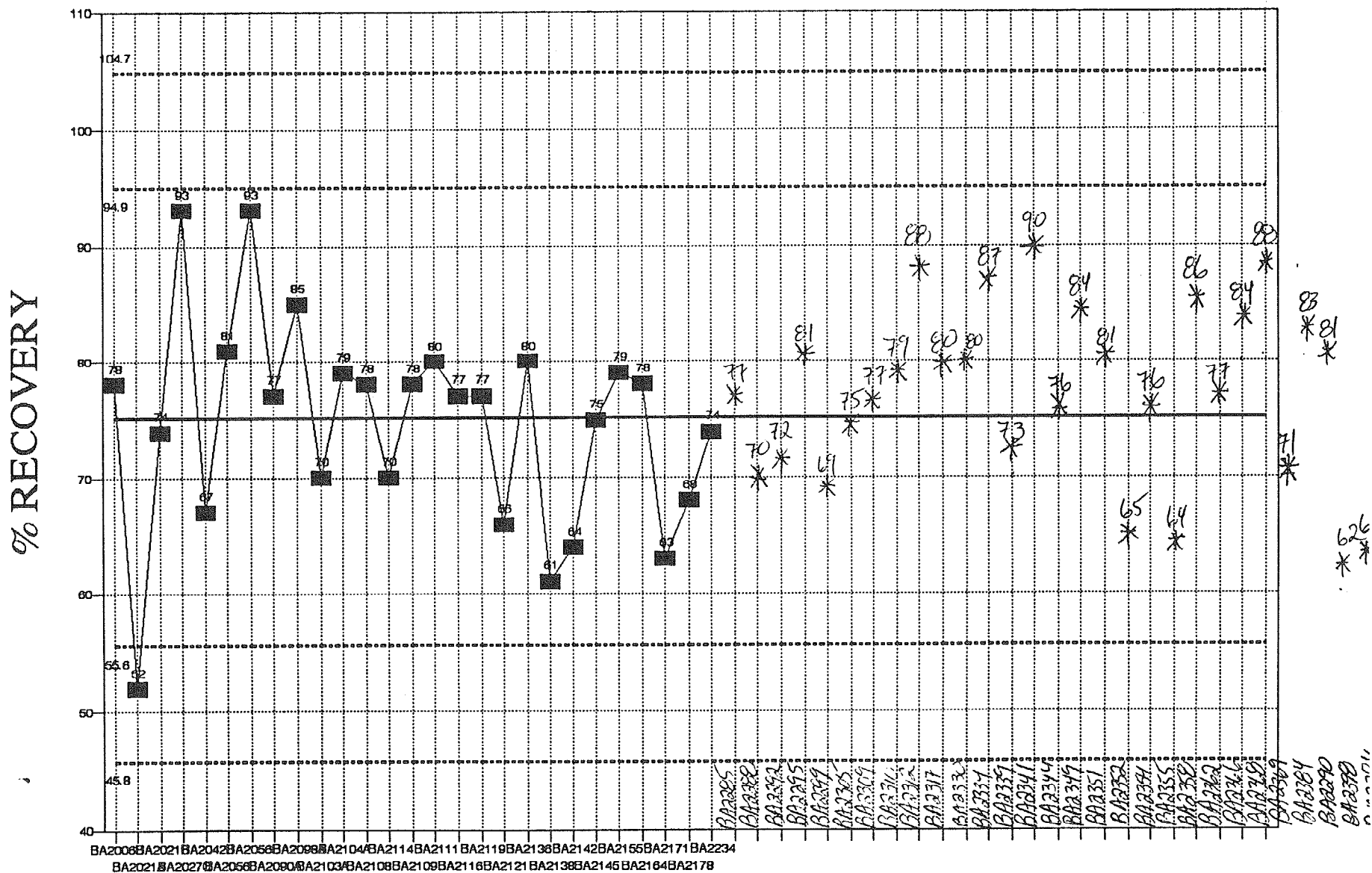
ABN H2O 3520/8270, 1,2-DICHLOROBENZENE- SURR, LIMITS SET 2/95



STD DEV = 9.54 MEAN = 68.4

0000139

ABN H2O 3520/8270, NITROBENZENE-D5 SURR, LIMITS SET 2/95

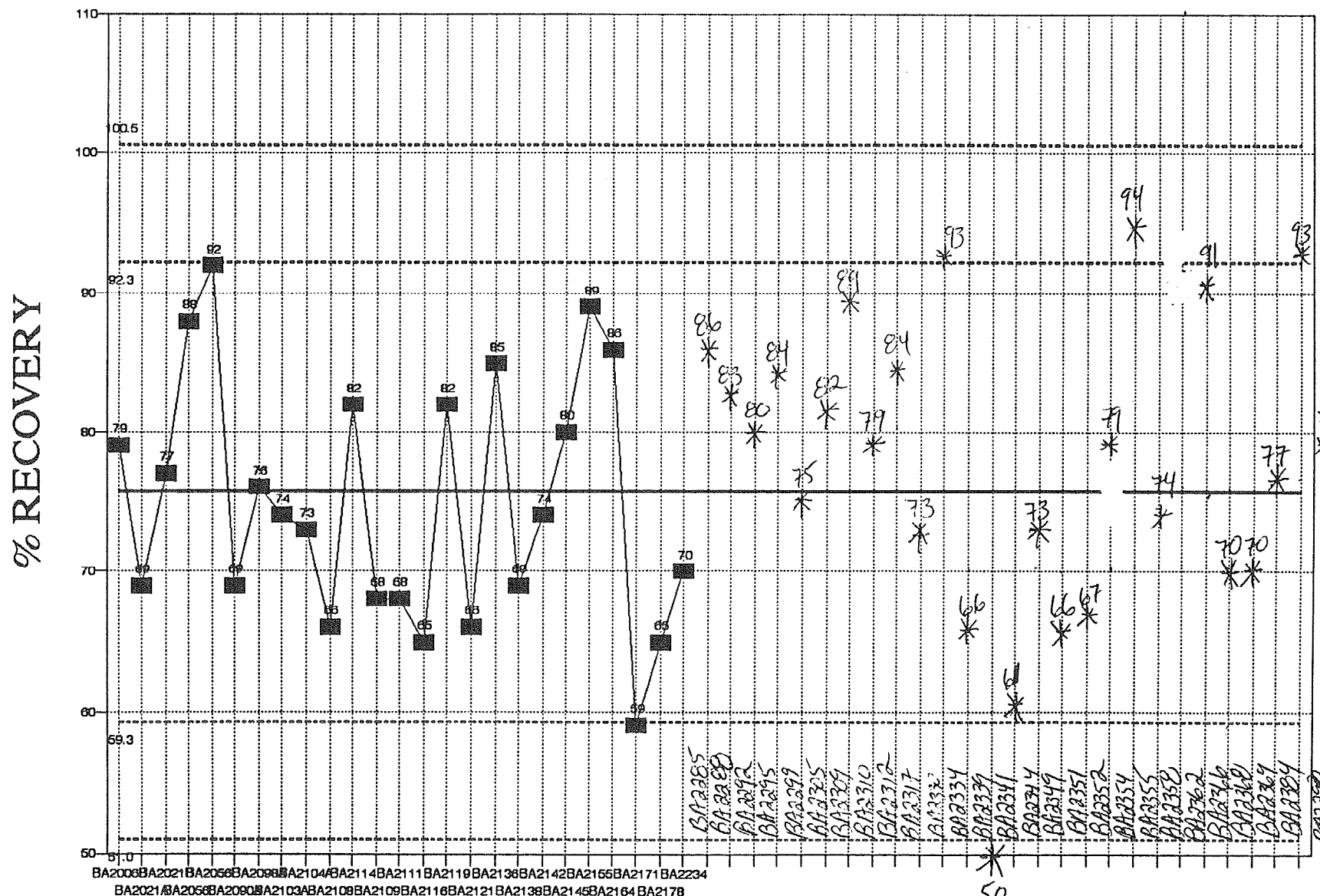


STD DEV = 9.82 MEAN = 75.2

0000140

ABN H2O 3520/8270, 2,4,6-TRIBROMOPHENOL SURR, LIMITS SET 2/95

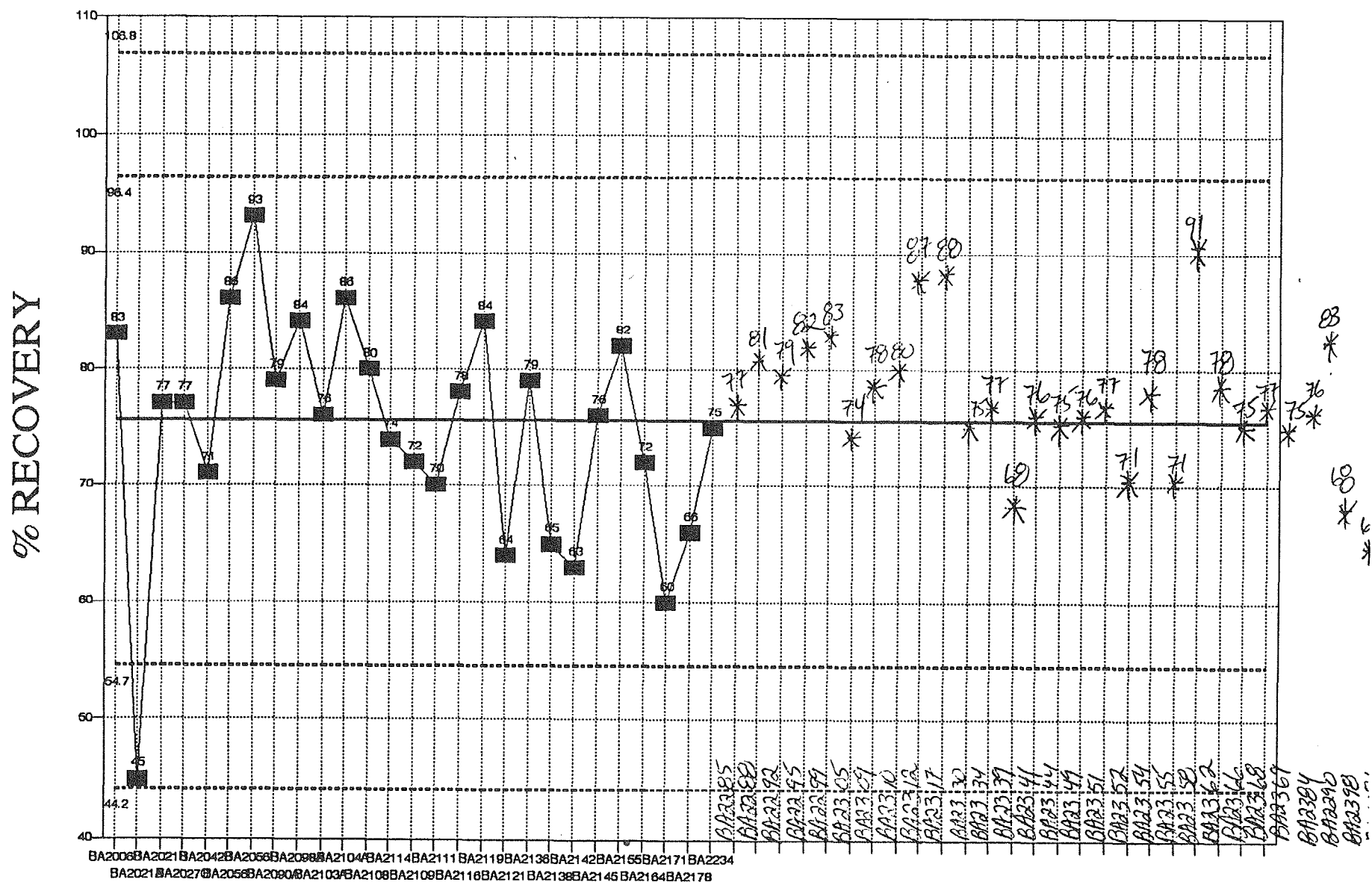
120
*



STD DEV = 8.24 MEAN = 75.8

0000141

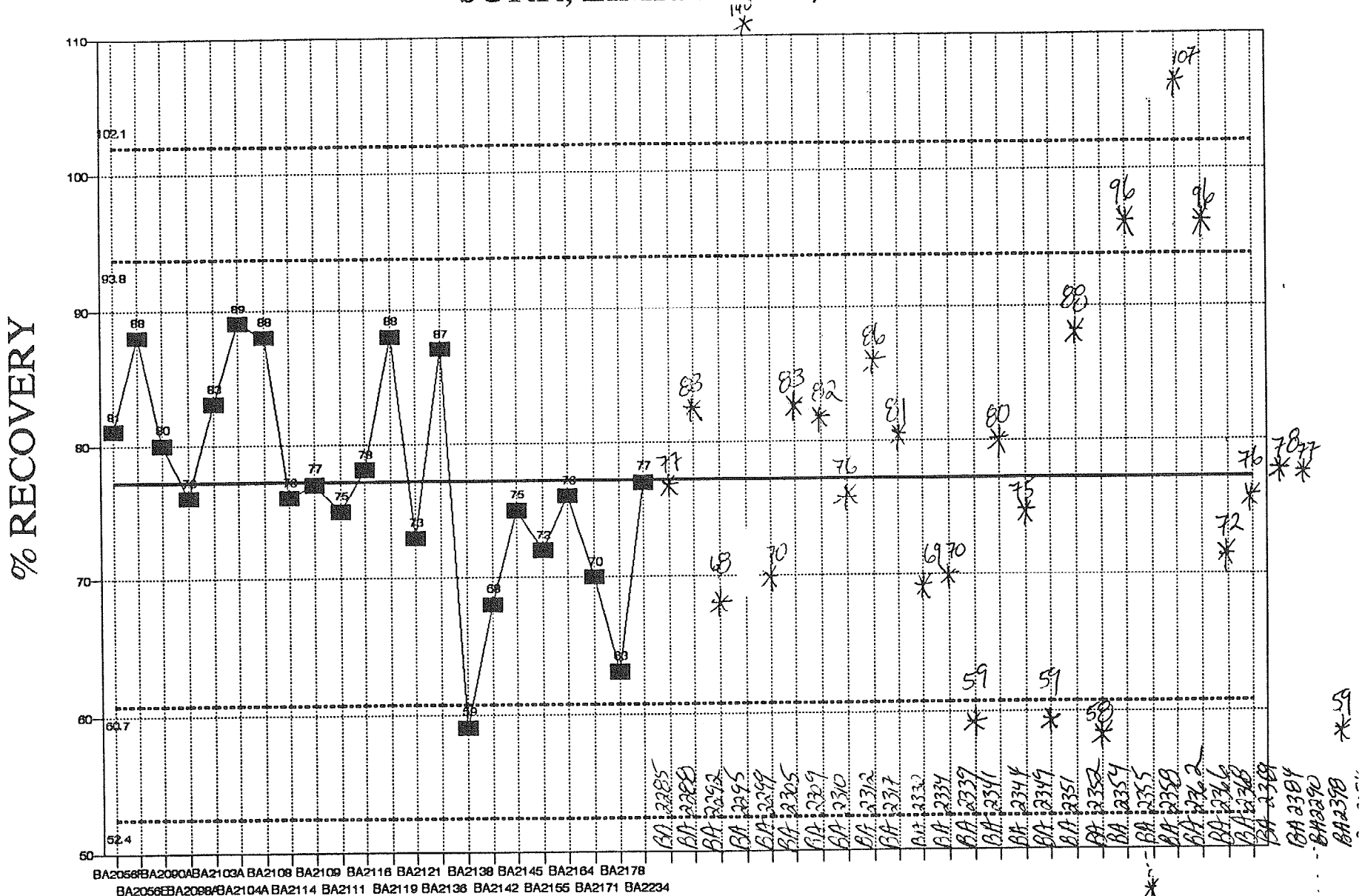
ABN H2O 3520/8270, 2-FLUOROBIPHENYL SURR, LIMITS SET 2/95



STD DEV = 10.4 MEAN = 75.5

0000142

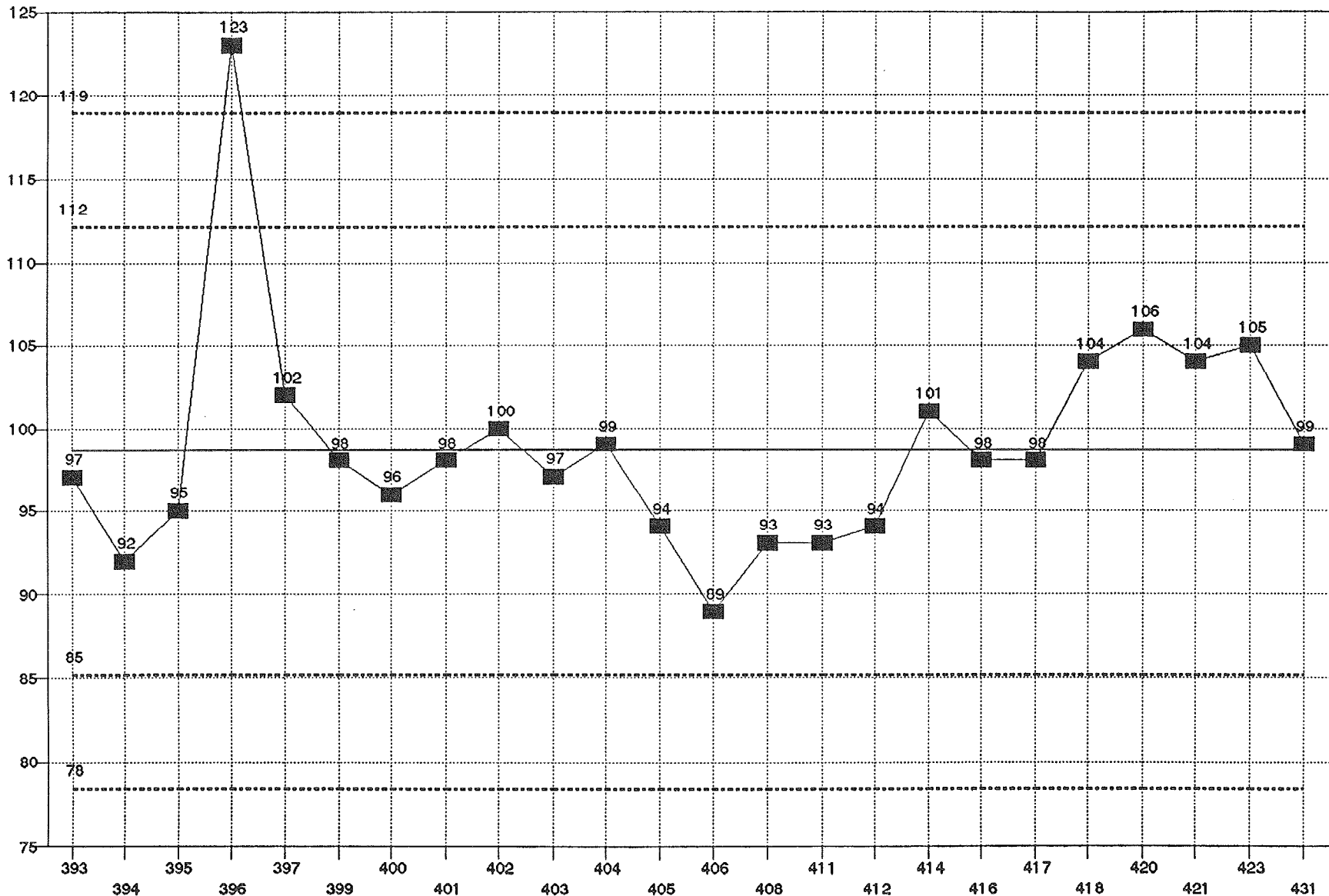
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STD DEV = 8.78 MEAN = 77.2

0000143

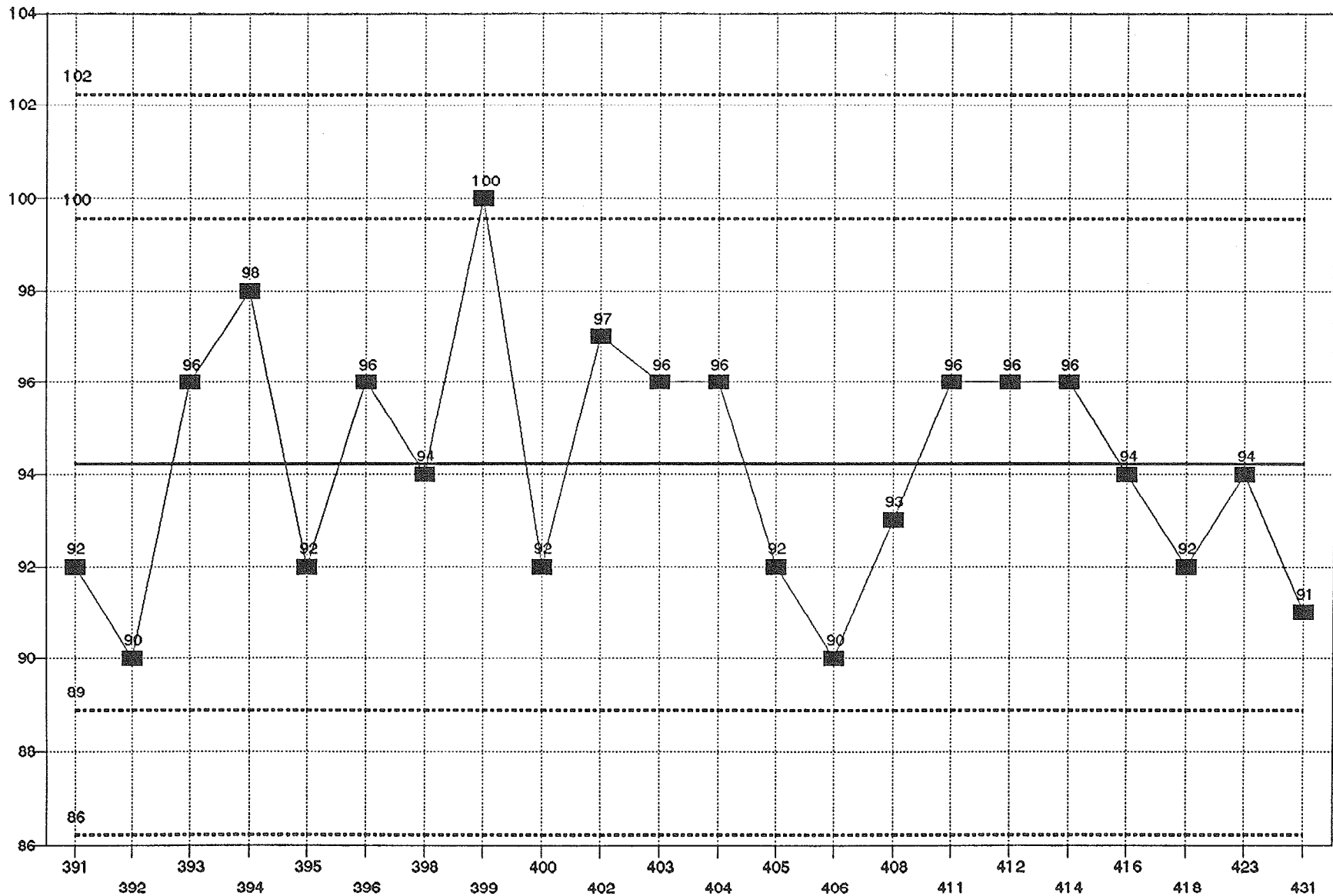
Ag COMMERCIAL LCS WATER RECOVERIES LIMITS SET 8/95



STD DEV = 6.75 MEAN = 98.6

0000144

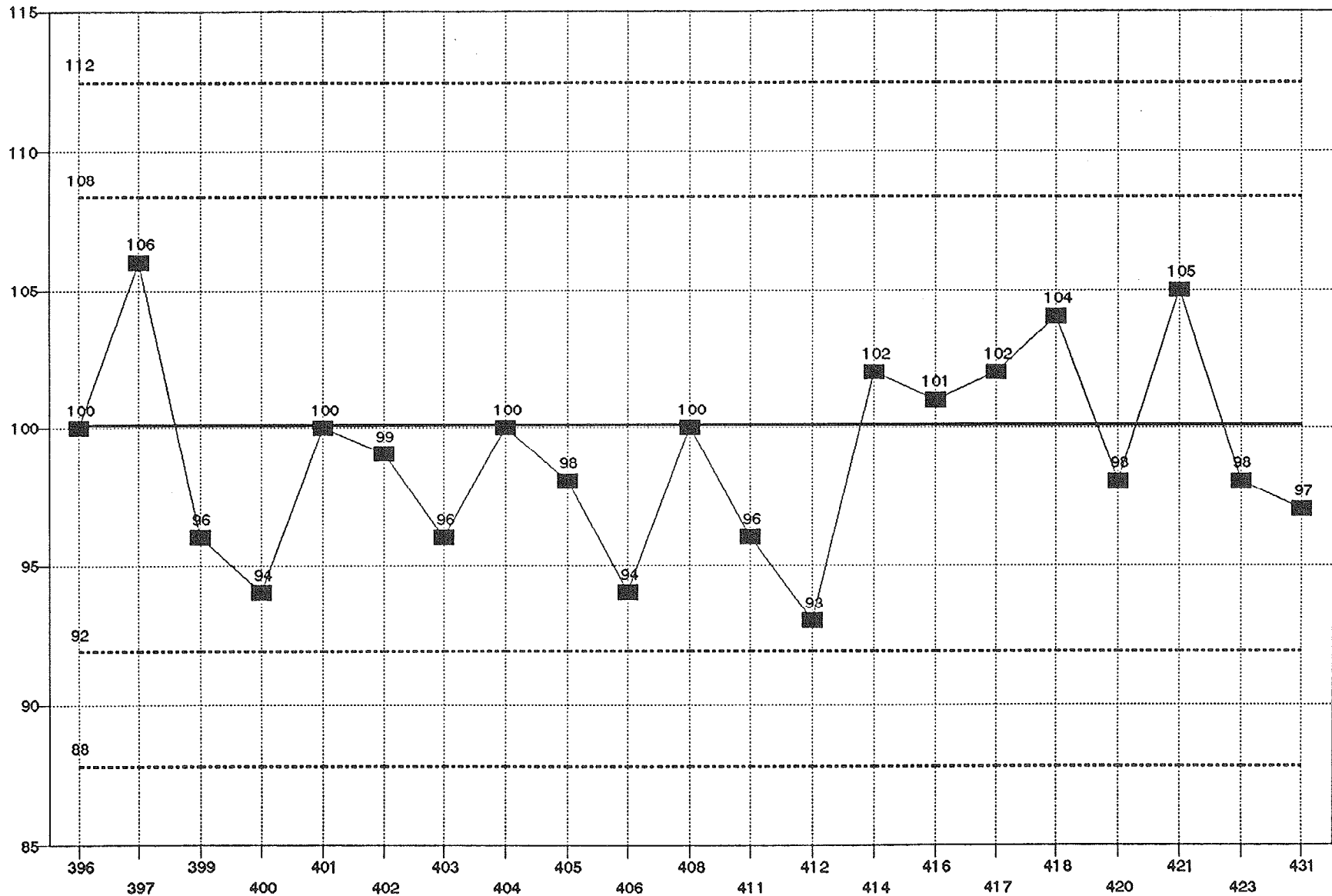
AS TRACECOMMERCIAL LCS WATER RECOVERIES LIMITS SET 8/95



STD DEV = 2.67 MEAN = 94.2

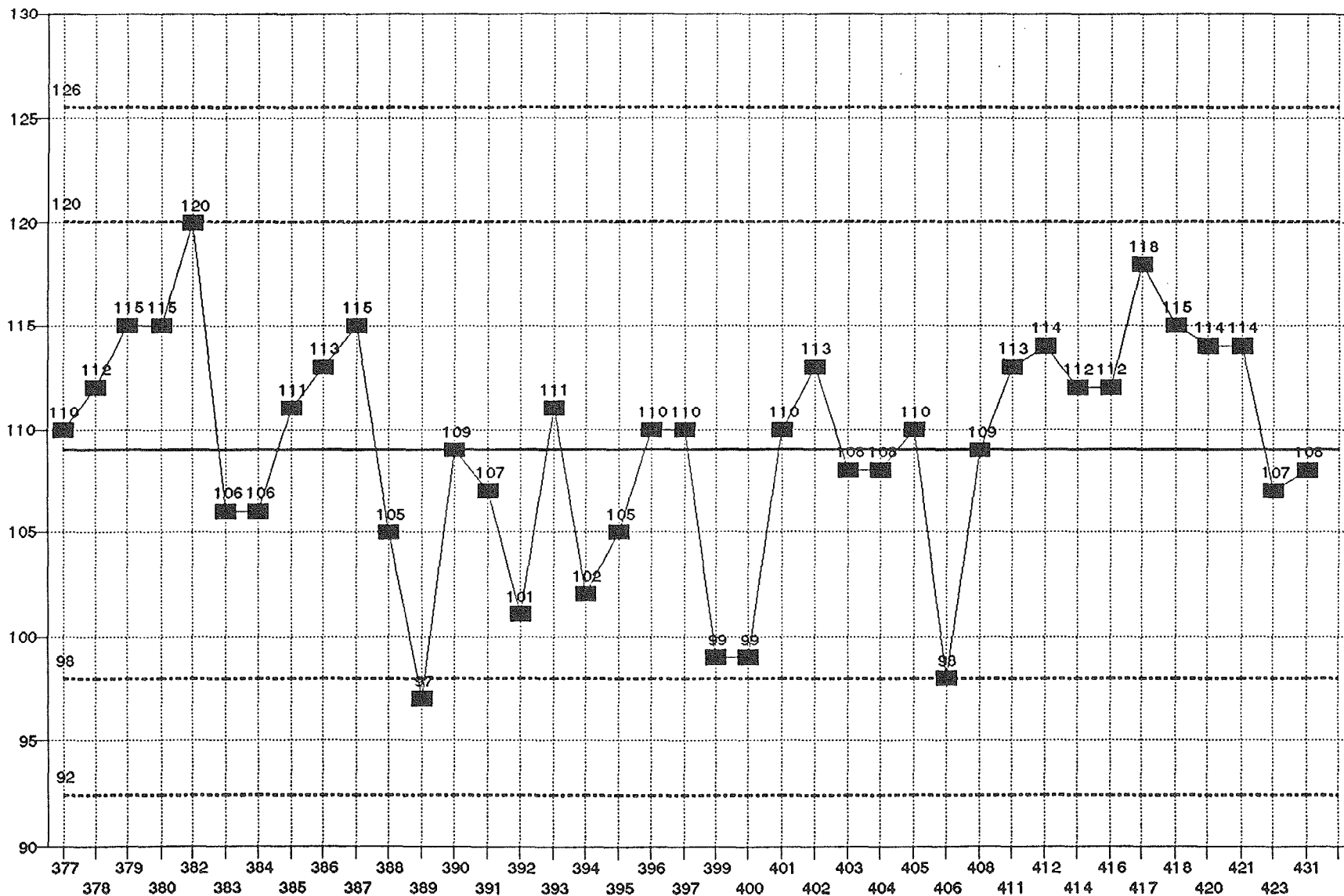
0000145

Ba COMMERCIAL LCS WATER RECOVERIES LIMITS SET 7/95



STD DEV = 4.10 MEAN = 100.1

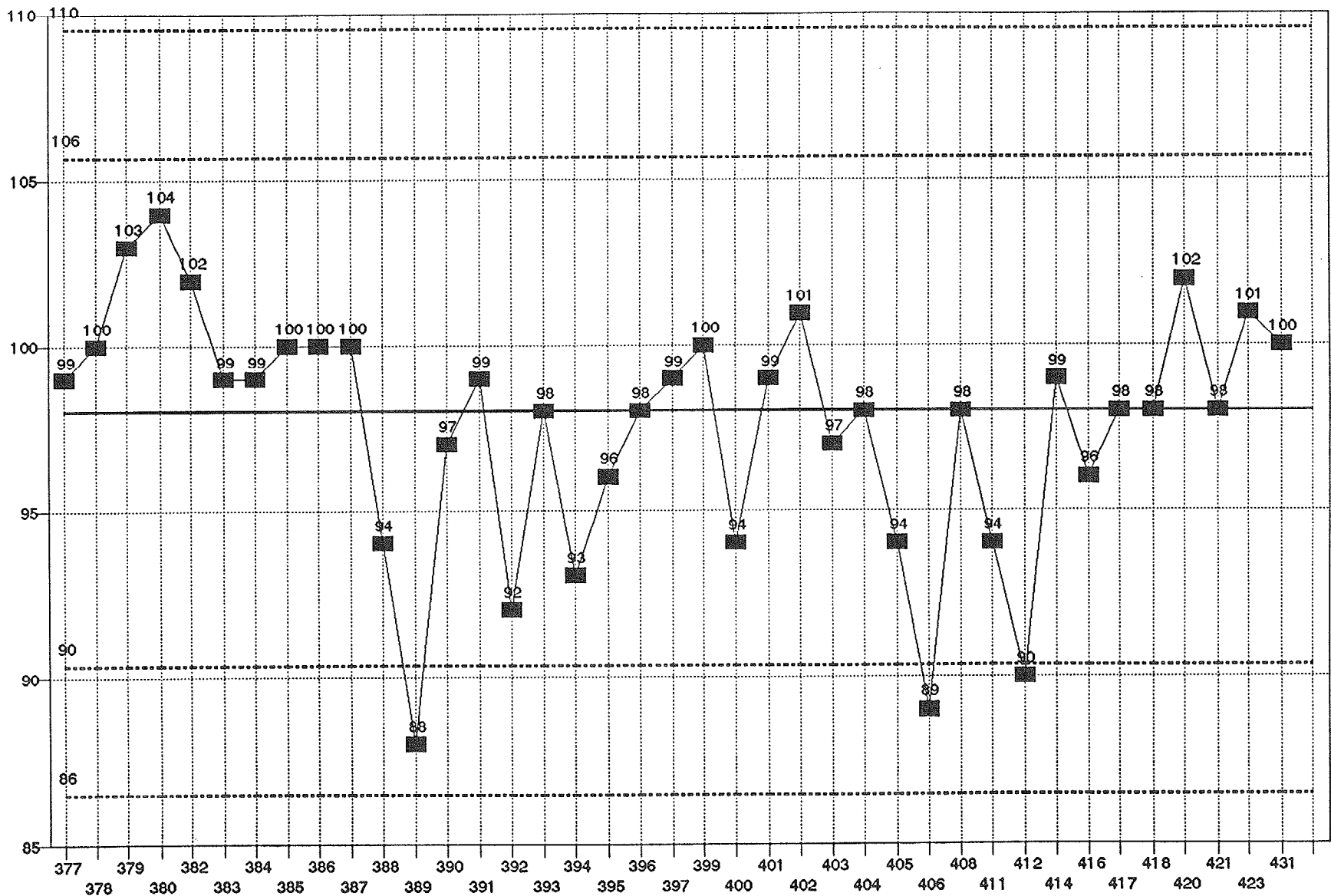
Cd COMMERCIAL LCS WATER RECOVERIES LIMITS SET 7/95



STD DEV = 5.51 MEAN = 109

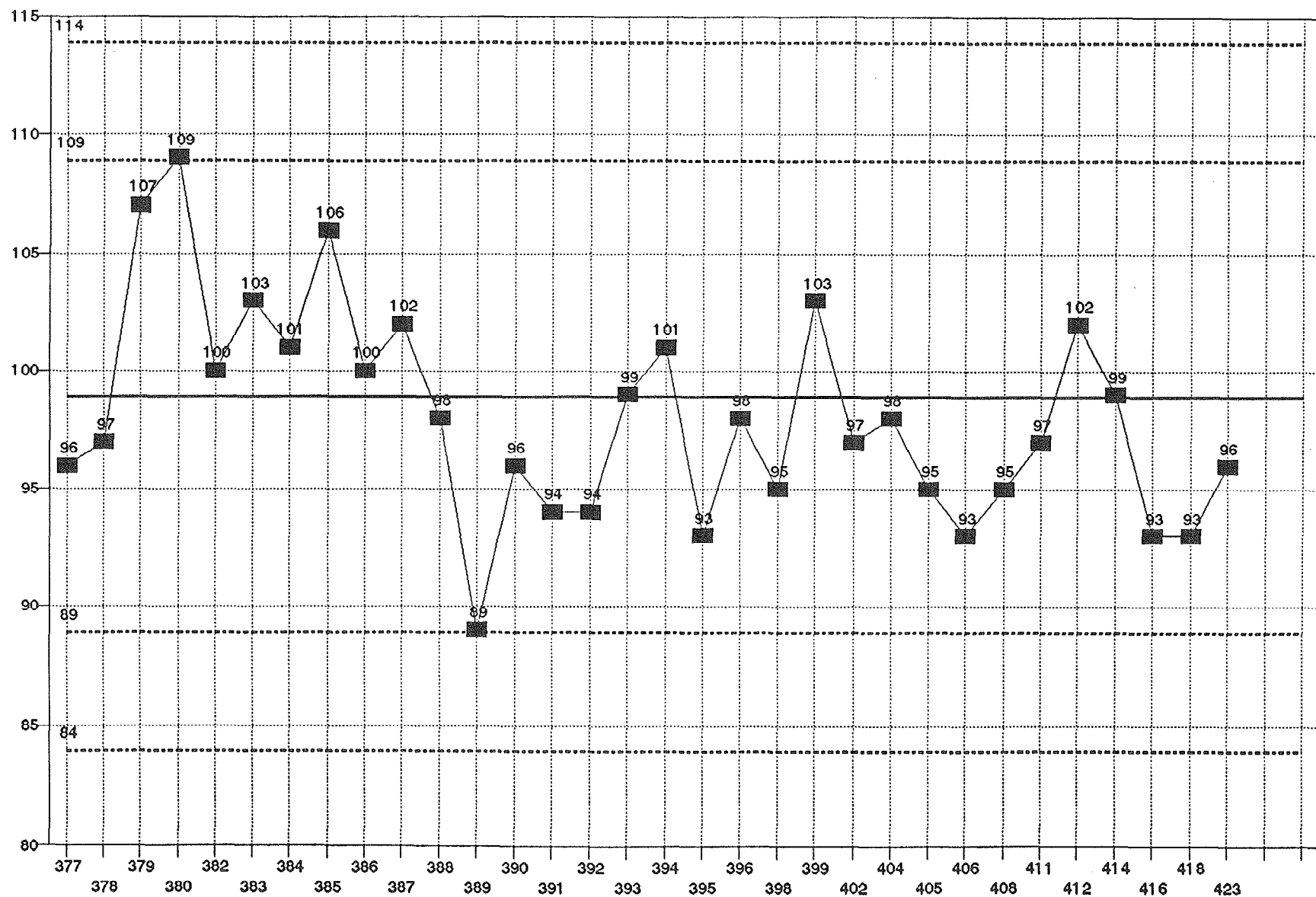
0000147

Cr COMMERCIAL LCS WATER RECOVERIES LIMITS SET 7/95



STD DEV = 3.84 MEAN = 98.0

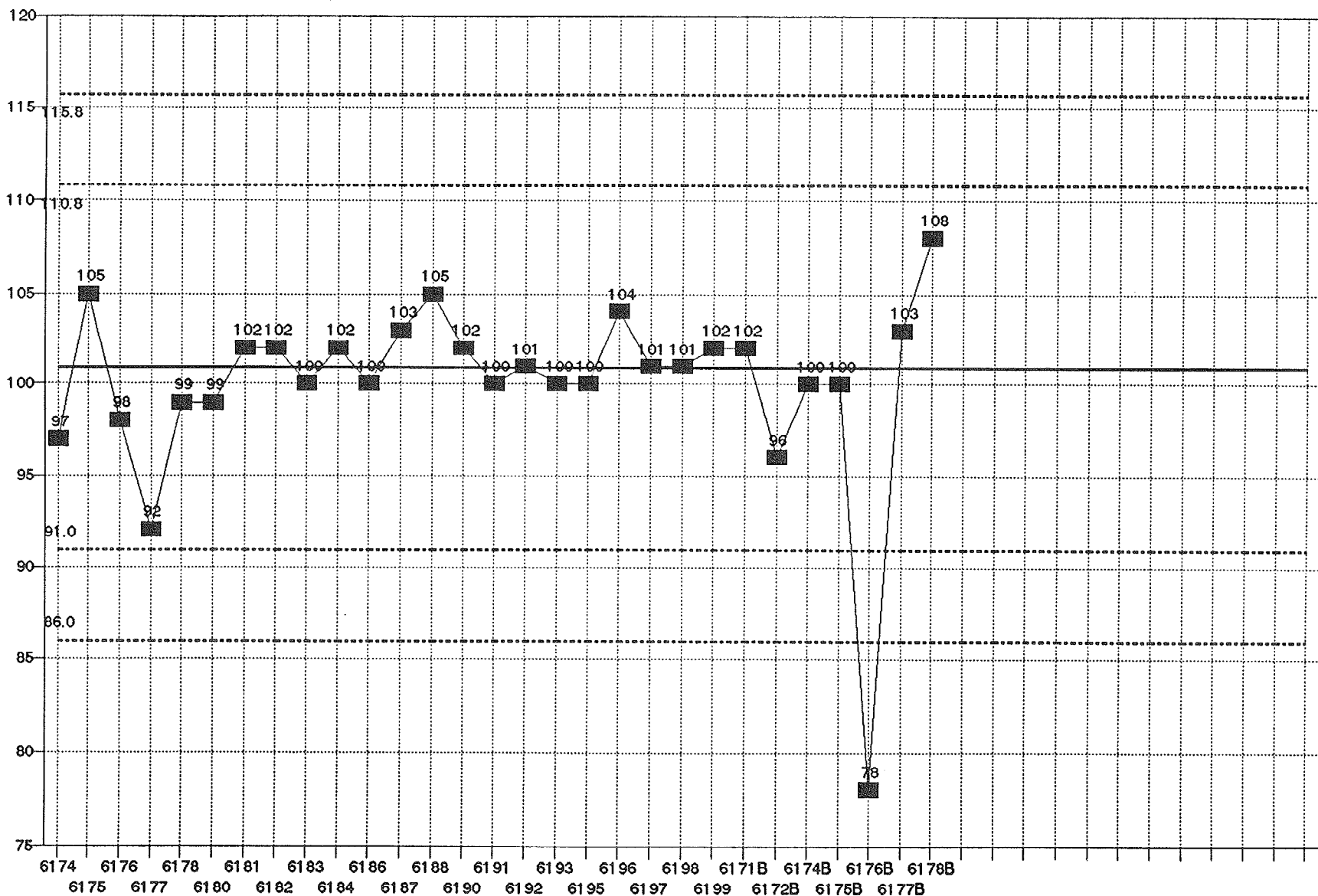
Pb TRACECOMMERCIAL LCS WATER RECOVERIES LIMITS SET 7/95



STD DEV = 4.99 MEAN = 98.9

0000149

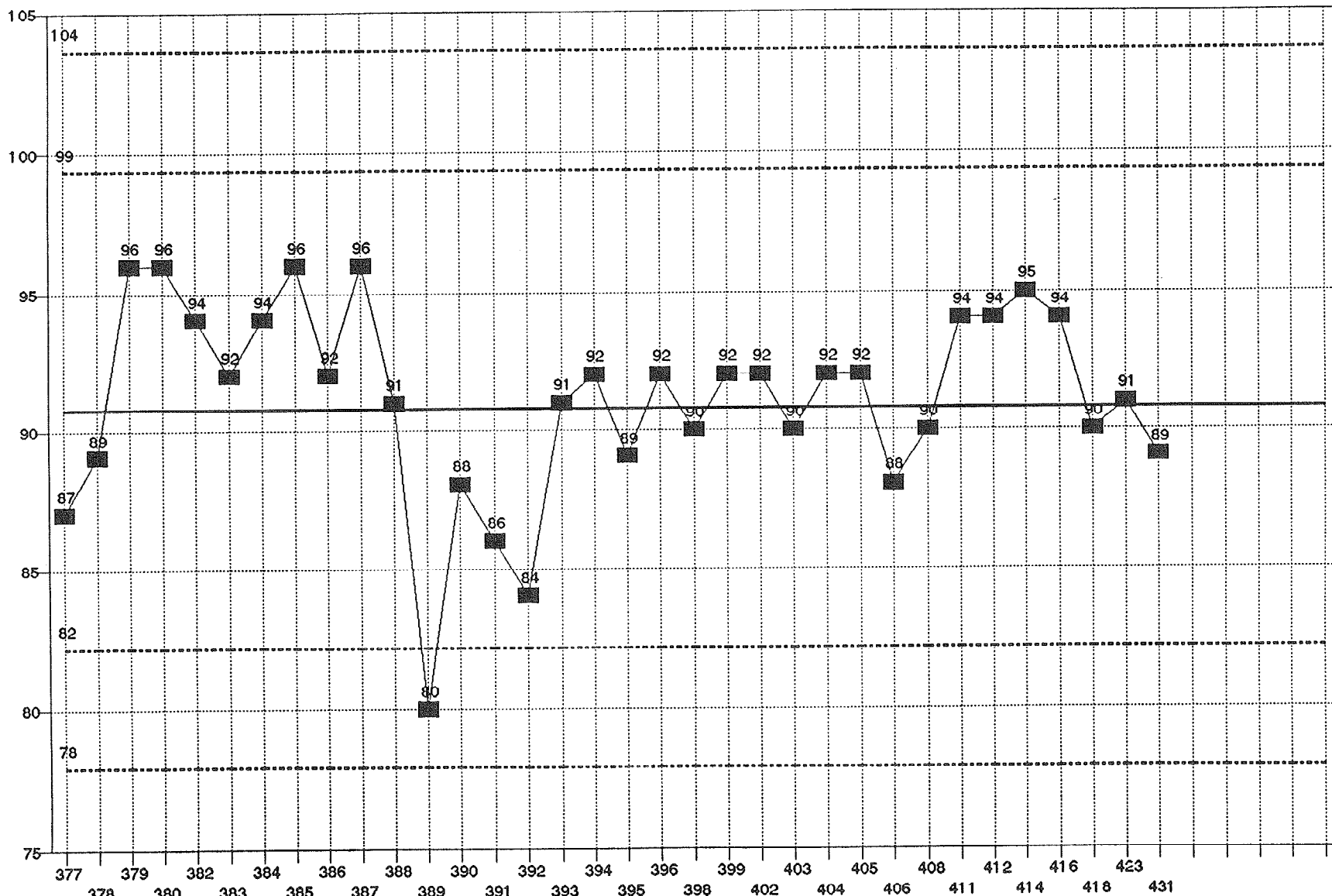
MERCURY CV LCS WATER RECOVERIES LIMITS SET 2/94



STD DEV = 4.96 MEAN = 100.9

0000150

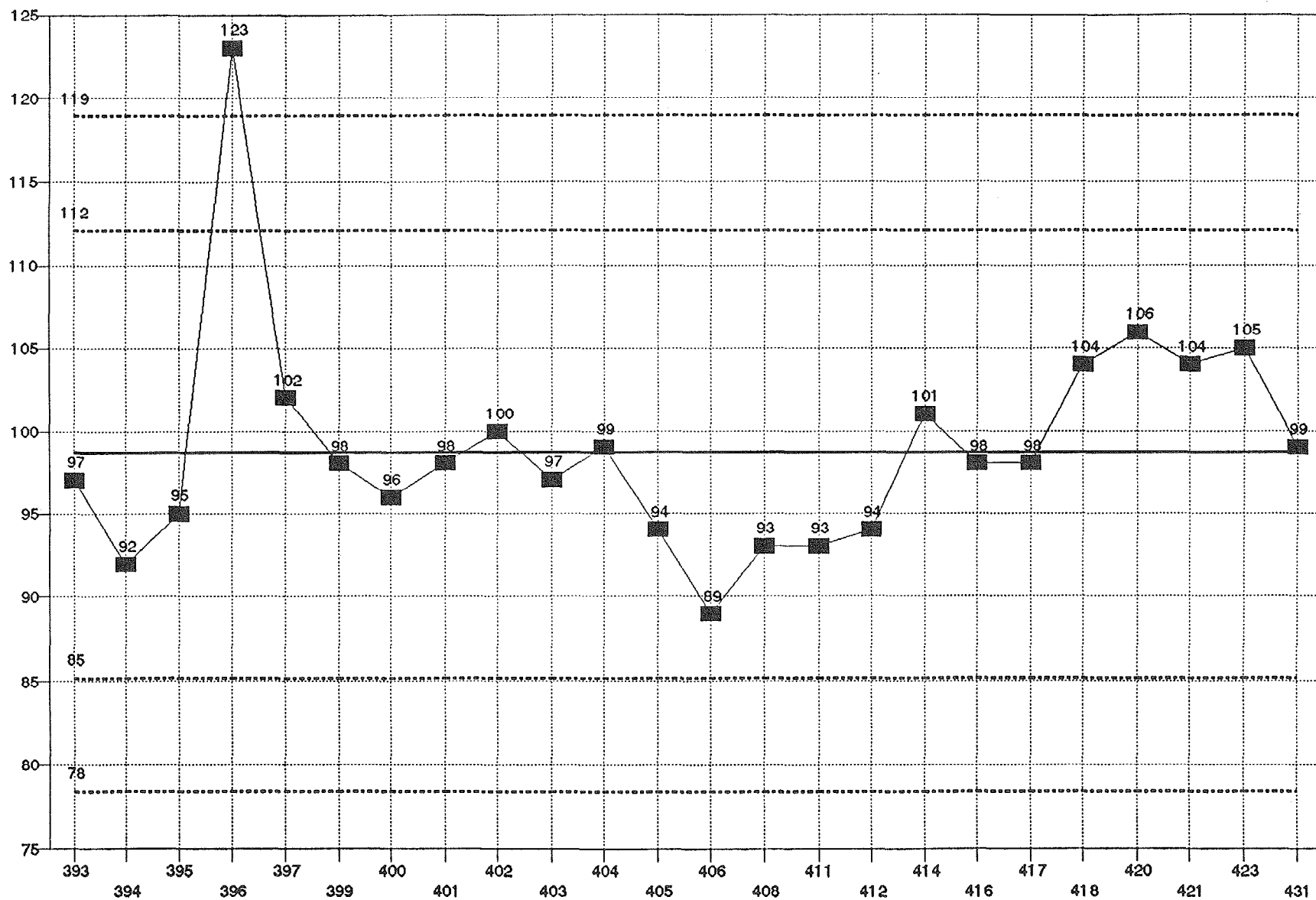
Se TRACECOMMERCIAL LCS WATER RECOVERIES LIMITS SET 7/95



STD DEV = 4.29 MEAN = 90.8

0000151

Ag COMMERCIAL LCS WATER RECOVERIES LIMITS SET 8/95



STD DEV = 6.75 MEAN = 98.6

0000152



OHM Corporation

CHAIN-OF-CUSTODY RECORD

TRANSFER 2

Form 0019
Field Technical Services
Rev. 08/89

144100

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526																		
PROJECT NAME <i>Camp Lejeune D.O. 44</i>			PROJECT LOCATION <i>Camp Geiser, NC</i>															
PROJ. NO. <i>16487</i>	PROJECT CONTACT <i>Rakesh Mishra</i>		PROJECT TELEPHONE NO. <i>910-451-2599</i>															
CLIENT'S REPRESENTATIVE			PROJECT MANAGER/SUPERVISOR <i>Jim Dunn / Randy Smith</i>															
ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)										REMARKS
								TPH-GRO	TPH-DRD	TCLP Metals	TCLP Volatile	RERA 11oz	O&G	PCB	Volatile	Total Lead	BTE-x (8240)	
1	<i>CLJ44-CU-016</i>	<i>8/7</i>	<i>1040</i>	<i>X</i>		<i>Composite of clean soil from Pile 4 of Area C.</i>	<i>4</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>						<i>44914</i>
2	<i>CLJ44-CU-017</i>	<i>8/7</i>	<i>1050</i>	<i>X</i>		<i>Composite of clean soil from Pile 7 of Area C.</i>	<i>4</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>						
3	<i>CLJ44-CU-018-RB</i>	<i>8/7</i>	<i>1102</i>			<i>Rinsate Blank of clean soil of Pile 4 & 7 of Area C.</i>	<i>5</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>						
4	<i>CLJ44-CU-019-TB</i>	<i>8/7</i>				<i>Trip Blanks</i>	<i>3</i>	<i>X</i>	<i>X</i>									
5	<i>CLJ44-CC-020</i>	<i>8/7</i>	<i>1115</i>	<i>X</i>		<i>Composite of contaminated soil from Pile 13 of Area C.</i>	<i>4</i>	<i>X</i>	<i>X</i>				<i>X</i>					
6	<i>CLJ44-CC-021</i>	<i>8/7</i>	<i>1121</i>	<i>X</i>		<i>Composite of contaminated soil from Pile 14 of Area C.</i>	<i>4</i>	<i>X</i>	<i>X</i>				<i>X</i>					
7	<i>CLJ44-CC-022</i>	<i>8/7</i>	<i>1132</i>	<i>X</i>		<i>Composite of contaminated soil from Pile 15 of Area C.</i>	<i>4</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>			
8	<i>CLJ44-CC-023</i>	<i>8/7</i>	<i>1145</i>	<i>X</i>		<i>Composite of contaminated soil from Pile 16 of Area C.</i>	<i>4</i>	<i>X</i>	<i>X</i>				<i>X</i>					
9																		
10																		
TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY		TRANSFERS ACCEPTED BY		DATE	TIME	REMARKS										
<i>1</i>	<i>1</i>	<i>[Signature]</i>		<i>[Signature]</i>				<i>Send samples to Pace Lab. Samples 1-4 7days TAT. = 44914. Samples 5-8 24hr. TAT.</i>										
<i>2</i>	<i>2</i>																	
<i>3</i>	<i>3</i>																	
<i>4</i>	<i>4</i>							<i>[Signature]</i> SAMPLER'S SIGNATURE										

0000153

August 29, 1995

OHM Remediation Services Corporation
5335 Triangle Parkway
Suite 450
Norcross, GA 30092

SAMPLE DELIVERY GROUP NARRATIVE

Case: OHMRC
SDG: LJN11
Laboratory: PACE New England - New Hampshire of Hampton, NH
Lab Numbers: 44928
Protocol: SW846 Methods. NEESA E deliverables. No diskette.

Sample Receipt: These samples were received at PACE, Inc. on August 9, 1995. Laboratory sample numbers were assigned for test parameters as listed on the Sample Table which follows this narrative. The sample shipment was checked for custody seal integrity and cooler temperature. Samples were checked for appropriate preservation and accuracy against the Chains-of-Custody provided. Other than the exceptions noted below, samples were received between 2-6° C and in good condition. PACE Sample Receipt Condition Reports can be found with the Chains-of-Custody.

Shipment received 8/9/95 (44928): These samples were received and logged in under PACE# 44928 and 44929. Samples for 24-hour turnaround were logged in under 44928 and the TCLP parameters were logged in under 44929 for three day turnaround. A temperature blank was not included with the shipment, therefore the cooler temperature could not be verified upon receipt of samples at PACE. The samples were received cool, and had been packed on ice. The rinsate blank listed as Item #6 on the COC was put on hold per the request on the COC.

GRO Analysis: The sample 44928-1 and -5 for total gasoline analysis had no recovery for the surrogate. This was a probable matrix effect.

Volatiles Analysis: The method 8240 blank "BV1118BI" contained low levels of methylene chloride. The sample results for this analyte should be used with due consideration.

DRO Analysis: Analyses proceeded without difficulty. Matrix spikes and duplicates met all acceptance criteria.

Oil and Grease Analysis: Analyses proceeded without difficulty. Matrix spikes and duplicates met all acceptance criteria.

PCB Analysis: Analyses proceeded without difficulty. Matrix spikes and duplicates met all acceptance criteria.

Lead Analysis: The replicate analysis of lead in the sample designated "CLJ44-CC-027" (laboratory number 44928-011) showed relative percent difference of 34.7% (advisory limit 20%).

Statement of Compliancy and Data Authorization

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature.



PACE Incorporated, New England-New Hampshire

8/29/95
August 29, 1995



SAMPLE RECEIPT CONDITION REPORT

Tel. (603) 926-7777
FAX (603) 926-7939

PAGE 1 of 1
COOLER
COC#
SDG# L1N11
CASE# OHMRC

CLIENT OHM
DATE/TIME RECEIVED 8/9/05 0955
DELIVERED BY Ted Ely
RECEIVED BY [Signature]
LIMS ENTRY BY [Signature]
TRANSCRIPTION REVIEW BY GNF
LIMS REVIEW BY/PM GNF

Table with columns: NA, YES, EXCEPTION, COMMENT, RESOLUTION. Rows include: 1. CUSTODY SEALS PRESENT/INTACT, 2. CHAIN OF CUSTODY PRESENT IN THIS COOLER, 3. CHAIN OF CUSTODY SIGNED, 4. CHAIN OF CUSTODY MATCHES SAMPLES, 5. SAMPLES RECEIVED AT 2° - 6° C, 6. VOLATILES FREE OF HEAD SPACE, 7. TRIP BLANK PRESENT IN THIS COOLER, 8. PROPER SAMPLE CONTAINERS AND VOLUME, 9. SAMPLES WITHIN HOLD TIME, 10. SAMPLES PROPERLY PRESERVED, 11. ANALYTICAL PROGRAMS (circle one) COMMERCIAL CLP EPA-CLP NYASP NJ ISRA NEESA AFCEE Other, 12. NUMBER OF PACE FILTRATIONS, 13. CORRECTIVE ACTIONS REPORT #

Log-in Notes:

one jar rec'd - Pile 18 - area C jar with cap appearing to have been melted - do not think sample has been compromised - Pac # 44928-9c

000003

SAMPLE TABLE

CLIENT ID.	MATRIX	PACE #	PARAMETERS
CLJ44-CC-024	SOLID	44928-001 44928-008	TOTAL GASOLINE OIL & GREASE BY GRAVIMETRY TOTAL DIESEL
CLJ44-CC-025	SOLID	44928-002 44928-009	TOTAL GASOLINE OIL & GREASE BY GRAVIMETRY TOTAL DIESEL
CLJ44-CC-026	SOLID	44928-003 44928-010	TOTAL GASOLINE OIL & GREASE BY GRAVIMETRY TOTAL DIESEL
CLJ44-CC-027	SOLID	44928-004 44928-011	GC/MS VOA TOTAL GASOLINE PCBS OIL & GREASE BY GRAVIMETRY TOTAL DIESEL Pb
CLJ44-CC-027D	SOLID	44928-005 44928-013	GC/MS VOA TOTAL GASOLINE PCBS OIL & GREASE BY GRAVIMETRY TOTAL DIESEL Pb
CLJ44-CC-029-TB	WATER	44928-006 44928-007	TOTAL GASOLINE GC/MS VOA

Field Identification: CLJ44-CC-024

Matrix: SOLID

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Total Gasoline (ug/g)	680	49	44928-001	08/10/95	BG1033B	8015(mod)/2
Total Diesel (ug/g)	1800	40	44928-008	08/09/95		8015(mod),3350/2
Oil and Grease by Gravimetry (ug/g)	1300	300	44928-008	08/11/95	BG1371	9071,503D/2,3

Field Identification: CLJ44-CC-025

Matrix: SOLID

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Total Gasoline (ug/g)	140	13	44928-002	08/10/95	BG1033B	8015(mod)/2
Total Diesel (ug/g)	1200	38	44928-009	08/09/95		8015(mod),3350/2
Oil and Grease by Gravimetry (ug/g)	860	290	44928-009	08/11/95	BG1371	9071,503D/2,3

Field Identification: CLJ44-CC-026

Matrix: SOLID

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Total Gasoline (ug/g)	160	14	44928-003	08/10/95	BG1033B	8015(mod)/2
Total Diesel (ug/g)	1300	38	44928-010	08/09/95		8015(mod),3350/2
Oil and Grease by Gravimetry (ug/g)	490	290	44928-010	08/11/95	BG1371	9071,503D/2,3

Field Identification: CLJ44-CC-027

Matrix: SOLID

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Total Gasoline (ug/g)	160	14	44928-004	08/10/95	BG1033B	8015(mod)/2
Total Diesel (ug/g)	1600	39	44928-011	08/09/95		8015(mod),3350/2
Oil and Grease by Gravimetry (ug/g)	1600	300	44928-011	08/11/95	BG1371	9071,503D/2,3
Lead, total (ug/g)	4.4	0.4	44928-011	08/10/95	21807	3050,6010/2

Field Identification: CLJ44-CC-027D

Matrix: SOLID

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Total Gasoline (ug/g)	77	5.2	44928-005	08/10/95	BG1033B	8015(mod)/2
Total Diesel (ug/g)	1800	37	44928-013	08/09/95		8015(mod),3350/2
Oil and Grease by Gravimetry (ug/g)	1400	270	44928-013	08/11/95	BG1371	9071,503D/2,3
Lead, total (ug/g)	4.2	0.4	44928-013	08/10/95	21807	3050,6010/2

Results expressed on a dry weight basis.



000005

Field Identification: CLJ44-CC-029-TB

Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Total Gasoline (ug/L)	BDL	100	44928-006	08/09/95		8015(mod)/2

- References: 2) EPA SW 846, 3rd Edition
3) Standard Methods, 16th Edition

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Laboratory number: 44928-004
Sample Designation: CLJ44-CC-027
Date Analyzed: 08/09/95
Matrix: SOLID

Instrument File Name: \I4367

Results are expressed on a dry (103 degrees C) basis.
Moisture content was 20 % , elevating the reporting limits
by a factor of 1.24 .

VOLATILE ORGANICS	CONCENTRATION (ug/g)	REPORTING LIMIT (ug/g)
Chloromethane	BDL	1.5
Bromomethane	BDL	1.5
Vinyl chloride	BDL	1.5
Chloroethane	BDL	0.8
Methylene chloride	0.6 J	1.5
Acetone	BDL	3.8
Carbon disulfide	BDL	0.8
1,1-Dichloroethene	BDL	0.8
Tetrahydrofuran	BDL	3.8
1,1-Dichloroethane	BDL	0.8
1,2-Dichloroethene (total)	BDL	0.8
Chloroform	BDL	0.8
Methyl ethyl ketone	BDL	3.8
1,2-Dichloroethane	BDL	0.8
1,1,1-Trichloroethane	BDL	0.8
Carbon Tetrachloride	BDL	0.8
Vinyl acetate	BDL	1.5
Bromodichloromethane	BDL	0.8
cis-1,3-Dichloropropene	BDL	0.8
trans-1,3-Dichloropropene	BDL	0.8
Trichloroethene	BDL	0.8
Benzene	BDL	0.8
Dibromochloromethane	BDL	0.8
1,1,2-Trichloroethane	BDL	0.8
1,2-Dichloropropane	BDL	0.8
2-Chloroethyl vinyl ether	BDL	0.8
Bromoform	BDL	0.8
Methyl isobutyl ketone	BDL	3.8
2-Hexanone	BDL	3.8
1,1,2,2-Tetrachloroethane	BDL	0.8
Tetrachloroethene	BDL	0.8
Toluene	BDL	0.8
Chlorobenzene	BDL	0.8
Ethylbenzene	BDL	0.8
Xylene (total)	0.6 J	0.8
Styrene	BDL	0.8

METHOD REFERENCE: EPA SW 846, 3rd Edition
METHOD 8240

BDL = Below reporting limit

J = Probable presence below listed detection limit

000007

pace
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Laboratory number: 44928-005
Sample Designation: CLJ44-CC-027D
Date Analyzed: 08/16/95
Matrix: SOLID

Instrument File Name: \I4445

Results are expressed on a dry (103 degrees C) basis.
Moisture content was*** % , elevating the reporting limits
by a factor of 0.5 .

VOLATILE ORGANICS	CONCENTRATION (ug/g)	REPORTING LIMIT (ug/g)
Chloromethane	BDL	0.6
Bromomethane	BDL	0.6
Vinyl chloride	BDL	0.6
Chloroethane	BDL	0.3
Methylene chloride	BDL	0.6
Acetone	BDL	1.4
Carbon disulfide	BDL	0.3
1,1-Dichloroethene	BDL	0.3
Tetrahydrofuran	BDL	1.4
1,1-Dichloroethane	BDL	0.3
1,2-Dichloroethene (total)	BDL	0.3
Chloroform	BDL	0.3
Methyl ethyl ketone	BDL	1.4
1,2-Dichloroethane	BDL	0.3
1,1,1-Trichloroethane	BDL	0.3
Carbon Tetrachloride	BDL	0.3
Vinyl acetate	BDL	0.6
Bromodichloromethane	BDL	0.3
cis-1,3-Dichloropropene	BDL	0.3
trans-1,3-Dichloropropene	BDL	0.3
Trichloroethene	BDL	0.3
Benzene	BDL	0.3
Dibromochloromethane	BDL	0.3
1,1,2-Trichloroethane	BDL	0.3
1,2-Dichloropropane	BDL	0.3
2-Chloroethyl vinyl ether	BDL	0.3
Bromoform	BDL	0.3
Methyl isobutyl ketone	BDL	1.4
2-Hexanone	BDL	1.4
1,1,2,2-Tetrachloroethane	BDL	0.3
Tetrachloroethene	BDL	0.3
Toluene	BDL	0.3
Chlorobenzene	BDL	0.3
Ethylbenzene	BDL	0.3
Xylene (total)	0.2 J	0.3
Styrene	BDL	0.3

METHOD REFERENCE: EPA SW 846, 3rd Edition
METHOD 8240

BDL = Below reporting limit

J = Probable presence below listed detection limit

000008

pace
INCORPORATED
THE ASSURANCE OF QUALITY

Laboratory number: 44928-007
Sample Designation: CLJ44-CC-029-TB
Date Analyzed: 08/10/95
Matrix: WATER

Instrument File Name: \I4381

VOLATILE ORGANICS	CONCENTRATION (ug/L)	REPORTING LIMIT (ug/L)
Chloromethane	BDL	10
Bromomethane	BDL	10
Vinyl chloride	BDL	10
Chloroethane	BDL	5
Methylene chloride	BDL	10
Acetone	BDL	25
Carbon disulfide	BDL	5
Tetrahydrofuran	BDL	25
Trichlorofluoromethane	BDL	5
1,1-Dichloroethene	BDL	5
1,1-Dichloroethane	BDL	5
1,2-Dichloroethene (total)	BDL	5
Chloroform	BDL	5
1,2-Dichloroethane	BDL	5
2-Butanone	BDL	25
1,1,1-Trichloroethane	BDL	5
Carbon Tetrachloride	BDL	5
Vinyl acetate	BDL	10
Bromodichloromethane	BDL	5
1,2-Dichloropropane	BDL	5
cis-1,3-Dichloropropene	BDL	5
trans-1,3-Dichloropropene	BDL	5
Trichloroethene	BDL	5
Dibromochloromethane	BDL	5
1,1,2-Trichloroethane	BDL	5
Benzene	BDL	5
Bromoform	BDL	5
4-Methyl-2-Pentanone	BDL	25
2-Hexanone	BDL	25
Tetrachloroethene	BDL	5
1,1,2,2-Tetrachloroethane	BDL	5
Toluene	BDL	5
Chlorobenzene	BDL	5
Ethylbenzene	BDL	5
Styrene	BDL	5
Xylene (total)	BDL	5

METHOD REFERENCE: EPA SW 846, 3rd Edition
METHOD 8240

BDL = Below reporting limit

000003

Laboratory number: 44928-011
Sample Designation: CLJ44-CC-027
Date Extracted: 08/09/95
Date Analyzed: 08/09/95
Matrix: SOLID

Results are expressed on a dry (103 degrees C) basis.
Moisture content was 16 % , elevating the reporting limits
by a factor of 1.19 .

PCB'S	CONCENTRATION (ug/g)	REPORTING LIMIT (ug/g)
PCB-1242 (Arochlor 1242)	BDL	0.1
PCB-1254 (Arochlor 1254)	BDL	0.1
PCB-1221 (Arochlor 1221)	BDL	0.1
PCB-1232 (Arochlor 1232)	BDL	0.1
PCB-1248 (Arochlor 1248)	BDL	0.1
PCB-1260 (Arochlor 1260)	BDL	0.1
PCB-1016 (Arochlor 1016)	BDL	0.1

METHOD REFERENCE: EPA SW 846, 3rd Edition
METHODS 3550 AND 8080

BDL = Below reporting limit

000010

Laboratory number: 44928-013
Sample Designation: CLJ44-CC-027D
Date Extracted: 08/10/95
Date Analyzed: 08/10/95
Matrix: SOLID

Results are expressed on a dry (103 degrees C) basis.
Moisture content was 11 % , elevating the reporting limits
by a factor of 1.12 .

PCB'S	CONCENTRATION (ug/g)	REPORTING LIMIT (ug/g)
PCB-1242 (Arochlor 1242)	BDL	0.1
PCB-1254 (Arochlor 1254)	BDL	0.1
PCB-1221 (Arochlor 1221)	BDL	0.1
PCB-1232 (Arochlor 1232)	BDL	0.1
PCB-1248 (Arochlor 1248)	BDL	0.1
PCB-1260 (Arochlor 1260)	BDL	0.1
PCB-1016 (Arochlor 1016)	BDL	0.1

METHOD REFERENCE: EPA SW 846, 3rd Edition
METHODS 3550 AND 8080

BDL = Below reporting limit

000011

QUALITY CONTROL DATA
TOTAL GASOLINE

BLANK DATA

Laboratory Number: B-G1033B
Sample Designation: LABORATORY BLANK
Date Analyzed: 08/10/95
Matrix: SOLID

COMPOUND	CONCENTRATION ug/g	DETECTION LIMIT ug/g
GASOLINE	BDL	12

MATRIX SPIKE RECOVERY

Laboratory Number: LS-G1033
Sample Designation: LABORATORY CONTROL SAMPLE
Date Analyzed: 08/09/95
Matrix: SOLID

COMPOUND	ug/g IN SAMPLE	ug/g SPIKE	ug/g FOUND	%REC- OVERY
GASOLINE	0	50	54	108

METHOD REFERENCE: METHOD 8015 (MODIFIED)

QUALITY CONTROL DATA
TOTAL GASOLINE

BLANK DATA

Laboratory Number: BG080995TGA
Sample Designation: LABORATORY BLANK
Date Analyzed: 08/09/95
Matrix: WATER

COMPOUND	CONCENTRATION ug/L	DETECTION LIMIT ug/L
GASOLINE	BDL	100

METHOD REFERENCE: METHOD 8015 (MODIFIED)

000013

QUALITY CONTROL DATA
TOTAL GASOLINE

BLANK DATA

Laboratory Number: BG081095TGA
Sample Designation: LABORATORY BLANK
Date Analyzed: 08/10/95
Matrix: WATER

COMPOUND	CONCENTRATION ug/L	DETECTION LIMIT ug/L
GASOLINE	BDL	100

MATRIX SPIKE RECOVERY

Laboratory Number: LW081095TGA
Sample Designation: LABORATORY CONTROL SAMPLE
Date Analyzed: 08/10/95
Matrix: WATER

COMPOUND	ug/L IN SAMPLE	ug/L SPIKE	ug/L FOUND	%REC- OVERY
GASOLINE	0	500	579	116

METHOD REFERENCE: METHOD 8015 (MODIFIED)

000014

QUALITY CONTROL DATA
PETROLEUM HYDROCARBONS BY GCFID

BLANK DATA

Laboratory Number: B-H1300
Sample Designation: LABORATORY BLANK
Date Analyzed: 08/09/95
Matrix: SOLID

HYDROCARBON TYPE	CONCENTRATION ug/g	DETECTION LIMIT ug/g
DIESEL	BDL	3

MATRIX SPIKE RECOVERY

Laboratory Number: LSH1300
Sample Designation: LABORATORY CONTROL SAMPLE
Date Analyzed: 08/09/95
Matrix: SOLID

COMPOUND	ug/g SAMPLE	ug/g SPIKE	ug/g FOUND	%REC- OVERY
DIESEL	0	33.46	23.19	69

METHOD REFERENCE: EPA SW 846, 3RD EDITION METHOD 8100 (MODIFIED)
AND ASTM D 3328-78

000015

QUALITY CONTROL
OIL & GREASE

BLANK DATA

Laboratory Number: B-G1371
Sample Designation: LABORATORY BLANK
Date Analyzed: 08/11/95
Matrix: SOLID

PARAMETER	CONCENTRATION ug/g	DETECTION LIMIT ug/g
OIL & GREASE	BDL	250

MATRIX SPIKE RECOVERY

Laboratory Number: LS-G1371
Sample Designation: LABORATORY CONTROL SAMPLE
Date Analyzed: 08/11/95
Matrix: SOLID

PARAMETER	ug/g IN SAMPLE	ug/g SPIKE	ug/g FOUND	%REC- OVERY
OIL & GREASE	0	1300	1300	100

METHOD REFERENCE: EPA SW846, 3RD EDITION
METHOD 9071
STANDARD METHODS, 16TH EDITION, METHOD 503D

000016

Laboratory number: BV1118BI
Sample Designation: LAB BLANK
Date Analyzed: 08/09/95
Matrix: SOLID

Instrument File Name: \I4366

Results are expressed on a dry (103 degrees C) basis.

VOLATILE ORGANICS	CONCENTRATION (ug/g)	REPORTING LIMIT (ug/g)
Chloromethane	BDL	1.3
Bromomethane	BDL	1.3
Vinyl chloride	BDL	1.3
Chloroethane	BDL	0.6
Methylene chloride	0.5 J	1.3
Acetone	BDL	3.1
Carbon disulfide	BDL	0.6
1,1-Dichloroethene	BDL	0.6
Tetrahydrofuran	BDL	3.1
1,1-Dichloroethane	BDL	0.6
1,2-Dichloroethene (total)	BDL	0.6
Chloroform	BDL	0.6
Methyl ethyl ketone	BDL	3.1
1,2-Dichloroethane	BDL	0.6
1,1,1-Trichloroethane	BDL	0.6
Carbon Tetrachloride	BDL	0.6
Vinyl acetate	BDL	1.3
Bromodichloromethane	BDL	0.6
cis-1,3-Dichloropropene	BDL	0.6
trans-1,3-Dichloropropene	BDL	0.6
Trichloroethene	BDL	0.6
Benzene	BDL	0.6
Dibromochloromethane	BDL	0.6
1,1,2-Trichloroethane	BDL	0.6
1,2-Dichloropropane	BDL	0.6
2-Chloroethyl vinyl ether	BDL	0.6
Bromoform	BDL	0.6
Methyl isobutyl ketone	BDL	3.1
2-Hexanone	BDL	3.1
1,1,2,2-Tetrachloroethane	BDL	0.6
Tetrachloroethene	BDL	0.6
Toluene	BDL	0.6
Chlorobenzene	BDL	0.6
Ethylbenzene	BDL	0.6
Xylene (total)	BDL	0.6
Styrene	BDL	0.6

METHOD REFERENCE: EPA SW 846, 3rd Edition
METHOD 8240

BDL = Below reporting limit

J = Probable presence below listed detection limit

000017

VOLATILE ORGANIC COMPOUNDS
MATRIX SPIKE RECOVERY

Laboratory Number: LSV1118A 100ME
Field Identification: LABORATORY CONTROL SAMPLE
Date Analyzed: 10 Aug 95 4:09 pm
Matrix: SOLID

COMPOUND	ug/g IN SAMPLE	ug/g SPIKE	ug/g FOUND	%REC- OVERY
C045 1,1-Dichloroethene	0.00	6.25	6.20	99
C150 Trichloroethene	0.00	6.25	6.49	104
C165 Benzene	0.00	6.25	6.31	101
C230 Toluene	0.00	6.25	6.58	105
C235 Chlorobenzene	0.00	6.25	7.14	114

METHOD REFERENCE: EPA SW 846, 3RD EDITION METHOD 8240

000013

Laboratory number: BV1119AI
Sample Designation: LAB BLANK
Date Analyzed: 08/16/95
Matrix: SOLID

Instrument File Name: \I4434

Results are expressed on a dry (103 degrees C) basis.

VOLATILE ORGANICS	CONCENTRATION (ug/g)	REPORTING LIMIT (ug/g)
Chloromethane	BDL	1.3
Bromomethane	BDL	1.3
Vinyl chloride	BDL	1.3
Chloroethane	BDL	0.6
Methylene chloride	BDL	1.3
Acetone	BDL	3.1
Carbon disulfide	BDL	0.6
1,1-Dichloroethene	BDL	0.6
Tetrahydrofuran	BDL	3.1
1,1-Dichloroethane	BDL	0.6
1,2-Dichloroethene (total)	BDL	0.6
Chloroform	BDL	0.6
Methyl ethyl ketone	BDL	3.1
1,2-Dichloroethane	BDL	0.6
1,1,1-Trichloroethane	BDL	0.6
Carbon Tetrachloride	BDL	0.6
Vinyl acetate	BDL	1.3
Bromodichloromethane	BDL	0.6
cis-1,3-Dichloropropene	BDL	0.6
trans-1,3-Dichloropropene	BDL	0.6
Trichloroethene	BDL	0.6
Benzene	BDL	0.6
Dibromochloromethane	BDL	0.6
1,1,2-Trichloroethane	BDL	0.6
1,2-Dichloropropane	BDL	0.6
2-Chloroethyl vinyl ether	BDL	0.6
Bromoform	BDL	0.6
Methyl isobutyl ketone	BDL	3.1
2-Hexanone	BDL	3.1
1,1,2,2-Tetrachloroethane	BDL	0.6
Tetrachloroethene	BDL	0.6
Toluene	BDL	0.6
Chlorobenzene	BDL	0.6
Ethylbenzene	BDL	0.6
Xylene (total)	BDL	0.6
Styrene	BDL	0.6

METHOD REFERENCE: EPA SW 846, 3rd Edition
METHOD 8240

BDL = Below reporting limit

000019

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VOLATILE ORGANIC COMPOUNDS
MATRIX SPIKE RECOVERY

Laboratory Number: LSV1119 100ME
Field Identification: LABORATORY CONTROL SAMPLE
Date Analyzed: 16 Aug 95 7:02 pm
Matrix: SOLID

COMPOUND	ug/g IN SAMPLE	ug/g SPIKE	ug/g FOUND	%REC- OVERY
C045 1,1-Dichloroethene	0.00	6.25	6.12	98
C150 Trichloroethene	0.00	6.25	6.19	99
C165 Benzene	0.00	6.25	5.94	95
C230 Toluene	0.00	6.25	6.33	101
C235 Chlorobenzene	0.00	6.25	6.58	105

METHOD REFERENCE: EPA SW 846, 3RD EDITION METHOD 8240

000020

Laboratory number: BI081095A1
Sample Designation: LABORATORY BLANK
Date Analyzed: 08/10/95
Matrix: WATER

VOLATILE ORGANICS	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
Chloromethane	BDL	10
Bromomethane	BDL	10
Vinyl chloride	BDL	10
Chloroethane	BDL	5
Methylene chloride	BDL	10
Acetone	BDL	25
Carbon disulfide	BDL	5
1,1-Dichloroethene	BDL	5
Tetrahydrofuran	BDL	25
1,1-Dichloroethane	BDL	5
1,2-Dichloroethene (total)	BDL	5
Chloroform	BDL	5
Methyl ethyl ketone	BDL	25
1,2-Dichloroethane	BDL	5
1,1,1-Trichloroethane	BDL	5
Carbon Tetrachloride	BDL	5
Vinyl acetate	BDL	10
Bromodichloromethane	BDL	5
cis-1,3-Dichloropropene	BDL	5
trans-1,3-Dichloropropene	BDL	5
Trichloroethene	BDL	5
Benzene	BDL	5
Dibromochloromethane	BDL	5
1,1,2-Trichloroethane	BDL	5
1,2-Dichloropropane	BDL	5
2-Chloroethyl vinyl ether	BDL	5
Bromoform	BDL	5
Methyl isobutyl ketone	BDL	25
2-Hexanone	BDL	25
1,1,2,2-Tetrachloroethane	BDL	5
Tetrachloroethene	BDL	5
Toluene	BDL	5
Chlorobenzene	BDL	5
Ethylbenzene	BDL	5
m-Xylene	BDL	5
o,p-Xylene	BDL	5
Styrene	BDL	5

METHOD REFERENCE: EPA SW 846 3RD EDITION
METHOD 8240

BDL = Below detection limit

000021

VOLATILE ORGANIC COMPOUNDS
MATRIX SPIKE RECOVERY

Laboratory Number: LCI081095A1 5ML
Field Identification: LABORATORY CONTROL SAMPLE
Date Analyzed: 10 Aug 95 11:29 am
Matrix: WATER

COMPOUND	ug/L IN SAMPLE	ug/L SPIKE	ug/L FOUND	%REC- OVERY
C045 1,1-Dichloroethene	0.00	50.00	50.12	100
C150 Trichloroethene	0.00	50.00	53.28	107
C165 Benzene	0.00	50.00	50.36	101
C230 Toluene	0.00	50.00	50.85	102
C235 Chlorobenzene	0.00	50.00	54.56	109

METHOD REFERENCE: EPA SW-846, 3RD EDITION
METHOD 8240

000022

Laboratory number: BP4399
Sample Designation: LAB BLANK
Date Extracted: 08/09/95
Date Analyzed: 08/09/95
Matrix: SOLID

Results are expressed on a dry (103 degrees C) basis.

PCB'S	CONCENTRATION (ug/g)	REPORTING LIMIT (ug/g)
PCB-1242 (Arochlor 1242)	BDL	0.1
PCB-1254 (Arochlor 1254)	BDL	0.1
PCB-1221 (Arochlor 1221)	BDL	0.1
PCB-1232 (Arochlor 1232)	BDL	0.1
PCB-1248 (Arochlor 1248)	BDL	0.1
PCB-1260 (Arochlor 1260)	BDL	0.1
PCB-1016 (Arochlor 1016)	BDL	0.1

METHOD REFERENCE: EPA SW 846, 3rd Edition
METHODS 3550 AND 8080

BDL = Below reporting limit

000023

PCB'S

MATRIX SPIKE RECOVERY

Laboratory Number: LS-P4399
Sample Designation: LABORATORY CONTROL SAMPLE
Date Analyzed 08/09/95
Matrix: SOLID

COMPOUND	ug/g IN SAMPLE	ug/g SPIKE	ug/g FOUND	%REC- OVERY
AR-1254	0	1.01	1.14	113

METHOD REFERENCE: EPA SW846, 3RD EDITION
METHODS 3550 AND 8080

000024

Laboratory number: BP4401
Sample Designation: LAB BLANK
Date Extracted: 08/10/95
Date Analyzed: 08/10/95
Matrix: SOLID

Results are expressed on a dry (103 degrees C) basis.

PCB'S	CONCENTRATION (ug/g)	REPORTING LIMIT (ug/g)
PCB-1242 (Arochlor 1242)	BDL	0.1
PCB-1254 (Arochlor 1254)	BDL	0.1
PCB-1221 (Arochlor 1221)	BDL	0.1
PCB-1232 (Arochlor 1232)	BDL	0.1
PCB-1248 (Arochlor 1248)	BDL	0.1
PCB-1260 (Arochlor 1260)	BDL	0.1
PCB-1016 (Arochlor 1016)	BDL	0.1

METHOD REFERENCE: EPA SW 846, 3rd Edition
METHODS 3550 AND 8080

BDL = Below reporting limit

000025

PCB'S

MATRIX SPIKE RECOVERY

Laboratory Number: LS-P4401
Sample Designation: LABORATORY CONTROL SAMPLE
Date Analyzed 08/10/95
Matrix: SOLID

COMPOUND	ug/g IN SAMPLE	ug/g SPIKE	ug/g FOUND	%REC- OVERY
AR-1254	0	1.01	1.16	115

METHOD REFERENCE: EPA SW846, 3RD EDITION
METHODS 3550 AND 8080

000026

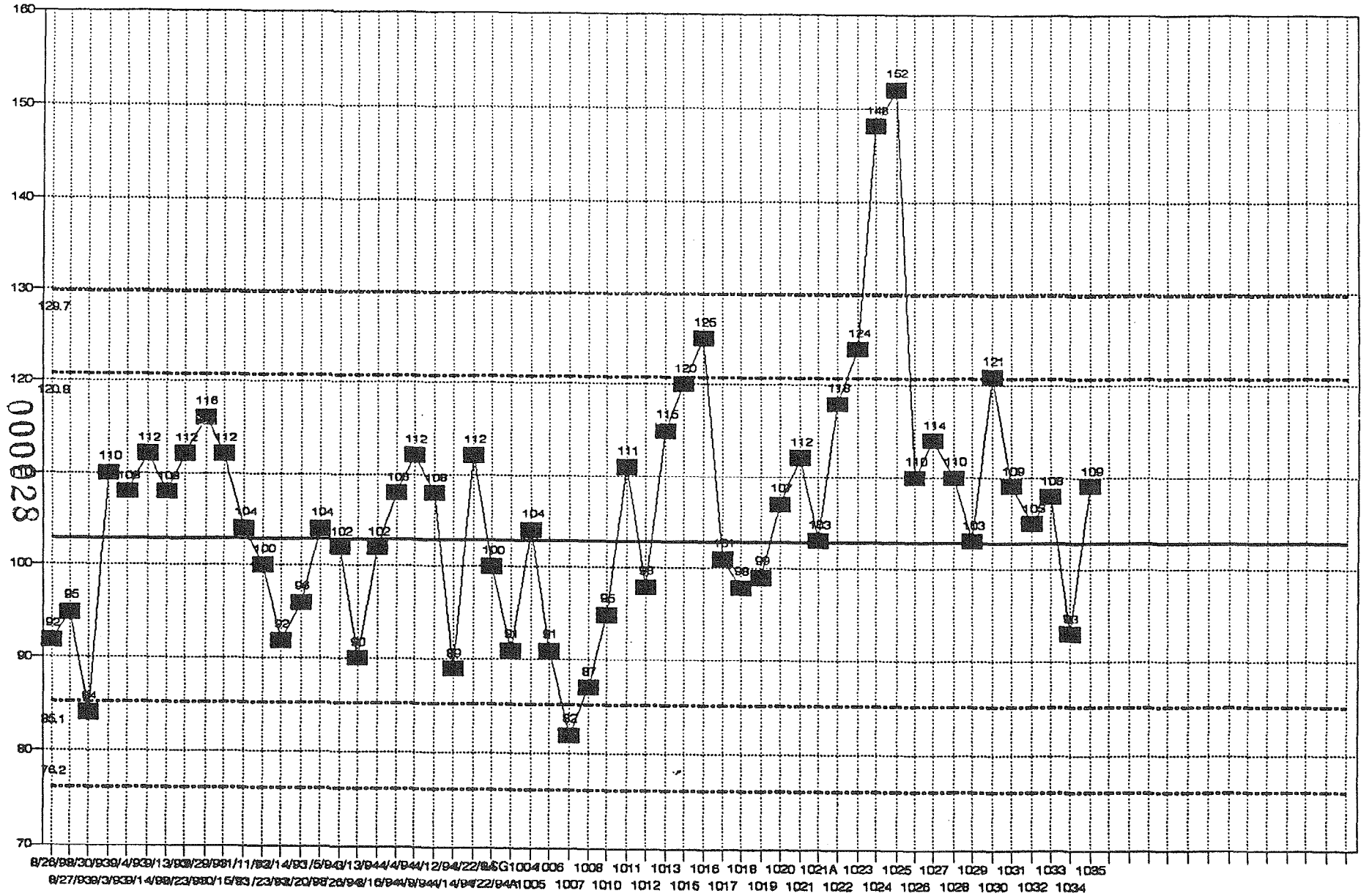
Metals QC Results for : 44928

QC BATCH: 21807
 MATRIX: SOIL
 CONCENTRATION UNITS: MG/KG

ELEMENT	LCS TRUE VALUE	LCS RESULT	LCS % RECOVERY	METHOD BLANK
Lead -	100.90	88.70	87.9	B 0.3

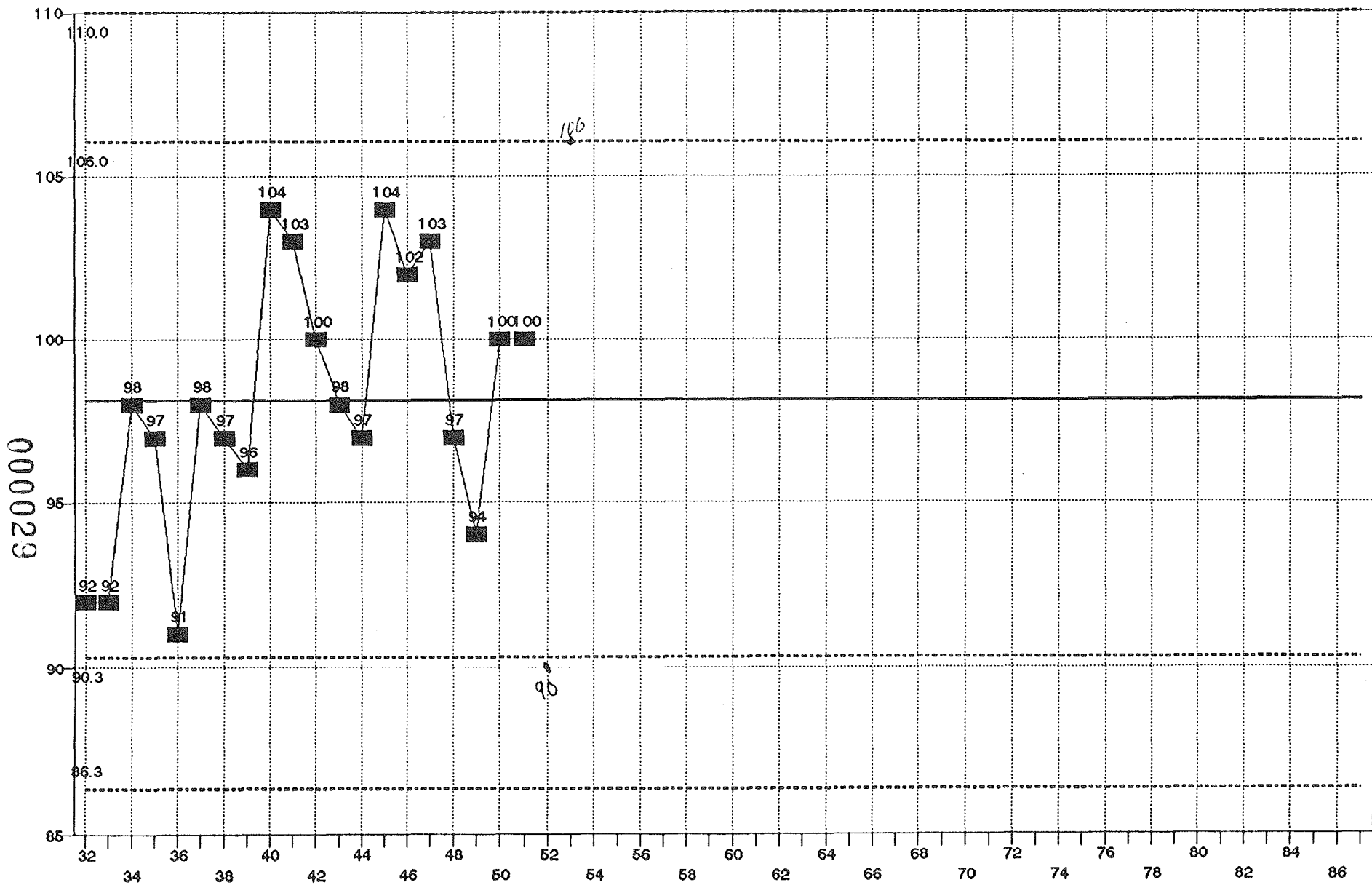
B = Result between instrument detection limit and reporting limit.
 U = Result below instrument detection limit.
 N = LCS recovery not within advisory QC limits (80% - 120%)
 with the exception of Silver QC limits (52% - 136%).

TOTAL GAS LCS RECOVERIES LIMITS SET 4/13/94



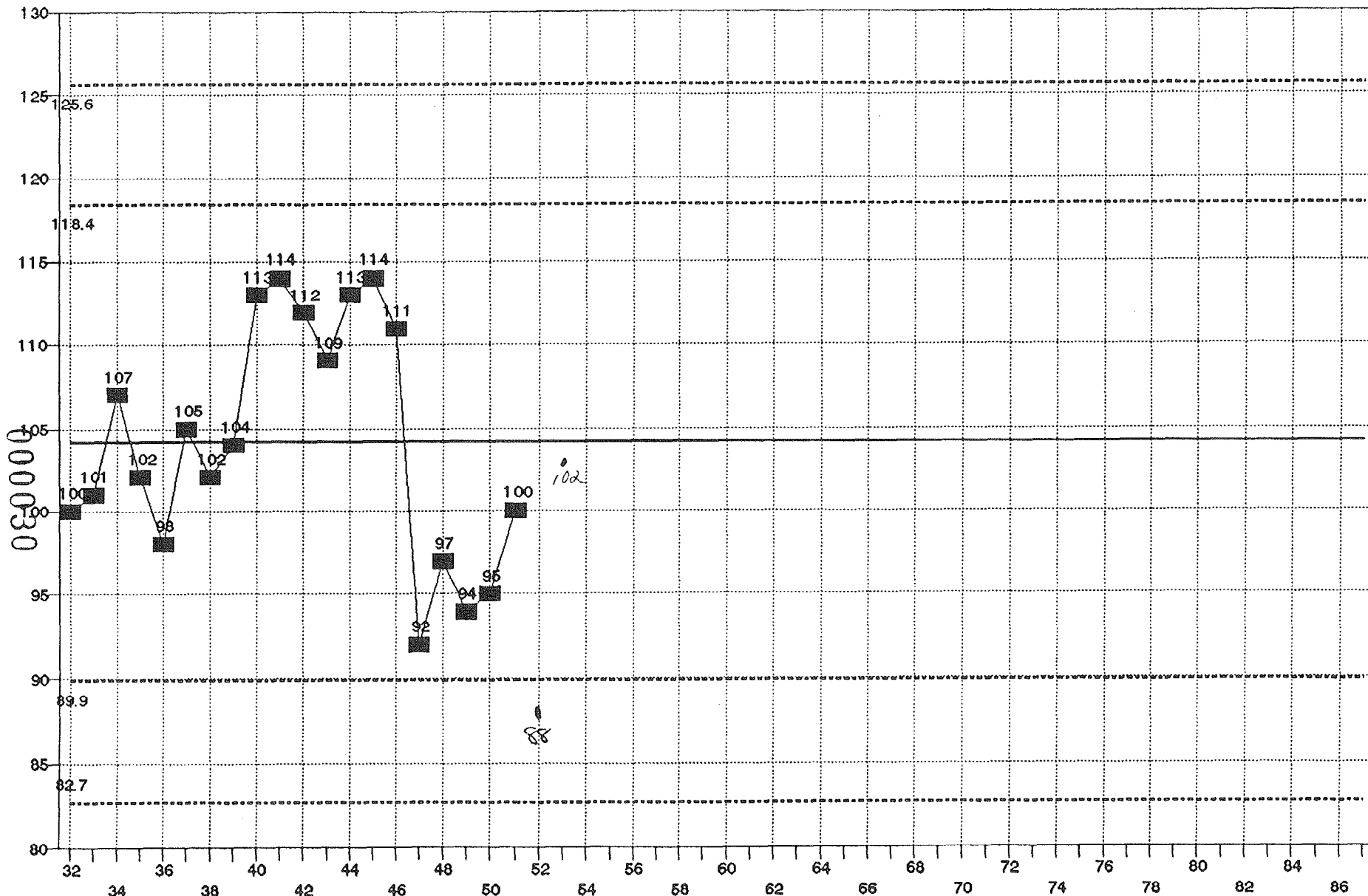
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VOA MED SOLIDS - SURR DCE LIMIT SET 8/95



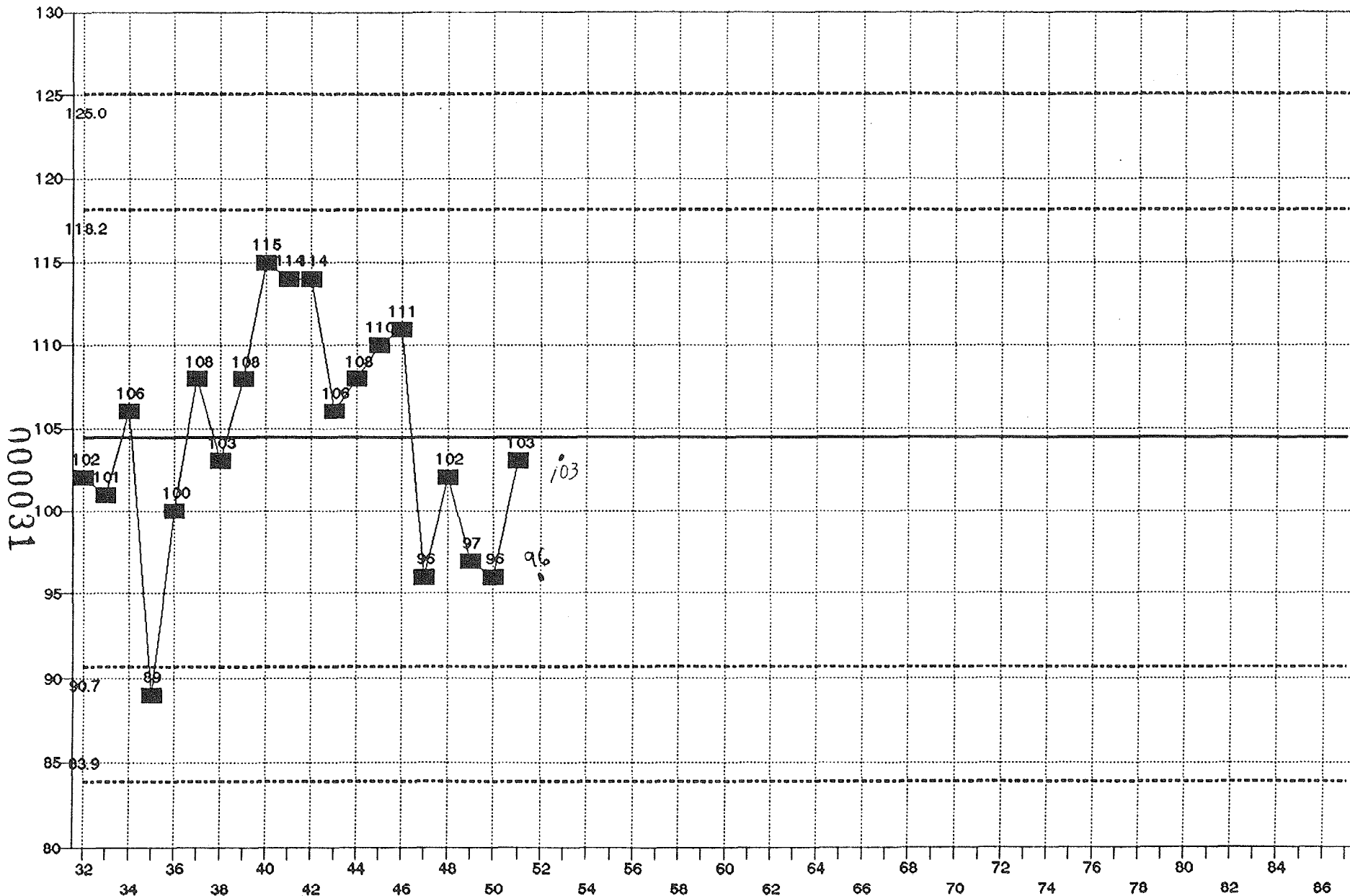
STD DEV = 3.94 MEAN = 98.2

VOA MED SOLIDS - SURR TOL LIMIT SET 8/95



STD DEV = 7.14 MEAN = 104.2

VOA MED SOLIDS - SURR BFB LIMIT SET 8/95



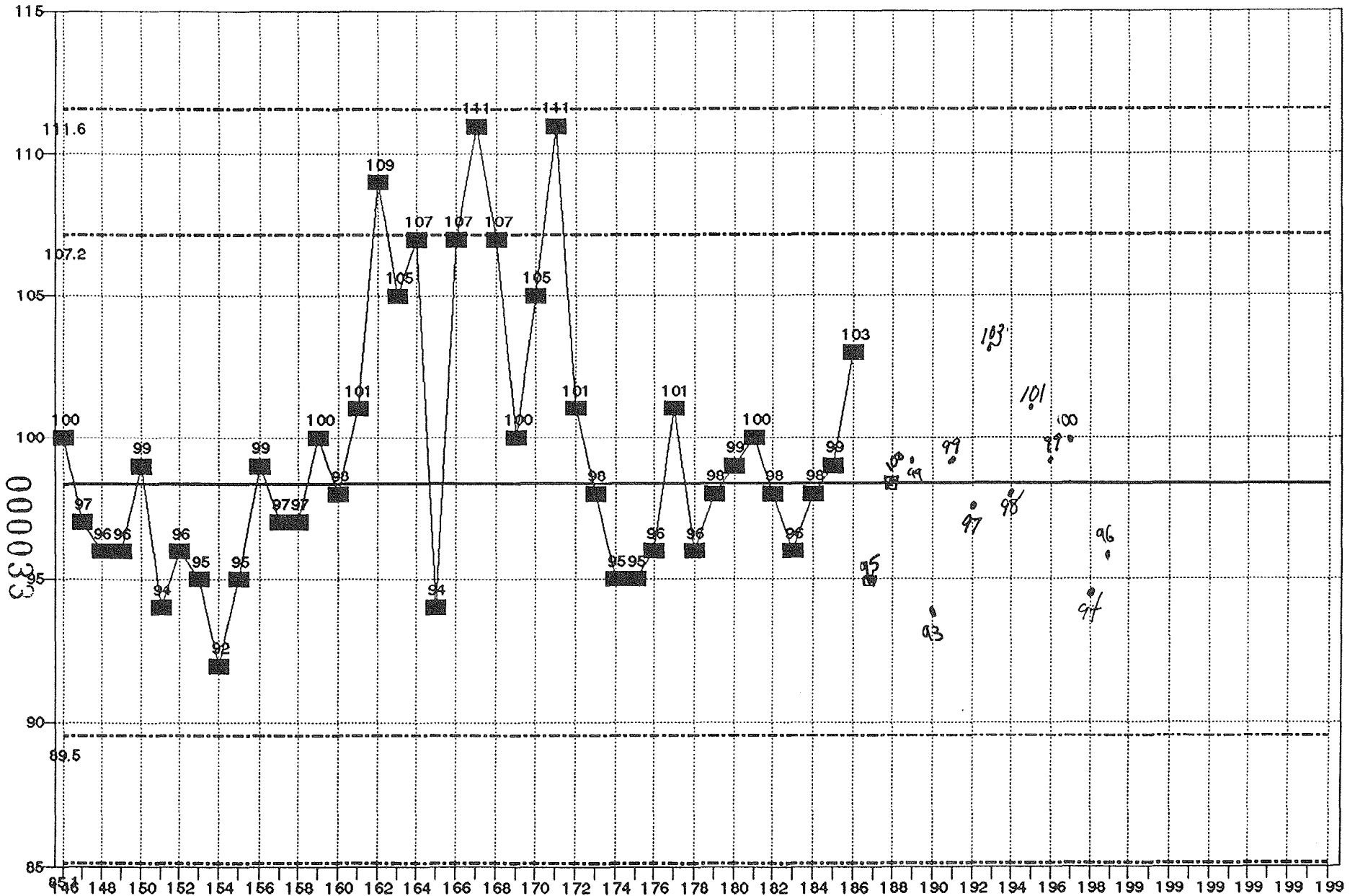
STD DEV = 6.86 MEAN = 104.4

MED SOIL BLANK # LIST

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8		MB050593A
9		MB050693A
10		MB052793B
11		MB052593A
12		MB101293A
13		MB100993A
14		MB111793A
15		MB121393A
16		MB121393A
17		MB020694A
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19		MB021594A
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22		MB042994B
23		MB050494A
24		MB050494A
25		B-V1005A
26		B-V1021A
27		B-V1027B
28		B-V1027C
29		B-V1034C
30		B-V1039
31		B-V1044A
32		B-V1045A
33		B-V1044B
34		B-V1050
35		B-V1066 EMS
36		B-V1066 CMS
37		B-V1070 12/30/94
38		B-V1070 1/3/95
39		B-V1085
40		B-V1084
41		B-V1085
42		B-V1084
43		B-V1087
44		B-V1085
45		B-V1084
46		B-V1084
47		B-V1117A
48		B-V1117B
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50		B-V1118D
51		B-V1118B
52		B-V1118A CMS
53		B-V1119A

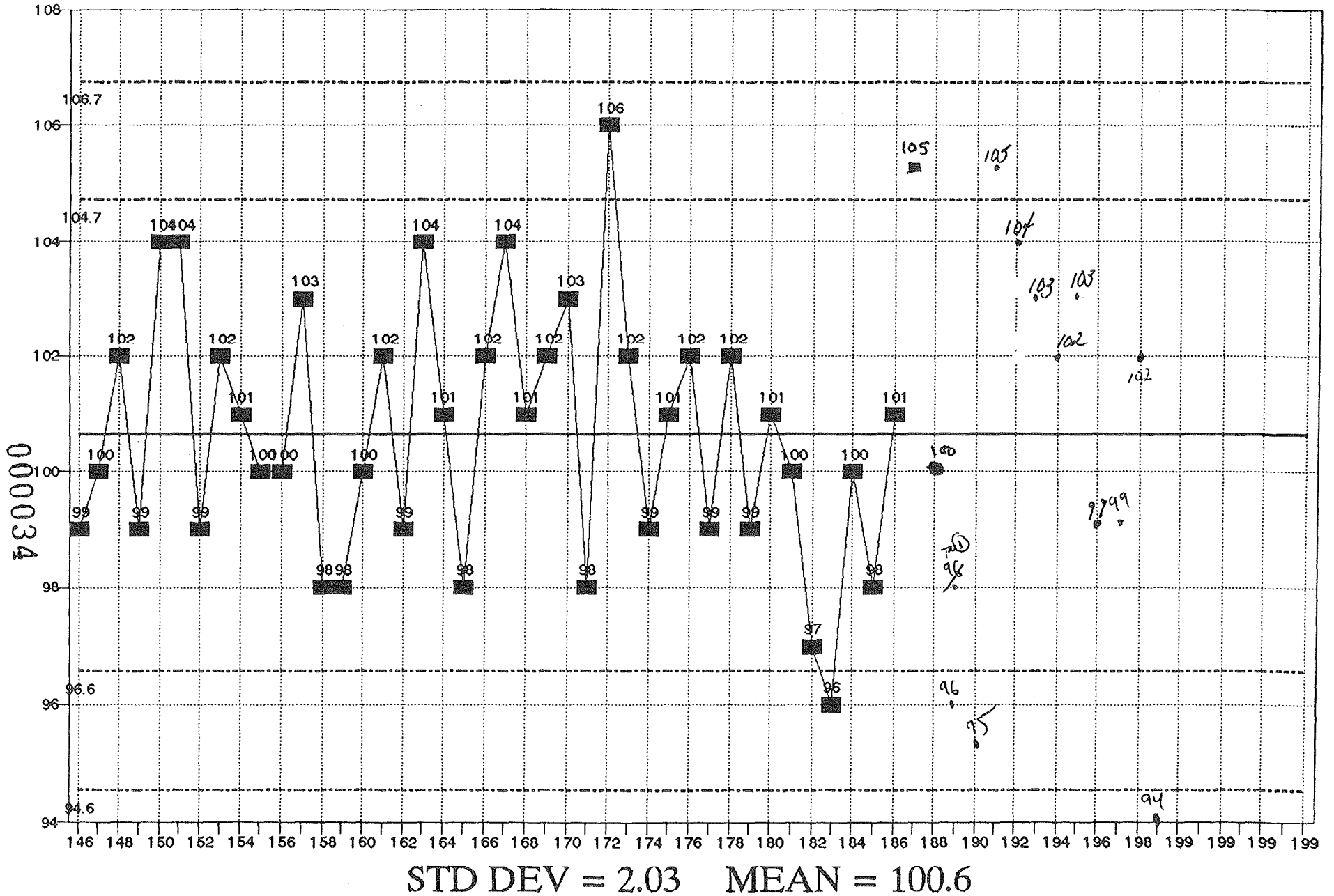
000032

VOA WATERS - SURR DCE LIMITS SET 4/95

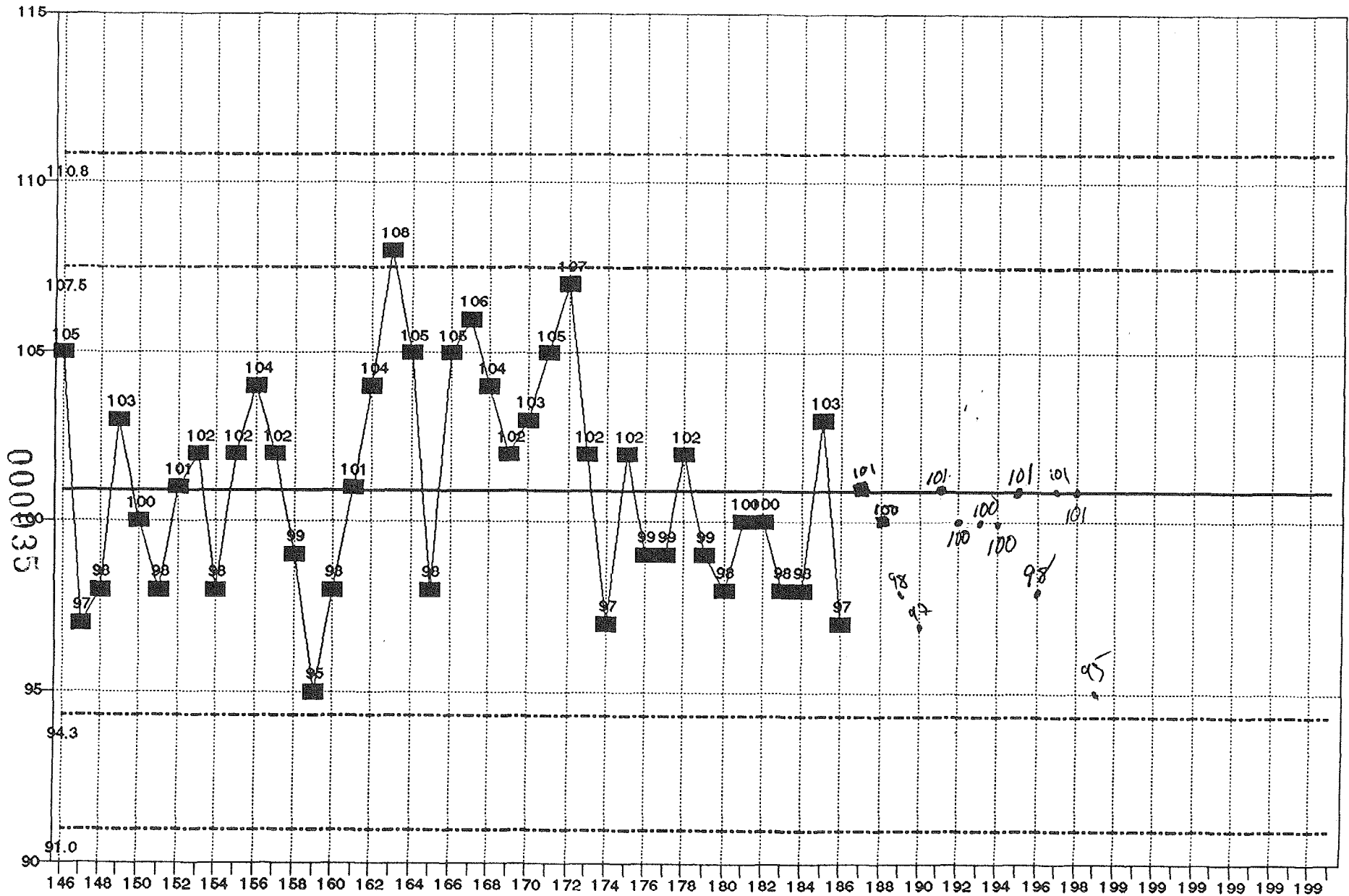


STD DEV = 4.40 MEAN = 98.4

VOA WATERS - SURR TOL LIMIT SET 4/95



VOA WATERS - SURR BFB LIMIT SET 4/95

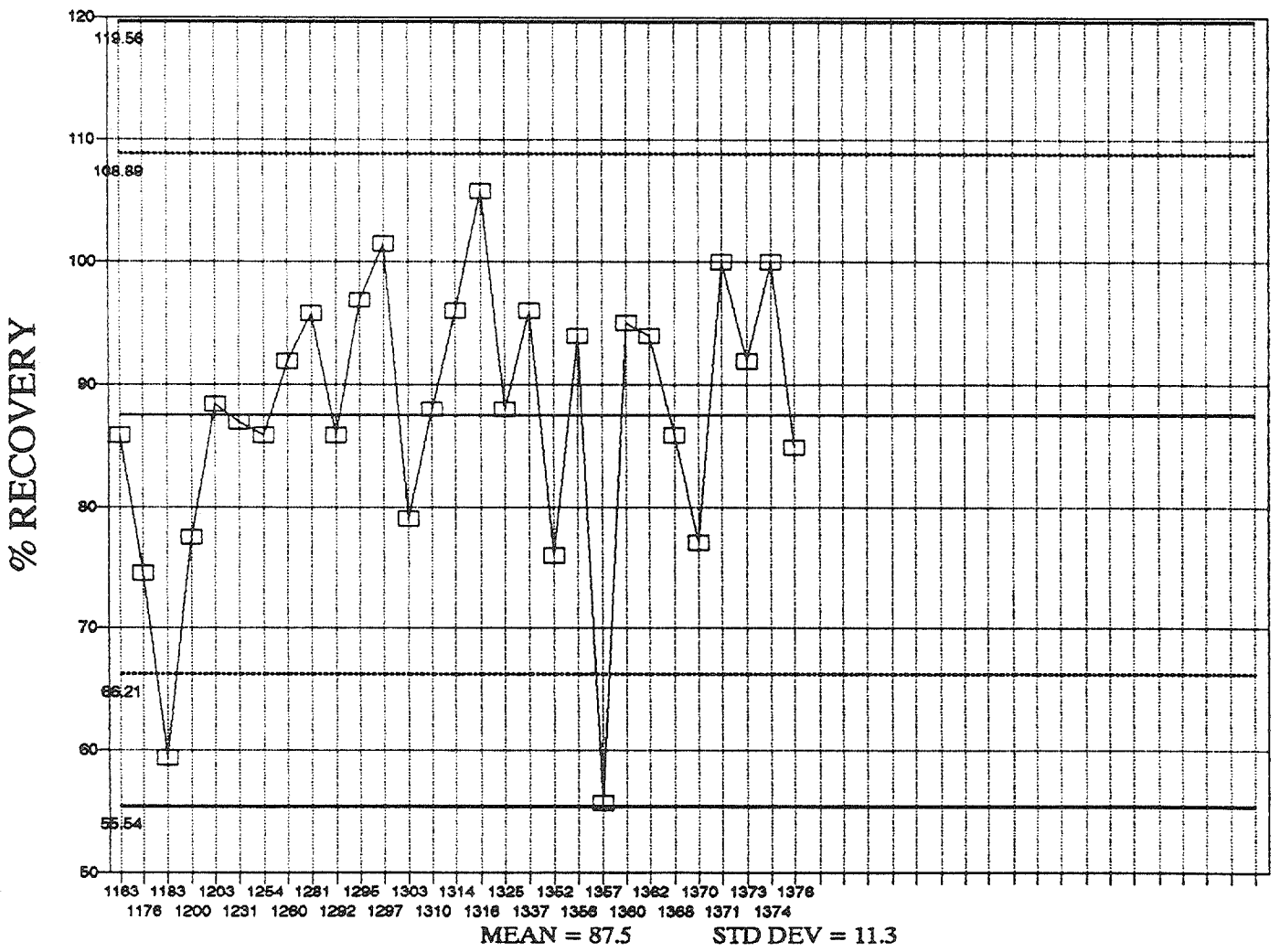


STD DEV = 3.31 MEAN = 100.9

VOLATILES -- WATER SURROGATE CONTROL CHARTS
POINT / BLANK

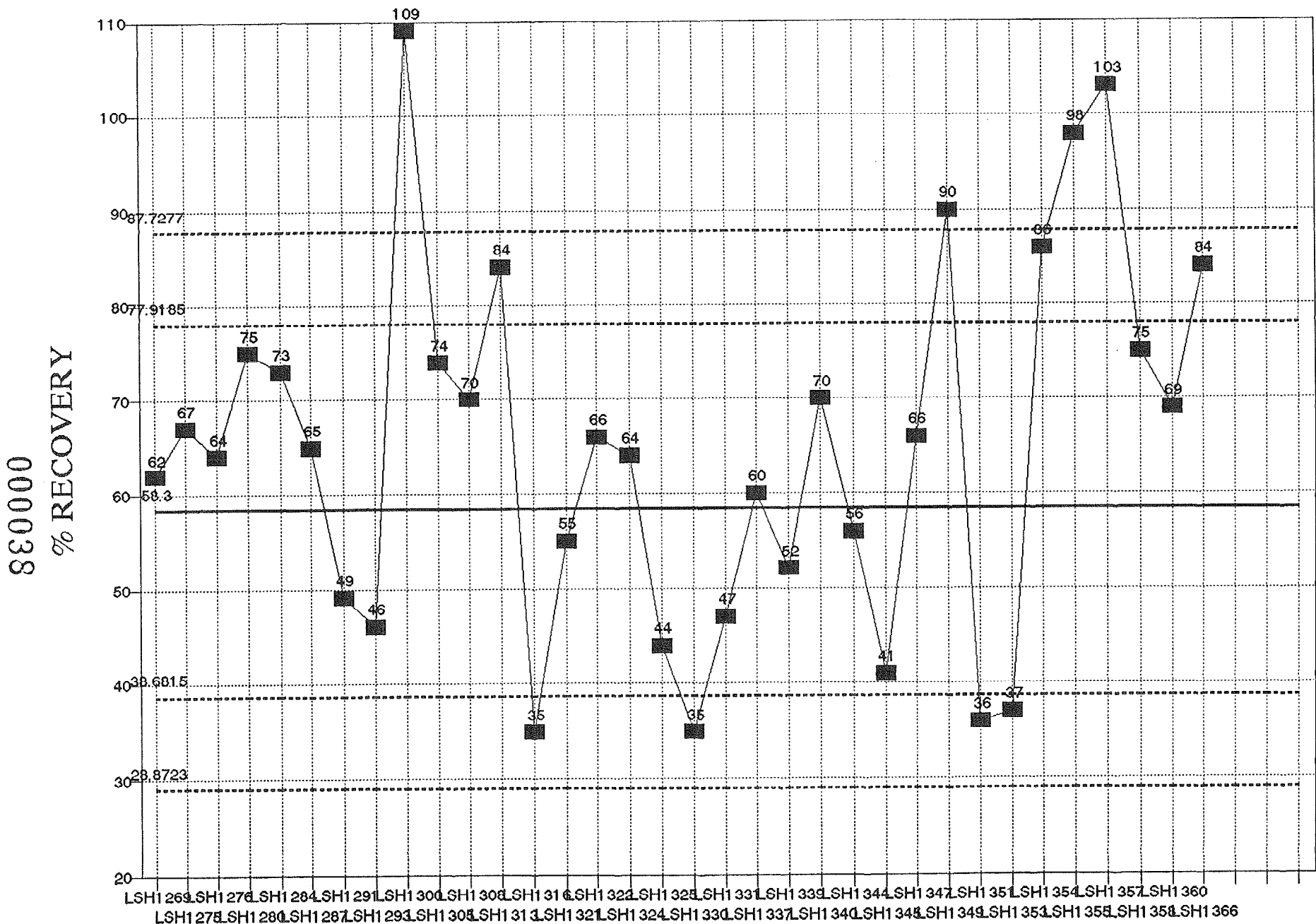
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23	BE082092A	71	BE060193A	119	BC063094A	167	BI042195A
24	BC082592A	72	BE060393A	120	BC072794A	168	BI042495A
25	BC082692A	73	BC062193A	121	BD072794A	169	BC042595B
26	BE082792A	74	BE051393A	122	BD072894A	170	BI042595A
27	BE082892B	75	BC062493A	123	BD072994A	171	BI042795A
28	BE083092A	76	BD051993A	124	BE081194A	172	BI050195A
29	BD101492A	77	BD052093B	125	BC081994A	173	BC050595A
30	BC100992A	78	BC063093A	126	BE101194A	174	BC050695A
31	BC110692A	79	BC061093A	127	BE101294B	175	BG050295B
32	BC111992A	80	BE051393A	128	BG101494A	176	BC062995B
33	BE112092A	81	BD072293A	129	BC110294B	177	BC063095B
34	BC112392A	82	BD072393A	130	BC110394B	178	BC072495A
35	BG113092B	83	BD072693A	131	BC110794B	179	BC072695A
36	BG120192A	84	BD072793A	132	BC110894B	180	BI080895A
37	BC122292A	85	BD073093A	133	BC110994A	181	BI080995A
38	BG013093B	86	BC080493A	134	BC111594B	182	BC080295A
39	BC012193A	87	BC080593A	135	BC111794B	183	BC080495A
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46	BD022493A	94	BE121793A	142	BC120794B	190	BC081495A
47	BG030293A	95	BC122793B	143	BC121594B	191	BI081495A (97, 100, 100)
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51	BG031593A	99	BG021494A	147	BE121694A	195	BI081895A (101, 103, 101)
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53	BD031893A	101	BC022394B	149	BE021395A	197	BC081695A (100, 99, 101)
54	BD031993A	102	BC022494C	150	BE021595A	198	BI082095A (100, 100, 100)
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O&G GRAV-S LCS RECOVERIES



000037

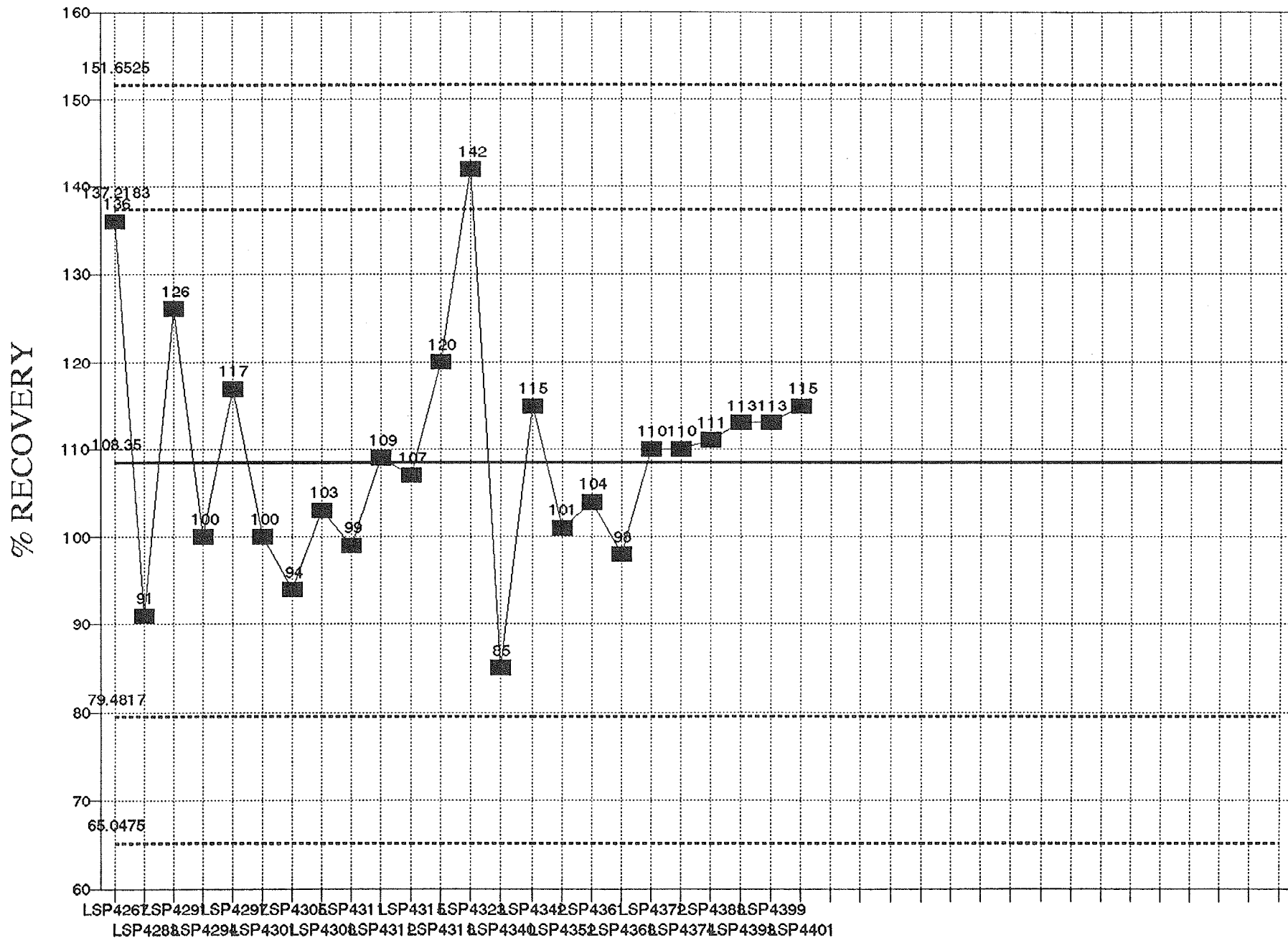
PHC LOW SOLIDS - DIESEL
 SPK REC LIMS SET6/6/95-PPCBCHT\PHCS1294



MEAN = 58.30 STD DEV = 9.81

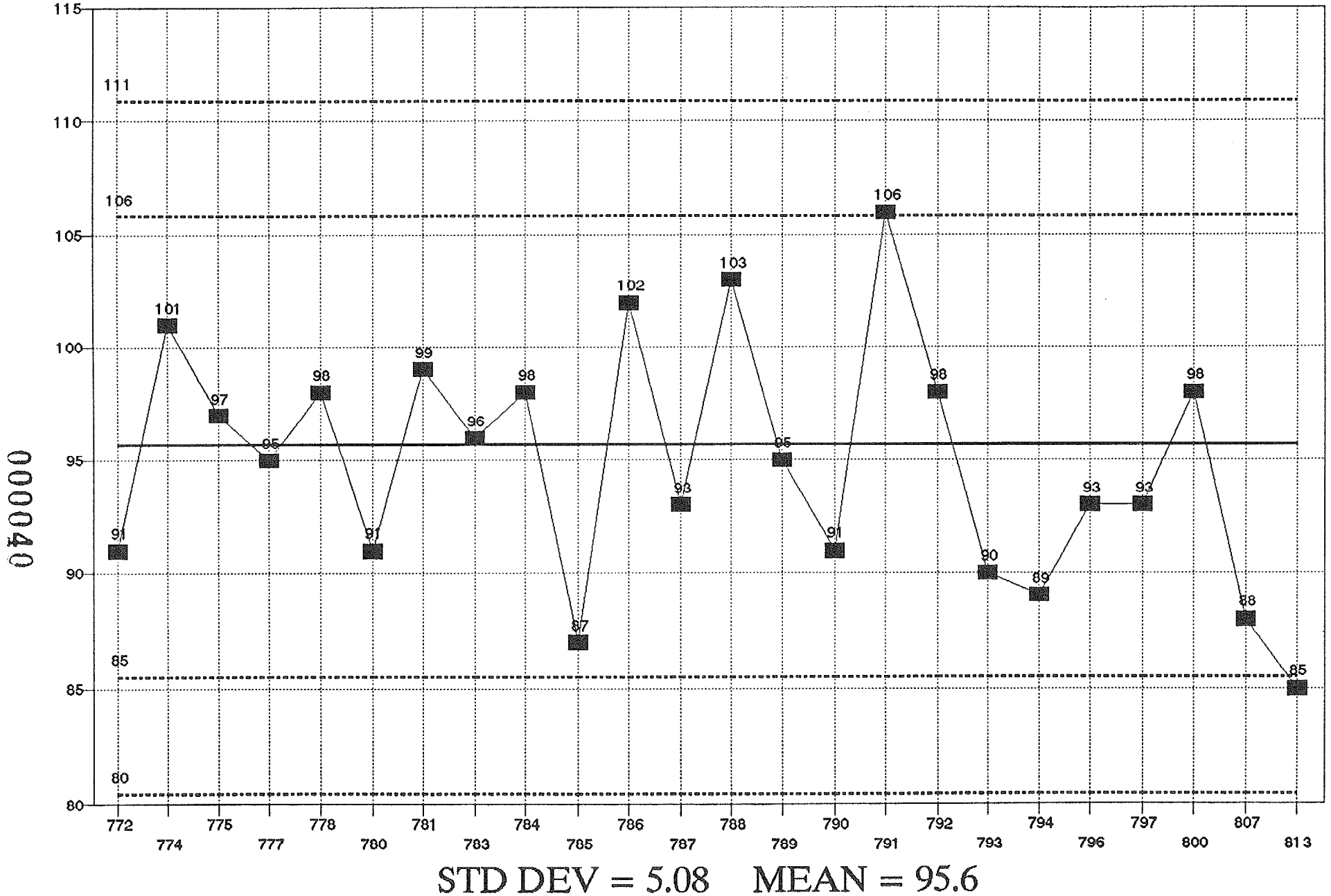
PCB MEDIUM SOLIDS AROCHLOR 1254
 SPK LIMITS SET 8/95-PPCBCHTVAR1254S

000039



MEAN = 108.35 STD DEV = 14.43

Pb TRACECOMMERCIAL LCS SOLID RECOVERIES LIMITS SET 7/95



August 29, 1995

OHM Remediation Services Corporation
5335 Triangle Parkway
Suite 450
Norcross, GA 30092

SAMPLE DELIVERY GROUP NARRATIVE

Case: OHMRC
SDG: LJN12
Laboratory: PACE New England - New Hampshire of Hampton, NH
Lab Numbers: 44929
Protocol: SW846 Methods. NEESA E deliverables. No diskette.

Sample Receipt: These samples were received at PACE, Inc. on August 9, 1995. Laboratory sample numbers were assigned for test parameters as listed on the Sample Table which follows this narrative. The sample shipment was checked for custody seal integrity and cooler temperature. Samples were checked for appropriate preservation and accuracy against the Chains-of-Custody provided. Other than the exceptions noted below, samples were received between 2-6° C and in good condition. PACE Sample Receipt Condition Reports can be found with the Chains-of-Custody.

Shipment received 8/9/95 (44929): These samples were received and logged in under PACE# 44928 and 44929. Samples for 24-hour turnaround were logged in under 44928 and the TCLP parameters were logged in under 44929 for three day turnaround. A temperature blank was not included with the shipment, therefore the cooler temperature could not be verified upon receipt of samples at PACE. The samples were received cool, and had been packed on ice. The rinsate blank listed as Item #6 on the COC was put on hold per the request on the COC.

TCLP Volatiles Analysis: Analyses proceeded without difficulty. Matrix spikes and duplicates met all acceptance criteria.

TCLP Semivolatiles Analysis: Analyses proceeded without difficulty. Matrix spikes and duplicates met all acceptance criteria.

TCLP Metals Analysis: Analyses proceeded without difficulty. Matrix spikes and duplicates met all acceptance criteria.

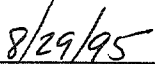
Conventional Chemistry Analysis: Analyses proceeded without difficulty. Matrix spikes and duplicates met all acceptance criteria.

Statement of Compliancy and Data Authorization

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature.



PACE Incorporated, New England-New Hampshire



August 29, 1995



NEW ENGLAND - NEW HAMPSHIRE LABORATORY
SAMPLE RECEIPT CONDITION REPORT

44929

Tel. (603) 926-7777
FAX (603) 926-7939

PAGE 1 of 1
COOLER of
COC#
SDG# L5N12
CASE# OTHM RC

CLIENT OHM
DATE/TIME RECEIVED 8/9/95 0955 LIMS ENTRY BY [Signature]
DELIVERED BY [Signature] TRANSCRIPTION REVIEW BY [Signature]
RECEIVED BY [Signature] LIMS REVIEW BY/PM [Signature]

	NA	YES	EXCEPTION	COMMENT	RESOLUTION			
1. CUSTODY SEALS PRESENT/INTACT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>					
2. CHAIN OF CUSTODY PRESENT IN THIS COOLER	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>					
3. CHAIN OF CUSTODY SIGNED	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>					
4. CHAIN OF CUSTODY MATCHES SAMPLES	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>					
5. SAMPLES RECEIVED AT 2° - 6° C Ice/Ice Packs Present? <input checked="" type="radio"/> or N	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<u>No Temp Blank - Samples cool to track</u>				
6. VOLATILES FREE OF HEAD SPACE	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>					
7. TRIP BLANK PRESENT IN THIS COOLER	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>					
8. PROPER SAMPLE CONTAINERS AND VOLUME	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>					
9. SAMPLES WITHIN HOLD TIME	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>					
10. SAMPLES PROPERLY PRESERVED	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>					
11. ANALYTICAL PROGRAMS (circle one)	COMMERCIAL	CLP	EPA-CLP	NYASP	NJ ISRA	<input checked="" type="checkbox"/> NEESA	AFCEE	Other
12. NUMBER OF PACE FILTRATIONS:	_____							
13. CORRECTIVE ACTIONS REPORT #	_____							

NEESA
NEESA E

Log-in Notes:

CLIENT AUTHORIZATION SIGNATURE _____ DATE _____

SAMPLE TABLE

CLIENT ID.	MATRIX	PACE #	PARAMETERS
CLJ44-CC-027	SOLID	44929-012	GC/MS VOA ACID EXTRACTABLES BASE/NEUTRAL EXTRACTABLES TCLP VOA EXTRACT TCLP ORGANICS EXTRACT CORROSIVITY FLASH POINT RELEASABLE CYANIDE RELEASABLE SULFIDE TCLP METALS EXTRACTION Ba, Cd, Cr, Pb, Hg, Ag, As, Se
CLJ44-CC-027D	SOLID	44929-014	GC/MS VOA ACID EXTRACTABLES BASE/NEUTRAL EXTRACTABLES TCLP VOA EXTRACT TCLP ORGANICS EXTRACT CORROSIVITY FLASH POINT RELEASABLE CYANIDE RELEASABLE SULFIDE TCLP METALS EXTRACTION Ba, Cd, Cr, Pb, Hg, Ag, As, Se

TOXICITY CHARACTERISTIC LEACHING PROCEDURE (1)
EXTRACTION FOR VOLATILE CONSTITUENTS

Laboratory Number : 44929-012
Field Identification : CLJ44-CC-027
Extraction Date : 08/10/95
TCLP Blank : 90,002-389

Sample description : NON-HOMOGENEOUS GRANULAR SOIL

Extraction Fluid Selection (1,2):

Extraction Fluid #1 was used as specified in the method.

Sample Preparation (1):

Since the sample contained no free liquid, it was not filtered before extraction. 25 g of sample was added to the extractor with 500 mL of Extraction Fluid #1.

Extraction Time : 16.00 hrs

% Solids as defined in method : 100

References:

1. 40 CFR Part 261, Appendix II, Nov. 24, 1992
2. Extraction Fluid #1: 0.57% by volume glacial acetic acid to which 0.1N NaOH has been added to yield a pH of 4.93 +/- 0.05.

TOXICITY CHARACTERISTIC LEACHING PROCEDURE
ANALYSIS FOR VOLATILE CONSTITUENTS

Laboratory number: 44929-012
Sample Designation: CLJ44-CC-027
Matrix: TCLP EXTRACT

Parameter	Result (mg/L)	Regulatory	Reporting
		Limit (mg/L)	Limit (mg/L)

VOLATILES		Date Analyzed: 08/14/95	
Vinyl chloride	BDL	0.2	.01
1,1-Dichloroethene	BDL	0.7	.005
1,2-Dichloroethane	BDL	0.5	.005
Chloroform	BDL	6.0	.005
Methyl ethyl ketone	BDL	200	.025
Carbon Tetrachloride	BDL	0.5	.005
Trichloroethene	BDL	0.5	.005
Benzene	BDL	0.5	.005
Tetrachloroethene	BDL	0.7	.005
Chlorobenzene	BDL	100	.005

Results uncorrected for matrix spike recovery.

TOXICITY CHARACTERISTIC LEACHING PROCEDURE (1)
EXTRACTION FOR NON-VOLATILE CONSTITUENTS

Laboratory Number : 44929-012
Field Identification : CLJ44-CC-027
Extraction Date : 08/10/95
TCLP Blank : 90,001-274

Sample description : NON-HOMOGENEOUS GRANULAR SOIL

Extraction Fluid Selection (1,2):

A 5.0 gm portion of the sample was stirred with 96.5 mL deionized water. The pH at the end of 5 minutes was 7.49. 3.5 mL 1.0N HCl was added and the mixture was then heated to 50C for ten minutes. Upon cooling the pH was 1.67, therefore Extraction Fluid #1 was used.

Sample Preparation (1):

Since the sample contained no free liquid, it was not filtered before extraction. 100 gm of sample was added to the extractor with 2000 mL Extraction Fluid #1.

Extraction Time : 16.50 hrs

Final pH : 5.18

% Solids as defined in method : 100

References:

1. 40 CFR Part 261, Appendix II, Nov. 24, 1992
2. Extraction Fluid: 0.57% by volume glacial acetic acid to which 0.1N NaOH has been added to yield a pH of 4.93 +/- 0.05.

Laboratory number: 44929-012
Sample Designation: CLJ44-CC-027
Date Extracted: 08/14/95
Date Analyzed: 08/15/95
Matrix: TCLP EXTRACT

Instrument File Name: >H8813

Parameter	Result (mg/L)	Regulatory Limit (mg/L)	Reporting Limit (mg/L)
Pyridine	BDL	5.0	0.05
1,4-Dichlorobenzene	BDL	7.5	0.05
2,4-Dinitrotoluene	BDL	0.13	0.05
2-Methylphenol	BDL	200	0.05
3,4-Methylphenols	BDL	200	0.05
Hexachloroethane	BDL	3.0	0.05
Nitrobenzene	BDL	2.0	0.05
Hexachlorobenzene	BDL	0.13	0.05
Pentachlorophenol	BDL	100	0.05
Hexachlorobutadiene	BDL	0.5	0.05
2,4,6-Trichlorophenol	BDL	2.0	0.05
2,4,5-Trichlorophenol	BDL	400	0.05

METHOD REFERENCE: EPA SW846, 3rd Edition
METHOD 8270

BDL = Below reporting limit

TOXICITY CHARACTERISTIC LEACHING PROCEDURE
ANALYSIS FOR METALS CONSTITUENTS

Laboratory number: 44929 -012
Sample Designation: CLJ44-CC-027
Matrix: TCLP EXTRACT

Parameter		Result (mg/L)	Regulatory Limit (mg/L)	Reporting Limit (mg/L)

METALS	Date Analyzed			
Arsenic	08/16/95 13:59	BDL	5.0	.05
Barium	08/16/95 13:59	BDL	100	.5
Cadmium	08/16/95 13:59	BDL	1.0	.03
Chromium	08/16/95 13:59	BDL	5.0	.05
Lead	08/16/95 13:59	BDL	5.0	.03
Mercury	08/17/95 11:48	BDL	0.2	.0003
Selenium	08/16/95 13:59	BDL	1.0	.05
Silver	08/16/95 13:59	BDL	5.0	.1

Results uncorrected for matrix spike recovery.

TOXICITY CHARACTERISTIC LEACHING PROCEDURE (1)
EXTRACTION FOR VOLATILE CONSTITUENTS

Laboratory Number : 44929-014
Field Identification : CLJ44-CC-027D
Extraction Date : 08/10/95
TCLP Blank : 90,002-389

Sample description : NON-HOMOGENEOUS GRANULAR SOIL

Extraction Fluid Selection (1,2):

Extraction Fluid #1 was used as specified in the method.

Sample Preparation (1):

Since the sample contained no free liquid, it was not filtered before extraction. 25 g of sample was added to the extractor with 500 mL of Extraction Fluid #1.

Extraction Time : 16.00 hrs

% Solids as defined in method : 100

References:

1. 40 CFR Part 261, Appendix II, Nov. 24, 1992
2. Extraction Fluid #1: 0.57% by volume glacial acetic acid to which 0.1N NaOH has been added to yield a pH of 4.93 +/- 0.05.

TOXICITY CHARACTERISTIC LEACHING PROCEDURE
ANALYSIS FOR VOLATILE CONSTITUENTS

Laboratory number: 44929-014
Sample Designation: CLJ44-CC-027D
Matrix: TCLP EXTRACT

Parameter	Result (mg/L)	Regulatory Limit (mg/L)	Reporting Limit (mg/L)

VOLATILES	Date Analyzed: 08/14/95		
Vinyl chloride	BDL	0.2	.01
1,1-Dichloroethene	BDL	0.7	.005
1,2-Dichloroethane	BDL	0.5	.005
Chloroform	BDL	6.0	.005
Methyl ethyl ketone	BDL	200	.025
Carbon Tetrachloride	BDL	0.5	.005
Trichloroethene	BDL	0.5	.005
Benzene	BDL	0.5	.005
Tetrachloroethene	BDL	0.7	.005
Chlorobenzene	BDL	100	.005

Results uncorrected for matrix spike recovery.

TOXICITY CHARACTERISTIC LEACHING PROCEDURE (1)
EXTRACTION FOR NON-VOLATILE CONSTITUENTS

Laboratory Number : 44929-014
Field Identification : CLJ44-CC-027D
Extraction Date : 08/10/95
TCLP Blank : 90,001-274

Sample description : NON-HOMOGENEOUS GRANULAR SOIL

Extraction Fluid Selection (1,2):

A 5.0 gm portion of the sample was stirred with 96.5 mL deionized water. The pH at the end of 5 minutes was 7.52. 3.5 mL 1.0N HCl was added and the mixture was then heated to 50C for ten minutes. Upon cooling the pH was 1.84, therefore Extraction Fluid #1 was used.

Sample Preparation (1):

Since the sample contained no free liquid, it was not filtered before extraction. 100 gm of sample was added to the extractor with 2000 mL Extraction Fluid #1.

Extraction Time : 16.50 hrs

Final pH : 5.14

% Solids as defined in method : 100

References:

1. 40 CFR Part 261, Appendix II, Nov. 24, 1992
2. Extraction Fluid: 0.57% by volume glacial acetic acid to which 0.1N NaOH has been added to yield a pH of 4.93 +/- 0.05.

Laboratory number: 44929-014
Sample Designation: CLJ44-CC-027D
Date Extracted: 08/14/95
Date Analyzed: 08/15/95
Matrix: TCLP EXTRACT

Instrument File Name: >H8814

Parameter	Result (mg/L)	Regulatory Limit (mg/L)	Reporting Limit (mg/L)
Pyridine	BDL	5.0	0.05
1,4-Dichlorobenzene	BDL	7.5	0.05
2,4-Dinitrotoluene	BDL	0.13	0.05
2-Methylphenol	BDL	200	0.05
3,4-Methylphenols	BDL	200	0.05
Hexachloroethane	BDL	3.0	0.05
Nitrobenzene	BDL	2.0	0.05
Hexachlorobenzene	BDL	0.13	0.05
Pentachlorophenol	BDL	100	0.05
Hexachlorobutadiene	BDL	0.5	0.05
2,4,6-Trichlorophenol	BDL	2.0	0.05
2,4,5-Trichlorophenol	BDL	400	0.05

METHOD REFERENCE: EPA SW846, 3rd Edition
METHOD 8270

BDL = Below reporting limit

TOXICITY CHARACTERISTIC LEACHING PROCEDURE
ANALYSIS FOR METALS CONSTITUENTS

Laboratory number: 44929 -014
 Sample Designation: CLJ44-CC-027D
 Matrix: TCLP EXTRACT

Parameter	Result (mg/L)	Regulatory Limit (mg/L)	Reporting Limit (mg/L)

METALS			
	Date Analyzed		
Arsenic	08/16/95 14:05	BDL	5.0
Barium	08/16/95 14:05	BDL	100
Cadmium	08/16/95 14:05	BDL	1.0
Chromium	08/16/95 14:05	BDL	5.0
Lead	08/16/95 14:05	BDL	5.0
Mercury	08/17/95 14:05	BDL	0.2
Selenium	08/16/95 14:05	BDL	1.0
Silver	08/16/95 14:05	BDL	5.0
			.05
			.5
			.03
			.05
			.03
			.0003
			.05
			.1

Results uncorrected for matrix spike recovery.

TCLP METHOD SUMMARY

PARAMETER	METHOD/REF.
TCLP Extract Generation	1311/1
Volatile organic compounds	8240/2
Semivolatile organic compounds	8270/2
Pesticides	8080/2
Herbicides	8150/2
Metals:	
Arsenic	6010/2
Barium	6010/2
Cadmium	6010/2
Chromium	6010/2
Lead	6010/2
Mercury	7470/2
Selenium	6010/2
Silver	6010/2

References: 1) 40 CFR Part 261, Appendix II, Nov. 24, 1992
2) EPA SW 846, 3rd Edition

Field Identification: CLJ44-CC-027

Matrix: SOLID

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Corrosivity (pH, units)	7.9		44929-012	08/09/95	348	2.1.2/2
Releasable Sulfide (mg/Kg)	BDL	50	44929-012	08/11/95	291	7.3.4.2/2
Releasable Cyanide (mg/Kg)	BDL	1	44929-012	08/14/95	291	7.3.3.2/2
Flash Point (degrees F)	>150	50	44929-012	08/09/95	317	1010/2

Field Identification: CLJ44-CC-027D

Matrix: SOLID

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Corrosivity (pH, units)	8.0		44929-014	08/09/95	348	2.1.2/2
Releasable Sulfide (mg/Kg)	BDL	50	44929-014	08/11/95	291	7.3.4.2/2
Releasable Cyanide (mg/Kg)	BDL	1	44929-014	08/14/95	291	7.3.3.2/2
Flash Point (degrees F)	>150	50	44929-014	08/09/95	317	1010/2

Results expressed on a weight as received basis.

References: 2) EPA SW 846, 3rd Edition

Laboratory number: TCLP BLANK #389
Client ID: TCLP BLANK
Date Analyzed: 08/14/95
Matrix: TCLP EXTRACT

Parameter	Result (ug/L)	Regulatory Limit (ug/L)	Detection Limit (ug/L)
Vinyl chloride	BDL	200	10
1,1-Dichloroethene	BDL	700	5
1,2-Dichloroethane	BDL	500	5
Chloroform	BDL	6000	5
Methyl ethyl ketone	BDL	200000	25
Carbon Tetrachloride	BDL	500	5
Trichloroethene	BDL	500	5
Benzene	BDL	500	5
Tetrachloroethene	BDL	700	5
Chlorobenzene	BDL	100000	5

METHOD REFERENCE: EPA SW846 3rd EDITION
METHOD 8240

BDL = Below detection limit

Laboratory number: BC081495A1
 Sample Designation: LABORATORY BLANK
 Date Analyzed: 08/14/95
 Matrix: WATER

VOLATILE ORGANICS	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
Chloromethane	BDL	10
Bromomethane	BDL	10
Vinyl chloride	BDL	10
Chloroethane	BDL	5
Methylene chloride	BDL	10
Acetone	BDL	25
Carbon disulfide	BDL	5
1,1-Dichloroethene	BDL	5
Tetrahydrofuran	BDL	25
1,1-Dichloroethane	BDL	5
1,2-Dichloroethene (total)	BDL	5
Chloroform	BDL	5
Methyl ethyl ketone	BDL	25
1,2-Dichloroethane	BDL	5
1,1,1-Trichloroethane	BDL	5
Carbon Tetrachloride	BDL	5
Vinyl acetate	BDL	10
Bromodichloromethane	BDL	5
cis-1,3-Dichloropropene	BDL	5
trans-1,3-Dichloropropene	BDL	5
Trichloroethene	BDL	5
Benzene	BDL	5
Dibromochloromethane	BDL	5
1,1,2-Trichloroethane	BDL	5
1,2-Dichloropropane	BDL	5
2-Chloroethyl vinyl ether	BDL	5
Bromoform	BDL	5
Methyl isobutyl ketone	BDL	25
2-Hexanone	BDL	25
1,1,2,2-Tetrachloroethane	BDL	5
Tetrachloroethene	BDL	5
Toluene	BDL	5
Chlorobenzene	BDL	5
Ethylbenzene	BDL	5
m-Xylene	BDL	5
o,p-Xylene	BDL	5
Styrene	BDL	5

METHOD REFERENCE: EPA SW 846 3RD EDITION
 METHOD 8240

BDL = Below detection limit



MATRIX SPIKE RECOVERY
VOLATILE ORGANIC COMPOUNDS

Laboratory Number: LCC081495A1
Sample Designation: LABORATORY CONTROL SAMPLE
Date Analyzed: 08/14/95
Matrix: WATER

COMPOUND	ug/L IN SAMPLE	ug/L SPIKE	ug/L FOUND	%REC- OVERY
1,1-DICHLOROETHENE	0	50	60	120
TRICHLOROETHYLENE	0	50	51	102
BENZENE	0	50	51	101
TOLUENE	0	50	47	94
CHLOROBENZENE	0	50	49	98

METHOD REFERENCE: EPA SW 846, 3RD EDITION
METHOD 8240

Laboratory number: TCLP BLANK #274
Sample Designation: TCLP BLANK
Date Analyzed: 08/18/95
Matrix: TCLP EXTRACT

Parameter	Result (ug/L)	Regulatory Limit (ug/L)	Detection Limit (ug/L)
Pyridine	BDL	5000	56
1,4-Dichlorobenzene	BDL	7500	56
2,4-Dinitrotoluene	BDL	130	56
2-Methylphenol	BDL	200000	56
3,4-Methylphenols	BDL	200000	56
Hexachloroethane	BDL	3000	56
Nitrobenzene	BDL	2000	56
Hexachlorobenzene	BDL	130	56
Pentachlorophenol	BDL	100000	56
Hexachlorobutadiene	BDL	500	56
2,4,6-Trichlorophenol	BDL	2000	56
2,4,5-Trichlorophenol	BDL	400000	56

METHOD REFERENCE: EPA SW 846, 3RD EDITION
METHOD 8270

BDL = Below detection limit

Laboratory number: B-A2401
 Sample Designation: LABORATORY BLANK
 Date Analyzed: 08/15/95
 Matrix: WATER

ACID/BASE/NEUTRAL EXTRACTABLES	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)	ACID/BASE/NEUTRAL EXTRACTABLES	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
N-Nitrosodimethylamine	BDL	10	3-Nitroaniline	BDL	50
Phenol	BDL	10	Acenaphthene	BDL	10
Aniline	BDL	10	2,4-Dinitrophenol	BDL	50
Bis(2-chloroethyl)ether	BDL	10	4-Nitrophenol	BDL	50
2-Chlorophenol	BDL	10	Dibenzofuran	BDL	10
1,3-Dichlorobenzene	BDL	10	2,4-Dinitrotoluene	BDL	10
1,4-Dichlorobenzene	BDL	10	Diethylphthalate	BDL	10
Benzylalcohol	BDL	10	4-Chlorophenyl-phenylether	BDL	10
1,2-Dichlorobenzene	BDL	10	Fluorene	BDL	10
2-Methylphenol	BDL	10	4-Nitroaniline	BDL	50
Bis(2-chloroisopropyl)ether	BDL	10	4,6-Dinitro-2-methylphenol	BDL	50
4-Methylphenol	BDL	10	N-Nitrosodiphenylamine	BDL	10
N-Nitroso-di-N-propylamine	BDL	10	Azobenzene	BDL	10
Hexachloroethane	BDL	10	4-Bromophenyl-phenylether	BDL	10
Nitrobenzene	BDL	10	Hexachlorobenzene	BDL	10
Isophorone	BDL	10	Pentachlorophenol	BDL	10
2-Nitrophenol	BDL	10	Phenanthrene	BDL	10
2,4-Dimethylphenol	BDL	10	Anthracene	BDL	10
Benzoic acid	BDL	50	Di-N-butylphthalate	BDL	10
Bis(2-chloroethoxy)methane	BDL	10	Fluoranthene	BDL	10
2,4-Dichlorophenol	BDL	10	Benzidine	BDL	50
1,2,4-Trichlorobenzene	BDL	10	Pyrene	BDL	10
Naphthalene	BDL	10	Butylbenzylphthalate	BDL	10
4-Chloroaniline	BDL	10	3,3'-Dichlorobenzidine	BDL	20
Hexachlorobutadiene	BDL	10	Benzo(A)anthracene	BDL	10
4-Chloro-3-methylphenol	BDL	10	Chrysene	BDL	10
2-Methylnaphthalene	BDL	10	Bis(2-ethylhexyl)phthalate	BDL	10
Hexachlorocyclopentadiene	BDL	10	Di-N-octylphthalate	BDL	10
2,4,6-Trichlorophenol	BDL	10	Benzo(B)fluoranthene	BDL	10
2,4,5-Trichlorophenol	BDL	50	Benzo(K)fluoranthene	BDL	10
2-Chloronaphthalene	BDL	10	Benzo(A)pyrene	BDL	10
2-Nitroaniline	BDL	50	Ideno(1,2,3,-CD)pyrene	BDL	10
Dimethylphthalate	BDL	10	Dibenz(A,H)anthracene	BDL	10
Acenaphthylene	BDL	10	Benzo(G,H,I)perylene	BDL	10
2,6-Dinitrotoluene	BDL	10			

METHOD REFERENCE: EPA SW 846, 3RD EDITION
 METHOD 8270

BDL = Below detection limit

MATRIX SPIKE RECOVERY
ACID/BASE/NEUTRAL EXTRACTABLE ORGANIC COMPOUNDS

Laboratory Number: LS-A2401
Sample Designation: LABORATORY CONTROL SAMPLE
Date Analyzed: 08/15/95
Matrix: WATER

COMPOUND	ug/L IN SAMPLE	ug/L SPIKE	ug/L FOUND	%REC- OVERY
PHENOL	0	200	134	67
2-CHLOROPHENOL	0	200	142	71
1,4-DICHLOROBENZENE	0	100	61	61
N-NITROSO-DI-N-PROPYLAMINE	0	100	70	70
1,2,4-TRICHLOROBENZENE	0	100	65	65
4-CHLORO-3-METHYLPHENOL	0	200	145	72
ACENAPHTHENE	0	100	72	72
4-NITROPHENOL	0	200	143	72
2,4-DINITROTOLUENE	0	100	73	73
PENTACHLOROPHENOL	0	200	124	62
PYRENE	0	100	68	68

METHOD REFERENCE: EPA SW 846, 3rd Edition
METHOD 8270

QUALITY CONTROL
Corrosivity
Method: 7.2 SW846 3rd Edition

QC Batch: 348 For: 44929
Matrix: SOLID

LABORATORY CONTROL SAMPLES:

	True Value Units -----	Observed Value Units -----
LCS1	7.0	7.02

PACE INC. NE-NH LAB
QUALITY CONTROL
Releasable Sulfide
Method: 7.3.4.2 EPA SW846, 3rd Edition

QC Batch: 291 For: 44929
Matrix: SOLID

METHOD BLANK:	Result
	ug/g

	< 50.00

LABORATORY CONTROL SAMPLES:	True Value	Observed Value	Accuracy
	ug/g	ug/g	Recovery %
	-----	-----	-----
LCS1	1490.9	1693.4	113.6

QUALITY CONTROL QUALIFIER STATEMENT

The sample results used to generate quality control information for solid samples are uncorrected for dry weight. This does not affect the results reported for percent of spike recovery and relative percent difference.

PACE INC. NE-NH LAB
QUALITY CONTROL
Releasable Cyanide
Method: 7.3.3.2 SW846, 3rd Edition

QC Batch: 291 For: 44929
Matrix: SOLID

METHOD BLANK: Result
 ug/g

 < 1.00

LABORATORY CONTROL SAMPLES:	True Value ug/g	Observed Value ug/g	Accuracy
			Recovery %
LCS1	40.0	10.750	26.9

Precision Lab No.	Replicate 1 ug/g	Replicate 2 ug/g	Average ug/g	Relative Percent Difference
				%
0	< 1.00	< 1.00	NC	NC

QUALITY CONTROL QUALIFIER STATEMENT
The sample results used to generate quality control information for solid samples are uncorrected for dry weight. This does not affect the results reported for percent of spike recovery and relative percent difference.

NC = Not calculable due to result below detection limit.

QUALITY CONTROL
Flashpoint
Method: D93-80, ASTM

QC Batch: 317 For: 44929
Matrix: SOLID

LABORATORY CONTROL SAMPLES:

	True Value DEG F	Observed Value DEG F
LCS1	81.00	81.00

FIELD SAMPLE:

Precision Lab No.	Replicate 1 ug/g	Replicate 2 ug/g
44929-14	150.00	150.00

Metals Results for TCLP Blank 274

ELEMENT	BLANK RESULT	
Arsenic	< 0.20	mg/L
Barium	< 0.10	mg/L
Cadmium	< 0.005	mg/L
Chromium	< 0.01	mg/L
Lead	< 0.05	mg/L
Mercury	< 0.0003	mg/L
Selenium	< 0.20	mg/L
Silver	< 0.02	mg/L

All results are methods 3010 and 6010,
except mercury (method 7470).

PACE New England, Inc.

Metals QC Results for : 44929

QC BATCH: 12426

MATRIX: WATER

CONCENTRATION UNITS: UG/L

ELEMENT	LCS TRUE VALUE	LCS RESULT	LCS % RECOVERY	METHOD BLANK	
Arsenic	2000.00	2050.00	102.5	U	2.8
Barium	2000.00	2100.00	105.0	B	0.4
Cadmium	50.00	53.60	107.2	U	0.2
Chromium	200.00	199.00	99.5	U	0.5
Lead	500.00	515.00	103.0	B	1.7
Selenium	2000.00	1960.00	98.0	U	3.7
Silver	50.00	50.10	100.2	U	0.7
Zinc	500.00	525.00	105.0	B	8.9

B = Result between instrument detection limit and reporting limit.

U = Result below instrument detection limit.

N = LCS recovery not within advisory QC limits (80% - 120%)
with the exception of Silver QC limits (52% - 136%).

PACE New England, Inc.

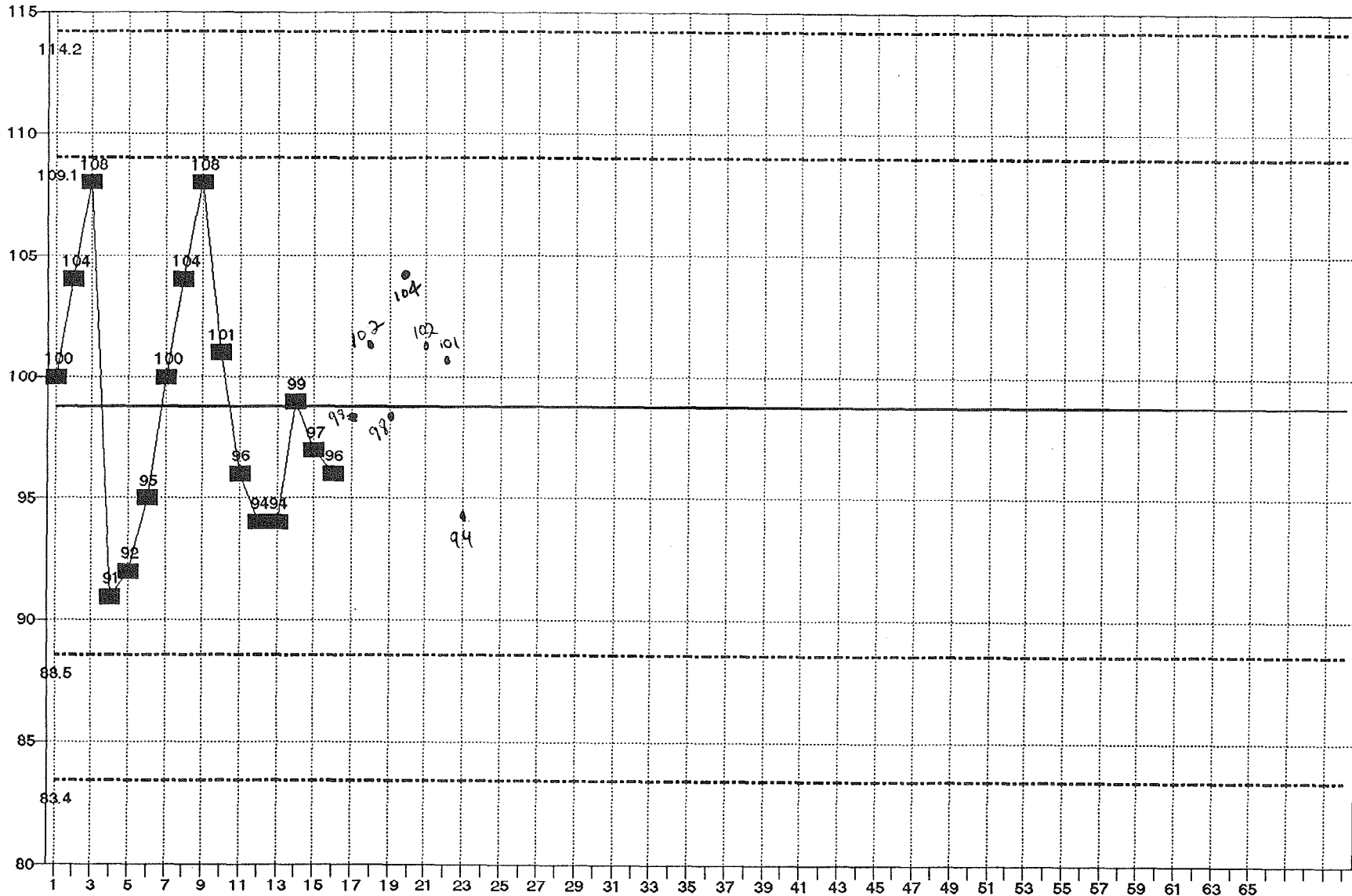
Metals QC Results for : 44929

QC BATCH: 6175
MATRIX: WATER
CONCENTRATION UNITS: UG/L

ELEMENT	LCS TRUE VALUE	LCS RESULT	LCS % RECOVERY	METHOD BLANK
Mercury	8.00	8.00	100.0	U 0.10

B = Result between instrument detection limit and reporting limit.
U = Result below instrument detection limit.
N = LCS recovery not within advisory QC limits (80% - 120%)
with the exception of Silver QC limits (52% - 136%).

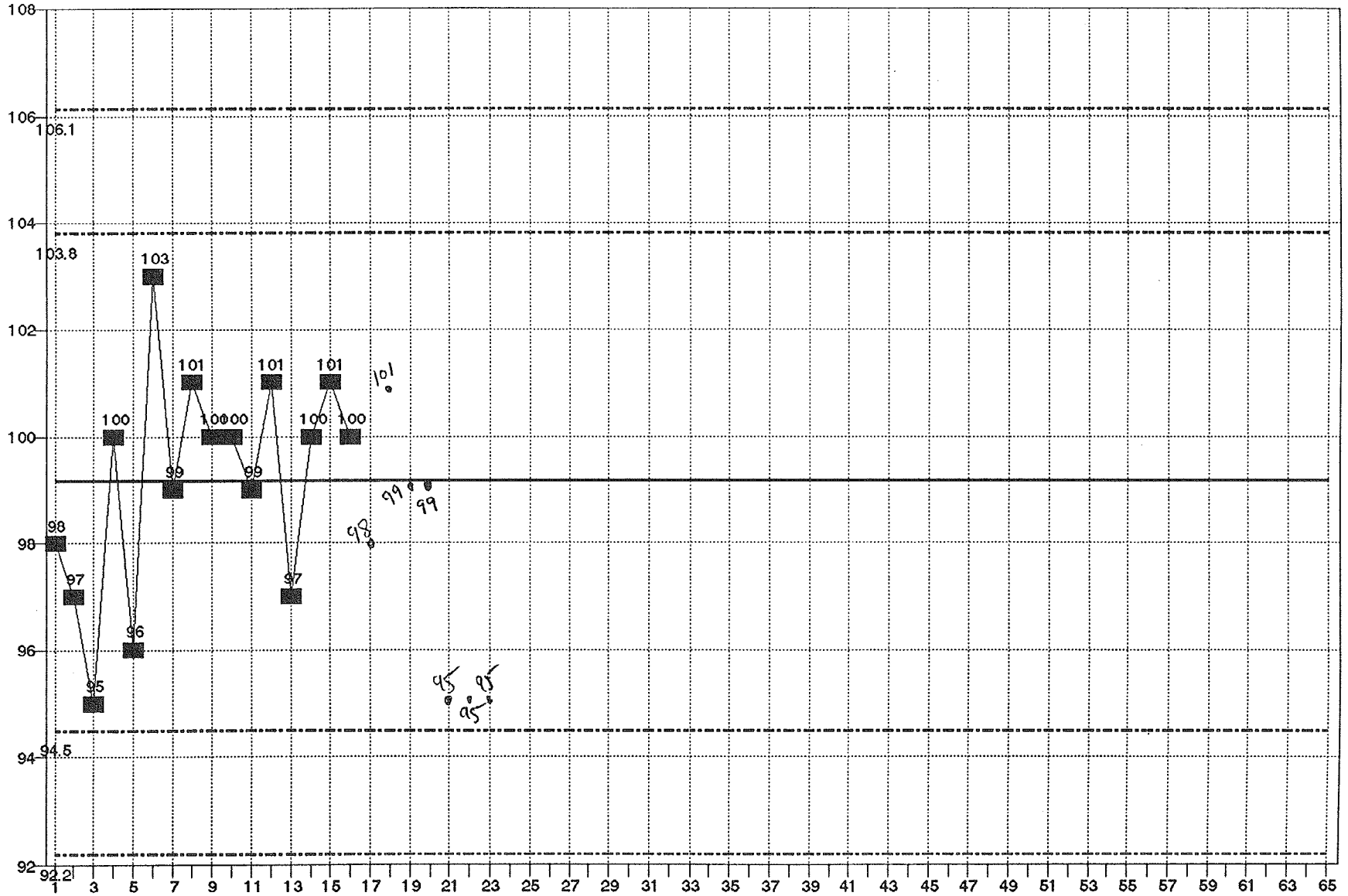
VOA TCLP - SURR DCE LIMIT SET 7/93



STD DEV = 5.13 MEAN = 98.8

00000029

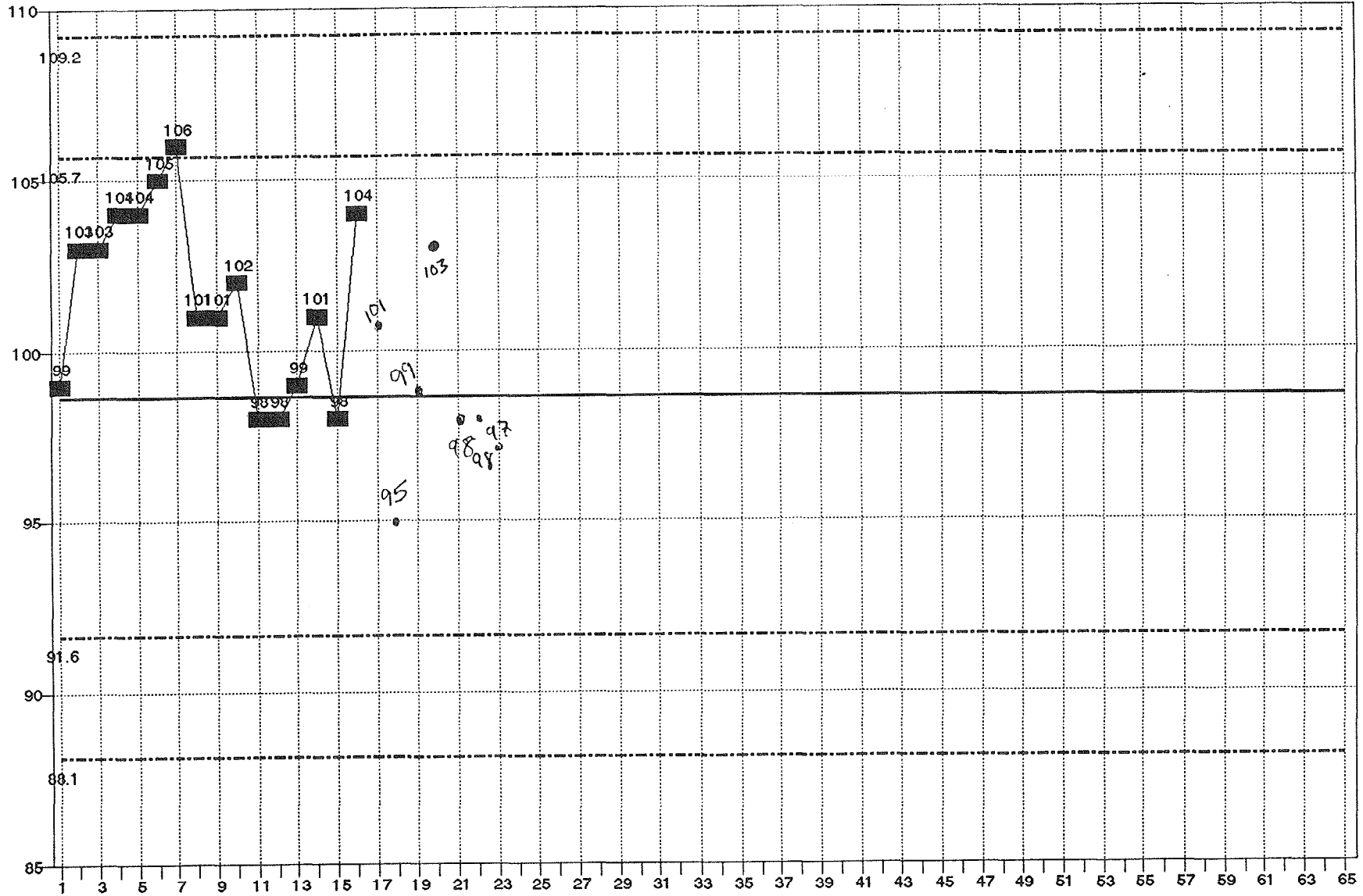
VOA TCLP - SURR TOL LIMIT SET 7/93



STD DEV = 2.32 MEAN = 99.1

00000030

VOA TCLP - SURR BFB LIMIT SET 7/93

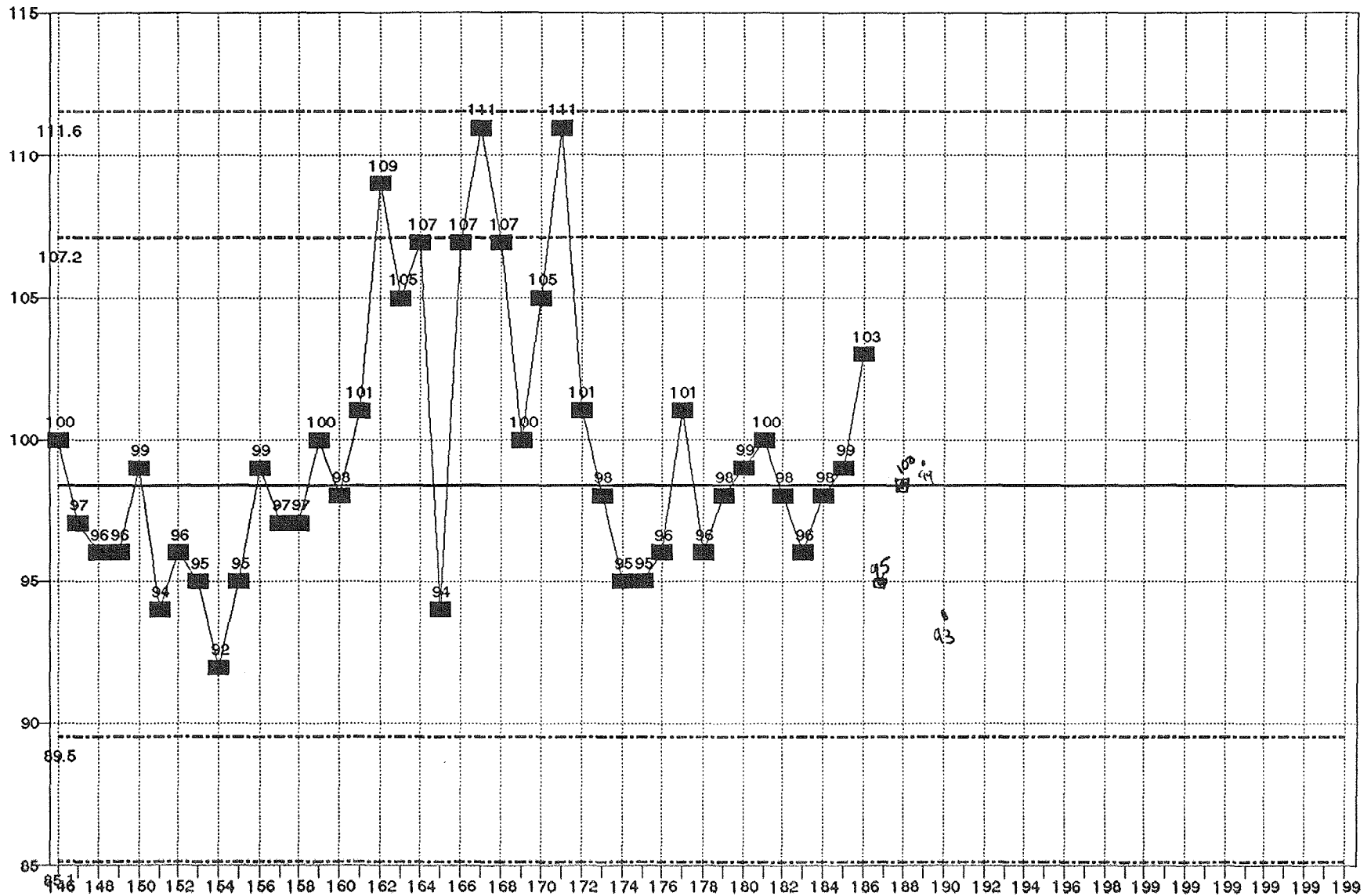


STD DEV = 3.51 MEAN = 98.6

0000031

1	TCLP BLANK	340	03/16/94
2	TCLP BLANK	340	03/17/94
3	TCLP BLANK	341	03/17/94
4	TCLP BLANK	341	03/18/94
5	TCLP BLANK	342	03/18/94
6	TCLP BLANK	341	03/22/94
7	TCLP BLANK	343	03/25/94
8	TCLP BLANK	343	03/28/94
9	TCLP BLANK	344	03/28/94
10	TCLP BLANK	345	03/28/94
11	TCLP BLANK	346	04/07/94
12	TCLP BLANK	347	04/19/94
13	TCLP BLANK	349	05/11/94
14	TCLP BLANK	350	05/16/94
15	TCLP BLANK	352	05/17/94
16	TCLP BLANK	354	06/06/94
17	TCLP BLANK	357	7/12/94
18	TCLP BLANK	358	7/15/94
19	TCLP BLANK	360	7/27/94
20	TCLP BLANK	369	11/10/94
21	TCLP BLANK	386	
22	TCLP BLANK	388	
23	TCLP BLANK	389	

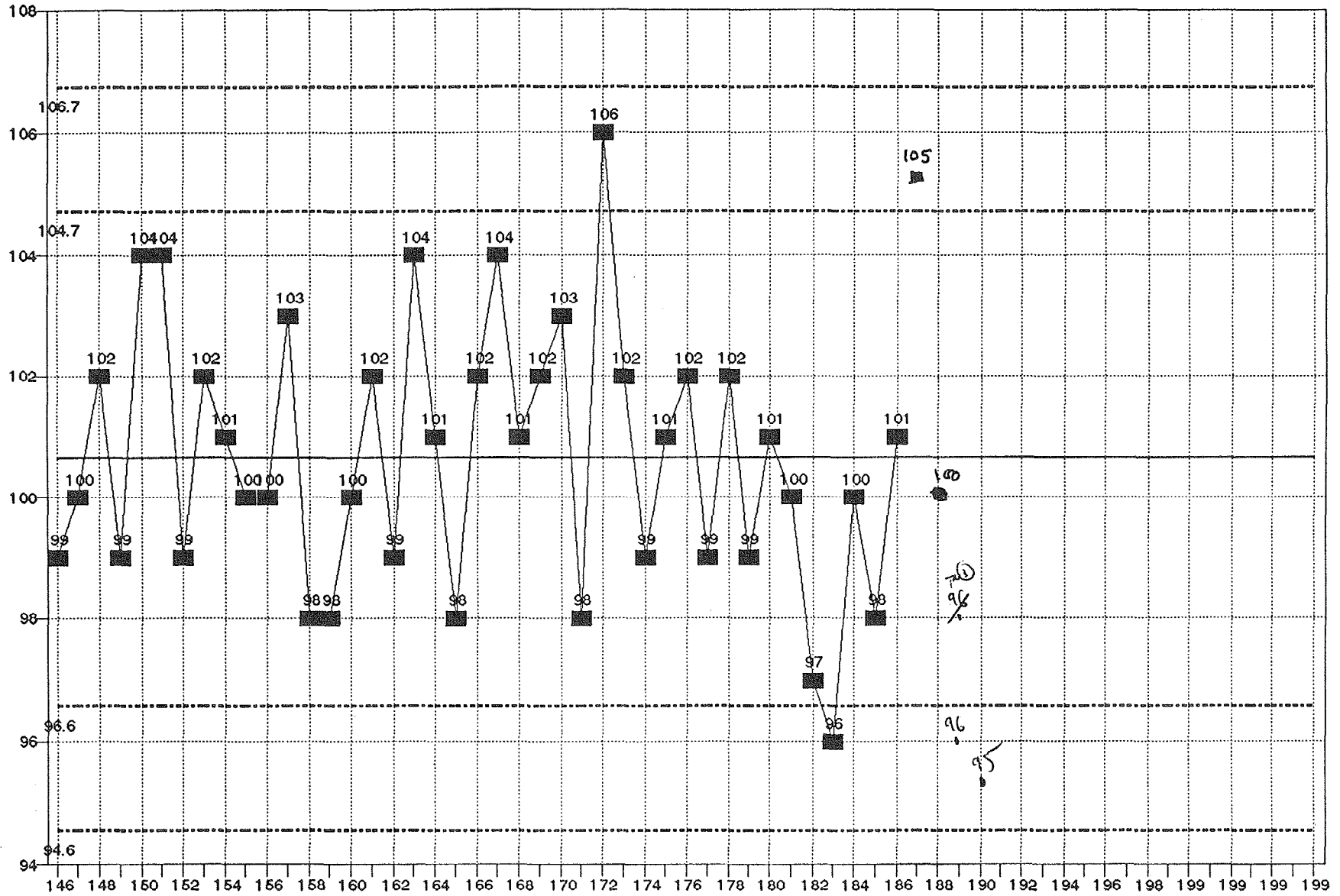
VOA WATERS - SURR DCE LIMITS SET 4/95



STD DEV = 4.40 MEAN = 98.4

VOA WATERS - SURR TOL LIMIT SET 4/95

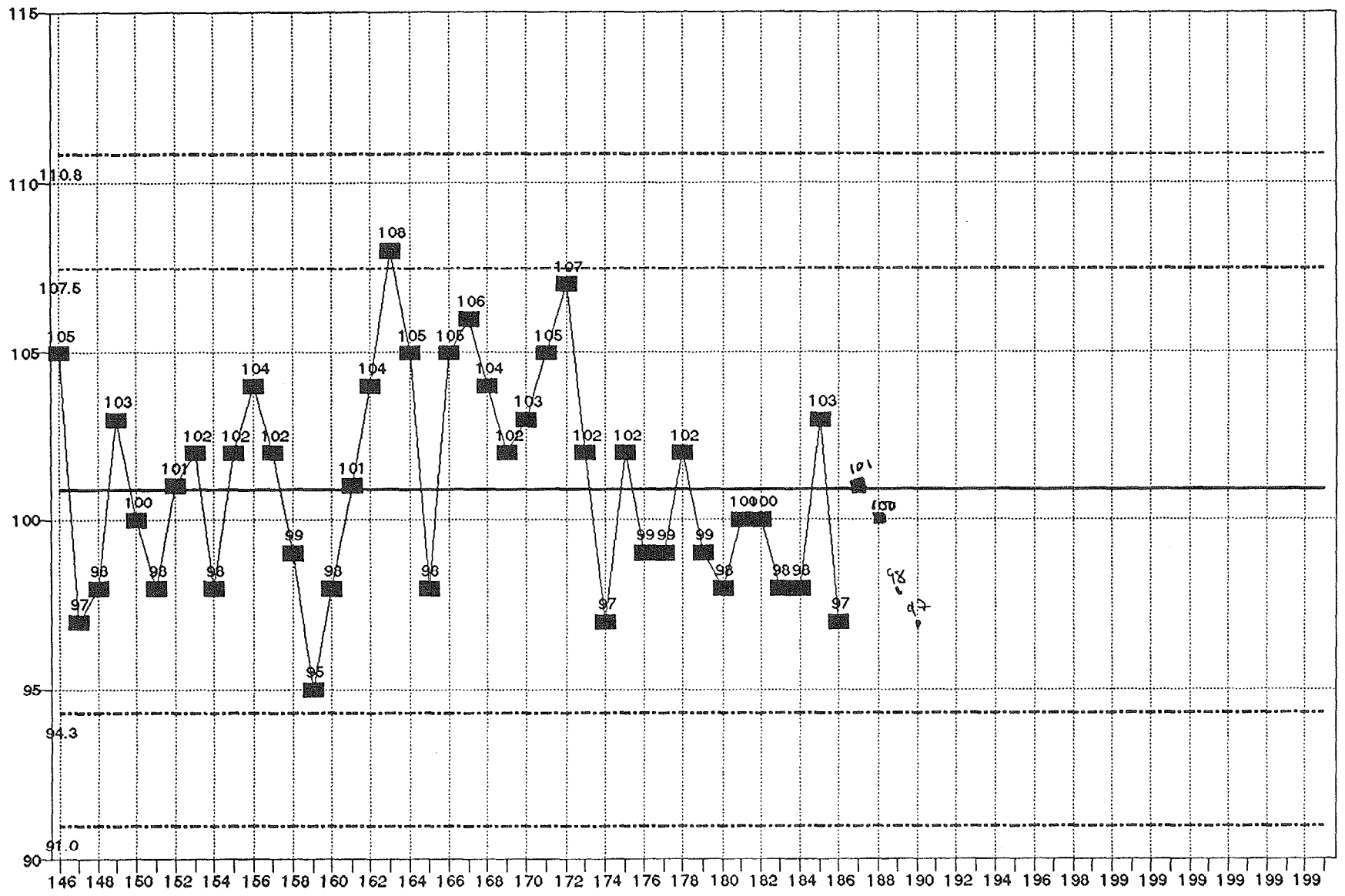
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STD DEV = 2.03 MEAN = 100.6

VOA WATERS - SURR BFB LIMIT SET 4/95

0000035

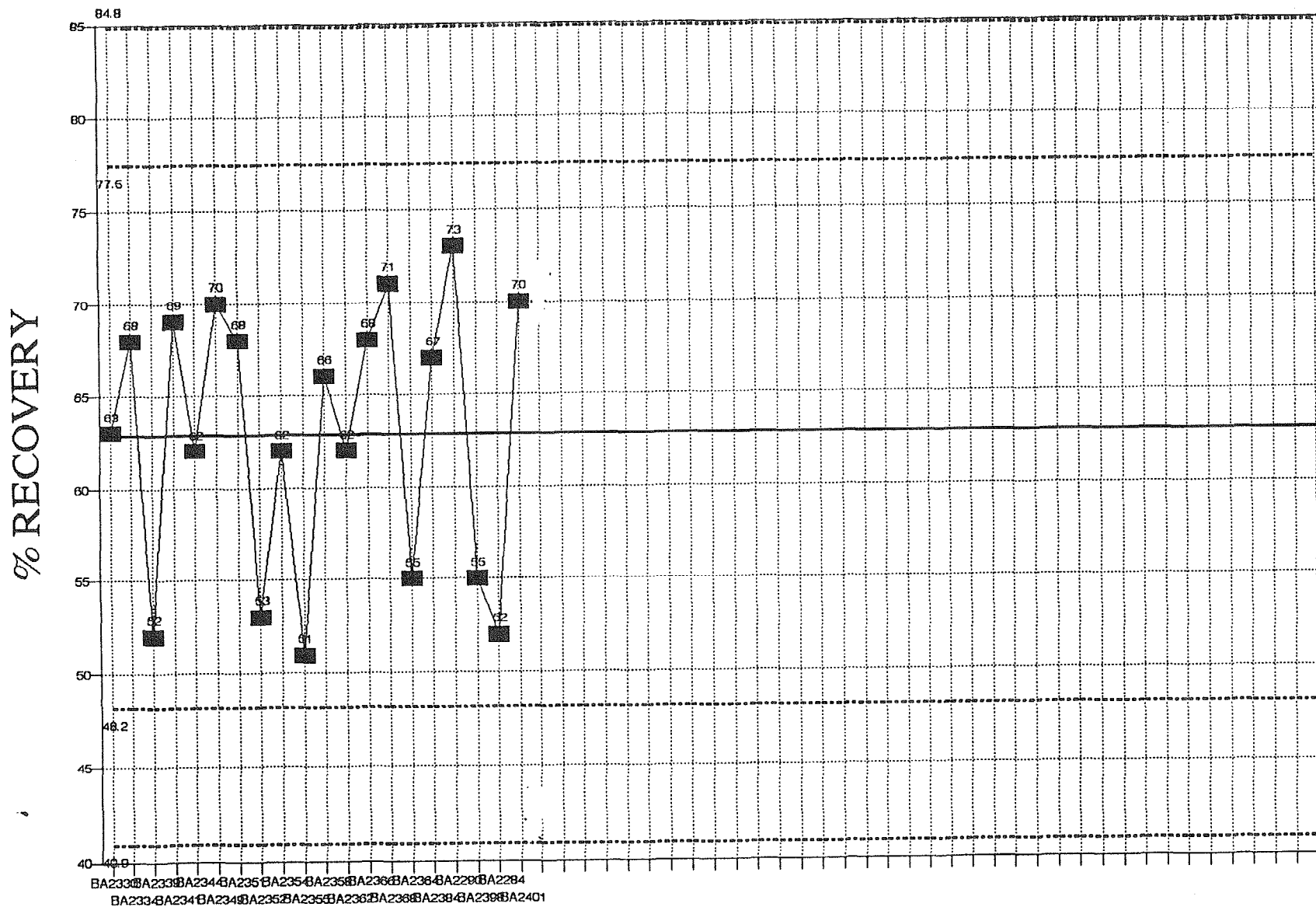


STD DEV = 3.31 MEAN = 100.9

VOLATILES -- WATER SURROGATE CONTROL CHARTS
 POINT / BLANK

21	BE081892A	69	BC041493A	117	BE070794A	165	BC041295A
22	BC082192A	70	BE052593B	118	BE070894A	166	BI042095B
23	BE082092A	71	BE060193A	119	BC063094A	167	BI042195A
24	BC082592A	72	BE060393A	120	BC072794A	168	BI042495A
25	BC082692A	73	BC062193A	121	BD072794A	169	BC042595B
26	BE082792A	74	BE051393A	122	BD072894A	170	BI042595A
27	BE082892B	75	BC062493A	123	BD072994A	171	BI042795A
28	BE083092A	76	BD051993A	124	BE081194A	172	BI050195A
29	BD101492A	77	BD052093B	125	BC081994A	173	BC050595A
30	BC100992A	78	BC063093A	126	BE101194A	174	BC050695A
31	BC110692A	79	BC061093A	127	BE101294B	175	BG050295B
32	BC111992A	80	BE051393A	128	BG101494A	176	BC062995B
33	BE112092A	81	BD072293A	129	BC110294B	177	BC063095B
34	BC112392A	82	BD072393A	130	BC110394B	178	BC072495A
35	BG113092B	83	BD072693A	131	BC110794B	179	BC072695A
36	BG120192A	84	BD072793A	132	BC110894B	180	BI080895A
37	BC122292A	85	BD073093A	133	BC110994A	181	BI080995A
38	BG013093B	86	BC080493A	134	BC111594B	182	BC080295A
39	BC012193A	87	BC080593A	135	BC111794B	183	BC080495A
40	BD021693A	88	BE091793A	136	BC111894B	184	BC080795A
41	BD021793A	89	BC092093B	137	BG111094A	185	BC080895A
42	BD021893A	90	BC093093B	138	BC120194B	186	BI081095A
43	BD021993A	91	BG093093A	139	BC120294B	187	BI081195A
44	BD022293A	92	BE120693A	140	BC120594B	188	BI080995A
45	BD022393A	93	BE120793A	141	BC120694B	189	BC081195A
46	BD022493A	94	BE121793A	142	BC120794B	190	BC081495A
47	BG030293A	95	BC122793B	143	BC121594B	191	
48	BC030193B	96	BC122893A	144	BG120394B	192	
49	BG030393A	97	BG021094A	145	BC122294B	193	
50	BG030493A	98	BG021194A	146	BC122994B	194	
51	BG031593A	99	BG021494A	147	BE121694A	195	
52	BG031693A	100	BG021594A	148	BE020995B	196	
53	BD031893A	101	BC022394B	149	BE021395A	197	
54	BD031993A	102	BC022494C	150	BE021595A	198	
55	BC032293B	103	BC022594B	151	BE021695A	199	
56	BC032393A	104	BG022594B	152	BC032295A	200	
57	BC041293A	105	BG022894A	153	BC032395A	201	
58	BC041393A	106	BG030394A	154	BC032495A	202	
59	BC041993A	107	BD022194A	155	BC032795A	203	
60	BE042893A	108	BC031194A	156	BC040695A	204	
61	BE042993A	109	BC031594B	157	BC041195B	205	
62	BE043093A	110	BG040794A	158	BC041395A	206	
63	BE050393A	111	BC041294B	159	BC041495A	207	
64	BE050493A	112	BG042894A	160	BG041095B	208	
65	BE050593A	113	BG042994A	161	BG041495B	209	
66	BE050693A	114	BC050994C	162	BI041395A	210	
67	BE051093A	115	BG060394A	163	BI041895B	211	
68	BE051193A	116	BC050394B	164	BI041995A	212	

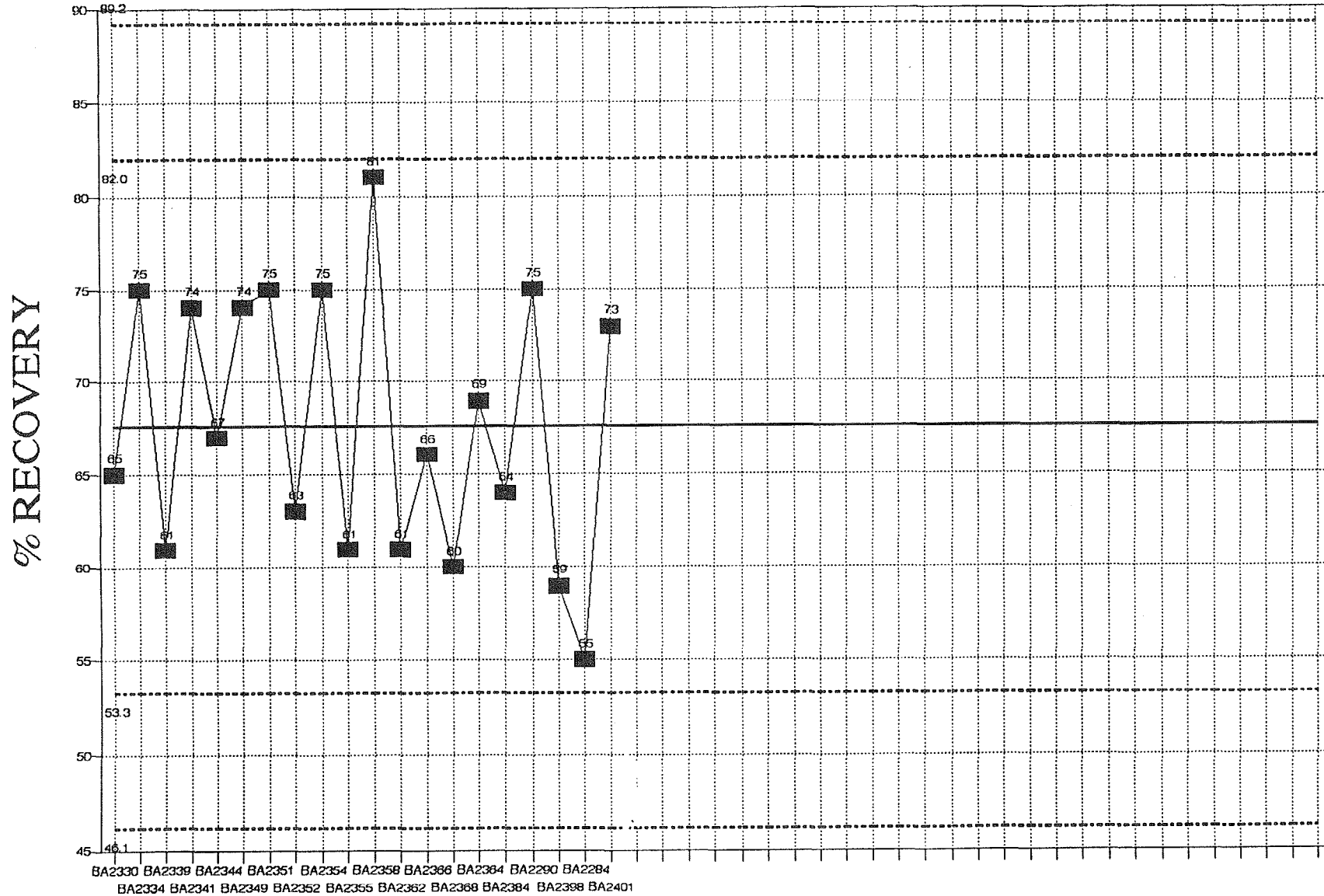
ABN WATER 3520/8270B, 2-FLUOROPHENOL SURR, LIMITS SET 8/95



STD DEV = 7.31 MEAN = 62.8

0000037

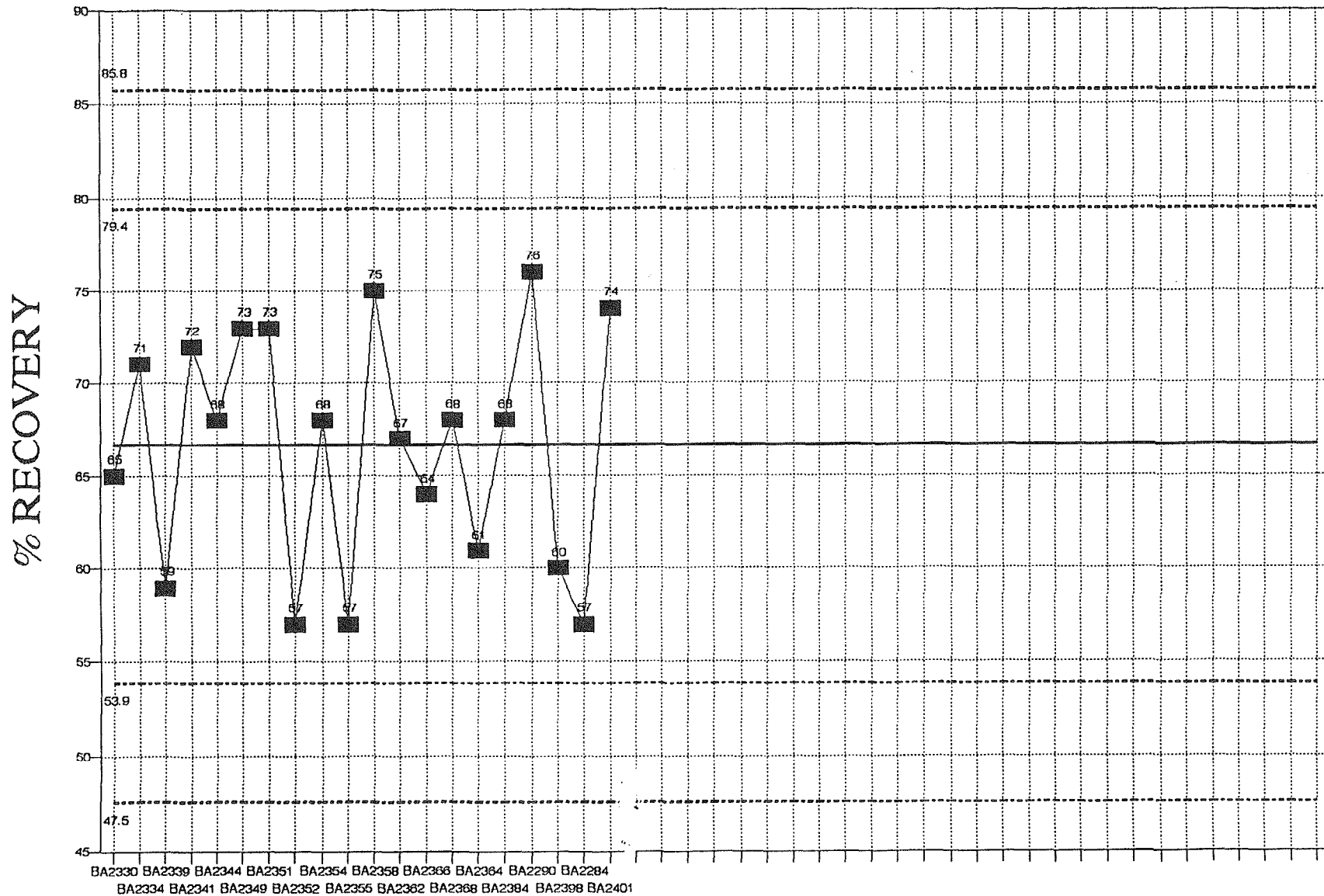
ABN WATER 3520/8270B, PHENOL-D5
 SURR, LIMITS SET 8/95



STD DEV = 7.17 MEAN = 67.6

00000000

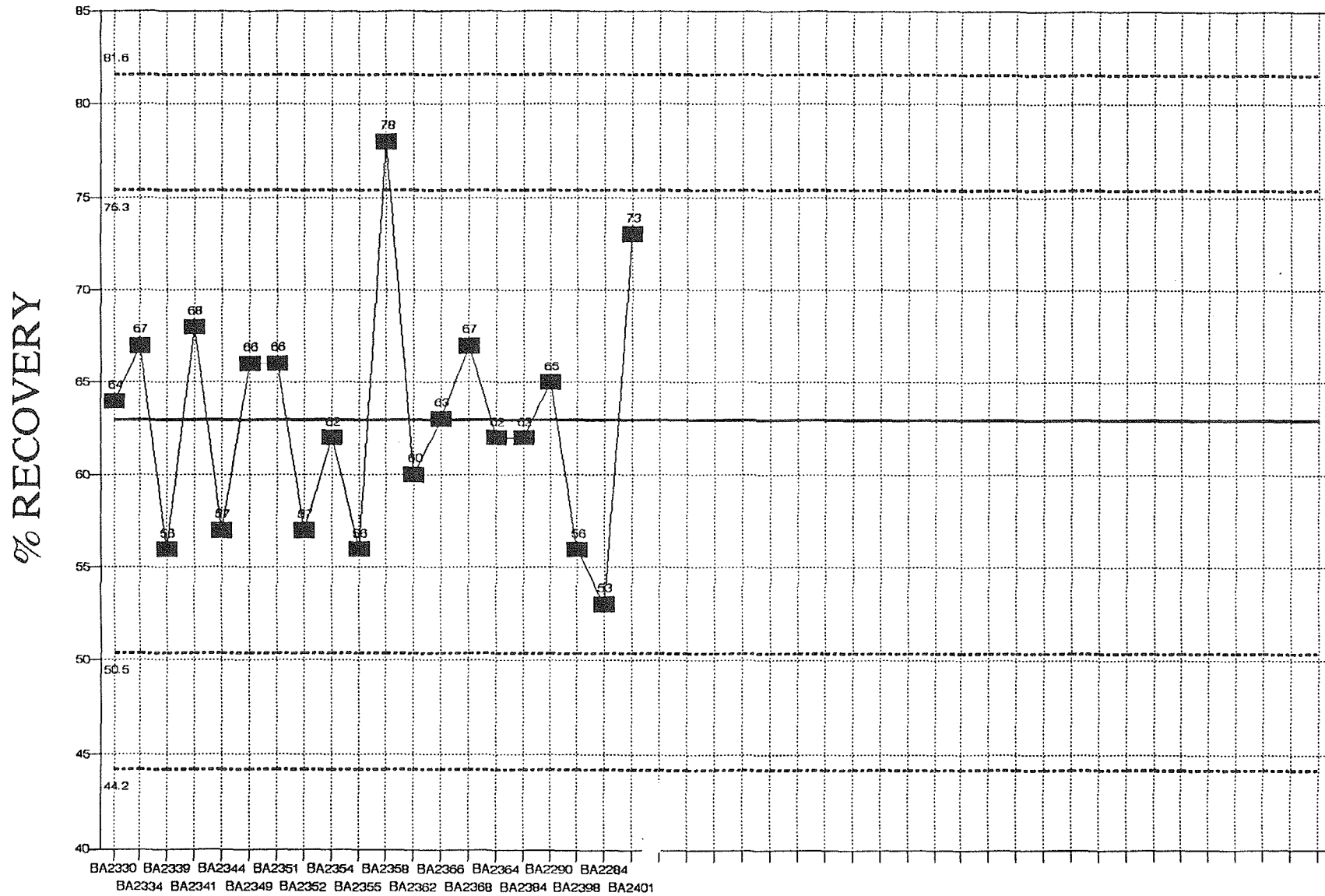
ABN WATER 3520/8270B, 2-CHLOROPHENOL-D4 SURR, LIMITS SET 8/95



STD DEV = 6.37 MEAN = 66.6

0000000

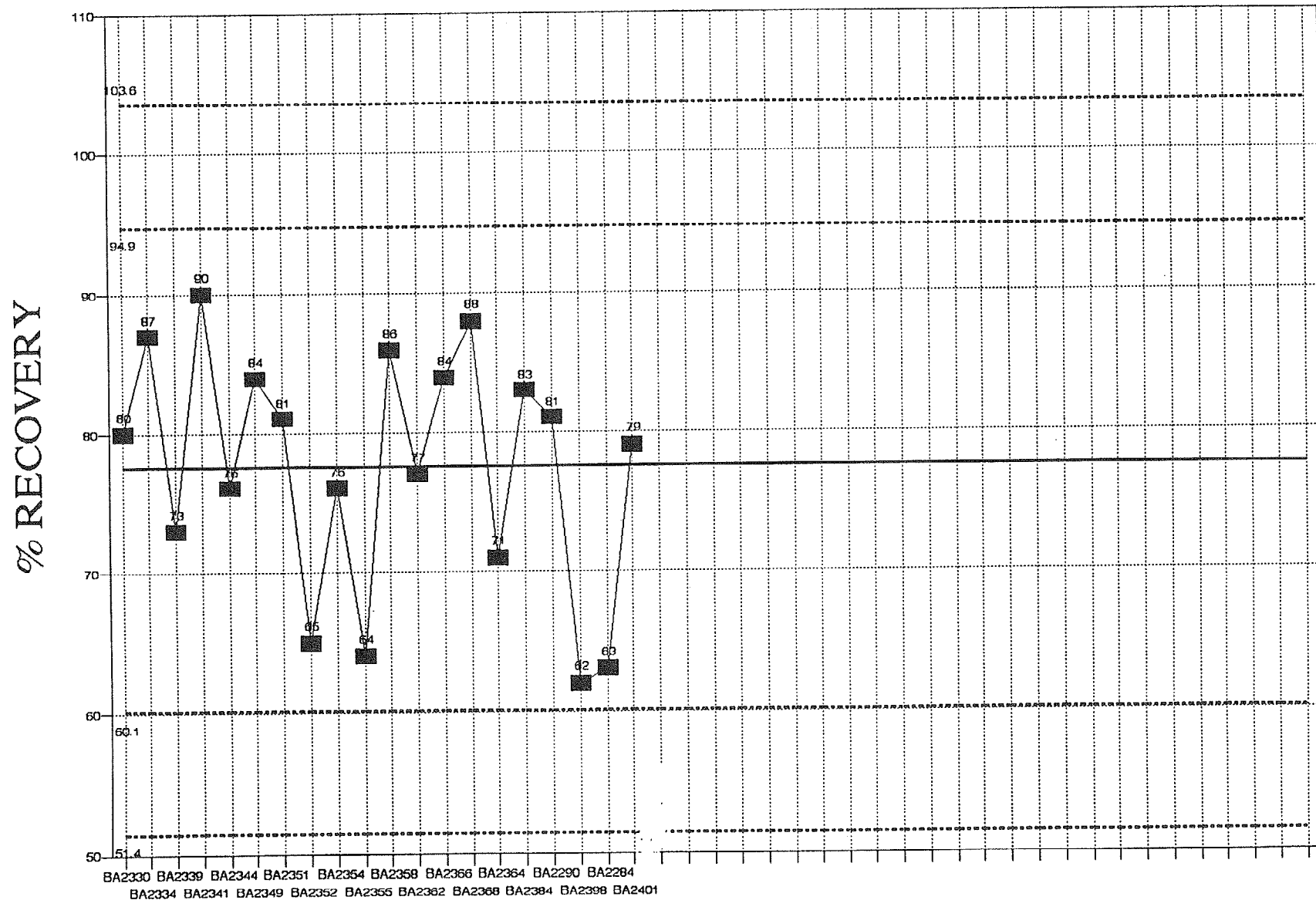
ABN H2O 3520/8270B, 1,2-DICHLOROBENZENE-
 SURR, LIMITS SET 8/95



STD DEV = 6.22 MEAN = 62.9

0000040

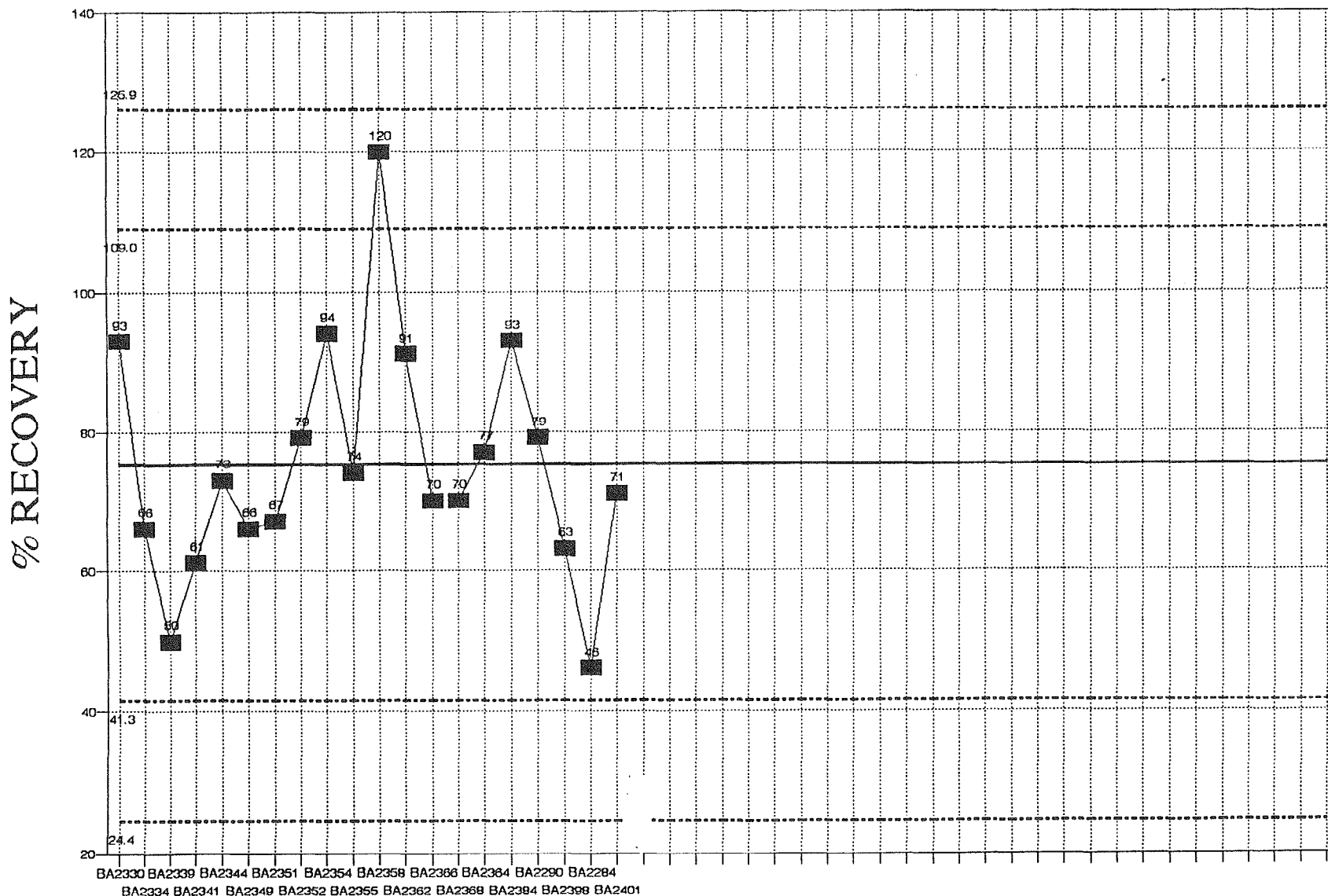
ABN H2O 3520/8270B, NITROBENZENE-D5
 SURR, LIMITS SET 8/95



STD DEV = 8.68 MEAN = 77.5

0000041

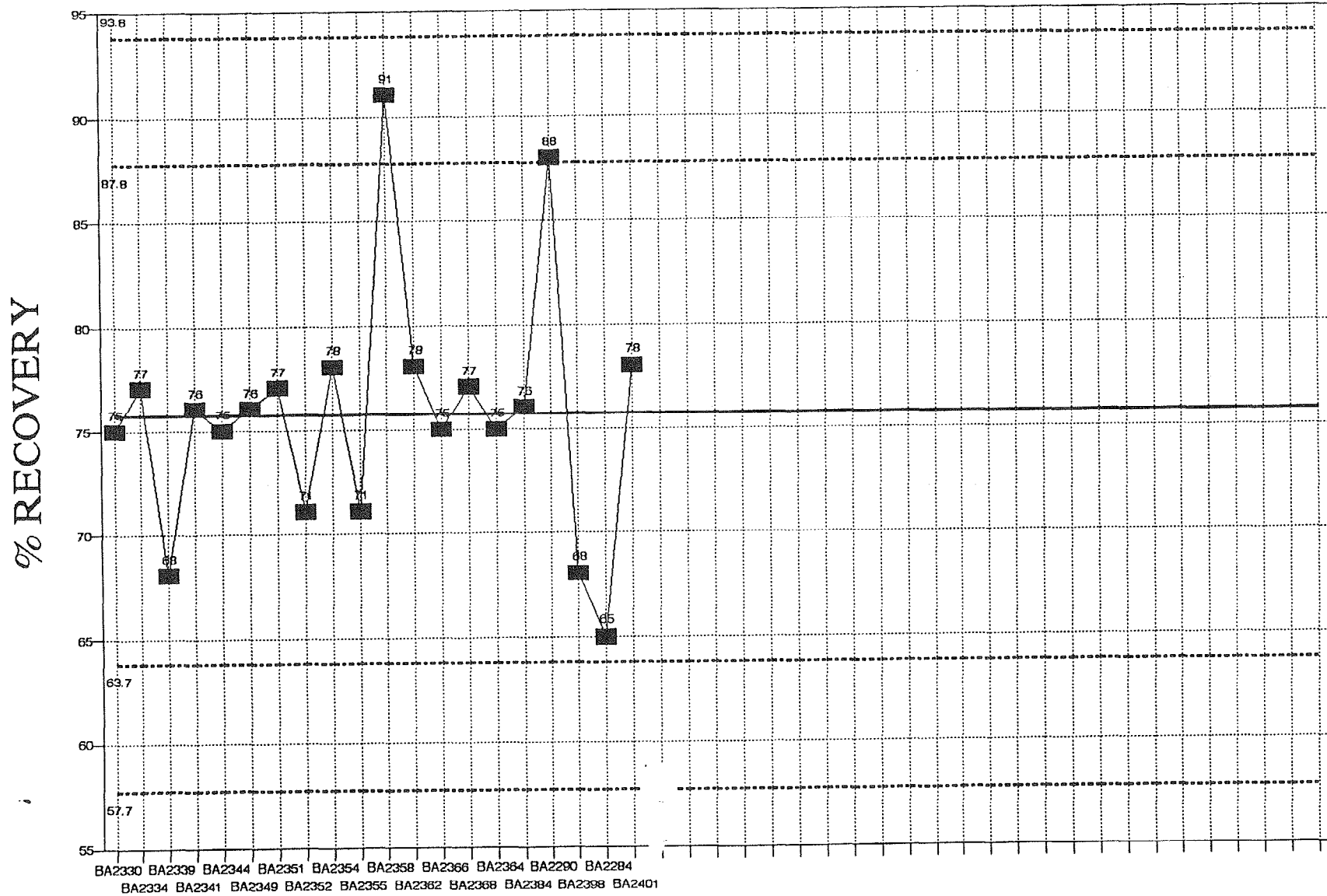
ABN H2O 3520/8270B,2,4,6-TRIBROMOPHENOL
 SURR, LIMITS SET 8/95



STD DEV = 16.9 MEAN = 75.2

0000042

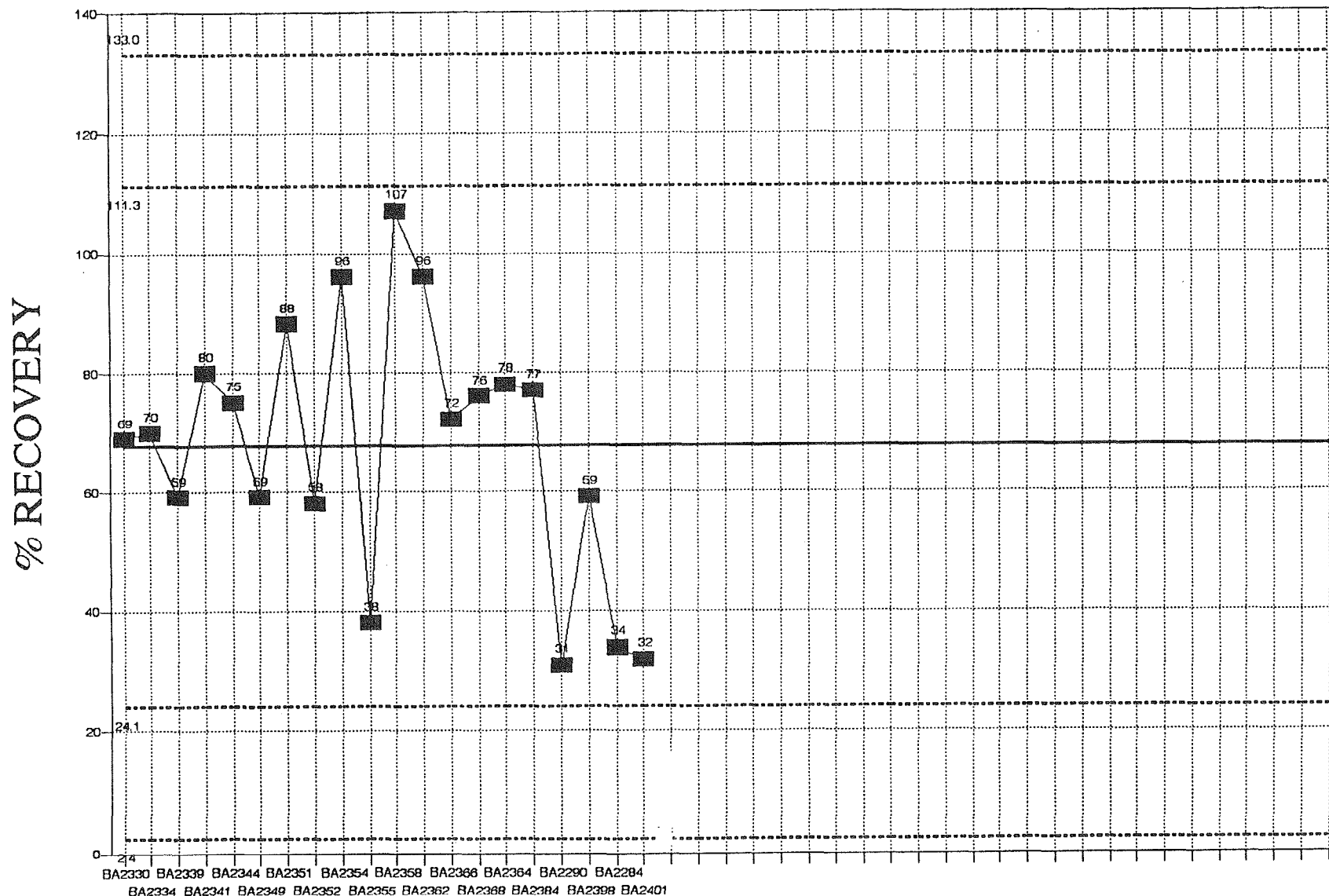
ABN H2O 3520/8270B, 2-FLUOROBIPHENYL
 SURR, LIMITS SET 8/95



STD DEV = 6.01 MEAN = 75.8

0000043

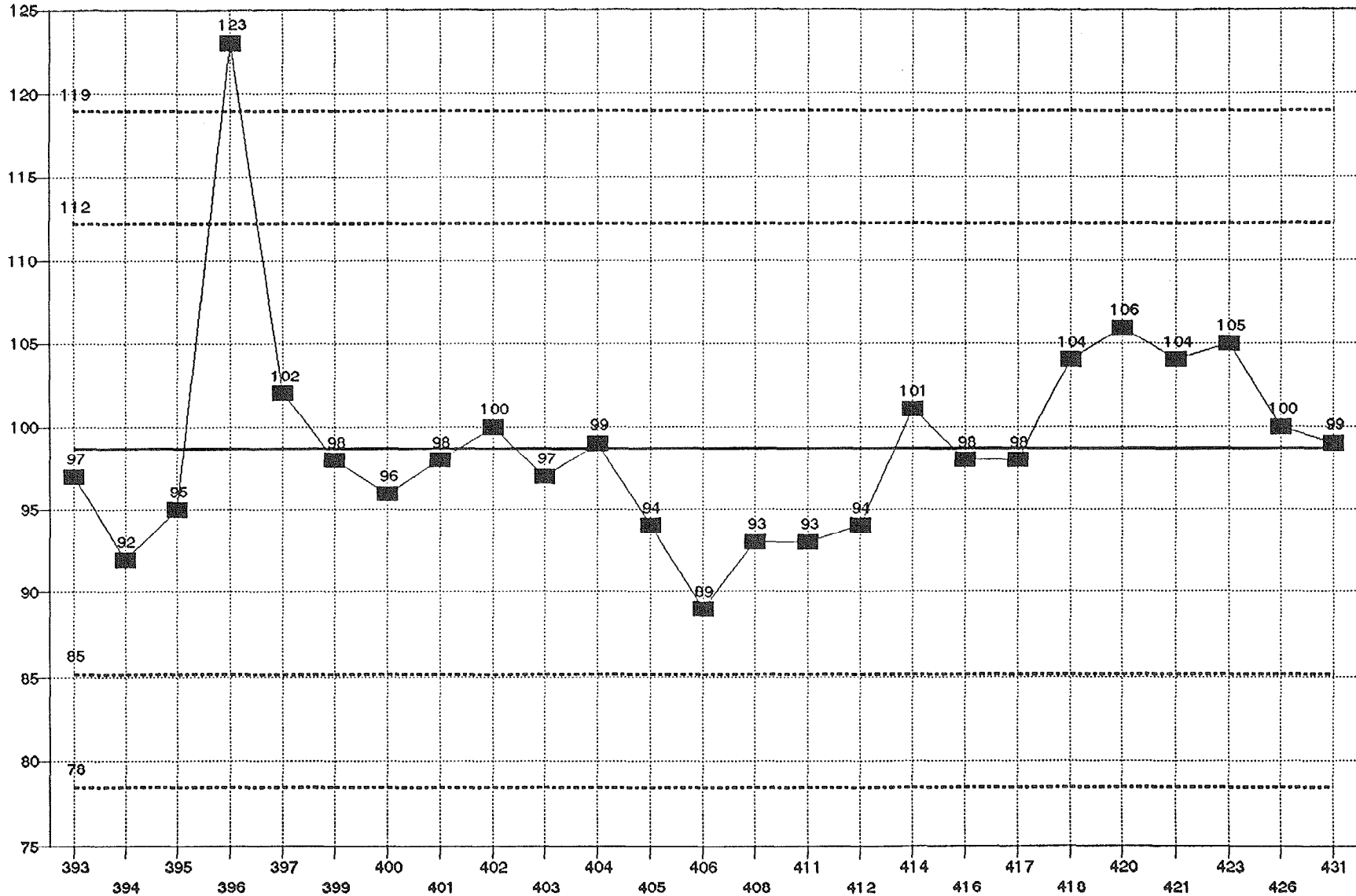
ABN H2O 3520/8270B, TERPHENYL-D14
 SURR, LIMITS SET 8/95



STD DEV = 21.8 MEAN = 67.7

0000044

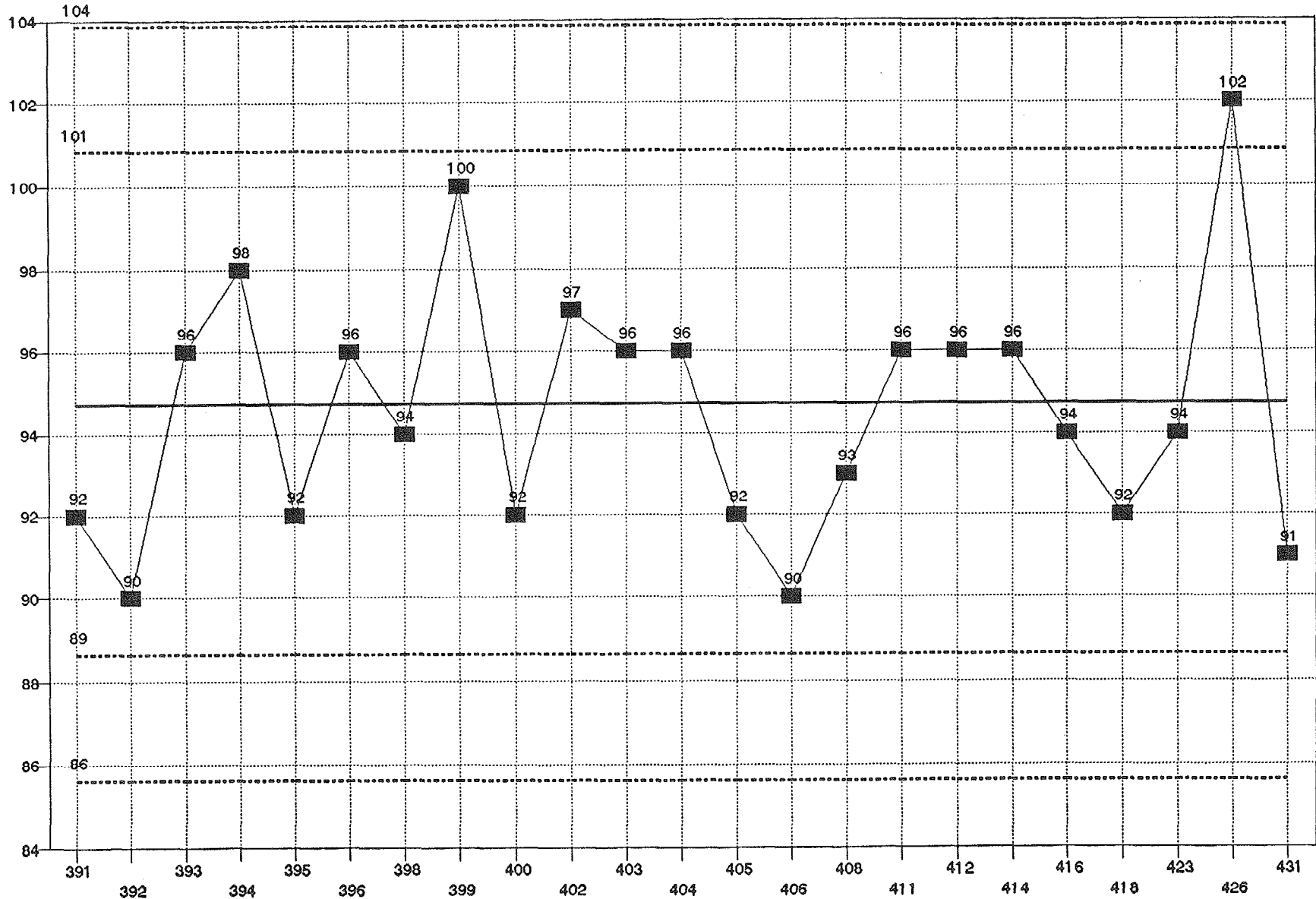
Ag COMMERCIAL LCS WATER RECOVERIES LIMITS SET 8/95



STD DEV = 6.75 MEAN = 98.6

0000045

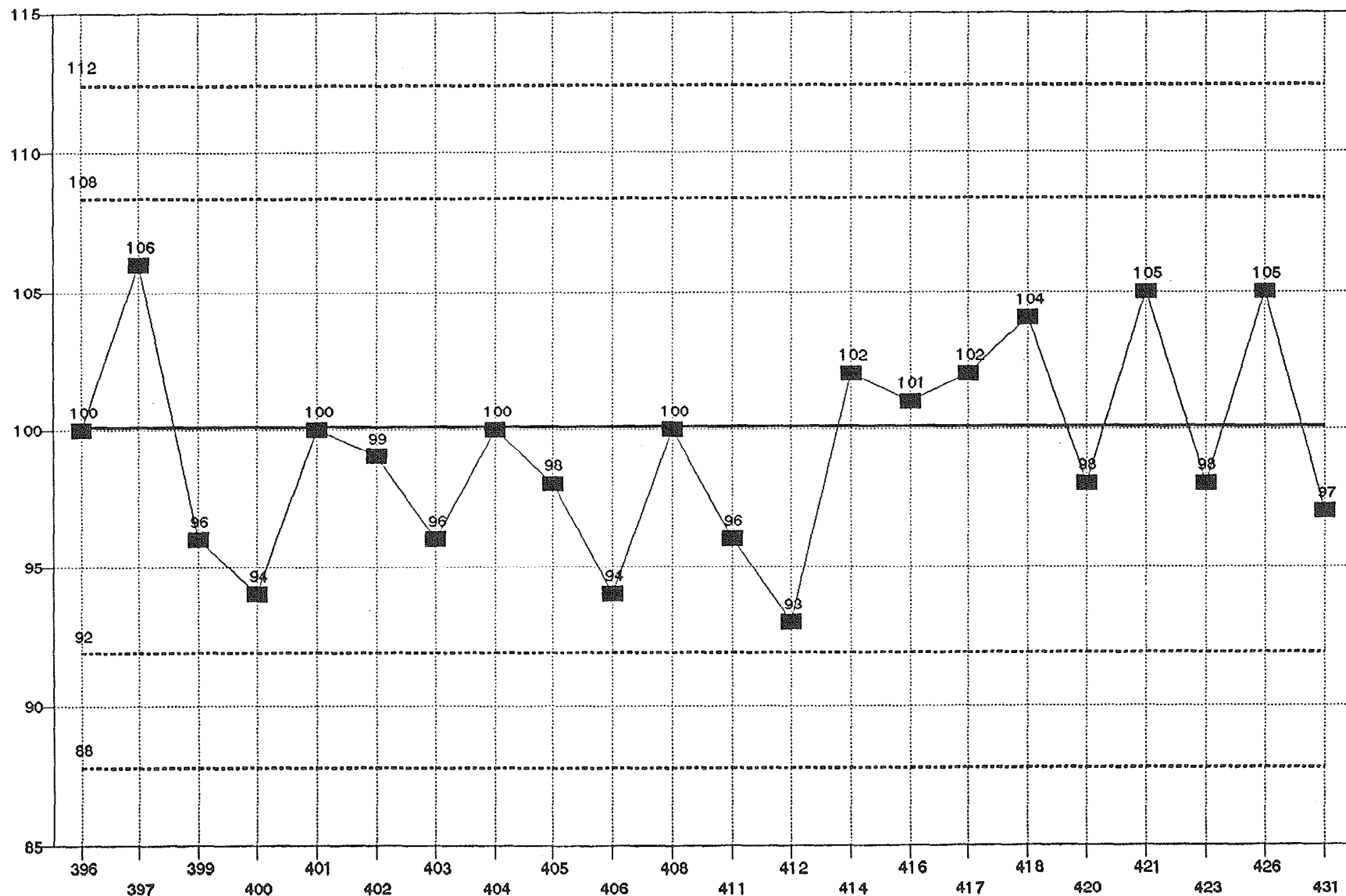
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STD DEV = 2.67 MEAN = 94.2

0000046

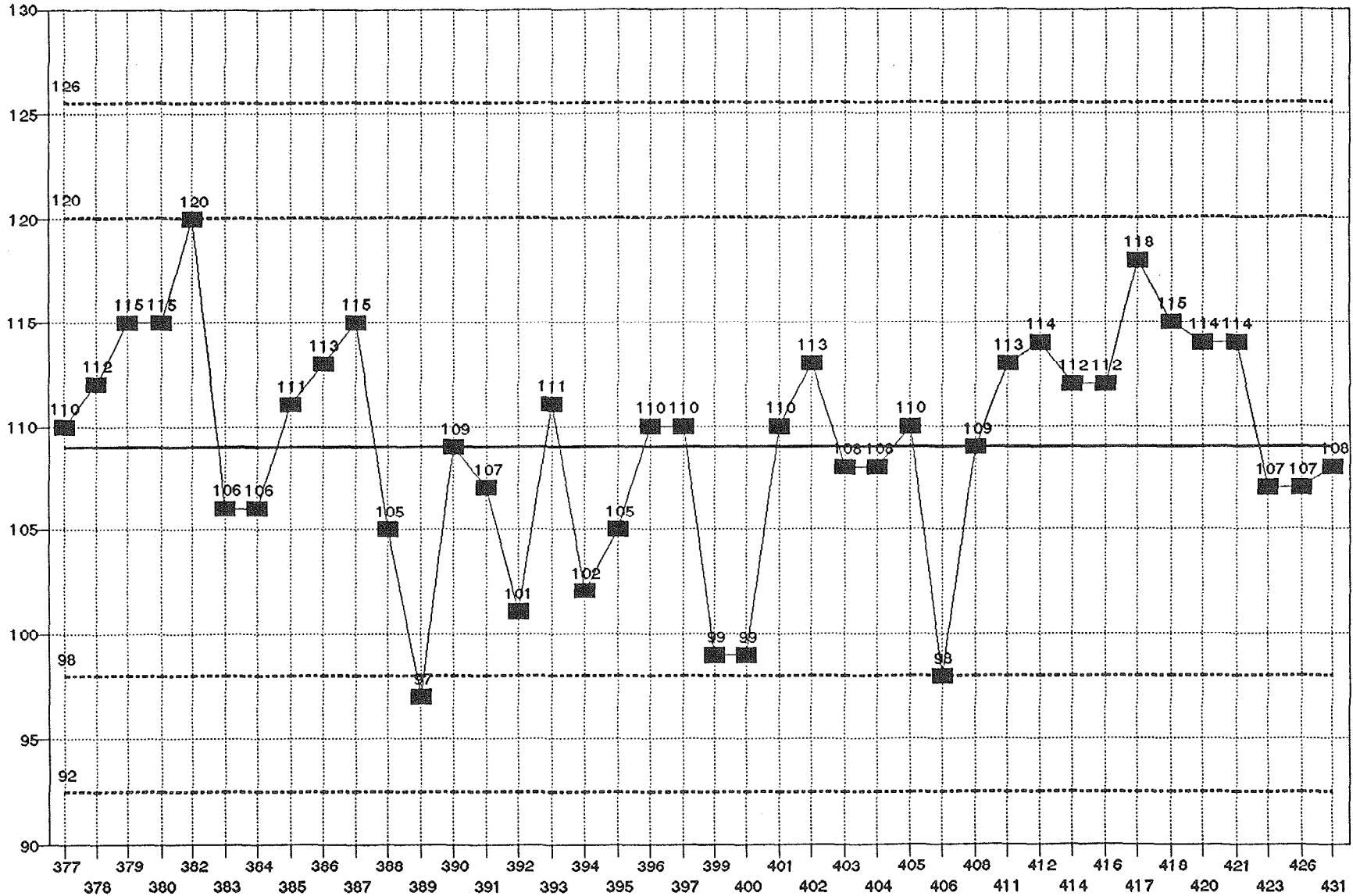
Ba COMMERCIAL LCS WATER RECOVERIES LIMITS SET 7/95



STD DEV = 4.10 MEAN = 100.1

0000047

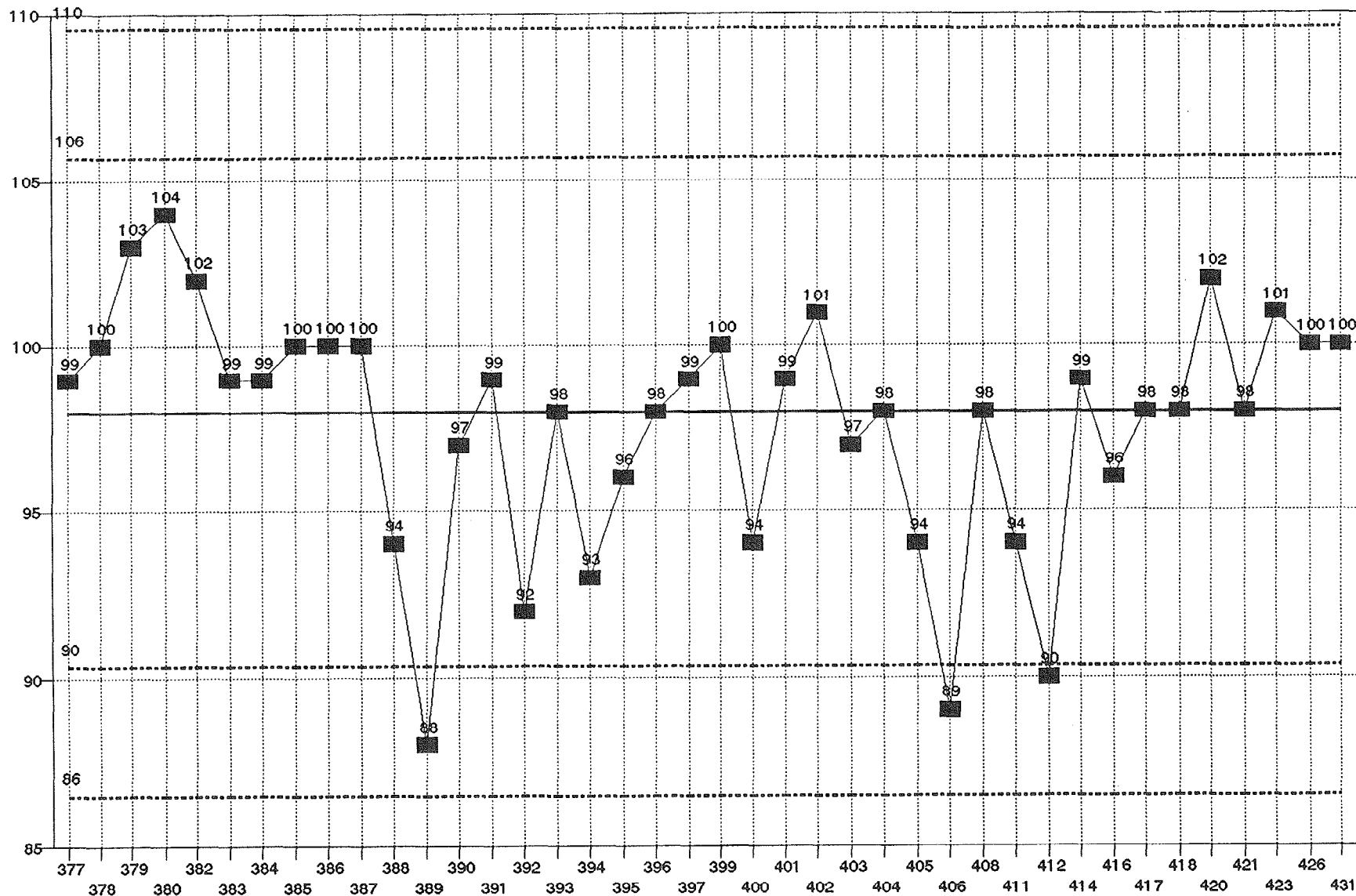
Cd COMMERCIAL LCS WATER RECOVERIES LIMITS SET 7/95



STD DEV = 5.51 MEAN = 109

0000048

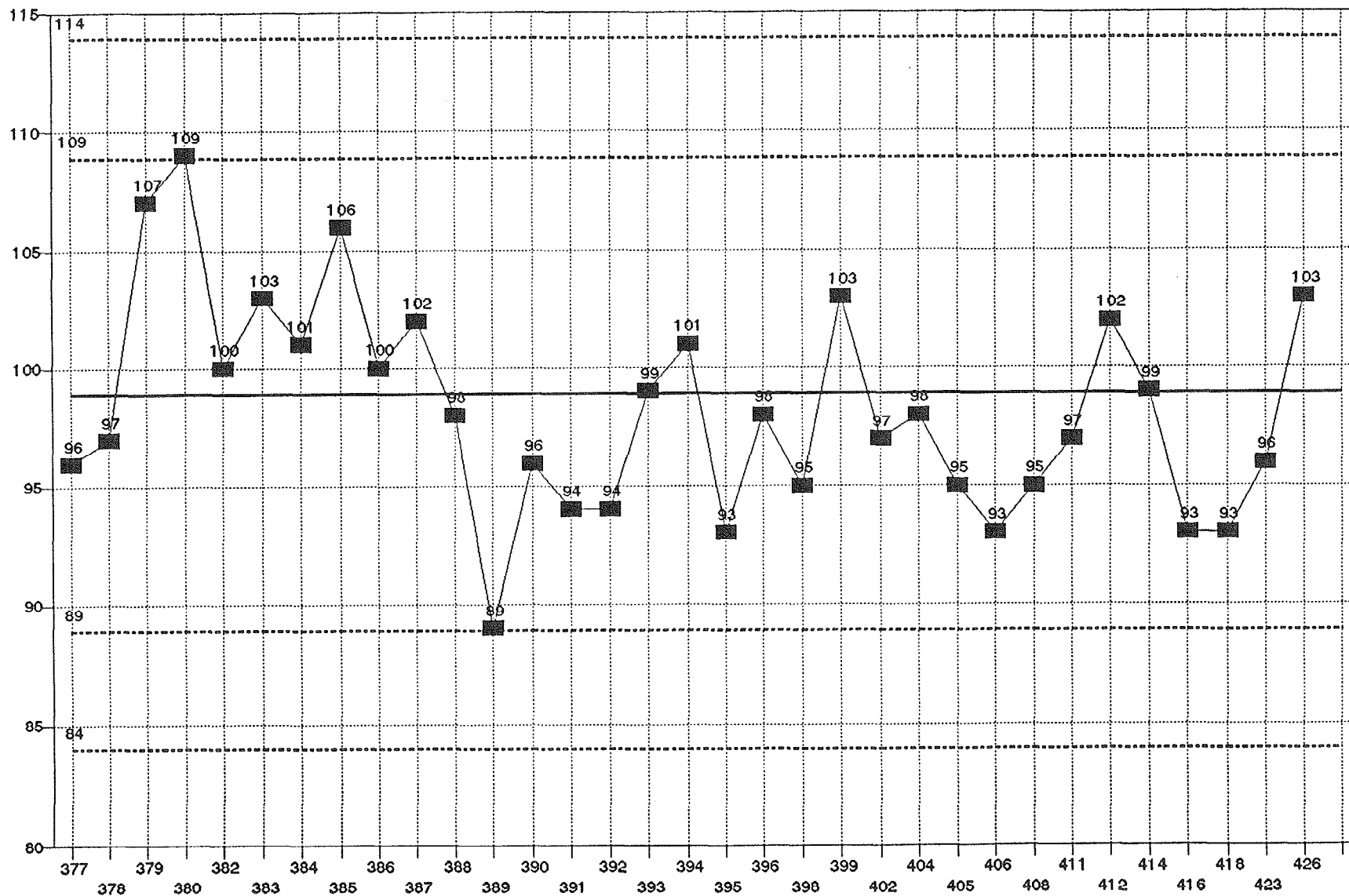
Cr COMMERCIAL LCS WATER RECOVERIES LIMITS SET 7/95



STD DEV = 3.84 MEAN = 98.0

0000049

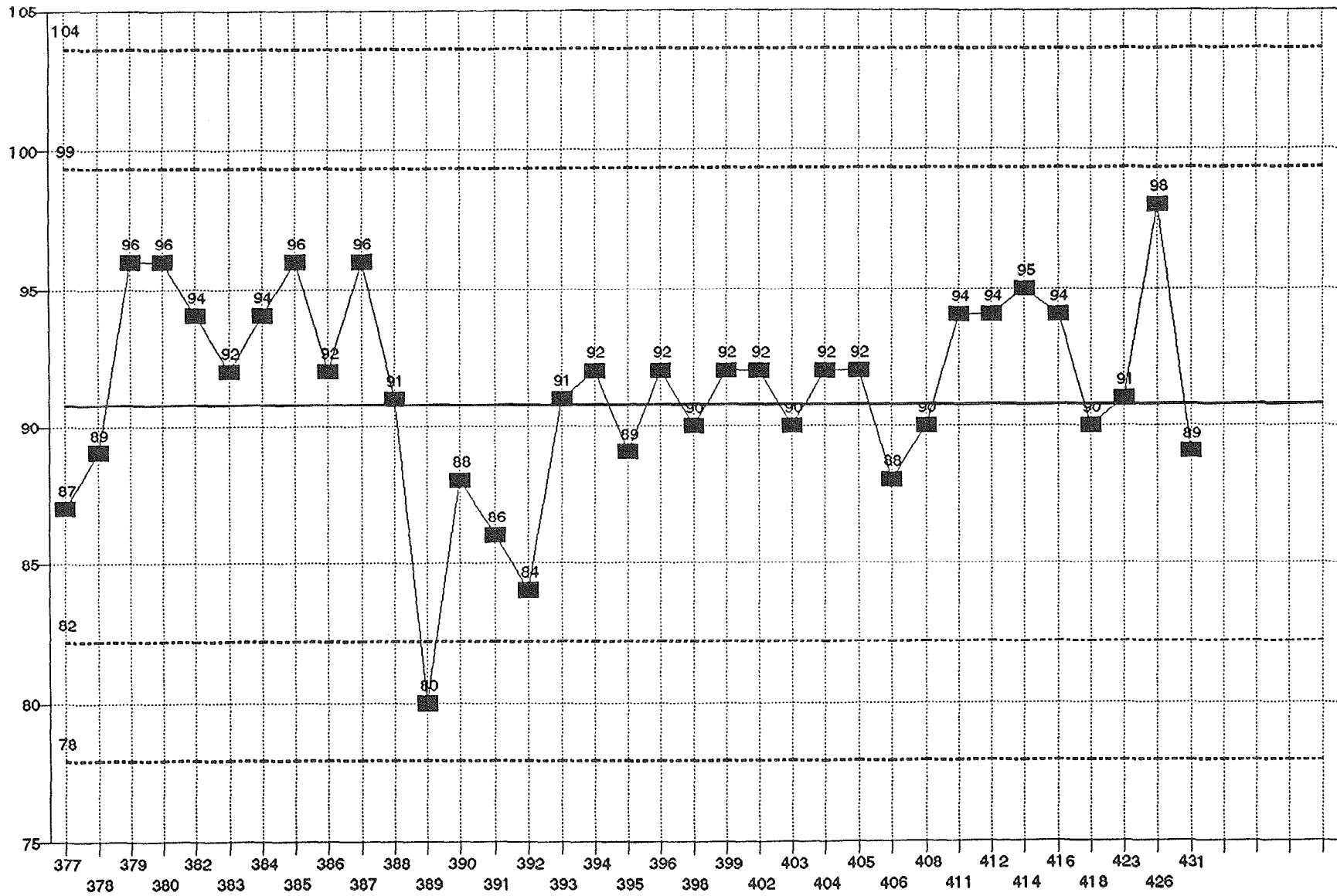
Pb TRACECOMMERCIAL LCS WATER RECOVERIES LIMITS SET 7/95



STD DEV = 4.99 MEAN = 98.9

00000050

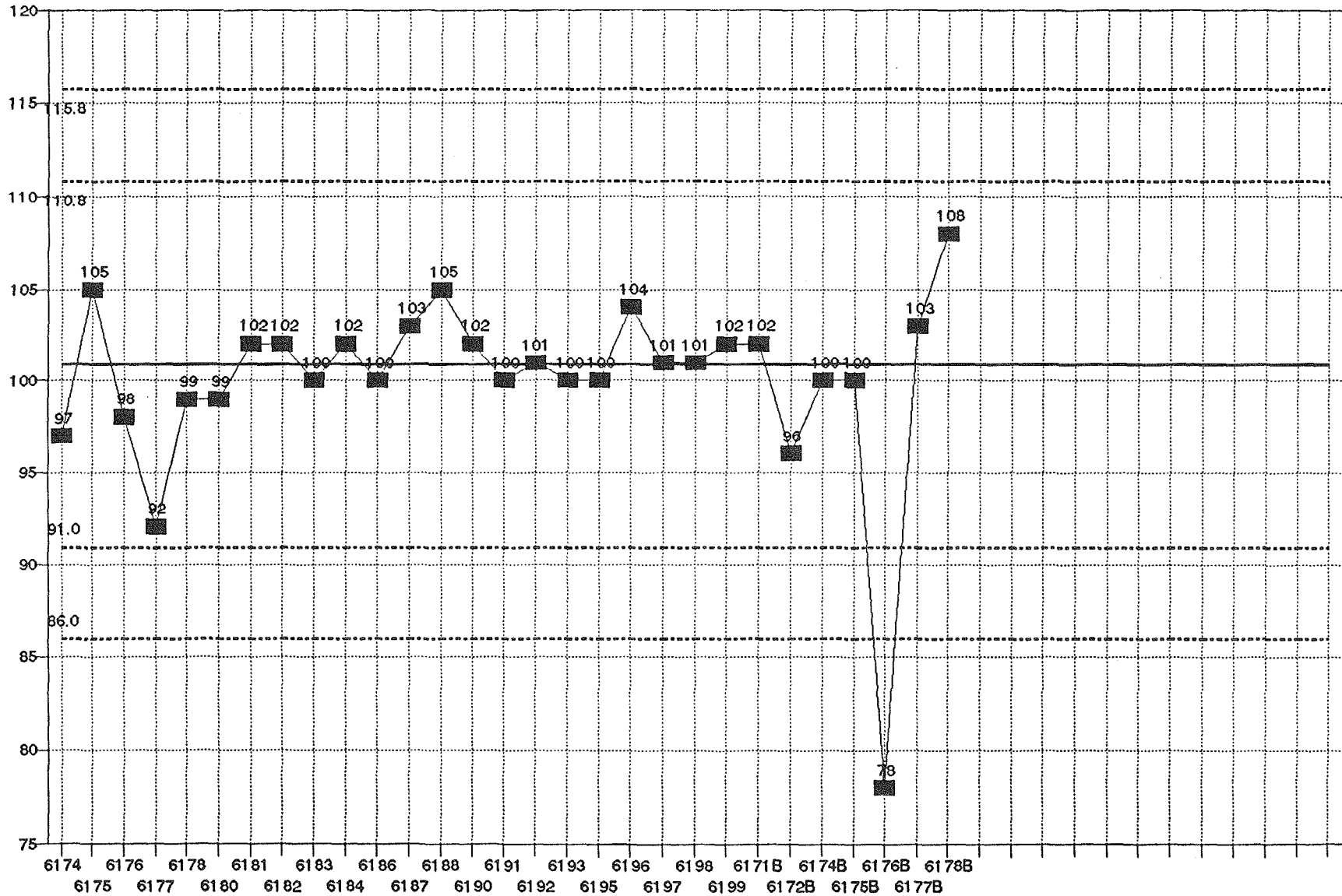
Se TRACECOMMERCIAL LCS WATER RECOVERIES LIMITS SET 7/95



STD DEV = 4.29 MEAN = 90.8

00000001

MERCURY CV LCS WATER RECOVERIES LIMITS SET 2/94



STD DEV = 4.96 MEAN = 100.9

0000052



CHAIN-OF-CUSTODY RECORD

TRANSFER 3

Form 0019
Field Technical Services
Rev. 08/89

166405

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME <i>Camp Lejeune, D.O. 44</i>		PROJECT LOCATION <i>Camp Green, NC.</i>	
IOJ. NO. <i>6487</i>	PROJECT CONTACT <i>Rakesh Mishra</i>	PROJECT TELEPHONE NO. <i>910-415-2319</i>	
CLIENT'S REPRESENTATIVE		PROJECT MANAGER/SUPERVISOR <i>Jim Dunn / Sandy Smith</i>	

ANALYSIS DESIRED
 (INDICATE SEPARATE CONTAINERS)
 TPH-GRO
 TPH-D.F.O
 TELP Me-1, 2, 3, 4
 KRCA Haz Waste Char.
 OFG
 PCB, Total Lead
 Volatile + BTEX (2410)

SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED	REMARKS
<i>C1744-CC-024</i>	<i>8/8</i>	<i>1102</i>	<i>X</i>		<i>Contaminated soil from Pile 17 of Area C.</i>	<i>4</i>	<i>X X</i>	<i>Do Not Analyze</i>
<i>C1744-CC-025</i>	<i>8/8</i>	<i>1113</i>	<i>X</i>		<i>Contaminated Soil from Pile 18 of Area C.</i>	<i>4</i>	<i>X X</i>	<i>Sample #16 (C1744-CC-028 -RB).</i>
<i>C1744-CC-026</i>	<i>8/8</i>	<i>1120</i>	<i>X</i>		<i>Contaminated soil from Pile 19 of Area C.</i>	<i>4</i>	<i>X X</i>	
<i>C1744-CC-027</i>	<i>8/8</i>	<i>1132</i>	<i>X</i>		<i>Contaminated Soil from Pile 20 of Area C.</i>	<i>4</i>	<i>X X X X X X</i>	<i>4</i>
<i>C1744-CC-027D</i>	<i>8/8</i>	<i>1132</i>	<i>X</i>		<i>Duplicate Contaminated Soil from Pile 20 of Area C.</i>	<i>4</i>	<i>X X X X X X X X</i>	<i>(IKE Job # 44929)</i>
<i>C1744-CC-028 -RB</i>	<i>8/8</i>	<i>1140</i>	<i>X</i>		<i>Rinse Blank of Contaminated Soil Pile 17-20 of Area C.</i>	<i>5</i>	<i>X X X X X</i>	
<i>C1744-CC-029 -TB</i>	<i>8/8</i>				<i>Trip Blank</i>	<i>3</i>	<i>X X</i>	<i>7</i>
Final								

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
<i>1</i>	<i>1-7</i>	<i>[Signature]</i>		<i>8/8</i>	<i>1500</i>	
<i>2</i>			<i>[Signature]</i>	<i>8/9/95</i>	<i>0955</i>	
<i>3</i>						
<i>4</i>						<i>[Signature]</i> SAMPLER'S SIGNATURE

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