State of New Mexico
ENVIRONMENT DEPARTMENT
DOE OVERSIGHT BUREAU
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FYI
Ralph

LANL TA: 21 and 35 (21-024(k), 21-024(m), 35-005(a), 35-006, 35-009(c)) Los Alamos, Pueblo, Ten Site Canyons Surface Water Gage Stations E030, E060, TED.

Gene Turner, DOE/AIP/POC
Department of Energy
Los Alamos Site Office
528 35th Street, MS: A316
Los Alamos, NM 87545

October 18, 2004

Subject: Submittal of Preliminary 2003 PCB Storm Water Data

Dear Mr. Turner:

During 2003, the New Mexico Environment Department (NMED), Department of Energy Oversight Bureau (DOE OB) collected the following storm water PCB samples at LANL: eight samples below SWMUs in Los Alamos, Mortandad, and Tensite Canyons and four samples at watershed monitoring stations in Los Alamos, Pueblo, and Ten Site Canyons. Due to a budget shortfall in FFY03, we were forced to archive these samples in cold storage without having them analyzed. However, the Hazardous Waste Bureau (HWB) had the samples analyzed this year with their own analytical money earmarked for sampling at Los Alamos National Laboratory. NMED now considers HWB to be owners of these data, not the Oversight Bureau and therefore not subject to the 30-day data review provisions of the current AIP.

The HWB has informed us that they intend to use these data within the next month. In the spirit of the AIP, the Oversight Bureau is providing this specific HWB-owned PCB data to the Department of Energy as preliminary data along with initial assessments.

Methodology

The samples collected below SWMUs were obtained using single-stage samplers placed in drainage channels located below each respective SWMU and upstream from any confluence with the watershed drainage (e.g., Los Alamos Canyon). Those collected at watershed locations were obtained using ISCO® automatic samplers located at gage monitoring stations where possible. The single exception is the Ten Site sample that was collected below the junction of Pratt Canyon. All samples are considered first-flush grab samples. All samples were split into two samples using a Dekaport sample splitter, preserved with H_2SO_4 to a pH range of 2 to 3, and kept at 4 ^{O}C. The samples were analyzed by AXYS Laboratory using EPA Method 1668A.

Results

The data collected below SWMUs ranged from 9 pg/L (ppt) to 14,200 pg/L (ppt). The data collected in the watershed locations ranged from 7 pg/L (ppt) to 16,900 pg/L (ppt). Five of the eight SWMU

10783

samples exceeded the wildlife habitat standard of 14 pg/L and all exceeded the human health standard of 1.7 pg/L. Three of the four watershed samples exceeded the wildlife habitat standard and all exceeded the human health standard. Of particular concern are the 21-024(m) samples collected on two different dates of 803 pg/L and 14,200 pg/L. This SWMU did not appear on the list of SWMUs with greater than 1 ppm PCBs in soils and did not score higher than 40 on the erosion potential matrix score (SOP 2.01). In addition, at the E030 gauge station (Los Alamos Canyon above DP Canyon), two samples were collected at different dates of 4,070 pg/L and 16,900 pg/L. SWMU 21-024(m) is located upstream of the E030 gauge station.

These data are provided to DOE prior to their use by other State of New Mexico agencies and are intended to alert DOE to elevated levels of contaminant transport within the Los Alamos National Laboratory site. The data summary (in Excel spreadsheet form) is provided as an attachment to this letter. A complete data package, including EDD format form is available upon request. Please contact John Young (428-2538) or Ralph Ford-Schmid (428-2559) if you have any questions about this data or the assessments.

Sincerely,

Stephen Yanicak

Steve Yanicak, Point of Contact/LANL

SY: rfs

cc: with enclosures

Courte Voorhees, Bureau Chief, NMED, DOE OB
Marcy Leavitt, Bureau Chief, NMED, SWQB
James Bearzi, Bureau Chief, NMED, HWB
Doug Stavert, RRES-EP, MS J591
Steve Rae, RRES-WQH, MS K497

See below for definitions of possible flags and labels in the database (sheet tab "DATA")

K / R / NDR = peak detected, but did not meet quantification criteria, result reported represents the estimated maximum possible concentration

(C) = concentration confirmed by analysis on DB-225 column

< = less than the detection limit
number following this symbol represents the detection limit

TEQ1 : NATO non detect = 1/2 detection limit
TEQ2 : NATO non detect = 0
TEQ3 : WHO non detect = 1/2 detection limit
TEQ4 : WHO non detect = 0
TEQ5 : WHO non detect = detection limit
TEQ6 : NATO non detect = detection limit

2003 PCB DATA-SUMMARY

ANALYTE_CODE	21-024 (k) B 25-Aug-2003	21-024 (m) 2B 19-Aug-2003	21-024 (m) B1 25-Aug-2003	35-005(a) 06-Oct-2003	35-005(a) 08-Oct-2003	35-005(a) 14-Oct-2003	35-008-00B 06-Oct-2003	35-009 (c) 06-Oct-2003
LAB_ID	L6898-3R	L6898-2R	L6898-1R	L6985-8R	L6985-7R	L6985-6R	L6898-4R	L6898-5R
UNITS	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L
WORKGROUP	WG13486	WG13486	WG13486	WG13486	WG13486	WG13486	WG13486	WG13486
PCB-1	6.97	35	426	7.03	16.7	5.89	14.4	7.4
PCB-2	3.87	11.3	55.3	K4.53	K3.87	K3.14	5.25	3.62
PCB-3	5.88	19.9	206	K6.20	5.51	5.64	9.59	6.71
PCB-4	21.1	87.5	1960	17.6	13.1	21.6	22.5	22
PCB-5	<1.20	K3.46	57.6	<2.66	<3.67	<3.87	<2.04	<1.42
PCB-6	8.89	37.9	820	8.13	5.99	12.7	K10.4	9.86
PCB-7	2.92	8.19	110	<2.56	<3.53	K3.76	K2.28	K3.45
PCB-8	39.6	156	4580	34.9	24.4	35	48.4	46.1
PCB-9	3.1	13.4	225	<2.57	<3.54	<3.74	K3.97	3.17
PCB-10	<1.23	3.34	64	<2.72	<3.75	<3.96	<2.09	<1.37
PCB-11	180	288	337	370	172	132	191	286
PCB-12 + 13	4.94	31.3	182	K4.47	<3.72	7.87	6.93	5.88
PCB-14	<1.19	<1.93	<11.9	<2.63	<3.63	<3.83	<2.02	<1.32
PCB-15	20.5	124	1980	21.7	19.2	36.6	61.3	28.1
PCB-16	20.2	188	4100	18.7	12.7	K18.9	32.9	23.6
PCB-17	20.2	167	4080	17.2	14.1	22.4	27.6	22.3
PCB-18 + 30	40.9	408	9500	30.1	24.9	37.2	59.9	45.4
PCB-19	6.83	49.6	872	K3.82	K4.24	7.36	18.5	6.07
PCB-20 + 28	55.9	593	12700	52.6	42.4	51	107	68.9
PCB-21 + 33	30.1	340	7190	28.5	21.5	30.9	52.2	37.5
PCB-22	24.4	292	4550	23.2	17.9	22.9	43.4	27.8
PCB-23	<0.841	<1.79	<14.9	<0.912	<1.39	<0.907	<1.81	<0.574
PCB-24	K0.604	K4.59	117	0.779	<0.788	K1.01	<0.962	K1.12
PCB-25	3.73	59.1	982	3.88	K3.07	K6.45	7.6	5.5
PCB-26 + 29	13.4	260	2150	9.55	K6.18	K16.0	16.8	15.9
PCB-27	3.04	28.3	584	K2.65	K1.87	K3.80	7.4	4.49
PCB-31	52.9	726	16900	45.2	34.9	43.5	89.2	68.8
PCB-32	12	126	3180	11	8.51	10.5	25.7	15.5
PCB-34	<0.863	2.5	39.1	<0.936	<1.43	K1.00	<1.86	<0.571
PCB-35	8.83	176	441	8.59	5.47	7.56	8.38	8.1
PCB-36	<0.838	9.88	<14.2	2.32	<1.39	<0.904	<1.80	2.77
PCB-37	21.7	511	5110	20.1	15.5	17.8	60	28.5
PCB-38	K1.23	K3.68	<14.4	<0.920	<1.41	<0.915	<1.83	<0.552
PCB-39	<0.806	K6.39	147	<0.875	<1.34	<0.869	<1.73	<0.536
PCB-40 + 41 + 71	63.7	1560	28500	34.7	28	28.2	116	81.4
PCB-42	31.8	660	12900	14.5	K12.0	12.6	46.1	34.1
PCB-43	K3.37	63.1	2930	K0.836	<1.28	K2.51	4.91	K3.29
PCB-44 + 47 + 65	291	6530	189000	66.6	60.8	55	187	299
PCB-45 + 51	15	264	4370	11.4	8.42	14.4	60.4	18.9
PCB-46	K6.88	141	1780	4.26	K3.32	K5.03	K31.2	K8.78
PCB-48	14.2	321	7560	9.66	7.88	K13.4	28.4	17.2
PCB-49 + 69	161	3250	100000	36.2	34.4	35.7	102	149
PCB-50 + 53	22.3	486	10100	8.23	6.35	13.2	48.6	26
PCB-52	705	16100	581000	113	106	92.5	264	697
PCB-54	<1.37	4.31	K30.0	<0.443	<0.813	1.13	<1.86	<0.680
PCB-55	<2.18	<4.35	<197	<1.58	<2.41	<2.27	<4.35	<1.39
PCB-56	104	2200	36200	31.9	26.7	22.7	86.7	90.3
PCB-57	<2.11	<4.21	<200	<1.52	<2.33	<2.19	<4.21	<1.42
PCB-58	<2.11	<4.22	<199	<1.53	<2.34	<2.20	<4.22	<1.45
PCB-59 + 62 + 75	K8.48	220	2860	K5.07	5.23	5.8	19.7	10.7
PCB-60	34.1	895	15600	15.4	K12.6	9.52	39.6	32.8
PCB-61 + 70 + 74 + 76	618	14600	434000	150	128	109	329	659
PCB-63	5.58	146	3530	K1.60	<2.23	<2.10	<4.04	5.73
PCB-64	82.1	1950	58900	26.2	24.3	20.6	67.9	96.5
PCB-66	155	3770	98200	56.1	48.2	36.8	158	172
PCB-67	7.98	239	931	2.18	<2.14	K3.48	K3.92	6.91
PCB-68	<1.94	17.6	<205	<1.41	<2.15	<2.02	<3.89	<1.34
PCB-72	4.62	80.9	222	<1.54	<2.36	<2.22	<4.26	3.34
PCB-73	<1.15	<2.43	<3.57	<0.430	<0.777	<0.654	<1.75	<0.638
PCB-77	80.3	2090	13800	31	24.6	16.3	68.6	69.5
PCB-78	<2.19	14.4	<197	<1.58	<2.42	<2.28	<4.37	<1.35
PCB-79	31.6	425	7610	4.68	3.23	3.18	8.51	19.6
PCB-80	<2.00	<3.99	<176	<1.44	<2.21	<2.08	<3.99	<1.22
PCB-81	K5.21	K47.1	K321	<1.58	<2.43	<2.25	<4.29	K2.19
PCB-82	338	5560	113000	46.2	46.3	27	114	208

2003 PCB DATA-SUMMARY

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LAB_ID	L6898-3R	L6898-2R	L6898-1R	L6985-8R	L6985-7R	L6985-6R	L6898-4R	L6898-5R
UNITS	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L
WORKGROUP	WG13486	WG13486	WG13486	WG13486	WG13486	WG13486	WG13486	WG13486
PCB-83 + 99	1560	21500	534000	158	151	115	392	803
PCB-84	588	11900	301000	81.7	83.3	57	290	483
PCB-85 + 116 + 117	617	7780	167000	56.5	56	34.4	132	252
PCB-86 + 87 + 97 + 108 + 119 + 125	2200	32500	805000	247	225	156	553	1240
PCB-88 + 91	307	5100	132000	46	53.6	38.5	153	227
PCB-89	16.1	310	6050	4.37	<5.52	<4.64	K18.1	13
PCB-90 + 101 + 113	2410	43000	1220000	333	322	239	792	2590
PCB-92	563	8040	211000	62.3	64.3	42.8	152	408
PCB-93 + 95 + 98 + 100 + 102	1730	33900	1040000	288	313	235	971	2520
PCB-94	K6.91	131	2850	<3.39	<5.50	<4.62	K6.21	K4.74
PCB-96	K9.41	198	3920	<2.06	<2.58	3.65	K9.45	10.4
PCB-103	9.13	153	3740	<2.86	<4.65	<3.90	K7.95	9.42
PCB-104	<1.76	<3.57	K7.14	<1.70	<2.16	<2.09	<3.03	<1.37
PCB-105	1110	20100	357000	137	130	83.8	303	565
PCB-106	<4.52	<9.61	<146	<3.04	<4.15	<5.14	<5.44	<2.32
PCB-107 + 124	213	2290	42200	18.5	15.7	K12.6	42.2	77.9
PCB-109	276	3500	59700	26.1	24.3	18.3	70.1	115
PCB-110 + 115	4120	66700	1370000	542	567	367	1300	2950
PCB-111	<2.00	12	<124	<2.32	<3.77	<3.16	<3.65	<1.75
PCB-112	<1.97	<7.44	<135	<2.30	<3.73	<3.13	<3.61	<1.68
PCB-114	35.9	800	19300	K5.72	K5.79	<5.06	11.8	24.1
PCB-118	1950	42300	898000	294	271	185	668	1450
PCB-120	13.4	105	298	<2.25	<3.66	<3.07	K5.73	6.05
PCB-121	<2.01	<7.59	<126	<2.34	<3.80	<3.19	<3.68	<1.79
PCB-122	45.1	640	11600	4.91	<4.44	<5.50	10.3	K18.0
PCB-123	53.6	711	13200	K8.25	6.62	<5.15	13.7	22
PCB-126	42.9	790	3130	9.03	K7.17	<5.44	16	24
PCB-127	8.32	123	<146	<3.02	<4.12	<5.11	<5.41	K4.05
PCB-128 + 166	1160	17200	215000	132	161	106	391	790
PCB-129 + 138 + 160 + 163	6580	85700	1120000	863	1060	694	2980	9250
PCB-130	489	5810	78400	61.5	73.9	50.2	230	408
PCB-131	72.4	1050	17900	9.21	K8.92	8	K31.2	63
PCB-132	1810	26400	386000	306	382	251	1190	2930
PCB-133	90.1	905	11800	14.3	14.8	12	59.5	121
PCB-134 + 143	256	3810	65200	37.3	51.3	K29.8	173	375
PCB-135 + 151 + 154	1410	15000	233000	330	395	259	1420	4590
PCB-136	458	5890	112000	96.1	125	85.4	434	1370
PCB-137	282	3940	71500	24.8	33.1	20.4	60.2	127
PCB-139 + 140	103	1300	22200	K13.3	16	10.5	50.7	55.5
PCB-141	993	12300	176000	180	213	136	585	2500
PCB-142	<6.83	<10.5	<97.6	<5.04	<6.41	<6.29	<9.28	<3.84
PCB-144	193	2190	41400	45.6	53.6	36.4	163	593
PCB-145	<1.85	20.1	648	<2.77	<3.05	<3.17	<4.28	<1.34
PCB-146	897	9060	122000	146	182	119	535	1510
PCB-147 + 149	4080	42100	668000	761	944	629	3270	10000
PCB-148	K4.39	44.9	544	<3.62	<3.99	<4.14	<5.60	K3.33
PCB-150	5.9	73.3	851	<2.66	<2.93	<3.04	10.8	7.78
PCB-152	2.74	50.4	985	<2.69	<2.97	<3.08	<4.16	K3.15
PCB-153 + 168	4760	49300	683000	678	804	531	2180	9550
PCB-155	<1.54	<2.80	<5.20	<2.12	<2.39	<2.46	<3.64	<1.11
PCB-156 + 157	719	11200	159000	82	82.3	59.8	185	559
PCB-158	602	8770	130000	88.6	111	68.8	295	909
PCB-159	40.8	390	2680	15	18.2	12.7	61.2	302
PCB-161	<4.68	<7.21	<66.4	<3.45	<4.39	<4.31	<6.35	<2.65
PCB-162	32.3	352	4130	<3.35	5.54	<4.18	12.2	K17.4
PCB-164	533	6590	73400	82.6	104	71.8	323	802
PCB-165	<5.02	11.2	<73.2	<3.70	<4.71	<4.62	<6.81	<2.84
PCB-167	299	3920	50100	40.9	46.5	30.2	124	287
PCB-169	<5.25	<40.7	<334	<3.42	<4.39	<4.32	<6.48	<17.4
PCB-170	1250	13300	125000	361	472	324	1580	5760
PCB-171 + 173	353	3680	38100	103	140	91.7	490	1660
PCB-172	249	2100	17300	74.5	96.7	61.3	340	1110
PCB-174	1170	10400	77400	363	506	329	1780	7020
PCB-175	47.8	442	3790	15.8	20	13.8	83.3	250
PCB-176	118	1000	9700	37.7	51.5	33.8	195	723

2003 PCB DATA-SUMMARY

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LAB_ID	L6898-3R	L6898-2R	L6898-1R	L6985-8R	L6985-7R	L6985-6R	L6898-4R	L6898-5R
UNITS	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L
WORKGROUP	WG13486	WG13486	WG13486	WG13486	WG13486	WG13486	WG13486	WG13486
PCB-177	742	6390	48500	223	300	209	1060	3680
PCB-178	266	1870	11600	75.4	100	67.8	392	1280
PCB-179	388	2970	22600	137	176	119	688	2550
PCB-180 + 193	2390	21900	162000	761	1020	696	3610	14000
PCB-181	16.4	169	2950	K2.14	K2.68	K2.40	4.76	15.1
PCB-182	11.3	98.7	871	K3.52	K2.78	K2.35	16	<1.14
PCB-183 + 185	681	6030	52200	223	311	196	1110	4020
PCB-184	K2.27	27.4	102	<0.956	<1.20	<1.15	K3.05	K2.32
PCB-186	<0.934	<2.39	K67.8	<1.03	<1.29	<1.24	<2.43	<0.880
PCB-187	1360	10100	62400	420	559	370	2120	7380
PCB-188	4.4	34.8	108	<0.923	K1.34	<1.09	9.16	5.56
PCB-189	49.8	530	5210	15	17.4	K11.6	55	173
PCB-190	275	2320	23400	76.2	97.7	66.9	331	1240
PCB-191	52.8	503	4610	15.9	21.6	14.2	68.8	232
PCB-192	<1.01	K4.14	<8.81	<1.12	<1.40	<1.35	<2.64	<0.984
PCB-194	450	3530	11400	172	224	153	803	3400
PCB-195	181	1340	5500	71.1	94.8	58.8	326	1400
PCB-196	208	1740	6930	88.4	119	81.7	425	1690
PCB-197 + 200	68.4	659	1960	25.8	35.6	24	137	569
PCB-198 + 199	509	3860	12800	191	250	180	969	3770
PCB-201	51.4	496	1370	20.8	26.7	17.3	121	403
PCB-202	91	654	1900	29.9	43.8	26.8	184	603
PCB-203	286	2110	8650	108	140	92.5	584	2160
PCB-204	K0.285	K20.6	K11.2	K0.293	K0.369	K0.248	K1.04	0.902
PCB-205	31	198	703	K10.3	K13.8	K8.73	49.7	177
PCB-206	143	1310	3230	47.1	61.8	40.3	367	805
PCB-207	24.8	1430	450	7.38	8.56	6.3	55.4	109
PCB-208	38.9	995	908	K11.7	14.9	8.99	98.4	171
PCB-209	95.4	18700	705	10.5	K13.4	8.3	43.6	45.3
Total Monochloro Biphenyls	16.7	66.3	687	7.03	22.2	11.5	29.2	17.7
Total Dichloro Biphenyls	282	750	10300	453	234	246	331	401
Total Trichloro Biphenyls	314	3940	72600	272	198	251	556	381
Total Tetrachloro Biphenyls	2430	56000	1610000	616	512	476	1640	2490
Total Pentachloro Biphenyls	18200	308000	7310000	2360	2330	1600	5990	14000
Total Hexachloro Biphenyls	25900	313000	4450000	3990	4880	3190	14700	47100
Total Heptachloro Biphenyls	9430	83800	668000	2900	3890	2590	13900	51100
Total Octachloro Biphenyls	1880	14600	51200	707	934	634	3600	14200
Total Nonachloro Biphenyls	207	3740	4590	54.5	85.3	55.5	521	1080
Decachloro Biphenyl	95.4	18700	705	10.5	<0.219	8.3	43.6	45.3
TOTAL PCBs	58700	803000	14200000	11400	13100	9070	41400	131000
TEQ 3 (1/2 DL)	5.02	91.8	533	1.01	0.336	0.354	1.84	3.01
TEQ 4 (ND=0)	5	91.6	531	0.992	0.0866	0.0587	1.81	2.93

ANALYTE_CODE	E030 (LA-6.6) 03-Sep-2003	E030 (LA-6.6) 23-Aug-2003	E060 (PU-0.3) 06-Sep-2003	TE-0.7 03-Oct-2003	LAB BLANK
LAB_ID	L6985-1R	L6985-3R	L6985-4R	L6985-5R	WG13486-101
UNITS	pg/L	pg/L	pg/L	pg/L	pg/L
WORKGROUP	WG13486	WG13486	WG13486	WG13486	WG13486
PCB-1	57.7	101	99	6.74	3.78
PCB-2	90.7	113	199	K2.93	1.83
PCB-3	112	148	189	5.84	5.15
PCB-4	117	270	271	9.76	<3.31
PCB-5	8.39	17.6	10.9	<2.15	<2.29
PCB-6	63.4	134	132	4.1	<2.12
PCB-7	12.5	23.2	22.3	<2.03	4.45
PCB-8	289	566	620	23	3.08
PCB-9	19.6	45.6	35.9	<2.01	<2.15
PCB-10	8.11	13.1	13.1	<2.14	<2.28
PCB-11	1250	1090	1030	68.9	16.2
PCB-12 + 13	257	301	292	<2.10	<2.22
PCB-14	31.2	29.3	31.4	<2.04	<2.16
PCB-15	399	855	1330	19.4	K2.88
PCB-16	355	777	965	K7.69	1.75
PCB-17	355	806	1010	K7.64	K1.77
PCB-18 + 30	761	1760	2150	15.4	K3.92
PCB-19	94.2	209	308	K2.18	<0.881
PCB-20 + 28	1550	3550	3750	30.1	K4.66
PCB-21 + 33	630	1370	1560	16.5	K2.81
PCB-22	541	1300	1340	11.6	1.65
PCB-23	1.19	K4.09	K3.43	<0.390	<0.701
PCB-24	12.6	27.3	31.9	<0.636	<0.514
PCB-25	90.8	224	240	2.35	<0.610
PCB-26 + 29	238	707	623	K4.87	K1.34
PCB-27	69.9	152	196	K0.742	<0.480
PCB-31	1400	3260	3070	24.7	3.4
PCB-32	328	785	886	5.05	0.797
PCB-34	4.71	11.2	11.6	<0.384	<0.715
PCB-35	96.8	306	144	K1.92	<0.741
PCB-36	19.4	K28.8	22.8	<0.372	<0.694
PCB-37	752	1820	1570	12.4	1.85
PCB-38	874	807	841	K4.98	<0.717
PCB-39	K20.8	43.2	21.5	<0.363	<0.661
PCB-40 + 41 + 71	3170	5320	2640	13.5	K2.23
PCB-42	1470	2450	1310	5.18	<0.960
PCB-43	K127	254	149	K0.891	<1.10
PCB-44 + 47 + 65	11100	17600	6450	29.4	K3.93
PCB-45 + 51	650	1140	878	K3.49	<0.932
PCB-46	246	458	329	K1.01	<1.12
PCB-48	705	1310	723	3.91	<0.903
PCB-49 + 69	7630	9520	4380	14.3	2.65
PCB-50 + 53	752	1400	820	3.35	<0.904
PCB-52	30000	45200	13800	43.6	7.18
PCB-54	6.11	13.5	12.6	K0.249	<0.828
PCB-55	51.8	120	81.8	<0.471	<1.08
PCB-56	4170	6720	2630	12.1	K1.89
PCB-57	<7.92	<9.38	18.5	<0.479	<1.09
PCB-58	<7.89	<9.35	<5.36	<0.477	<1.08
PCB-59 + 62 + 75	371	714	457	1.69	<0.699
PCB-60	1590	2760	1180	K6.08	<1.06
PCB-61 + 70 + 74 + 76	29700	41600	12000	58.8	8.43
PCB-63	274	458	179	<0.444	<1.03
PCB-64	4700	6560	2450	11.2	1.62
PCB-66	10200	13900	5370	21.5	3.63
PCB-67	153	428	187	1.46	<1.00
PCB-68	30.6	52.2	37.2	K0.784	<1.03
PCB-72	95.6	206	76.8	<0.473	<1.03
PCB-73	<0.735	<1.25	<2.04	<0.0456	<0.673
PCB-77	1900	4300	1280	K15.8	K1.07
PCB-78	<8.01	23.3	<5.44	<0.473	<1.10
PCB-79	988	1410	411	K1.39	<0.927
PCB-80	<7.29	<8.64	<4.95	<0.421	<1.00
PCB-81	K83.6	K169	K50.5	1.18	<1.02
PCB-82	11900	17200	5470	12.7	<2.47

2003 PCB DATA-SUMMARY

ANALYTE_CODE	E030 (LA-6.6) 03-Sep-2003	E030 (LA-6.6) 23-Aug-2003	E060 (PU-0.3) 06-Sep-2003	TE-0.7 03-Oct-2003	LAB BLANK
LAB_ID	L6985-1R	L6985-3R	L6985-4R	L6985-5R	WG13486-101
UNITS	pg/L	pg/L	pg/L	pg/L	pg/L
WORKGROUP	WG13486	WG13486	WG13486	WG13486	WG13486
PCB-83 + 99	65800	88200	29800	57.3	K2.42
PCB-84	23900	38700	12800	28.7	<2.54
PCB-85 + 116 + 117	22900	30300	9960	K21.1	<1.83
PCB-86 + 87 + 97 + 108 + 119 + 125	84200	147000	35500	96.7	5.3
PCB-88 + 91	14600	20700	7880	14.1	<2.20
PCB-89	643	885	333	<0.608	<2.34
PCB-90 + 101 + 113	152000	401000	73200	153	7.35
PCB-92	24700	51000	13100	25.2	<2.21
PCB-93 + 95 + 98 + 100 + 102	106000	310000	60300	110	K5.82
PCB-94	302	517	166	0.742	<2.38
PCB-96	345	666	219	0.688	<1.35
PCB-103	462	842	284	<0.528	<2.02
PCB-104	K3.46	10	<3.01	K0.265	<1.43
PCB-105	42000	61300	15700	55.8	3.11
PCB-106	<18.4	<36.1	<12.8	<1.54	<1.99
PCB-107 + 124	5880	9640	2400	K7.42	<2.12
PCB-109	7760	13400	3220	11.4	<1.90
PCB-110 + 115	188000	357000	89900	191	K9.04
PCB-111	<8.40	K85.7	15.9	<0.418	<1.61
PCB-112	<8.53	<11.2	<14.0	<0.456	<1.64
PCB-114	1510	2160	512	K2.10	<1.77
PCB-118	109000	185000	39000	118	6.77
PCB-120	214	760	137	1.33	<1.57
PCB-121	<8.42	<11.0	<13.8	<0.428	<1.62
PCB-122	1580	2320	719	<1.65	<2.14
PCB-123	1870	2580	842	K2.23	<1.88
PCB-126	948	3550	522	K5.34	<1.82
PCB-127	330	386	K148	<1.54	<1.98
PCB-128 + 166	45700	107000	24500	82.1	<2.08
PCB-129 + 138 + 160 + 163	380000	1380000	218000	650	6.35
PCB-130	18500	53700	10900	32.2	<2.60
PCB-131	3110	8920	1720	<3.82	<2.48
PCB-132	109000	436000	62700	153	<2.46
PCB-133	4040	14500	2500	8.3	<2.37
PCB-134 + 143	14800	49500	8030	18.3	<2.55
PCB-135 + 151 + 154	119000	612000	70900	K231	<2.10
PCB-136	39400	149000	24500	46.8	<1.66
PCB-137	9770	17300	4790	K11.5	<2.30
PCB-139 + 140	3800	7080	1970	K5.39	<2.23
PCB-141	76800	370000	47800	112	<2.27
PCB-142	<36.4	<93.9	<32.4	<3.82	<2.49
PCB-144	16700	66500	8910	K62.2	<2.12
PCB-145	54.4	104	32.1	K0.430	<1.67
PCB-146	48000	204000	29400	105	<2.18
PCB-147 + 149	296000	1400000	180000	469	4.59
PCB-148	169	513	106	K0.955	<2.20
PCB-150	288	968	169	K0.772	<1.59
PCB-152	150	326	86.3	K0.237	<1.60
PCB-153 + 168	319000	1480000	189000	538	K5.99
PCB-155	10.4	20.1	K10.9	K0.279	<1.80
PCB-156 + 157	30400	87500	16200	45.8	2.12
PCB-158	34400	117000	19700	52.1	<1.67
PCB-159	5190	23500	3750	K12.3	<1.75
PCB-161	<24.7	<63.8	<22.0	<2.60	<1.69
PCB-162	810	2750	450	<2.76	<1.73
PCB-164	29600	109000	18100	52.1	<1.84
PCB-165	K61.0	285	43.7	<2.87	<1.88
PCB-167	12600	43900	7270	27.5	<1.52
PCB-169	<580	<2160	<355	<2.49	<1.64
PCB-170	148000	742000	92300	341	K2.35
PCB-171 + 173	41800	228000	29200	91.6	0.689
PCB-172	24400	136000	17700	66.9	<0.478
PCB-174	152000	873000	105000	329	K1.43
PCB-175	5500	32900	4010	11	<0.423
PCB-176	16400	96300	11900	27.9	<0.331

ANALYTE_CODE	E030 (LA-6.6) 03-Sep-2003	E030 (LA-6.6) 23-Aug-2003	E060 (PU-0.3) 06-Sep-2003	TE-0.7 03-Oct-2003	LAB BLANK
LAB_ID	L6985-1R	L6985-3R	L6985-4R	L6985-5R	WG13486-101
UNITS	pg/L	pg/L	pg/L	pg/L	pg/L
WORKGROUP	WG13486	WG13486	WG13486	WG13486	WG13486
PCB-177	83800	458000	57500	199	K0.727
PCB-178	27100	155000	20400	66.3	<0.450
PCB-179	54200	316000	39800	98.6	K0.706
PCB-180 + 193	328000	1780000	231000	769	K3.52
PCB-181	705	2800	489	K0.950	<0.432
PCB-182	510	2180	354	1.29	<0.433
PCB-183 + 185	92700	548000	67500	187	K1.62
PCB-184	73.3	331	68.5	K0.164	<0.311
PCB-186	<3.99	<10.3	<5.00	<0.0972	<0.335
PCB-187	161000	947000	113000	379	1.82
PCB-188	164	729	114	K0.799	<0.319
PCB-189	4280	23000	2860	K12.2	K0.639
PCB-190	29300	161000	21100	73.7	K0.520
PCB-191	5530	33600	4020	13.3	<0.354
PCB-192	<4.43	<11.4	<5.55	K0.283	<0.372
PCB-194	64800	349000	47500	166	K0.915
PCB-195	24400	159000	19400	72.5	K0.158
PCB-196	33100	207000	26200	76.3	<0.146
PCB-197 + 200	10500	56700	8790	23.6	<0.107
PCB-198 + 199	68200	415000	57100	174	K1.24
PCB-201	7590	44000	6510	16.3	<0.106
PCB-202	11100	62500	9950	25.6	K0.362
PCB-203	40500	247000	34700	95.3	K0.550
PCB-204	K22.7	98.1	14.5	K0.179	K0.148
PCB-205	3240	20300	2470	10.2	K0.458
PCB-206	14500	87600	16800	34.3	<2.55
PCB-207	1880	11600	2180	K5.81	<2.11
PCB-208	3280	19400	4160	K8.57	<2.31
PCB-209	1580	13100	4260	K6.56	K1.86
Total Monochloro Biphenyls	260	362	487	12.6	10.8
Total Dichloro Biphenyls	2460	3340	3790	125	23.7
Total Trichloro Biphenyls	8170	17900	18800	118	9.45
Total Tetrachloro Biphenyls	110000	164000	57900	221	23.5
Total Pentachloro Biphenyls	868000	1750000	402000	877	22.5
Total Hexachloro Biphenyls	1620000	6740000	952000	2390	13.1
Total Heptachloro Biphenyls	1180000	6540000	819000	2660	2.51
Total Octachloro Biphenyls	263000	1560000	213000	660	<0.148
Total Nonachloro Biphenyls	19700	119000	23200	34.3	<2.55
Decachloro Biphenyl	1580	13100	4260	<0.151	<0.104
TOTAL PCBs	4070000	16900000	2490000	7100	106
TEQ 3 (1/2 DL)	130	439	68.4	0.131	0.102
TEQ 4 (ND=0)	127	428	66.6	0.0407	0.00205