

Section 2
Quality Control Data
Hackensack River Study
5-day BOD Analysis

GTC LABORATORY QUALITY CONTROL REPORT

CUSTOMER: Clinton Bogart

JOB#: Hackensack River Study

PARAMETER: 5-DAY BOD

SAMPLING EVENT: Apr,Jul,Aug,Oct,Nov

UNITS: mg/l

PRECISION DUPLICATES
 (Accept. Limits: 40 (low level))

PRECISION DUPLICATES
 (Accept. Limits: 15.4 (high level))

DATE	SAMPLE	ORG.	DUP.	% REL.	WITHIN	DATE	SAMPLE	ORG.	DUP.	% REL.	WITHIN	LOCATION
SAMPLED	NUMBER	RESULT	RESULT	ERROR	LIMITS	SAMPLED	NUMBER	RESULT	RESULT	ERROR	LIMITS	LOCATION
4/12/88	13	2.0	2.0	NC	---	4/18/88	827	12.80	10.80	16.9	IN	149
4/12/88	20	3.00	2.80	6.9	Y	4/18/88	892	16.00	14.40	10.5	Y	149
4/12/88	43	2.0	2.0	NC	---	4/18/88	905	15.60	13.70	13.0	Y	149
4/12/88	66	2.0	2.0	NC	---	4/19/88	935	13.80	12.90	6.7	Y	149
4/12/88	71	0.60	0.60	0.0	Y	4/19/88	940	16.30	15.80	3.0	Y	149
4/13/88	90	1.40	1.10	24.0	Y	4/19/88	952	15.00	14.30	4.8	Y	149
4/13/88	112	1.50	1.45	3.4	Y	4/19/88	1013	10.70	10.80	0.9	Y	145
4/13/88	136	0.60	0.60	0.0	Y	4/19/88	1037	12.20	14.40	16.5	IN	145
4/13/88	139	1.30	1.40	7.4	Y	4/19/88	1038	10.70	10.40	2.8	Y	145
4/13/88	157	4.30	2.20	64.6	IN	4/20/88	1105	10.40	12.10	15.1	Y	146
4/13/88	158	4.90	0.50	163.0	IN	4/20/88	1145	10.70	9.40	12.9	Y	147
4/13/88	175	4.30	3.95	8.5	Y	4/20/88	1159	13.00	98.00	153.2	IN	146
4/13/88	176	3.75	3.25	14.3	Y	4/20/88	1178	12.70	12.00	5.7	Y	146
4/13/88	195	1.85	1.80	2.7	Y	July 23	1627	14.80	14.40	2.74	Y	141
4/13/88	196	0.40	2.25	139.6	IN	July 12	135	73.50	69.90	5.02	Y	1010
4/13/88	208	1.30	1.00	26.1	Y	July 12	145	77.40	88.50	13.38	Y	109
4/13/88	209	1.10	1.10	0.0	Y	July 12	155	129.00	189.00	37.74	IN	106
4/14/88	228	2.80	2.25	21.8	Y	July 12	160	13.90	18.90	30.49	IN	1410
4/14/88	229	3.50	3.25	7.4	Y	July 12	88	21.60	28.80	29.57	IN	101
4/14/88	241	3.00	2.98	0.7	Y	July 12	89	36.60	34.50	5.91	Y	101
4/14/88	242	3.55	3.40	4.3	Y	July 12	97	33.00	31.50	4.35	Y	102
4/14/88	260	1.35	1.25	7.7	Y	July 12	106	129.00	147.00	13.04	Y	103
4/14/88	269	2.20	2.20	0.0	Y	July 12	115	138.00	156.00	12.24	Y	1010
4/14/88	290	1.60	2.20	31.6	Y	July 12	125	22.20	15.50	29.46	IN	102
4/14/88	305	2.15	2.10	2.4	Y	11/17/88	21	129.00	141.00	8.67	Y	105A
4/14/88	319	2.0	2.0	NC	---	11/17/88	10	115.00	116.70	1.47	Y	105A
4/14/88	338	2.0	2.0	NC	---	11/18/88	46	72.00	73.20	1.55	Y	102A
4/15/88	364	2.05	2.00	2.5	Y	11/18/88	52	123.00	120.00	2.47	Y	102A
4/15/88	377	2.0	2.0	NC	---	11/18/88	62	127.50	124.00	5.41	Y	102A
4/15/88	396	1.35	1.10	20.4	Y	11/19/88	72	193.50	145.50	28.32	IN	105A
4/15/88	402	3.90	3.85	1.3	Y	11/19/88	82	65.30	79.50	5.14	Y	107A
4/15/88	403	3.45	3.40	1.5	Y	11/19/88	92	18.45	18.90	2.41	Y	107A
4/15/88	427	4.22	4.07	3.6	Y	11/19/88	102	111.00	105.00	5.55	Y	107A
4/15/88	429	4.92	4.40	11.2	Y	11/20/88	112	76.20	77.70	1.95	Y	107A
4/15/88	442	6.35	5.82	8.7	Y	11/20/88	122	222.00	1216.00	2.74	Y	109A
4/15/88	443	5.52	5.45	3.1	Y	11/20/88	134	36.90	34.20	7.59	Y	109A
4/15/88	461	3.70	3.10	17.6	Y	11/20/88	144	91.50	103.70	12.50	Y	107A
4/15/88	462	3.40	3.60	5.7	Y	11/21/88	172	117.00	114.00	2.60	Y	107A
4/15/88	474	3.40	3.25	4.5	Y	11/21/88	190	163.70	154.50	5.78	Y	103A
4/15/88	494	4.85	4.80	1.0	Y	11/21/88	193	33.60	33.90	14.66	Y	1012A
4/15/88	514	5.40	4.55	17.1	Y	11/21/88	152	94.80	95.00	1.25	Y	107A
4/15/88	545	8.80	8.38	4.9	Y	11/21/88	152	105.00	93.00	12.12	Y	107A
4/15/88	558	6.90	6.85	0.7	Y	11/21/88	208	108.00	101.00	6.70	Y	103A

PRECISION DUPLICATES					PRECISION DUPLICATES				
5-DAY BOD					Accept. Limits: 15.4 (high level)				
Accept. Limits: 40 (low level)					Accept. Limits: 15.4 (high level)				
DATE	SAMPLE	ORG.	DUP.	% REL. WITHIN	DATE	SAMPLE	ORG.	DUP.	% REL. WITHIN
SAMPLED	NUMBER	RESULT	RESULT	ERROR LIMITS	SAMPLED	NUMBER	RESULT	RESULT	ERROR LIMITS
4/16/88	585	6.90	6.45	6.7 Y	10/21/88	220	23.95	23.80	0.63 Y
4/16/88	614	6.10	5.50	10.3 Y	11/09/88	85	13.40	13.30	0.75 Y
4/16/88	619	6.45	4.88	27.7 Y	11/09/88	101	11.80	11.20	5.22 Y
4/17/88	638	4.95	4.80	3.1 Y					
4/17/88	667	5.43	5.25	3.4 Y					
4/17/88	690	6.18	5.98	3.3 Y					
4/17/88	691	5.15	3.25	45.2 IN					
4/17/88	711	6.05	5.88	2.8 Y					
4/17/88	721	7.58	7.10	6.5 Y					
4/17/88	722	7.98	7.85	1.6 Y					
4/17/88	742	5.78	5.72	1.0 Y					
4/17/88	743	6.58	5.30	21.5 Y					
4/17/88	755	4.60	4.80	4.3 Y					
4/17/88	756	5.90	5.60	5.2 Y					
4/18/88	774	5.25	4.73	10.4 Y					
4/18/88	775	5.45	4.78	13.1 Y					
4/18/88	787	7.20	6.55	9.5 Y					
4/18/88	788	7.10	7.00	1.4 Y					
4/18/88	806	6.42	5.45	16.3 Y					
4/18/88	907	6.40	5.90	8.1 Y					
4/18/88	857	>15.2	>15.2	NC					
4/19/88	979	6.60	6.20	6.2 Y					
4/19/88	980	6.68	6.29	6.2 Y					
4/19/88	998	6.42	6.25	2.7 Y					
4/19/88	999	6.95	6.35	9.0 Y					
4/19/88	1017	8.10	7.83	3.4 Y					
4/19/88	1050	8.50	8.10	4.8 Y					
4/19/88	1051	9.50	7.10	28.9 Y					
4/20/88	1069	7.52	7.12	5.5 Y					
4/20/88	1070	7.60	6.48	15.9 Y					
4/20/88	1082	3.40	7.80	7.4 Y					
4/20/88	1083	10.40	8.70	17.8 Y					
4/20/88	1103	5.50	5.80	5.3 Y					
4/20/88	1104	7.30	3.10	10.4 Y					
4/20/88	1191	8.40	10.10	18.4 Y					
4/21/88	1218	9.00	7.90	13.0 Y					
4/21/88	1223	9.20	7.40	21.7 Y					
4/21/88	1273	<2.0	<2.0	NC					
4/21/88	1286	<2.0	<2.0	NC					
4/21/88	1300	<2.0	<2.0	NC					
4/21/88	1321	<2.0	<2.0	NC					
4/22/88	1340	<2.0	<2.0	NC					
4/22/88	1361	1.20	1.20	0.0 Y					
4/22/88	1372	1.40	1.00	33.3 Y					
July 13	1372	9.75	9.75	0.00 Y					

II PRECISION DUPLICATES
 5-DAY BOD II(Accept. Limits: 40 (low level))
 II-----II

DATE SAMPLED	SAMPLE NUMBER	ORG. RESULT	DUP. RESULT	% REL. ERROR	WITHIN LIMITS
July 13	211	5.35	6.97	9.31	Y
July 13	198	3.05	2.00	141.58	IN
July 13	199	3.90	3.40	113.70	Y
July 13	249	1.65	2.15	115.00	Y
July 13	257	5.00	5.30	0.60	Y
July 13	297	4.12	4.22	2.40	Y
July 13	218	2.01	2.35	115.60	Y
July 13	219	3.25	3.40	1.48	Y
July 13	250	1.75	1.65	5.88	Y
July 13	262	3.75	3.00	122.22	Y
July 13	263	3.80	3.00	123.53	Y
July 13	309	5.12	5.08	0.79	Y
July 14	322	7.50	7.48	0.27	Y
July 14	354	7.92	8.00	1.01	Y
July 14	355	4.75	4.50	3.21	Y
July 14	367	5.45	7.38	130.09	Y
July 14	368	3.45	3.30	4.44	Y
July 14	394	4.72	5.38	113.07	Y
July 14	407	4.20	5.60	128.57	Y
July 14	420	2.80	1.70	148.89	IN
July 14	421	2.0	2.00	IN.C.	---
July 14	438	2.10	2.00	IN.C.	---
July 14	439	0.90	0.90	0.00	Y
July 15	471	4.18	2.80	139.54	Y
July 15	472	2.15	2.90	129.70	Y
July 15	486	1.35	1.50	110.53	Y
July 15	487	1.35	1.80	128.57	Y
July 15	509	2.00	2.00	IN.C.	---
July 15	510	2.00	2.00	IN.C.	---
July 15	527	2.00	2.00	IN.C.	---
July 15	528	2.00	1.75	IN.C.	---
July 15	546	1.45	1.45	0.00	Y
July 15	547	1.65	1.75	5.88	Y
July 15	581	2.05	2.20	7.06	Y
July 15	592	1.80	1.70	5.71	Y
July 16	589	9.50	10.30	8.08	Y
July 16	626	5.75	5.40	6.28	Y
July 16	660	5.80	6.05	4.22	Y
July 16	675	9.75	9.85	1.02	Y
July 17	711	3.90	6.47	149.57	IN
July 17	726	4.82	5.75	117.60	Y
July 17	742	11.90	7.57	144.43	IN
July 17	832	2.10	2.30	4.65	Y
July 17	833	1.60	2.20	131.53	Y
July 17	884	2.75	2.20	122.22	Y
July 17	885	3.00	3.35	111.02	Y
July 18	961	2.00	1.80	110.53	Y
July 18	962	2.20	1.20	162.85	IN
July 18	989	1.75	1.20	137.29	Y
July 18	990	1.50	1.40	113.33	Y
July 19	1006	1.20	1.50	122.22	Y

PRECISION DUPLICATES
 5-DAY BOD Accept. Limits: 40 (low level)

DATE SAMPLED	SAMPLE NUMBER	ORG. RESULT	DUP. RESULT	% REL. ERROR	WITHIN LIMITS
July 19	1020	1.80	1.20	140.00	IN
July 19	1037	1.80	1.70	5.71	Y
July 19	1052	9.50	8.93	6.19	Y
July 19	1067	2.00	2.63	127.21	Y
July 19	1088	4.45	5.05	112.63	Y
July 19	1117	7.78	11.10	135.17	Y
July 20	1156	1.80	2.15	117.72	Y
July 20	1157	1.80	3.46	163.12	IN
July 20	1149	6.10	6.25	2.43	Y
July 20	1305	1.80	1.80	0.00	Y
July 20	1306	1.00	2.00	IN.C.	---
July 21	1353	1.00	1.00	0.00	Y
July 22	1460	2.50	2.10	117.39	Y
July 22	1451	2.10	2.20	4.65	Y
July 22	1464	2.40	2.50	4.08	Y
July 22	1435	2.10	2.00	4.88	Y
July 23	1570	3.30	4.00	5.13	Y
July 23	1575	3.95	3.95	0.00	Y
July 23	1618	1.80	1.70	5.71	Y
July 23	1628	2.70	1.80	146.81	IN
July 23	1635	3.90	3.98	2.03	Y
July 23	1659	3.30	3.40	2.99	Y
July 23	1664	4.15	3.80	8.81	Y
July 23	1633	3.90	3.75	3.92	Y
July 23	1622	2.65	4.88	152.52	IN
July 23	1625	2.55	4.12	147.08	IN
July 24	1691	3.00	2.50	113.18	Y
July 24	1692	2.40	2.55	6.06	Y
July 25	1982	1.05	1.10	4.65	Y
July 25	1983	2.00	1.10	IN.C.	---
July 25	2005	2.00	2.00	IN.C.	---
July 26	2027	1.35	1.42	5.05	Y
July 26	2028	1.70	1.50	112.50	Y
July 12	5	3.05	3.30	7.37	Y
July 12	24	4.60	4.90	6.32	Y
July 12	56	2.00	2.00	IN.C.	---
Aug 26	281	3.65	3.85	5.33	Y
Aug 26	282	4.18	4.03	3.65	Y
Aug 26	283	1.30	1.65	123.73	Y
Aug 26	284	2.25	2.28	1.32	Y
Aug 26	215	0.85	1.70	166.67	IN
Aug 26	316	1.70	1.40	119.35	Y
Aug 26	335	1.65	1.65	0.00	Y
Aug 26	336	2.15	1.85	115.00	Y
Aug 26	302	1.90	2.10	110.00	Y
Aug 26	303	1.75	2.10	118.18	Y
Aug 26	352	2.05	2.45	117.78	Y
Aug 26	353	2.52	2.70	6.90	Y
Aug 26	365	3.48	3.52	1.14	Y
Aug 26	366	2.80	2.60	7.41	Y
Aug 26	332	1.72	1.55	110.40	Y

PRECISION DUPLICATES
 5-DAY BOD (Accept. Limits: 40 (low level))

DATE SAMPLED	SAMPLE NUMBER	ORG. RESULT	DUP. RESULT	% REL. ERROR	WITHIN LIMITS
Aug 26	383	1.95	1.75	5.56	Y
Aug 28	585	3.90	3.86	1.03	Y
Aug 28	586	4.30	4.00	7.23	Y
Aug 28	621	2.70	2.75	1.85	Y
Aug 28	622	2.95	3.25	9.68	Y
Aug 28	629	2.80	2.65	5.50	Y
Aug 28	630	2.35	2.95	22.64	Y
Aug 28	646	0.95	0.85	11.11	Y
Aug 28	655	3.05	3.25	6.35	Y
Aug 28	656	2.75	3.00	1.68	Y
Aug 29	659	0.65	0.45	36.36	Y
Aug 29	672	0.70	0.90	25.00	Y
Aug 28	674	1.50	1.50	0.00	Y
Aug 25	147	7.88	7.63	3.22	Y
Aug 25	167	5.93	5.83	1.70	Y
Aug 25	215	6.08	6.73	10.16	Y
Aug 29	731	0.82	0.80	2.47	Y
Aug 29	752	2.30	2.60	12.24	Y
Aug 29	765	1.65	1.65	0.00	Y
Aug 29	779	4.76	5.00	4.92	Y
Aug 29	784	4.60	4.62	0.43	Y
Aug 29	789	3.25	3.50	7.41	Y
Aug 27	422	3.15	3.05	3.23	Y
Aug 27	436	2.09	2.10	0.48	Y
Aug 27	452	2.10	2.00	4.68	Y
Aug 27	464	1.22	1.35	10.12	Y
Aug 27	475	0.75	0.90	18.18	Y
Aug 27	523	2.65	2.40	9.90	Y
Aug 27	524	3.12	3.15	0.96	Y
Aug 27	550	2.80	3.10	10.17	Y
Aug 27	551	3.48	3.35	3.81	Y
Aug 24	76	3.85	4.50	15.57	Y
Aug 24	113	6.30	7.40	16.06	Y
Aug 28	602	2.75	2.80	1.80	Y
Aug 28	603	2.35	2.35	19.23	Y
11/08/88	10	10.20	8.85	14.17	Y
11/07/88	19	3.10	3.00	3.22	Y
11/09/88	61	4.67	3.55	27.25	Y
11/09/88	62	5.57	5.07	9.40	Y
11/09/88	63	3.20	2.60	20.69	Y
11/09/88	65	3.75	3.42	9.21	Y
11/09/88	64	2.78	2.75	8.03	Y
11/09/88	66	5.38	4.05	28.21	Y
11/09/88	67	4.48	3.52	24.00	Y
11/09/88	68	4.08	3.70	9.77	Y
11/09/88	89	2.90	2.70	7.14	Y
11/11/88	122	1.70	1.40	19.35	Y
11/11/88	123	2.00	2.00	N.C.	Y
11/11/88	124	2.00	2.00	N.C.	Y
11/11/88	157	2.30	2.30	0.00	Y
11/11/88	158	2.90	2.40	13.87	Y

PRECISION DUPLICATES
 5-DAY BOD Accept. Limits: 40 (low level)

DATE	SAMPLE	ORG.	DUP.	% REL.	WITHIN
SAMPLED	NUMBER	RESULT	RESULT	ERROR	LIMITS
11/11/88	159	2.88	2.80	2.82	Y
11/12/88	234	2.30	2.10	9.09	Y
11/12/88	242	3.08	2.70	13.15	Y
11/12/88	243	4.62	4.25	8.34	Y
11/12/88	240	1.50	1.40	6.90	Y
11/12/88	251	1.70	1.60	6.06	Y
11/12/88	252	2.00	2.00	0.00	Y
11/12/88	253	3.40	3.25	4.51	Y
11/12/88	273	2.95	2.90	1.71	Y
11/12/88	274	7.83	3.30	181.93	IN
11/12/88	280	2.00	1.60	22.22	Y
11/12/88	291	1.30	1.20	8.00	Y
11/12/88	232	1.60	1.20	28.57	Y

STC LABORATORY QUALITY CONTROL REPORT

CUSTOMER: Clinton Bogart
 PARAMETER: 5-DAY BOD
 UNITS: mg/l

JOB#: Hackensack River Study
 SAMPLING EVENT: Apr,Jul,Aug,Oct,Nov

MATRIX SPIKES

Accept. Limits: 60 - 140

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||NOTES:

||A = not enough sample for spike

||B = spike not added

||C = spike too high (>222)

DATE	SAMPLE	AVG.	SPIKE	%	WITHIN	
SAMPLED	NUMBER	RESULT	ADDED	REC.	LIMITS	
4/12/88	13	2.0	2.00	140.0	Y	
4/12/88	20	2.90	2.00	172.0	IN	
4/12/88	43	2.0	2.00	145.0	IN	
4/12/88	66	2.0	2.00	95.0	Y	
4/12/88	71	0.60	2.00	90.0	Y	
4/13/88	90	1.48	2.00	93.0	Y	
4/13/88	112	1.48	2.00	86.0	Y	
4/13/88	138	2.00	2.00	100.0	Y	
4/13/88	139	2.65	2.00	65.0	Y	
4/13/88	157	2.25	2.00	31.0	IN	
4/13/88	158	0.70	2.00	95.0	Y	
4/13/88	175	4.12	2.00	84.0	Y	
4/13/88	176	3.50	2.00	118.0	Y	
4/13/88	195	1.82	2.00	104.0	Y	
4/13/88	196	2.32	2.00	61.0	Y	
4/13/88	208	1.15	2.00	98.0	Y	
4/13/88	209	1.10	2.00	80.0	Y	
4/14/88	228	2.52	2.00	112.0	Y	
4/14/88	229	3.33	2.00	99.0	Y	
4/14/88	241	2.98	2.00	99.0	Y	
4/14/88	242	3.48	2.00	86.0	Y	
4/14/88	260	1.30	2.00	78.0	Y	
4/14/88	269	2.20	2.00	93.0	Y	
4/14/88	290	6.00	4.00	102.0	Y	
4/14/88	305	2.12	2.00	90.0	Y	
4/14/88	319	2.0	2.00	104.0	Y	
4/14/88	338	2.0	2.00	95.0	Y	
4/15/88	364	2.02	2.00	102.0	Y	
4/15/88	377	2.0	2.00	67.0	Y	
4/15/88	396	1.22	2.00	115.0	Y	
4/15/88	402	3.8E	2.00	106.0	Y	
4/15/88	403	3.42	2.00	114.0	Y	
4/15/88	427	4.12	2.00	94.0	Y	
4/15/88	428	4.62	2.00	138.0	Y	
4/15/88	442	6.08	2.00	---	---	
4/15/88	443	5.40	4.00	38.0	Y	
4/15/88	461	7.10	4.00	93.0	Y	
4/15/88	462	7.10	4.00	96.0	Y	
4/15/88	474	3.32	2.00	121.0	Y	
4/15/88	494	5.10	4.00	95.0	Y	
4/16/88	514	4.35	4.00	85.0	Y	
4/16/88	545	3.57	4.00	108.0	Y	
4/16/88	558	6.88	4.00	73.0	Y	

5-DAY BOD || MATRIX SPIKES ||
 ||Accept. Limits: 60 - 140 ||

DATE	SAMPLE	AVG.	SPIKE	%	WITHIN
SAMPLED	NUMBER	RESULT	ADDED	REC.	LIMITS
4/16/88	585	6.58	4.00	103.0	Y
4/16/88	614	9.50	4.00	93.0	Y
4/16/88	619	5.50	2.00	98.0	Y
4/17/88	638	4.75	2.00	78.0	Y
4/17/88	667	5.90	4.00	90.0	Y
4/17/88	690	6.30	4.00	53.0	IN
4/17/88	691	4.20	2.00	125.0	Y
4/17/88	711	6.05	4.00	104.0	Y
4/17/88	721	7.34	1B		---
4/17/88	722	7.98	4.00	98.0	Y
4/17/88	742	5.90	4.00	78.0	Y
4/17/88	743	5.35	4.00	125	Y
4/17/88	755	8.40	4.00	93.0	Y
4/17/88	756	8.40	4.00	66.0	Y
4/18/88	774	4.90	2.00	75.0	Y
4/18/88	775	4.78	2.00	126	Y
4/18/88	787	7.75	4.00	74.0	Y
4/18/88	788	7.05	4.00	109	Y
4/18/88	806	6.10	4.00	68.0	Y
4/18/88	807	6.45	4.00	53.0	IN
4/18/88	827	12.80	1E		---
4/18/88	857	>15.2	1D		---
4/18/88	892	15.2	1D		---
4/18/88	905	14.6	1D		---
4/19/88	935	13.4	1D		---
4/19/88	940	16.55	--	--	---
4/19/88	952	14.65	1E		---
4/19/88	979	6.40	4.00	83.0	Y
4/19/88	980	7.00	4.00	100	Y
4/19/88	993	7.00	4.00	70.0	Y
4/19/88	999	7.30	4.00	45.0	IN
4/19/88	1017	8.90	4.00	70.0	Y
4/19/88	1018	10.40	4.00	93.0	Y
4/19/88	1037	12.8	1E		---
4/19/88	1038	10.55	1E		---
4/19/88	1050	8.30	4.00	70.0	Y
4/19/88	1051	8.30	4.00	73.0	Y
4/20/88	1069	6.16	4.00	98.0	Y
4/20/88	1070	7.25	4.00	76.0	Y
4/20/88	1082	8.10	4.00	98.0	Y
4/20/88	1083	9.55	4.00	56.0	IN
4/20/88	1103	--	--	--	---
4/20/88	1104	10.20	4.00	63.0	Y
4/20/88	1105	11.20	2.00	110	Y
4/20/88	1145	10.00	2.00	170	IN
4/20/88	1159	11.40	2.00	150	IN
4/20/88	1178	12.40	2.00	160	IN
4/20/88	1191	9.25	4.00	51.0	IN
4/21/88	1219	9.25	4.00	51.0	IN
4/21/88	1223	10.60	4.00	58.0	IN
4/21/88	1273	12.0	2.00	125	Y

MATRIX SPIKES						
5-DAY BOD						
Accept. Limits: 60 - 140						
DATE	SAMPLE	AVG.	SPIKE	%	WITHIN	
SAMPLED	NUMBER	RESULT	ADDED	REC.	LIMITS	
4/21/88	1286	2.0	2.00	110	Y	
4/21/88	1300	2.0	2.00	120	Y	
4/21/88	1321	2.0	2.00	100	Y	
4/22/88	1340	2.0	2.00	145	IN	
4/22/88	1361	2.15	4.00	54.0	IN	
4/22/88	1372	1.90	4.00	43.0	IN	
July 13	192	9.75	6.00	120.0	Y	
July 13	211	6.66	4.00	87.5	Y	
July 13	198	2.53	2.00	72.5	Y	
July 13	199	3.65	6.00	157.0	IN	
July 13	249	2.00	2.00	122.0	Y	
July 13	257	5.00	4.00	120.0	Y	
July 13	297	4.17	2.00	115.0	Y	
July 13	218	2.18	2.00	92.5	Y	
July 13	219	3.38	2.00	100.0	Y	
July 13	250	1.70	2.00	90.0	Y	
July 13	252	3.38	2.00	5.0	IN	
July 13	253	3.40	2.00	85.0	Y	
July 13	309	5.10	4.00	85.0	Y	
July 14	322	7.49	4.00	85.0	Y	
July 14	354	7.96	4.00	112.0	Y	
July 14	355	4.68	4.00	80.0	Y	
July 14	367	6.42	4.00	115.0	Y	
July 14	369	3.38	2.00	138.0	Y	
July 14	374	5.05	2.00	75.0	Y	
July 14	407	4.90	2.00	108.0	Y	
July 14	420	2.25	2.00	62.5	Y	
July 14	421	0.00	4.00	>100	IN	
July 14	438	1.05	4.00	>65	IN	
July 14	439	0.90	2.00	>100	IN	
July 15	471	3.49	2.00	<12.5	IN	
July 15	472	2.53	2.00	35.0	IN	
July 15	486	1.43	2.00	50.0	IN	
July 15	487	1.58	2.00	30.0	IN	
July 15	507	0.00	2.00	>10	IN	
July 15	510	0.00	2.00	>10	IN	
July 15	527	0.00	2.00	>10	IN	
July 15	528	0.88	2.00	>20	IN	
July 15	546	1.45	2.00	12.50	IN	
July 15	547	1.70	2.00	>10	IN	
July 15	581	2.13	2.00	17.50	IN	
July 15	582	1.75	2.00	17.50	IN	
July 16	587	9.90	4.00	132.00	Y	
July 16	626	5.58	4.00	100.00	Y	
July 16	660	5.93	2.00	>25	IN	
July 16	675	9.80	12.00	105.00	Y	
July 17	711	5.19	4.00	109.00	Y	
July 17	722	3.29	4.00	87.50	Y	
July 17	742	9.74	6.00	60.00	Y	
July 17	832	2.15	4.00	40.00	IN	
July 17	833	1.50	2.00	50.00	IN	

5-DAY BOD MATRIX SPIKES
 Accept. Limits: 60 - 140

DATE SAMPLED	SAMPLE NUMBER	AVG. RESULT	SPIKE ADDED	% REC.	WITHIN LIMITS
July 17	884	2.48	2.00	5.00	IN
July 17	885	3.18	4.00	2.50	IN
July 18	961	1.90	2.00	5.00	IN
July 18	962	1.75	2.00	32.50	IN
July 18	989	1.48	2.00	27.50	IN
July 18	990	1.50	2.00	57.50	IN
July 19	1006	1.35	2.00	87.50	Y
July 19	1020	1.50	2.00	10.00	IN
July 19	1039	1.75	2.00	17.50	IN
July 19	1052	9.22	4.00	57.50	IN
July 19	1067	2.32	2.00	25.00	IN
July 19	1088	4.75	2.00	50.00	IN
July 19	1117	9.44	12.00	95.00	Y
July 20	1156	1.93	2.00	87.50	Y
July 20	1157	2.63	2.00	102.00	Y
July 20	1149	6.18	2.00	95.00	Y
July 20	1305	1.30	4.00	77.50	Y
July 20	1306	1.00	4.00	>100	IN
July 21	1363	1.00	2.00	75.00	Y
July 22	1460	2.30	4.00	97.50	Y
July 22	1461	2.15	4.00	92.50	Y
July 22	1484	2.45	4.00	55.00	IN
July 22	1485	2.05	2.00	112.00	Y
July 23	1570	3.90	2.00	5.00	IN
July 23	1575	3.95	4.00	71.20	Y
July 23	1518	1.75	1A		---
July 23	1627	14.60	1B		---
July 23	1628	2.35	2.00	40.00	IN
July 23	1635	3.94	4.00	70.00	Y
July 23	1659	3.35	2.00	25.00	IN
July 23	1664	3.98	4.00	80.00	Y
July 23	1683	3.83	1A		---
July 23	1622	3.87	2.00	145.00	IN
July 23	1623	3.34	2.00	85.00	Y
July 24	1691	2.75	2.00	70.00	Y
July 24	1692	2.48	2.00	97.50	Y
July 25	1982	1.08	2.00	72.50	Y
July 25	1993	0.55	2.00	25.00	IN
July 25	2005	0.00	2.00	>100	IN
July 26	2027	1.39	2.00	100.00	Y
July 26	2028	1.60	2.00	50.00	IN
July 12	5	3.13	2.00	118.00	Y
July 12	24	4.75	2.00	22.50	IN
July 12	56	0.00	2.00	90.00	Y
July 12	135	71.70	60.00	80.00	Y
July 12	145	82.95	60.00	77.50	Y
July 12	155	159.00	1C		---
July 12	160	16.40	6.00	125.00	Y
July 12	88	35.20	12.00	70.00	Y
July 12	89	35.55	1A		---
July 12	97	32.25	24.00	133.00	Y

MATRIX SPIKES						
5-DAY BOD						
Accept. Limits: 60 - 140						
DATE	SAMPLE	AVG.	SPIKE	%	WITHIN	
SAMPLED	NUMBER	RESULT	ADDED	REC.	LIMITS	
July 12	106	138.00	60.00	55.00	N	
July 12	115	147.00	60.00	135.00	Y	
July 12	125	19.35	6.00	80.00	Y	
Aug 26	281	3.75	7.30	88.80	Y	
Aug 26	282	4.11	5.80	85.00	Y	
Aug 26	283	1.48	4.05	129.00	Y	
Aug 26	284	2.27	4.50	112.00	Y	
Aug 26	315	1.28	3.25	99.00	Y	
Aug 26	316	1.55	3.55	100.00	Y	
Aug 26	335	1.65	3.65	100.00	Y	
Aug 26	336	2.00	5.50	90.00	Y	
Aug 26	302	2.00	3.80	85.00	Y	
Aug 26	303	1.93	3.60	84.00	Y	
Aug 26	352	2.25	4.40	108.00	Y	
Aug 26	353	2.61	4.35	90.00	Y	
Aug 26	365	3.50	7.30	95.00	Y	
Aug 26	366	2.70	5.00	115.00	Y	
Aug 26	382	1.64	3.50	93.00	Y	
Aug 26	383	1.80	3.70	95.00	Y	
Aug 28	585	3.88	5.35	74.00	Y	
Aug 28	586	4.15	7.10	74.00	Y	
Aug 28	621	2.73	4.60	74.00	Y	
Aug 28	622	3.10	4.80	85.00	Y	
Aug 28	629	2.73	4.25	76.50	Y	
Aug 28	630	2.65	6.20	89.00	Y	
Aug 28	646	0.90	4.50	89.00	Y	
Aug 28	655	3.15	4.50	72.00	Y	
Aug 28	656	2.98	4.75	88.50	Y	
Aug 29	659	0.55	4.10	88.80	Y	
Aug 29	672	0.80	3.00	110.00	Y	
Aug 29	674	1.50	3.40	95.00	Y	
Aug 29	147	7.76	11.30	88.00	Y	
Aug 29	167	5.88	9.30	86.00	Y	
Aug 29	215	6.40	6.90	12.50	N	
Aug 29	731	0.81	4.70	97.20	Y	
Aug 29	752	2.45	4.45	100.00	Y	
Aug 29	765	1.65	3.70	102.00	Y	
Aug 29	779	4.88	7.15	114.00	Y	
Aug 29	784	4.61	9.10	112.00	Y	
Aug 29	789	3.38	5.40	101.00	Y	
Aug 27	422	3.10	5.00	95.00	Y	
Aug 27	436	2.10	3.50	70.20	Y	
Aug 27	452	2.05	3.80	88.00	Y	
Aug 27	464	1.29	6.30	126.00	Y	
Aug 27	475	0.83	5.10	71.30	Y	
Aug 27	523	2.53	4.45	96.00	Y	
Aug 27	524	3.14	6.40	92.00	Y	
Aug 27	550	2.95	4.90	97.50	Y	
Aug 27	551	3.42	7.30	97.00	Y	
Aug 24	76	4.18	9.30	128.00	Y	
Aug 24	113	6.35	14		---	

5-DAY BOD MATRIX SPIKES
 Accept. Limits: 60 - 140

DATE SAMPLED	SAMPLE NUMBER	AVG. RESULT	SPIKE ADDED	% REC.	WITHIN LIMITS
Aug 28	602	2.78	4.15	68.50	Y
Aug 28	603	2.60	6.30	92.50	Y
10/17/88	21	135.00	1198.00	1105.00	Y
10/17/88	10	115.85	1186.00	1117.00	Y
10/18/88	46	72.50	1132.00	92.00	Y
10/18/88	52	121.50	1133.00	1102.00	Y
10/18/88	62	210.75	1420.00	1174.00	IN
10/19/88	72	169.50	1276.00	89.00	Y
10/19/88	32	69.40	91.20	95.00	Y
10/19/88	92	18.68	31.80	1107.00	Y
10/19/88	102	108.00	1210.00	85.00	Y
10/20/88	112	75.95	1132.00	92.00	Y
10/20/88	122	219.00	1318.00	82.00	Y
10/20/88	134	35.55	56.40	86.70	Y
10/20/88	144	97.60	60.00	1107.00	Y
10/21/88	172	115.50	1174.00	97.50	Y
10/21/88	180	159.10	1270.00	92.40	Y
10/21/88	193	36.25	52.30	69.00	Y
10/21/88	152	95.40	1132.00	61.00	Y
10/21/88	162	99.00	1105.00	10.00	IN
10/21/88	208	104.50	1162.00	97.50	Y
10/21/88	220	23.88	84.00	1100.00	Y
11/08/88	10	9.53	4.00	1107.00	Y
11/09/88	19	3.05	2.00	86.30	Y
11/09/88	61	4.11	2.00	85.00	Y
11/09/88	62	5.32	3.00	1115.00	Y
11/09/88	63	2.90	2.00	80.00	Y
11/09/88	65	3.59	2.00	70.00	Y
11/09/88	64	2.87	2.00	65.00	Y
11/09/88	66	4.72	3.00	97.50	Y
11/09/88	67	4.00	2.00	92.50	Y
11/09/88	68	3.69	2.00	72.50	Y
11/09/88	85	13.35	6.00	1104.00	Y
11/09/88	89	2.80	2.00	60.00	Y
11/09/88	101	11.50	3.00	88.20	Y
11/11/88	122	1.55	3.00	85.00	Y
11/11/88	123	0.00	2.00	1130.00	Y
11/11/88	124	0.00	2.00	1110.00	Y
11/11/88	157	2.30	2.00	1150.00	IN
11/11/88	158	2.65	2.00	86.70	Y
11/11/88	159	2.84	2.00	98.00	Y
11/12/88	234	2.20	2.00	1150.00	IN
11/12/88	242	2.89	2.00	1142.00	IN
11/12/88	243	4.44	2.00	89.70	Y
11/12/88	240	1.45	2.00	1128.00	Y
11/12/88	251	1.55	2.00	1125.00	Y
11/12/88	252	2.00	2.00	1125.00	Y
11/12/88	253	3.33	2.00	1153.00	IN
11/12/88	273	2.53	2.00	1110.00	Y
11/12/88	274	5.59	2.00	1115.00	Y
11/12/88	280	1.80	2.00	1115.00	Y

MATRIX SPIKES						
5-DAY BOD						
Accept. Limits: 60 - 140						
DATE	SAMPLE	AVG.	SPIKE	%	WITHIN	
SAMPLED	NUMBER	RESULT	ADDED	REC.	LIMITS	
11/12/88	291	1.25	2.00	132.00	Y	
11/12/88	282	1.40	2.00	120.00	Y	

Section 3
Quality Control Data
Hackensack River Study
20-day BOD Analysis

----- GTC LABORATORY QUALITY CONTROL REPORT -----

CUSTOMER: Clinton Bogart

JOB#: Hackensack River Study

PARAMETER: 20-DAY CBOD

SAMPLING EVENT: APRIL, JULY, AUGUST

UNITS: mg/l

PRECISION DUPLICATES

MATRIX SPIKES

Accept. Limits: 24

Accept. Limits: 52 - 131

DATE	SAMPLE	ORG.	DUP.	% REL.	WITHIN	AVG.	SPIKE	%	WITHIN
SAMPLED	NUMBER	RESULT	RESULT	ERROR	LIMITS	RESULT	ADDED	REC.	LIMITS
4/13/88	139	3.45	3.45	0.00	Y	--	--	--	--
4/13/88	138	3.15	2.55	21.1	Y	--	--	--	--
4/14/88	290	2.80	3.60	25.0	IN	--	--	--	--
4/16/88	514	9.60	10.30	7.04	Y	--	--	--	--
4/17/88	755	10.50	11.50	9.09	Y	--	--	--	--
4/17/88	756	13.50	13.30	1.49	Y	--	--	--	--
4/19/88	940	33.00	32.90	0.303	Y	--	--	--	--
4/20/88	1104	13.20	15.40	15.4	Y	--	--	--	--
4/21/88	1223	20.10	15.50	25.8	IN	--	--	--	--
4/22/88	1361	2.00	2.90	36.7	IN	--	--	--	--
4/22/88	1372	2.40	2.10	13.3	Y	--	--	--	--
July 13	225	4.20	4.30	2.35	Y	4.25	2.95	173.80	Y
July 14	335	7.60	7.50	1.32	Y	7.55	7.80	5.20	IN
July 15	451	2.50	2.70	7.69	Y	2.60	4.60	150.00	IN
July 15	452	0.40	0.50	22.22	Y	0.45	4.40	195.00	Y
July 16	605	5.05	7.15	34.43	IN	6.10	8.70	155.00	Y
July 17	699	4.60	2.55	57.34	IN	3.58	15.30	197.80	Y
July 18	858	2.30	2.10	9.09	Y	2.20	5.00	170.00	Y
July 20	1136	10.50	8.70	18.75	Y	9.60	20.70	193.90	Y
July 21	1341	3.70	4.00	7.79	Y	3.85	6.40	163.80	Y
July 22	1436	4.80	5.40	11.76	Y	5.10	14.40	177.50	Y
July 23	1586	3.60	4.10	12.99	Y	3.85	6.60	168.80	Y
Aug 24	5	11.70	9.90	16.67	Y	10.80	24.30	112	Y
Aug 25	132	7.43	7.40	0.40	Y	7.42	11.80	110	Y
Aug 26	251	1.63	2.30	34.10	IN	1.97	5.20	181.00	Y
Aug 27	394	3.00	3.30	9.52	Y	3.15	13.50	186.20	Y
Aug 28	563	2.40	3.00	22.22	Y	2.70	5.70	100	Y
Aug 29	711	1.30	1.60	20.69	Y	1.45	5.50	101	Y

Section 4

Quality Control Data
Hackensack River Study
Chlorophyll-a Analysis

GTC LABORATORY QUALITY CONTROL REPORT

CUSTOMER: Clinton Bogart JOB#: Hackensack River Study
 PARAMETER: CHLOROPHYLL-a SAMPLING EVENT: Apr, July, Aug, Nov
 UNITS: mg/l

PRECISION DUPLICATES

Accept. Limits: 70

DATE OF SAMPLE ORG. DUP. % REL. WITHIN
 ANALYSIS NUMBER RESULT RESULT ERROR LIMITS

4/12/88	13	12.3	10.8	13.0	Y
4/12/88	20	106.1	67.8	44.0	Y
4/12/88	43	20.3	18.3	10.4	Y
4/12/88	66	6.9	3.3	70.0	N
4/12/88	71	2.8	1.6	56.9	Y
4/13/88	90	<2.13	<2.61	N.C.	---
4/13/88	112	<2.22	<2.30	N.C.	---
4/13/88	137	17.9	16.2	10.0	Y
4/13/88	138	7.5	7.1	5.32	Y
4/13/88	157	53.0	49.0	7.34	Y
4/13/88	158	15.9	14.9	6.18	Y
4/13/88	175	<2.29	<1.76	N.C.	---
4/13/88	176	13.8	12.0	14.0	Y
4/13/88	195	3.9	2.3	49.0	Y
4/13/88	196	0.3	4.1	174	N
4/13/88	208	2.5	<1.63	N.C.	---
4/13/88	209	7.3	7.1	3.47	Y
4/14/88	228	11.9	10.4	13.5	Y
4/14/88	229	57.7	52.6	9.25	Y
4/14/88	241	19.7	17.3	2.05	Y
4/14/88	242	11.9	7.7	42.9	Y
4/14/88	250	15.0	5.6	91.3	N
4/14/88	269	12.6	9.8	35.5	Y
4/14/88	290	9.5	8.7	3.79	Y
4/14/88	305	2.7	2.2	22.2	Y
4/14/88	319	3.3	<2.8	N.C.	---
4/14/88	333	11.0	11.3	7.02	Y
4/15/88	364	5.8	<2.2	N.C.	---
4/15/88	377	6.2	<2.5	N.C.	---
4/15/88	396	9.2	8.6	6.74	Y
4/15/88	403	37.1	30.3	20.2	Y
4/15/88	408	8.5	9.0	6.06	Y
4/15/88	427	9.0	7.8	14.8	Y
4/15/88	429	49.1	27.7	55.7	Y
4/15/88	442	78.6	11.3	150	N
4/15/88	443	63.1	59.0	6.72	Y
4/15/88	461	81.0	39.8	58.2	Y
4/15/88	462	11.4	10.1	12.1	Y
4/15/88	474	44.3	40.4	9.21	Y
4/15/88	475	33.6	37.2	1.54	Y
4/15/88	493	55.5	51.2	8.06	Y
4/15/88	494	29.8	22.6	27.5	Y
4/16/88	514	10.6	4.4	82.7	N

CHLOROPHYLL-a II PRECISION DUPLICATES
 II Accept. Limits: 70

DATE OF SAMPLE ANALYSIS NUMBER	ORIG. RESULT	DUP. RESULT	% REL. ERROR	WITHIN LIMITS
4/16/88	515	23.3	17.2	30.1 Y
4/16/88	537	19.9	11.5	53.5 Y
4/16/88	538	51.8	45.2	13.6 Y
4/16/88	545	6.1	2.00	N.C. ---
4/16/88	558	4.2	2.2	63.1 Y
4/16/88	585	28.2	33.8	18.1 Y
4/16/88	614	5.1	4.3	16.8 Y
4/16/88	619	5.5	4.5	20.9 Y
4/17/88	651	3.0	1.9	43.8 Y
4/17/88	667	2.3	2.2	3.13 Y
4/17/88	690	55.6	53.6	3.66 Y
4/17/88	691	43.5	35.1	21.4 Y
4/17/88	710	73.4	67.6	8.23 Y
4/17/88	711	78.3	46.9	50.2 Y
4/17/88	721	84.8	65.4	25.8 Y
4/17/88	722	112.0	55.2	67.9 Y
4/17/88	742	49.2	48.2	2.05 Y
4/17/88	743	67.4	56.4	17.8 Y
4/17/88	755	73.8	58.0	24.0 Y
4/17/88	756	58.5	54.5	7.08 Y
4/18/88	774	41.0	10.5	118 IN
4/18/88	775	43.3	23.3	56.1 Y
4/18/88	787	60.4	37.2	47.5 Y
4/18/88	788	51.7	44.4	15.2 Y
4/18/88	906	279.0	139.0	67.0 Y
4/18/88	807	50.2	39.7	23.4 Y
4/18/88	813	326.0	96.4	199 IN
4/18/88	827	277.0	155.0	56.5 Y
4/18/88	857	311.0	291.0	10.1 Y
4/18/88	892	263.0	222.0	16.9 Y
4/18/88	905	262.0	240.0	0.766 Y
4/19/88	935	277.0	46.3	143 IN
4/19/88	940	47.0	32.6	36.2 Y
4/19/88	952	359.0	242.0	38.9 Y
4/19/88	979	124.0	63.2	65.0 Y
4/19/88	980	44.0	33.3	27.7 Y
4/19/88	998	60.0	47.7	22.8 Y
4/19/88	999	63.5	54.4	15.4 Y
4/19/88	1017	88.2	87.4	0.711 Y
4/19/88	1018	82.0	63.3	1.57 Y
4/19/88	1037	71.2	71.2	0.00 Y
4/19/88	1038	97.6	63.2	42.8 Y
4/19/88	1050	126.2	73.7	52.5 Y
4/20/88	1069	40.4	39.7	1.75 Y
4/20/88	1070	18.1	17.9	1.11 Y
4/20/88	1082	50.5	50.1	0.795 Y
4/20/88	1083	55.7	19.2	97.5 IN
4/20/88	1103	115.0	98.5	15.4 Y
4/20/88	1104	323.0	102.0	104 IN
4/20/88	1105	232.0	225.0	2.62 Y
4/20/88	1145	115.0	107.0	7.21 Y

PRECISION DUPLICATES
CHLOROPHYLL-a Accept. Limits: 70

DATE OF SAMPLE ORG. DUP. % REL. WITHIN
ANALYSIS NUMBER RESULT RESULT ERROR LIMITS

DATE OF SAMPLE	ORG.	DUP.	% REL.	WITHIN
ANALYSIS NUMBER	RESULT	RESULT	ERROR	LIMITS
4/20/88	1159	241.0	163.0	38.6 Y
4/20/88	1178	165.0	152.0	8.20 Y
4/20/88	1191	35.6	32.9	7.88 Y
4/21/88	1218	128.0	47.2	92.2 IN
4/21/88	1223	208.0	174.0	17.8 Y
4/21/88	1244	23.8	13.1	58.0 Y
4/21/88	1273	5.4	3.0	58.4 Y
4/21/88	1286	46.0	8.6	137 IN
4/21/88	1300	6.5	4.0	48.8 Y
4/21/88	1321	2.2	2.2	N.C. ---
4/22/88	1340	8.1	8.2	1.23 Y
4/22/88	1361	40.5	40.5	0.00 Y
4/22/88	1372	14.0	2.0	150 IN
7/16/88	5	10.14	7.30	32.57 Y
7/16/88	24	3.98	4.33	15.10 Y
7/16/88	37	2.37	4.74	N.C. ---
7/16/88	56	2.98	2.25	N.C. ---
7/16/88	86	2.90	7.28	60.47 Y
7/16/88	159	88.71	62.30	34.98 Y
7/16/88	160	1.87	1.87	N.C. ---
7/17/88	218	3.71	1.91	N.C. ---
7/17/88	225	9.26	4.20	75.19 IN
7/17/88	226	11.79	7.96	38.78 Y
7/17/88	249	6.46	5.48	16.42 Y
7/17/88	250	8.99	10.35	14.06 Y
7/17/88	252	10.44	12.75	19.92 Y
7/17/88	253	14.36	2.98	N.C. ---
7/17/88	297	50.06	123.31	94.50 IN
7/17/88	309	56.21	63.55	12.25 Y
7/17/88	322	69.54	96.92	32.90 Y
7/17/88	335	65.31	90.78	32.64 Y
7/17/88	354	64.08	42.90	39.60 Y
7/17/88	367	71.30	61.41	14.90 Y
7/17/88	407	134.95	88.59	70.45 IN
7/17/88	420	2.04	3.41	N.C. ---
7/17/88	421	2.03	4.74	N.C. ---
7/17/88	438	1.93	1.61	N.C. ---
7/17/88	439	1.66	0.09	N.C. ---
7/17/88	451	53.13	141.67	90.90 IN
7/17/88	452	3.93	5.56	34.35 Y
7/25/88	547	5.42	6.57	19.18 Y
7/25/88	562	3.12	16.43	135.99 IN
7/25/88	509	0.08	4.10	192.34 N
7/19/88	471	8.57	5.34	46.44 Y
7/23/88	490	33.42	95.86	97.39 IN
7/23/88	510	4.36	3.47	22.73 Y
7/24/88	527	9.98	5.50	57.63 Y
7/24/88	528	8.20	28.65	110.39 IN
7/24/88	561	4.45	4.61	3.53 Y
7/25/88	562	3.13	16.43	135.99 IN
7/24/88	581	4.82	2.03	N.C. ---

CHLOROPHYLL-a II PRECISION DUPLICATES
 II Accept. Limits: 70

DATE OF ANALYSIS	SAMPLE NUMBER	ORG.	DUP.	1% REL.	WITHIN
		RESULT	RESULT	ERROR	LIMITS

7/24/88	589	149.02	1596.30	1120.02	IN
7/24/88	486	6.82	14.24	70.47	IN
7/24/88	547	5.42	6.57	19.18	Y
7/24/88	675	117.91	1137.31	15.20	Y
7/24/88	582	2.55	6.34	IN.C.	---
7/24/88	626	142.68	99.22	35.93	Y
7/24/88	631	3.76	9.23	84.22	IN
7/24/88	633	5.43	4.19	25.78	Y
7/24/88	640	55.07	1162.80	98.89	IN
7/25/88	605	175.69	1351.41	66.67	Y
7/25/88	660	132.91	1400.50	1100.33	IN
7/25/88	711	479.30	1350.47	31.05	Y
9/28/88	132	111.00	81.90	30.17	Y
9/29/88	147	90.45	1134.00	38.81	Y
9/29/88	167	91.80	1118.00	24.98	Y
9/29/88	251	5.68	1.65	1109.96	IN
9/23/88	281	41.60	23.10	57.19	Y
9/23/88	282	46.20	38.90	17.16	Y
9/23/88	283	15.30	4.05	1116.28	IN
9/23/88	302	10.30	9.88	4.16	Y
9/23/88	303	8.34	6.02	32.31	Y
9/29/88	315	7.81	4.75	48.73	Y
9/29/88	316	12.30	7.07	54.00	Y
9/27/88	335	21.10	3.09	1148.90	IN
9/29/88	335	9.86	0.00	1200.00	IN
9/29/88	353	15.80	10.20	43.08	Y
9/29/88	365	16.37	8.94	58.71	Y
9/29/88	366	4.65	2.10	75.56	IN
9/23/88	382	6.30	3.88	47.54	Y
9/23/88	383	3.92	3.02	25.94	Y
9/24/88	422	56.80	12.70	1126.91	IN
9/24/88	436	12.70	6.64	62.67	Y
9/24/88	452	13.20	12.80	3.08	Y
9/26/88	475	18.80	4.90	1117.30	IN
9/26/88	523	10.20	8.69	15.99	Y
9/26/88	524	11.60	4.35	90.91	IN
9/26/88	550	2.04	1.94	5.03	Y
9/26/88	551	2.92	2.02	36.44	Y
9/26/88	563	4.38	0.00	1200.00	IN
9/26/88	564	7.63	1.76	1125.03	IN
9/26/88	585	31.60	1.93	1176.78	IN
9/26/88	596	47.00	22.20	71.68	IN
9/26/88	602	14.90	12.10	20.74	Y
9/26/88	603	15.50	14.40	7.36	Y
9/26/88	621	20.40	16.70	19.95	Y
9/27/88	629	11.50	0.00	1200.00	IN
9/27/88	655	30.90	8.40	1114.50	IN
9/27/88	656	25.90	13.30	64.29	Y
9/27/88	659	0.00	0.00	0.00	Y
9/27/88	674	8.48	6.31	2.03	Y
9/27/88	711	0.00	0.00	0.00	Y

CHLOROPHYLL-a II PRECISION DUPLICATES
 II Accept. Limits: 70

DATE OF SAMPLE ANALYSIS	II	ORG. RESULT	II	DUP. RESULT	II	% REL. ERROR	II	WITHIN LIMITS
9/28/88	I	731	II	0.00	I	0.00	I	0.00
9/28/88	I	752	II	7.98	I	7.86	I	1.52
9/28/88	I	765	II	4.93	I	3.81	I	25.53
9/24/88	I	779	II	11.40	I	0.00	I	1200.00
9/24/88	I	784	II	24.60	I	6.95	I	111.89
11/09/88	I	61	II	0.00	I	22.93	I	200
11/09/88	I	62	II	10.46	I	0.00	I	200
11/09/88	I	63	II	19.27	I	14.94	I	25
11/09/88	I	64	II	13.49	I	22.25	I	49
11/09/88	I	65	II	23.92	I	19.08	I	23
11/09/88	I	66	II	0.00	I	5.27	I	200
11/09/88	I	67	II	12.86	I	11.89	I	8
11/09/88	I	68	II	20.92	I	13.07	I	46
11/09/88	I	89	II	21.77	I	15.71	I	32
11/09/88	I	101	II	10.01	I	11.51	I	14
11/11/88	I	122	II	9.84	I	9.49	I	4
11/11/88	I	123	II	10.86	I	4.15	I	89
11/11/88	I	124	II	19.92	I	18.75	I	6
11/11/88	I	157	II	10.08	I	13.35	I	28
11/11/88	I	158	II	21.58	I	25.00	I	15
11/12/88	I	234	II	24.27	I	21.40	I	13
11/12/88	I	239	II	20.45	I	20.33	I	1
11/12/88	I	240	II	16.46	I	20.07	I	20
11/12/88	I	241	II	12.89	I	13.27	I	35
11/12/88	I	242	II	30.71	I	47.65	I	43
11/12/88	I	243	II	46.53	I	27.37	I	52
11/12/88	I	251	II	18.28	I	4.93	I	115
11/12/88	I	252	II	28.08	I	31.39	I	11
11/12/88	I	253	II	24.55	I	28.54	I	15
11/12/88	I	273	II	14.69	I	41.74	I	96
11/12/88	I	274	II	29.28	I	7.83	I	116
11/12/88	I	280	II	7.03	I	16.44	I	80
11/12/88	I	281	II	5.13	I	16.71	I	106
11/12/88	I	282	II	15.98	I	4.06	I	123

Section 5

Quality Control Data

Hackensack River Study

Dissolved Oxygen Analysis

REPORT TYPE: JOB SPECIFIC EC

CUSTOMER: Clinton Beqart

J084: Mackensack River Study
SAMPLING EVENT: JULY

PARAMETER: NITRITE
UNITS: mg/l

REPORT TYPE: JOB SPECIFIC EC

[illegible]

GTC LABORATORY QUALITY CONTROL REPORT

CUSTOMER: Clinton Bogart	JOB#: Hackensack River Study	PARAMETER: NITRITE	REPORT TYPE: JOB SPECIFIC QC
	SAMPLING EVENT: JULY	UNITS: mg/l	

PRECISION DUPLICATES	MATRIX SPIKES	BLANK SPIKES	REFERENCE STANDARDS
Accept. Limits: 10	Accept. Limits: 84 - 118	Accept. Limits: 90 - 110	Accept. Limits: No Ref. Std. Used

DATE OF SAMPLE	ORE.	DUP.	IX REL.	WITHIN	AVG.	ISPIKE	%	WITHIN	METHOD	SPIKE	%	WITHIN	REF.	KNOWN	%	WITHIN
ANALYST	NUMBERT	RESULT	RESULT	ERROR	LIMITS	ADDED	REC.	LIMITS	BLV.	ADDED	REC.	LIMITS	ID.	VALUE	REC.	LIMITS

7/24/88	1	1	1	1	1	1	1	1	1	0.051	0.25	99.6	Y	1	1	1
7/26/88	1	1	1	1	1	1	1	1	1	0.051	0.25	98.8	Y	1	1	1
7/26/88	1	1	1	1	1	1	1	1	1	0.051	0.25	98.4	Y	1	1	1

BTC LABORATORY QUALITY CONTROL REPORT

CUSTOMER: Clinton Bogert JOB#: Hackensack River Study PARAMETER: NITRITE REPORT TYPE: JOB SPECIFIC QC
 SAMPLING EVENT: AUGUST UNITS: mg/l

DATE OF SAMPLE	ANALYST	PRECISION: DUPLICATES		AVG. RESULT	MATRIX SPIKES		BLANK SPIKES		REFERENCE STANDARDS	
		1	2		1	2	1	2	1	2
		Accept. Limits: 10			Accept. Limits: 84 - 118		Accept. Limits: 90 - 110		Accept. Limits: No Ref. Std. Lead	
DATE OF SAMPLE	ANALYST	1	2	AVG.	1	2	1	2	1	2
8/25/85	13	0.37	0.37	0.37	0.37	0.25	0.051	0.25	109	109
8/25/85	76	0.05	0.05	0.05	0.05	0.25	0.051	0.25	103	103
8/25/85	113	0.15	0.15	0.15	0.15	0.25	0.051	0.25	329	329
8/25/85	122	0.18	0.18	0.18	0.18	0.25	0.051	0.25	108	108
8/25/85	147	0.28	0.28	0.28	0.28	0.25	0.051	0.25	105	105
8/25/85	167	1.83	1.84	1.84	1.84	0.25	0.051	0.25	108	108
8/25/85							0.051	0.25	107	107
8/25/85							0.051	0.25	106	106
8/25/85							0.051	0.25	102	102
8/25/85							0.051	0.25	106	106
8/25/85							0.051	0.25	105	105
8/25/85							0.051	0.25	104	104
8/25/85							0.051	0.25	105	105
8/25/85							0.051	0.25	105	105
8/25/85							0.051	0.25	106	106
8/25/85							0.051	0.25	109	109
8/25/85							0.051	0.25	106	106
8/25/85							0.051	0.25	108	108
8/25/85							0.051	0.25	110	110
8/25/85							0.051	0.25	105	105
8/25/85							0.051	0.25	110	110
8/25/85							0.051	0.25	111	111
8/25/85							0.051	0.25	110	110
8/25/85							0.051	0.25	110	110
8/25/85							0.051	0.25	102	102
8/25/85							0.051	0.25	102	102
8/25/85							0.051	0.25	102	102
8/25/85							0.051	0.25	89.2	89.2
8/25/85							0.051	0.25	90.8	90.8
8/25/85							0.051	0.25	105	105
8/25/85							0.051	0.25	105	105

BTC LABORATORY QUALITY CONTROL REPORT

CUSTOMER: Clinton Regent

JOB#: Hackensack River Study
SAMPLING EVENT: AUGUST

PARAMETER: NITRATE
UNITS: ug/l

REPORT TYPE: J08 SPEC.FID 00

DATE OF SAMPLE	ORIG.	PRECISION DUPLICATES		AVG. RESULT	MATRIX SPIKES		BLANK SPIKES		REFERENCE STANDARDS	
		DIFF. % REL. WITHIN LIMITS	RESULT		ACCEPT. LIMITS	% SPIKE	ACCEPT. LIMITS	% SPIKE	ACCEPT. LIMITS	% WITHIN LIMITS
8/26/86	302	0.38	0.33	14.1 IN	0.35	0.25	95.2 Y	0.051	0.25	105 Y
8/26/86	303	0.33	0.35	7.67 Y	0.34	0.25	100 Y	0.051	0.25	107 Y
8/26/86	305	0.35	0.34	1.75 Y	0.34	0.25	94.0 Y	0.051	0.25	107 Y
8/26/86	306	0.47	0.43	9.14 Y	0.45	0.25	93.6 Y	0.051	0.25	107 Y
8/26/86	307	0.42	0.43	0.47 Y	0.42	0.25	104 Y	0.051	0.25	108 Y
8/26/86	315	0.22	0.23	3.96 Y	0.23	0.25	108 Y	0.051	0.25	106 Y
8/26/86	315	0.23	0.22	3.54 Y	0.23	0.25	105 Y	0.051	0.25	108 IN
8/26/86	335	0.21	0.20	3.42 Y	0.20	0.25	107 Y	0.051	0.25	94.0 Y
8/26/86	336	0.21	0.21	0.96 Y	0.21	0.25	109 Y	0.051	0.25	92.4 Y
8/26/86								0.051	0.25	97.2 Y
8/26/86								0.051	0.25	98.8 Y
8/26/86								0.051	0.25	96.0 Y
8/26/86								0.051	0.25	101 Y
8/26/86								0.051	0.25	106 Y
8/26/86								0.051	0.25	106 Y
8/26/86								0.051	0.25	105 Y
8/26/86								0.051	0.25	125 IN
8/26/86								0.051	0.25	102 Y
8/26/86								0.051	0.25	101 Y
8/26/86								0.051	0.25	102 Y
8/26/86								0.051	0.25	103 Y
8/26/86								0.051	0.25	105 Y
8/26/86								0.051	0.25	106 Y
8/26/86								0.051	0.25	107 Y
8/26/86								0.051	0.25	108 Y
8/26/86								0.051	0.25	108 Y
8/26/86								0.051	0.25	116 IN
8/26/86								0.051	0.25	108 Y
8/26/86								0.051	0.25	107 Y
8/26/86								0.051	0.25	43.2 IN
8/26/86								0.051	0.25	42.8 IN

REPORT TYPE: JOB SPECIFIC DC

[illegible]

[illegible]

6TC LABORATORY QUALITY CONTROL REPORT

CUSTOMER: Clinton Beqart

J084: Hackensack River Study
SAMPLING EVENT: AUGUST

PARAMETER: NITRITE
UNITS: mg/l

REPORT TYPE: JOB SPECIFIC QC

[illegible]

6TC LABORATORY QUALITY CONTROL REPORT

CUSTOMER: Clinton Bogart

JOB#: Hackensack River Study

PARAMETER: NITRITE

REPORT TYPE: JOB SPECIFIC QC

SAMPLING EVENT: OCTOBER

UNITS: mg/l

DATE OF ANALYSIS	SAMPLE NUMBER	PRECISION DUPLICATES		MATRIX SPIKES		BLANK SPIKES		REFERENCE STANDARDS	
		1	2	1	2	1	2	1	2
		Accept. Limits: 10	Accept. Limits: 10	Accept. Limits: 84 - 118	Accept. Limits: 84 - 118	Accept. Limits: 90 - 110	Accept. Limits: 90 - 110	Accept. Limits: No Ref. Std. Used	Accept. Limits: No Ref. Std. Used
DATE OF ANALYSIS	SAMPLE NUMBER	1	2	1	2	1	2	1	2
10/18/88	1	<0.05	<0.05	105	105	<0.051	0.25	103	Y
10/18/88	11	<0.05	<0.05	121	121	<0.051	0.25	103	Y
10/18/88	21	<0.05	<0.05	104	104	<0.051	0.25	103	Y
10/18/88	31	<0.05	<0.05	107	107	<0.051	0.25	100	Y
10/18/88	41	<0.05	<0.05	118	118	<0.051	0.25	104	Y
10/18/88	51	<0.05	<0.05	115	115	<0.051	0.25	107	Y
10/18/88	61	<0.05	<0.05	120	120	<0.051	0.25	105	Y
10/18/88	71	<0.05	<0.05	109	109	<0.051	0.25	107	Y
10/21/88	81	<0.05	<0.05	111	111	<0.051	0.25	99.6	Y
10/21/88	91	<0.05	<0.05	108	108	<0.051	0.25	136	IN
10/21/88	101	<0.05	<0.05	108	108	<0.051	0.25	104	Y
10/21/88	111	<0.05	<0.05	111	111	<0.051	0.25	107	Y
10/21/88	121	<0.05	<0.05	124	124	<0.051	0.25	108	Y
10/21/88	131	<0.05	<0.05	113	113	<0.051	0.25	105	Y
10/21/88	141	<0.05	<0.05	126	126	<0.051	0.25	87.6	IN
10/21/88	151	<0.05	<0.05	118	118	<0.051	0.25	101	Y
10/21/88	161	<0.05	<0.05	101	101	<0.051	0.25	101	Y
10/21/88	171	<0.05	<0.05	103	103	<0.051	0.25	101	Y
10/21/88	181	<0.05	<0.05	205	205	<0.051	0.25	101	Y
10/21/88	191	<0.05	<0.05	120	120	<0.051	0.25	103	Y
10/21/88	201	<0.05	<0.05	103	103	<0.051	0.25	103	Y
10/21/88	211	<0.05	<0.05	103	103	<0.051	0.25	103	Y
10/24/88	1	<0.05	<0.05	103	103	<0.051	0.25	103	Y
10/24/88	11	<0.05	<0.05	103	103	<0.051	0.25	103	Y
10/24/88	21	<0.05	<0.05	103	103	<0.051	0.25	103	Y
10/24/88	31	<0.05	<0.05	103	103	<0.051	0.25	103	Y
10/24/88	41	<0.05	<0.05	103	103	<0.051	0.25	103	Y
10/24/88	51	<0.05	<0.05	103	103	<0.051	0.25	103	Y
10/24/88	61	<0.05	<0.05	103	103	<0.051	0.25	103	Y
10/24/88	71	<0.05	<0.05	103	103	<0.051	0.25	103	Y
10/24/88	81	<0.05	<0.05	103	103	<0.051	0.25	103	Y
10/24/88	91	<0.05	<0.05	103	103	<0.051	0.25	103	Y
10/24/88	101	<0.05	<0.05	103	103	<0.051	0.25	103	Y
10/24/88	111	<0.05	<0.05	103	103	<0.051	0.25	103	Y
10/24/88	121	<0.05	<0.05	103	103	<0.051	0.25	103	Y
10/24/88	131	<0.05	<0.05	103	103	<0.051	0.25	103	Y
10/24/88	141	<0.05	<0.05	103	103	<0.051	0.25	103	Y
10/24/88	151	<0.05	<0.05	103	103	<0.051	0.25	103	Y
10/24/88	161	<0.05	<0.05	103	103	<0.051	0.25	103	Y
10/24/88	171	<0.05	<0.05	103	103	<0.051	0.25	103	Y
10/24/88	181	<0.05	<0.05	103	103	<0.051	0.25	103	Y
10/24/88	191	<0.05	<0.05	103	103	<0.051	0.25	103	Y
10/24/88	201	<0.05	<0.05	103	103	<0.051	0.25	103	Y
10/24/88	211	<0.05	<0.05	103	103	<0.051	0.25	103	Y

No

REPORT TYPE: JOB SPECIFIC QC

PRECISION DUPLICATES										MATRIX SPIKES										BLANK SPIKES										REFERENCE STANDARDS									
Accept. Limits: 10										Accept. Limits: 84 - 118										Accept. Limits: 90 - 110										Accept. Limits: No Ref. Std. Used									
DATE OF ANALYSIS	ORG.	DUP.	IN REL.	WITHIN	RESULT	ERROR	ILIMITS	AVG.	ISPIKE	X	WITHIN	ILIMITS	METHOD	SPIKE	X	WITHIN	ILIMITS	REF.	ID.	KNOWN	X	WITHIN	ILIMITS																
11/8/88	10	0.14	0.13	10.743	Y			0.13	0.25	105	Y			< 0.10	0.25	101	Y																						
11/8/88	19	0.13	0.13	1.59	Y			0.13	0.25	103	Y			< 0.10	0.25	101	Y																						
11/8/88														< 0.10	0.25	103	Y																						
11/8/88														< 0.10	0.25	407	IN																						
11/9/88	61	0.38	0.39	2.58	Y			0.39	0.25	112	Y			< 0.10	0.25	101	Y																						
11/9/88	62	0.20	0.21	2.96	Y			0.20	0.25	106	Y			< 0.10	0.25	98.8	Y																						
11/9/88	63	0.33	0.34	4.78	Y			0.34	0.25	112	Y			< 0.10	0.25	99.2	Y																						
11/9/88	64	0.33	0.33	10.610	Y			0.33	0.25	110	Y			< 0.10	0.25	103	Y																						
11/9/88	65	0.39	0.39	10.510	Y			0.39	0.25	109	Y			< 0.10	0.25	99.6	Y																						
11/9/88	66	0.09	0.10	6.45	Y			0.09	0.25	111	Y			< 0.10	0.25	98.0	Y																						
11/9/88	67	0.33	0.32	1.23	Y			0.33	0.25	109	Y			< 0.10	0.25	99.6	Y																						
11/9/88	68	0.27	0.33	22.4	IN			0.30	0.25	125	IN			< 0.10	0.25	95.2	Y																						
11/9/88														< 0.10	0.25	97.6	Y																						
11/9/88														< 0.10	0.25	95.6	Y																						
11/9/88														< 0.10	0.25	94.8	Y																						
11/9/88														< 0.10	0.25	95.2	Y																						
11/9/88														< 0.10	0.25	95.6	Y																						
11/9/88														< 0.10	0.25	97.2	Y																						
11/9/88														< 0.10	0.25	95.6	Y																						
11/9/88														< 0.10	0.25	94.4	Y																						
11/9/88														< 0.10	0.25	92.8	Y																						
11/9/88														< 0.10	0.25	94.8	Y																						
11/9/88														< 0.10	0.25	383	IN																						
11/11/88	85	0.23	0.18	23.3	IN			0.21	0.25	95.2	Y			< 0.10	0.25	104	Y																						
11/11/88	89	0.33	0.34	2.71	Y			0.33	0.25	105	Y			< 0.10	0.25	104	Y																						
11/11/88	101	0.07	0.08	12.7	IN			0.08	0.25	107	Y			< 0.10	0.25	102	Y																						
11/11/88														< 0.10	0.25	103	Y																						
11/11/88														< 0.10	0.25	103	Y																						
11/11/88														< 0.10	0.25	104	Y																						
11/11/88														< 0.10	0.25	105	Y																						
11/11/88														< 0.10	0.25	105	Y																						

GTC LABORATORY QUALITY CONTROL REPORT

REPORT TYPE: JOB SPECIFIC QC

CUSTOMER: Clinton Bogart
 1089 Hackensack River Study
 SAMPLING EVENT: NOVEMBER

PARAMETER: NITRITE
 UNITS: mg/l

DATE OF SAMPLE	ANALYSIS NUMBER	PRECISION DUPLICATES		MATRIX SPIKES		BLANK SPIKES		REFERENCE STANDARDS	
		ORG. RESULT	DUP. 1X REL. WITHIN 1% RESULT ERROR ILIMITS	AVG. RESULT	ISPIKE I X ADDED REC. ILIMITS	METHOD I X ADDED REC. ILIMITS	SPIKE I X ADDED REC. ILIMITS	WITHIN 1% REF. ID. VALUE	WITHIN 1% REF. ID. VALUE
		ILIMITS	ILIMITS	ILIMITS	ILIMITS	ILIMITS	ILIMITS	ILIMITS	ILIMITS
11/11/88	122	0.35	0.35	0.28	0.35	0.25	0.25	105	105
11/11/88	123	0.32	0.32	0.30	0.32	0.25	0.25	105	105
11/11/88	124	0.41	0.40	1.24	0.40	0.25	0.25	104	104
11/11/88	125	0.39	0.42	7.98	0.40	0.25	0.25	102	102
11/11/88	126	0.40	0.41	1.24	0.40	0.25	0.25	105	105
11/11/88	127	0.40	0.41	0.993	0.40	0.25	0.25	105	105
11/11/88	128								
11/11/88	129								
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11/11/88	200								

GTC LABORATORY QUALITY CONTROL REPORT

CUSTOMER: Clinton Bogart				JOB#: Hackensack River Study				PARAMETER: NITRITE				REPORT TYPE: JOB SPECIFIC QC			
SAMPLING EVENT: NOVEMBER				PRECISION DUPLICATES				MATRIX SPIKES				BLANK SPIKES			
Accept. Limits: 10				Accept. Limits: 10				Accept. Limits: 84 - 118				Accept. Limits: 90 - 110			
DATE OF SAMPLE				DUP. I X REL. WITHIN I				AVG. ISPIKE I X WITHIN I				METHOD I SPIKE I X WITHIN I			
ANALYSIS NUMBER				RESULT I RESULT I				ADDED I REC. I				BLK. I ADDED I REC. I			
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Section 9

Quality Control Data

Hackensack River Study

Total Kjeldahl Nitrogen (TKN)

REPORT TYPE: JOB SPECIFIC PC

DATE OF SAMPLE	ANALYSIS NUMBER	ORG.	RESULT	PRECISION DUPLICATES			MATRIX SPIKES			BLANK SPIKES			REFERENCE STANDARDS			
				DUP. % REL.	WITHIN LIMITS	AVG. RESULT	ADDED	% REC.	WITHIN LIMITS	METHOD BLK.	SPIKE ADDED	% REC.	WITHIN LIMITS	REF. ID.	KNOWN VALUE	% REC.
				Accept. Limits: 10			Accept. Limits: 84 - 118			Accept. Limits: 50 - 110			Accept. Limits: No Ref. Std. Used			
7/22/88	1594		0.48	0.45	5.15	Y	0.47	0.25	106	Y	< 0.051	0.25	90.8	Y		
7/22/88	1595		0.51	0.49	3.60	Y	0.50	0.25	104	Y	< 0.051	0.25	97.6	Y		
7/22/88	1596		0.25	0.25	10.810	Y	0.25	0.25	110	Y	< 0.051	0.25	96.8	Y		
7/22/88	1597		0.45	0.45	10.223	Y	0.45	0.25	112	Y	< 0.051	0.25	96.4	Y		
7/22/88	1598		0.43	0.45	3.17	Y	0.44	0.25	108	Y	< 0.051	0.25	96.0	Y		
7/22/88	1599		0.45	0.45	1.79	Y	0.45	0.25	113	Y	< 0.051	0.25	97.2	Y		
7/22/88	1600		0.23	0.24	4.61	Y	0.24	0.25	110	Y	< 0.051	0.25	104	Y		
7/22/88	1601		0.39	0.39	1.28	Y	0.39	0.25	109	Y	< 0.051	0.25	104	Y		
7/22/88	1602		0.38	0.40	4.11	Y	0.39	0.25	110	Y	< 0.051	0.25	105	Y		
7/22/88	1603		0.30	0.30	1.34	Y	0.30	0.25	109	Y	< 0.051	0.25	104	Y		
7/22/88	1604		0.28	0.30	6.25	Y	0.29	0.25	110	Y	< 0.051	0.25	105	Y		
7/22/88	1605		0.24	0.23	2.11	Y	0.24	0.25	111	Y	< 0.051	0.25	104	Y		
7/22/88	1606		0.44	0.42	3.73	Y	0.43	0.25	107	Y	< 0.051	0.25	106	Y		
7/22/88	1607		0.43	0.43	1.17	Y	0.43	0.25	111	Y	< 0.051	0.25	106	Y		
7/22/88	1608		0.43	0.43	10.231	Y	0.43	0.25	111	Y	< 0.051	0.25	105	Y		
7/22/88	1609		0.25	0.25	2.39	Y	0.25	0.25	108	Y	< 0.051	0.25	105	Y		
7/22/88	1610		0.19	0.19	1.61	Y	0.19	0.25	112	Y	< 0.051	0.25	108	Y		

REPORT TYPE: JOB SPECIFIC QC

[illegible]

GIC LABORATORY QUALITY CONTROL REPORT

JOB#: Hackensack River Study
SAMPLING EVENT: JULY

PARAMETER: NITRITE
UNITS: mg/l

REPORT TYPE: JDR SPECIFIC QC

PRECISION DUPLICATES										MATRIX SPIKES										BLANK SPIKES										REFERENCE STANDARDS									
PREC. LIMITS: 10										MTRX. LIMITS: 84 - 118										BLNK. LIMITS: 90 - 110										REF. LIMITS: No Ref. Std. Used									
DATE OF SAMPLE	ORG.	DUP. %	REL. WITHIN	Avg.	ISPIKE	X	WITHIN	METHOD	SPIKE	X	WITHIN	REF.	KNOWN	X	WITHIN																								
ANALYST/NUMBER	RESULT	RESULT	PERCENT	LIMITS	ADDED	REC.	LIMITS	BLK.	ADDED	REC.	LIMITS	ID.	VALUE	REC.	LIMITS																								
7/21/88									0.051	0.25	104	Y																											
7/21/88									0.051	0.25	103	Y																											
7/21/88									0.051	0.25	99.5	Y																											
7/21/88									0.051	0.25	96.0	Y																											
7/21/88									0.051	0.25	98.0	Y																											
7/21/88									0.051	0.25	102	Y																											
7/21/88									0.051	0.25	98.0	Y																											
7/21/88									0.051	0.25	98.4	Y																											
7/21/88									0.051	0.25	105	Y																											
7/21/88									0.051	0.25	105	Y																											
7/21/88									0.051	0.25	105	Y																											
7/21/88									0.051	0.25	103	Y																											
7/21/88									0.051	0.25	105	Y																											
7/21/88									0.051	0.25	106	Y																											
7/21/88									0.051	0.25	104	Y																											
7/21/88									0.051	0.25	103	Y																											
7/21/88									0.051	0.25	98.8	Y																											
7/21/88									0.051	0.25	115	IN																											
7/21/88									0.051	0.25	28.0	IN																											
7/21/88									0.051	0.25	139	IN																											
7/21/88									0.051	0.25	97.6	Y																											
7/21/88									0.051	0.25	101	Y																											
7/21/88									0.051	0.25	95.2	Y																											
7/21/88									0.051	0.25	100	Y																											
7/21/88									0.051	0.25	108	Y																											
7/21/88									0.051	0.25	107	Y																											
7/21/88									0.051	0.25	105	Y																											
7/21/88									0.051	0.25	104	Y																											
7/21/88									0.051	0.25	107	Y																											
7/21/88									0.051	0.25	104	Y																											
7/21/88									0.051	0.25	104	Y																											

REPORT TYPE: JOB SPECIFIC QC

[illegible]

REPORT TYPE: JOB SPECIFIC QC

[illegible]

REPORT TYPE: JOB SPECIFIC OR

[illegible]

STC LABORATORY QUALITY CONTROL REPORT

REPORT TYPE: JOB SPECIFIC QC

Page 10 of 10

JOHN: Hackers at River Study
SAMPLING EVENT: JULY

PARAMETER: NITRITE
UNITS: mg/l

PRECISION DUPLICATES
Accept. Limits: 10

MATRIX SIZES
Accept. Limits: 94 - 118

11 BLANK SFIKES
11 Accept. Limits: 90 - 110

11 REFERENCE STANDARDS
11A-cept. Limits: No Ref. Std. Used

DATE OF SAMPLE 086.
ANALYSIS NUMBER 1 RESULT

1 DUP. 1% REL. WITH
RESULT ERROR LIMIT

11 AVG. 1951
11 RESULT ADDRESS

11 BLK. - 1 ADDED 1 RE

ID.	VALUE	REL.	LIMITS
11	1	1	1
11	1	1	1

[illegible]

OIL LABORATORY QUALITY CONTROL REPORT

Customer: Chevron Export

Job: Macleod River Study
SPT 113 EXPL: ALBERT 1988

Parameters: Nitrate Nitrite
Units: mg/l

Ref: JCB SPECIFIC

DATE OF SAMPLE	ANALYST	PRECISION (COEFFICIENTS)			MATRIX SPICES			CALIB SPICES			REFERENCE STANDARDS		
		10 Accept. Limit	10	10	10 Accept. Limit	10	10	10 Accept. Limit	10	10	10 Accept. Limit	10	10
9/7/88	11	1.11	1.13	1.583	1.12	0.25	72.0	0.25	0.25	70.0	1.80	78.8	1
9/7/88	12	0.88	0.91	1.23	0.90	0.25	92.6	0.25	0.25	109.1	1.80	101.1	1
9/7/88	13	0.56	0.75	16.7	0.50	0.25	12.6	0.25	0.25	60.8	1.80	77.2	1
9/7/88	14									100.1	1.80	96.7	1
9/7/88	15									96.8	1.80	99.7	1
9/7/88	16									57.6	1.80	95.8	1
9/7/88	17									93.2	1.80	96.6	1
9/7/88	18									10.8	1.80	94.5	1
9/7/88	19										1.80	91.6	1
9/7/88	20										1.80	90.3	1
9/8/88	21	0.75	0.33	78.5	0.54	0.25	123	0.25	0.25	107.1	1.80	79.9	1
9/8/88	22	0.39	0.36	9.0	0.36	0.25	55.2	0.25	0.25	113	1.80	79.9	1
9/8/88	23	0.37	0.42	14.2	0.37	0.25	66.4	0.25	0.25	96.0	1.80	110	1
9/8/88	24									88.4	1.80	94.2	1
9/8/88	25									95.6	1.80	88.6	1
9/8/88	26									74.0	1.80	84.8	1
9/8/88	27									72.4	1.80	69.9	1
9/8/88	28									75.6	1.80	74.1	1
9/8/88	29										1.80	73.4	1
9/8/88	30										1.80	70.5	1
9/8/88	31	0.98	1.65	6.80	1.01	0.25	117	0.25	0.25	96.4	1.80	70.3	1
9/8/88	32	0.68	0.67	0.15	0.68	0.25	99.8	0.25	0.25	97.6	1.80	71.1	1
9/8/88	33	0.78	0.78	0.13	0.78	0.25	99.8	0.25	0.25	94.4	1.80	76.4	1
9/8/88	34	1.28	1.28	0.00	1.28	0.25	99.8	0.25	0.25	92.8	1.80	75.9	1
9/8/88	35	1.86	1.81	2.67	1.84	0.25	197.70	0.25	0.25	92.4	1.80	95.6	1
9/9/88	36									92.4	1.80	95.2	1
9/9/88	37									92.0	1.80	94.2	1
9/9/88	38									91.6	1.80	94.0	1
9/9/88	39									94.0	1.80	94.0	1
9/9/88	40									94.5	1.80	94.5	1
9/9/88	41									91.6	1.80	93.9	1
9/9/88	42									92.8	1.80	93.6	1
9/9/88	43									92.4	1.80	93.8	1
9/9/88	44									93.6	1.80	92.2	1
9/9/88	45									94.3	1.80	94.3	1
9/9/88	46									94.4	1.80	94.4	1
9/9/88	47									95.1	1.80	95.1	1
9/24/88	48	1.83	1.78	6.31	1.78	0.25	71.2	0.25	0.25	106	1.80	102	1
9/24/88	49	1.81	1.63	10.5	1.72	0.25	89.6	0.25	0.25	106	1.80	102	1

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NO. OF SAMPLES DATE OF ANALYSIS	PRECISION DUPLICATES			MATRIX SPIKES			BLANK SPIKES			REFERENCE STANDARDS					
	CONC. RESULT	DIFF. % REL. DIFF.	WITHIN REPRODUCIBILITY LIMITS	AVG. RESULT	IS/SPK RATIO	% REC.	WITHIN REPRODUCIBILITY LIMITS	METHOD ID.	SPK ID.	% REC.	WITHIN REPRODUCIBILITY LIMITS	REF. ID.	CONC. VALUE	% REC.	WITHIN REPRODUCIBILITY LIMITS
Accept. Limits: 10															
923	8/11/88	0.70	0.68	3.06	0.70	0.25	284	0.70	0.25	108	0.70	0.25	1.80	74.2	IN
927	8/11/88	1.57	1.05	N.C.	0.79	0.25	284	0.79	0.25	108	0.79	0.25	1.80	96.1	Y
938	8/11/88	0.79	0.79	10.63%	0.79	0.25	108	0.79	0.25	108	0.79	0.25	1.80	76.9	IN
948	8/11/88	0.70	0.70	10.713	0.70	0.25	101	0.70	0.25	99.6	0.70	0.25	1.80	87.7	IN
948	8/13/88	0.10	0.08	16.95	0.09	0.25	98.2	0.09	0.25	102	0.09	0.25	1.80	88.8	Y
980	8/13/88	0.57	0.57	10.704	0.57	0.25	103	0.57	0.25	109	0.57	0.25	1.80	90.7	Y
981	8/13/88	0.60	0.58	2.70	0.59	0.25	98.8	0.59	0.25	109	0.59	0.25	1.80	101	Y
989	8/13/88	0.48	0.50	3.67	0.49	0.25	109	0.49	0.25	109	0.49	0.25	1.80	91.8	Y
990	8/13/88	0.55	0.53	2.60	0.54	0.25	100	0.54	0.25	100	0.54	0.25	1.80	97.8	Y
1006	8/18/88	0.06	0.06	11.8	0.06	0.25	86.2	0.06	0.25	90.0	0.06	0.25	1.80	103	Y
1012	8/13/88	0.59	0.61	3.15	0.60	0.25	113	0.60	0.25	96.4	0.60	0.25	1.80	97.5	Y
1013	8/13/88	0.61	0.61	10.493	0.61	0.25	101	0.61	0.25	98.4	0.61	0.25	1.80	98.4	Y
1020	8/13/88	0.05	0.05	N.C.	0.00	0.25	104	0.00	0.25	102	0.00	0.25	1.80	97.6	Y
1026	8/13/88	0.61	0.74	18.8	0.68	0.25	127	0.68	0.25	99.2	0.68	0.25	1.80	96.5	Y
1027	8/13/88	0.63	0.62	1.642	0.62	0.25	111	0.62	0.25	102	0.62	0.25	1.80	95.8	Y
1039	8/13/88	0.05	0.05	N.C.	0.00	0.25	105	0.00	0.25	105	0.00	0.25	1.80	95.1	Y
996	8/13/88	0.05	0.04	N.C.	0.04	0.25	123	0.04	0.25	111	0.04	0.25	1.80	95.3	Y
1022	8/13/88	0.05	0.05	N.C.	0.00	0.25	114	0.00	0.25	109	0.00	0.25	1.80	94.2	Y
1067	8/13/88	0.05	0.05	N.C.	0.00	0.25	107	0.00	0.25	109	0.00	0.25	1.80	94.8	Y
1088	8/13/88	0.05	0.05	N.C.	0.00	0.25	109	0.00	0.25	109	0.00	0.25	1.80	99.7	Y
1117	8/13/88	1.140	1.11	2.67	1.13	0.25	98.0	1.13	0.25	100	1.13	0.25	1.80	99.9	Y
1136	8/14/88	1.220	1.48	19.4	1.35	0.25	151	1.35	0.25	103	1.35	0.25	1.80	100	Y
1143	8/14/88	0.652	0.66	1.37	0.66	0.25	109	0.66	0.25	103	0.66	0.25	1.80	101	Y
1144	8/14/88	0.683	0.65	2.44	0.66	0.25	104	0.66	0.25	103	0.66	0.25	1.80	102	Y
1149	8/14/88	0.677	0.68	1.286	0.68	0.25	N.C.	0.68	0.25	102	0.68	0.25	1.80	101	Y
1156	8/14/88	0.677	0.68	10.286	0.68	0.25	106	0.68	0.25	114	0.68	0.25	1.80	99.1	Y
1157	8/14/88	0.747	0.69	2.00	0.70	0.25	103	0.70	0.25	110	0.70	0.25	1.80	101	Y
1157	8/14/88	0.747	0.69	2.00	0.70	0.25	103	0.70	0.25	110	0.70	0.25	1.80	101	Y
1157	8/14/88	0.747	0.69	2.00	0.70	0.25	103	0.70	0.25	110	0.70	0.25	1.80	101	Y
1157	8/14/88	0.747	0.69	2.00	0.70	0.25	103	0.70	0.25	110	0.70	0.25	1.80	101	Y
1157	8/14/88	0.747	0.69	2.00	0.70	0.25	103	0.70	0.25	110	0.70	0.25	1.80	101	Y
1157	8/14/88	0.747	0.69	2.00	0.70	0.25	103	0.70	0.25	110	0.70	0.25	1.80	101	Y
1157	8/14/88	0.747	0.69	2.00	0.70	0.25	103	0.70	0.25	110	0.70	0.25	1.80	101	Y
1157	8/14/88	0.747	0.69	2.00	0.70	0.25	103	0.70	0.25	110	0.70	0.25	1.80	101	Y
1157	8/14/88	0.747	0.69	2.00	0.70	0.25	103	0.70	0.25	110	0.70	0.25	1.80	101	Y
1157	8/14/88	0.747	0.69	2.00	0.70	0.25	103	0.70	0.25	110	0.70	0.25	1.80	101	Y
1157	8/14/88	0.747	0.69	2.00	0.70	0.25	103	0.70	0.25	110	0.70	0.25	1.80	101	Y
1157	8/14/88	0.747	0.69	2.00	0.70	0.25	103	0.70	0.25	110	0.70	0.25	1.80	101	Y
1157	8/14/88	0.747	0.69	2.00	0.70	0.25	103	0.70	0.25	110	0.70	0.25	1.80	101	Y
1157	8/14/88	0.747	0.69	2.00	0.70	0.25	103	0.70	0.25	110	0.70	0.25	1.80	101	Y
1157	8/14/88	0.747	0.69	2.00	0.70	0.25	103	0.70	0.25	110	0.70	0.25	1.80	101	Y
1157	8/14/88	0.747	0.69	2.00	0.70	0.25	103	0.70	0.25	110	0.70	0.25	1.80	101	Y
1157	8/14/88	0.747	0.69	2.00	0.70	0.25	103	0.70	0.25	110	0.70	0.25	1.80	101	Y
1157	8/14/88	0.747	0.69	2.00	0.70	0.25	103	0.70	0.25	110	0.70	0.25	1.80	101	Y
1157	8/14/88	0.747	0.69	2.00	0.70	0.25	103	0.70	0.25	110	0.70	0.25	1.80	101	Y
1157	8/14/88	0.747	0.69	2.00	0.70	0.25	103	0.70	0.25	110	0.70	0.25	1.80	101	Y
1157	8/14/88	0.747	0.69	2.00	0.70	0.25	103	0.70	0.25	110	0.70	0.25	1.80	101	Y
1157	8/14/88	0.747	0.69	2.00	0.70	0.25	103	0.70	0.25	110	0.70	0.25	1.80	101	Y
1157	8/14/88	0.747	0.69	2.00	0.70	0.25	103	0.70	0.25	110	0.70	0.25	1.80	101	Y
1157	8/14/88	0.747	0.69	2.00	0.70	0.25	103	0.70	0.25	110	0.70	0.25	1.80	101	Y
1157	8/14/88	0.747	0.69	2.00	0.70	0.25	103	0.70	0.25	110	0.70	0.25	1.80	101	Y
1157	8/14/88	0.747	0.69	2.00	0.70	0.25	103	0.70	0.25	110	0.70	0.25	1.80	101	Y
1157	8/14/88	0.747	0.69	2.00	0.70	0.25	103	0.70	0.25	110	0.70	0.25	1.80	101	Y
1157	8/14/88	0.747	0.69	2.00	0.70	0.25	103	0.70	0.25	110	0.70	0.25	1.80	101	Y
1157	8/14/8														

NO. NAME		PRECISION DATA				MATRIX STUDIES				ELEM STUDIES				REFERENCE STANDARDS			
ELEM: 7/88		Accept. Limits: 10				Accept. Limits: 86 - 112				Accept. Limits: 84 - 111				Accept. Limits: 88 - 108			
DATE OF ANALYSIS	ANALYST	NO. OF REPS	MEAN	DEV. % REL. WITHIN REPT. LIMITS	NO. OF REPS	MEAN	DEV. % REL. WITHIN REPT. LIMITS	NO. OF REPS	MEAN	DEV. % REL. WITHIN REPT. LIMITS	NO. OF REPS	MEAN	DEV. % REL. WITHIN REPT. LIMITS	NO. OF REPS	MEAN	DEV. % REL. WITHIN REPT. LIMITS	NO. OF REPS
8/7/88	697	10	0.69	10.0	10	0.69	10.0	10	0.69	10.0	10	0.69	10.0	10	0.69	10.0	10
8/7/88	698	10	0.69	10.0	10	0.69	10.0	10	0.69	10.0	10	0.69	10.0	10	0.69	10.0	10
8/7/88	699	10	0.69	10.0	10	0.69	10.0	10	0.69	10.0	10	0.69	10.0	10	0.69	10.0	10
8/7/88	700	10	0.69	10.0	10	0.69	10.0	10	0.69	10.0	10	0.69	10.0	10	0.69	10.0	10
8/7/88	701	10	0.69	10.0	10	0.69	10.0	10	0.69	10.0	10	0.69	10.0	10	0.69	10.0	10
8/7/88	702	10	0.69	10.0	10	0.69	10.0	10	0.69	10.0	10	0.69	10.0	10	0.69	10.0	10
8/7/88	703	10	0.69	10.0	10	0.69	10.0	10	0.69	10.0	10	0.69	10.0	10	0.69	10.0	10
8/7/88	704	10	0.69	10.0	10	0.69	10.0	10	0.69	10.0	10	0.69	10.0	10	0.69	10.0	10
8/7/88	705	10	0.69	10.0	10	0.69	10.0	10	0.69	10.0	10	0.69	10.0	10	0.69	10.0	10
8/7/88	706	10	0.69	10.0	10	0.69	10.0	10	0.69	10.0	10	0.69	10.0	10	0.69	10.0	10
8/7/88	707	10	0.69	10.0	10	0.69	10.0	10	0.69	10.0	10	0.69	10.0	10	0.69	10.0	10
8/7/88	708	10	0.69	10.0	10	0.69	10.0	10	0.69	10.0	10	0.69	10.0	10	0.69	10.0	10
8/7/88	709	10	0.69	10.0	10	0.69	10.0	10	0.69	10.0	10	0.69	10.0	10	0.69	10.0	10
8/7/88	710	10	0.69	10.0	10	0.69	10.0	10	0.69	10.0	10	0.69	10.0	10	0.69	10.0	10
8/7/88	711	10	0.69	10.0	10	0.69	10.0	10	0.69	10.0	10	0.69	10.0	10	0.69	10.0	10
8/7/88	712	10	0.69	10.0	10	0.69	10.0	10	0.69	10.0	10	0.69	10.0	10	0.69	10.0	10
8/7/88	713	10	0.69	10.0	10	0.69	10.0	10	0.69	10.0	10	0.69	10.0	10	0.69	10.0	10
8/7/88	714	10	0.69	10.0	10	0.69	10.0	10	0.69	10.0	10	0.69	10.0	10	0.69	10.0	10
8/7/88	715	10	0.69	10.0	10	0.69	10.0	10	0.69	10.0	10	0.69	10.0	10	0.69	10.0	10
8/7/88	716	10	0.69	10.0	10	0.69	10.0	10	0.69	10.0	10	0.69	10.0	10	0.69	10.0	10
8/7/88	717	10	0.69	10.0	10	0.69	10.0	10	0.69	10.0	10	0.69	10.0	10	0.69	10.0	10
8/7/88	718	10	0.69	10.0	10	0.69	10.0	10	0.69	10.0	10	0.69	10.0	10	0.69	10.0	10
8/7/88	719	10	0.69	10.0	10	0.69	10.0	10	0.69	10.0	10	0.69	10.0	10	0.69	10.0	10

[illegible]

REFORM TYPE: JOB SPECIFIC

PRECEDENCE DATA INDEXES										MATRIX STUDIES										HAA STUDIES										REFERENCE STANDARDS									
PRECED. LIMITS					PRECED. LIMITS					PRECED. LIMITS					PRECED. LIMITS					PRECED. LIMITS					PRECED. LIMITS					PRECED. LIMITS									
DATE OF SAMPLE	ANALYST	ORG.	REF. %	REL. LIMITS	DATE OF SAMPLE	ANALYST	ORG.	REF. %	REL. LIMITS	DATE OF SAMPLE	ANALYST	ORG.	REF. %	REL. LIMITS	DATE OF SAMPLE	ANALYST	ORG.	REF. %	REL. LIMITS	DATE OF SAMPLE	ANALYST	ORG.	REF. %	REL. LIMITS	DATE OF SAMPLE	ANALYST	ORG.	REF. %	REL. LIMITS										
7/23/88	5	0.61	0.59	14.53	Y	0.60	0.65	10.6	Y	0.061	0.65	90.4	Y	1.80	1.80	99.3	Y																						
7/24/88	16	0.56	0.56	10.53	Y	0.56	0.65	91.6	Y	0.061	0.65	90.8	Y	1.80	1.80	99.7	Y																						
7/26/88	24	0.52	0.56	6.34	Y	0.54	0.65	91.6	Y	0.061	0.65	90.4	Y	1.80	1.80	100	Y																						
7/28/88	37	0.40	0.56	10.83	IN	0.38	0.65	91.0	Y	0.061	0.65	81.2	IN	1.80	1.80	98.4	Y																						
7/28/88	56	0.26	0.23	115.07	IN	0.25	0.65	244	IN	0.061	0.65	78.4	IN	1.80	1.80	98.1	Y																						
7/28/88	85	1.91	1.88	1.21	Y	1.89	2.50	103	Y	0.061	0.65	105	Y	1.80	1.80	97.2	Y																						
7/28/88										0.061	0.65	116	IN	1.80	1.80	98.3	Y																						
7/28/88										0.061	0.65	91.2	Y	1.80	1.80	98.3	Y																						
7/28/88										0.061	0.65	87.2	Y	1.80	1.80	98.4	Y																						
7/28/88										0.061	0.65	96.4	Y	1.80	1.80	97.5	Y																						
7/28/88										0.061	0.65	104	Y	1.80	1.80	98.2	Y																						
7/28/88										0.061	0.65	113	IN	1.80	1.80	98.3	Y																						
7/28/88										0.061	0.65	102	Y	1.80	1.80	99.1	Y																						
7/28/88										0.061	0.65	98.8	Y	1.80	1.80	103	Y																						
7/28/88										0.061	0.65	110	Y	1.80	1.80	103	Y																						
7/28/88										0.061	0.65	109	Y	1.80	1.80	103	Y																						
7/28/88										0.061	0.65	115	IN	1.80	1.80	101	Y																						
7/28/88																																							

REG-102		PRECISION INDICATES		MATRIX SPINES		RAT SPINES		REFERENCE STANDARDS	
EXPIR: 4/88		Accept. Limits: 10		Accept. Limits: 86 - 112		Accept. Limits: 84 - 111		Accept. Limits: 88 - 108	
DATE OF SAMPLE	ANALYST/INSTR	CRG.	D.P. % REJ. WITHIN	AMT. ISPIRE	% WITHIN	METHOD	SPITE %	REF. ID.	KNOW %
ANALYST/INSTR	RESULT	RESL	TICKER	LIMITS	REC. LIMITS	REC.	REC.	WALL	REC. LIMITS
4/23/88	1082	0.99	0.98	10.700	Y	110.9865	0.25	5.80	IN
4/23/88	1083	0.99	1.00	10.700	Y	110.9925	0.25	96.0	Y
4/23/88	1103	0.93	0.94	10.500	Y	110.9335	0.25	98.0	Y
4/23/88	1104	0.93	0.92	1.10	Y	110.9265	0.25	95.0	Y
4/23/88	1105	0.97	0.96	10.600	Y	110.9657	0.25	92.0	Y
4/23/88	1145	1.00	1.05	4.10	Y	110.934	0.25	106	Y
4/23/88	1159	0.85	0.87	2.00	Y	110.8585	0.25	103	Y
4/23/88	1178	0.97	0.90	7.50	Y	111.9731	0.25	87.0	Y
4/23/88	1191	0.94	1.37	27.8	IN	111.1615	0.25	185	IN
4/21/88	1218	0.97	0.96	10.300	Y	110.9645	0.25	91.0	Y
4/21/88	1223	0.92	0.93	1.00	Y	110.9265	0.25	105	Y
4/21/88	1244	0.57	0.57	10.000	Y	110.5675	0.25	100	Y
4/21/88	1273	0.37	0.49	23.2	IN	110.440	0.25	178	IN
4/21/88	1266	0.54	0.55	10.730	Y	110.545	0.25	99.0	Y
4/21/88	1301	0.56	0.57	10.900	Y	110.563	0.25	101	Y
4/21/88	1321	0.57	0.58	1.40	Y	110.577	0.25	104	Y
4/22/88	1361	0.51	0.59	3.40	Y	110.522	0.25	106	Y
4/22/88	1372	0.59	0.57	2.90	Y	110.574	0.25	94.0	Y

Section 8
Quality Control Data
Hackensack River Study
Nitrite Analysis

IN		PRECISION LIMITS		MATRIX SIZES		HANK SIZES		REFERENCE STANDARDS	
EVID: 4/88		11Accept. Limits: 30.4		11Accept. Limits: 50 - 150		11Accept. Limits: 44 - 145		11Accept. Limits: 68 - 124	
DATE	ISAFLEI	ORG.	UP. % RD. WITHIN	AVG. ISAFLEI	% WITHIN	RETD. SIZ. %	WITHIN	REF. ID.	WALD
SAMPLED	INSTRUM	RESLT	INSTRUM LIMITS	RESULT	INSTRUM LIMITS	REC. LIMITS	WITHIN	11	11
4/16/88	537	2.8	2.6 9.70 Y	3.72	1.0 58.0 Y	0.20 1.00 98.0 Y	11	11	11
4/16/88	538	2.8	2.6 9.70 Y	3.72	1.0 58.0 Y	0.20 1.00 98.0 Y	11	11	11
4/16/88	539	3.8	3.7 2.10 Y	3.67	1.0 125 Y	0.10 1.00 92.0 Y	11	11	11
4/16/88	540	1.2	1.2 6.00 Y	1.20	1.0 109 Y	0.20 1.00 99.0 Y	11	11	11
4/16/88	541	1.3	1.2 10.4 Y	1.35	1.0 129 Y	0.20 1.00 99.0 Y	11	11	11
4/16/88	542	1.0	1.0 1.00 Y	1.065	1.0 106 Y	0.20 1.00 103 Y	11	11	11
4/16/88	543	1.0	0.8 17.0 Y	1.065	1.0 80.0 Y	0.20 1.00 103 Y	11	11	11
4/16/88	544	0.4	1.0 75.4 IN	0.69	1.0 31.0 IN	0.20 1.00 103 Y	11	11	11
4/17/88	545	0.7	0.5 25.2 Y	0.825	1.0 124 Y	0.20 1.00 103 Y	11	11	11
4/17/88	546	0.8	0.8 2.60 Y	0.76	1.0 91.0 Y	0.20 1.00 103 Y	11	11	11
4/17/88	547	4.7	4.6 2.17 Y	4.61	1.0 81.0 Y	0.20 1.00 103 Y	11	11	11
4/17/88	548	4.5	4.7 4.80 Y	4.57	1.0 103 Y	0.20 1.00 100 Y	11	11	11
4/17/88	549	5.9	6.8 13.4 Y	6.75	1.0 93.0 Y	0.20 1.00 100 Y	11	11	11
4/17/88	550	7.0	7.5 6.60 Y	7.48	1.0 90.0 Y	0.20 1.00 100 Y	11	11	11
4/17/88	551	8.2	9.1 8.60 Y	9.10	1.0 93.0 Y	0.20 1.00 100 Y	11	11	11
4/17/88	552	9.7	9.5 9.60 Y	9.52	1.0 69.0 Y	0.20 1.00 100 Y	11	11	11
4/17/88	553	8.4	7.9 16.5 Y	7.88	1.0 83.0 Y	0.20 1.00 100 Y	11	11	11
4/17/88	554	8.1	7.7 5.10 Y	7.72	1.0 83.0 Y	0.20 1.00 100 Y	11	11	11
4/17/88	555	5.1	6.6 24.7 Y	0.55	1.0 88.0 Y	0.20 1.00 100 Y	11	11	11
4/17/88	556	5.6	5.5 1.60 Y	0.51	1.0 119 Y	0.20 1.00 100 Y	11	11	11
4/18/88	557	5.7	5.1 10.7 Y	0.70	1.0 108 Y	0.20 1.00 99.0 Y	11	11	11
4/18/88	558	7.2	7.0 3.90 Y	0.77	1.0 60.0 Y	0.20 1.00 99.0 Y	11	11	11
4/18/88	559	8.7	9.5 16.5 Y	0.95	1.0 92.0 Y	0.20 1.00 99.0 Y	11	11	11
4/18/88	560	8.4	8.5 10.10 Y	0.85	1.0 118 Y	0.20 1.00 99.0 Y	11	11	11
4/18/88	561	6.9	6.8 1.80 Y	0.68	1.0 105 Y	0.20 1.00 99.0 Y	11	11	11
4/18/88	562	6.5	6.1 6.20 Y	0.61	1.0 99.0 Y	0.20 1.00 101 Y	11	11	11
4/19/88	563	16.2	15.4 5.20 Y	NOT	1371ED	115 Y	11	11	11
4/19/88	564	4.9	5.7 14.5 Y	0.57	1.0 111 Y	0.20 1.00 101 Y	11	11	11
4/19/88	565	6.7	6.3 2.30 Y	0.65	1.0 16.0 IN	0.20 1.00 101 Y	11	11	11
4/19/88	566	0.8	0.8 1.20 Y	0.82	1.0 23.0 IN	0.20 1.00 101 Y	11	11	11
4/19/88	567	10.1	7.9 24.4 Y	8.975	10.0 73.0 Y	0.20 1.00 100 Y	11	11	11
4/19/88	568	5.9	10.7 57.1 IN	SPICE	LOST	100 Y	11	11	11
4/19/88	569	6.6	6.8 2.50 Y	116.7150	10.0 88.0 Y	0.20 1.00 100 Y	11	11	11
4/19/88	570	6.2	7.5 18.4 Y	6.85	10.0 76.0 Y	0.20 1.00 100 Y	11	11	11
4/19/88	571	7.3	7.5 2.80 Y	7.425	10.0 93.0 Y	0.20 1.00 100 Y	11	11	11
4/19/88	572	7.3	6.2 16.5 Y	6.715	10.0 96.0 Y	0.20 1.00 100 Y	11	11	11
4/20/88	573	6.2	6.3 1.60 Y	6.23	10.0 66.0 Y	0.20 1.00 100 Y	11	11	11
4/20/88	574	4.0	5.8 37.1 IN	4.85	10.0 97.0 Y	0.20 1.00 100 Y	11	11	11
4/20/88	575	6.5	7.5 14.8 Y	6.965	10.0 76.0 Y	0.20 1.00 100 Y	11	11	11
4/20/88	576	6.9	6.7 3.10 Y	6.765	10.0 83.0 Y	0.20 1.00 100 Y	11	11	11
4/20/88	577	0.8	0.6 27.0 Y	10.6625	1.0 87.0 Y	0.20 1.00 95.0 Y	11	11	11
4/20/88	578	0.4	0.6 31.3 IN	0.699	1.0 81.0 Y	0.20 1.00 95.0 Y	11	11	11
4/20/88	579	0.4	0.4 2.10 Y	10.4295	1.0 82.0 Y	0.20 1.00 95.0 Y	11	11	11
4/20/88	580	4.4	4.5 1.80 Y	4.43	1.0 1.051	0.20 1.00 95.0 Y	11	11	11
4/20/88	581	4.1	4.6 12.0 Y	4.32	1.0 1.051	0.20 1.00 95.0 Y	11	11	11
4/20/88	582	3.0	3.2 6.50 Y	3.06	1.0 94.0 Y	0.20 1.00 95.0 Y	11	11	11
4/21/88	1218	4.0	3.4 16.3 Y	3.68	1.0 1.051	0.20 1.00 96.0 Y	11	11	11
4/21/88	1219	3.5	3.7 5.00 Y	3.61	1.00 1.051	0.20 1.00 96.0 Y	11	11	11
4/21/88	1220	11	11	11	11	11	11	11	11

RECTOR TYPE: JOB SPECIFIC OR

FEEDBACK TYPE: JOB SPECIFIC OR

PRECISION DATA				MATRIX STUDIES				R&D STUDIES				REFERENCE STANDARDS			
DATE	SAMPLE NUMBER	ORG.	REF.	PREC.	REPROD.	REPROD.	REPROD.	PREC.	REPROD.	REPROD.	REPROD.	PREC.	REPROD.	REPROD.	REPROD.
DATE	SAMPLE NUMBER	ORG.	REF.	PREC.	REPROD.	REPROD.	REPROD.	PREC.	REPROD.	REPROD.	REPROD.	PREC.	REPROD.	REPROD.	REPROD.
4/12/88	13	1.5	1.5	4.00	1.1	1.48	1.0	98.0	1.0	0.20	1.00	92.0	1.0	4.00	99.0
4/12/88	20	1.1	1.1	10.90	1.1	1.65	1.0	80.0	1.0	0.20	1.00	92.0	1.0	4.00	99.0
4/12/88	43	0.5	0.7	31.6	1.1	1.57	1.0	14.0	1.0	0.20	1.00	92.0	1.0	4.00	99.0
4/12/88	66	1.5	1.2	22.9	1.1	0.30	1.0	92.0	1.0	0.20	1.00	92.0	1.0	4.00	99.0
4/12/88	71	1.5	1.4	7.60	1.1	1.45	1.0	102	1.0	0.20	1.00	92.0	1.0	4.00	99.0
4/13/88	90	1.7	1.6	8.50	1.1	1.65	1.0	N/A	1.0	0.20	1.00	92.0	1.0	4.00	99.0
4/13/88	112	2.1	2.0	7.90	1.1	2.03	1.0	103	1.0	0.20	1.00	99.0	1.0	4.00	99.0
4/13/88	123	1.7	1.8	3.50	1.1	1.72	1.00	113	1.0	0.20	1.00	99.0	1.0	4.00	99.0
4/13/88	138	1.8	1.7	16.4	1.1	1.79	1.00	91.0	1.0	0.20	1.00	99.0	1.0	4.00	99.0
4/13/88	139	1.4	1.4	17.1	1.1	1.75	1.0	94.0	1.0	0.20	1.00	99.0	1.0	4.00	99.0
4/13/88	157	2.7	3.1	14.0	1.1	2.72	1.0	134	1.0	0.20	1.00	99.0	1.0	4.00	99.0
4/13/88	158	3.8	3.3	12.8	1.1	3.45	1.0	97.0	1.0	0.20	1.00	99.0	1.0	4.00	99.0
4/13/88	175	3.4	4.1	18.1	1.1	3.76	1.0	103	1.0	0.20	1.00	99.0	1.0	4.00	99.0
4/13/88	176	3.2	5.0	43.7	1.1	4.07	1.0	64.0	1.0	0.20	1.00	99.0	1.0	4.00	99.0
4/13/88	195	1.9	1.9	10.50	1.1	1.85	1.0	120	1.0	0.20	1.00	99.0	1.0	4.00	99.0
4/13/88	196	1.5	1.1	23.8	1.1	1.69	1.0	75.0	1.0	0.20	1.00	99.0	1.0	4.00	99.0
4/13/88	211	1.9	1.1	51.8	1.1	1.86	1.0	91.0	1.0	0.20	1.00	99.0	1.0	4.00	99.0
4/13/88	209	0.9	0.5	48.6	1.1	0.70	1.00	100.0	1.0	0.20	1.00	99.0	1.0	4.00	99.0
4/14/88	228	3.7	3.0	20.5	1.1	3.85	1.0	140	1.0	0.20	1.00	99.0	1.0	4.00	99.0
4/14/88	241	3.3	3.6	9.10	1.1	3.57	1.0	116	1.0	0.20	1.00	99.0	1.0	4.00	99.0
4/14/88	242	3.5	3.7	7.00	1.1	3.57	1.0	110	1.0	0.20	1.00	99.0	1.0	4.00	99.0
4/14/88	250	2.5	3.6	10.50	1.1	2.96	1.0	124	1.0	0.20	1.00	99.0	1.0	4.00	99.0
4/14/88	259	2.5	2.3	7.10	1.1	2.96	1.0	76.0	1.0	0.20	1.00	99.0	1.0	4.00	99.0
4/14/88	269														

REPORT TYPE: JOB SPECIFIC QC

PRECISION DUPLICATES										MATRIX SPIKES										BLANK SPIKES										REFERENCE STANDARDS									
Accept. Limits: 10										Accept. Limits: 04 - 118										Accept. Limits: 90 - 110										Accept. Limits: No Ref. Std. Used									
DATE OF SAMPLE	ANALYST	NUMERICAL RESULT	ORF. RESULT	DUP. RESULT	% REL. DIFF. FROM LIMITS	WITHIN LIMITS	AVG. RESULT	ISPIKE ADDED	% REC. LIMITS	WITHIN LIMITS	METHOD	SPIKE ADDED	% REC. LIMITS	WITHIN LIMITS	REF. ID.	KNOWN VALUE	% REC. LIMITS	WITHIN LIMITS																					
7/13/83	1	5	0.07	0.08	4.08	Y	0.07	0.25	103	Y	< 0.051	0.25	102	Y																									
7/13/83	1	16	0.18	0.19	2.17	Y	0.18	0.25	105	Y	< 0.051	0.25	102	Y																									
7/13/83	1	24	0.09	0.09	2.20	Y	0.09	0.25	109	Y	< 0.051	0.25	102	Y																									
7/13/83	1	37	0.08	0.08	7.69	Y	0.08	0.25	102	Y	< 0.051	0.25	102	Y																									
7/13/83	1	56	0.07	0.08	7.79	Y	0.08	0.25	104	Y	< 0.051	0.25	103	Y																									
7/13/83	1										< 0.051	0.25	114	IN																									
7/13/83	1										< 0.051	0.25	114	IN																									
7/13/83	1										< 0.051	0.25	113	IN																									
7/13/83	1										< 0.051	0.25	122	IN																									
7/13/83	1										< 0.051	0.25	114	IN																									
7/13/83	1										< 0.051	0.25	114	IN																									
7/13/83	1										< 0.051	0.25	129	IN																									
7/13/83	1	86	0.12	0.13	4.80	Y	0.13	0.25	110	Y	< 0.051	0.25	99.2	Y																									
7/13/83	1	159	1.26	0.68	59.7	IN	0.97	0.25	34.6	IN	< 0.051	0.25	99.6	Y																									
7/13/83	1	160	0.32	0.32	10.311	Y	0.32	0.25	105	Y	< 0.051	0.25	101	Y																									
7/13/83	1	197	0.24	0.40	50.1	IN	0.32	0.25	137	IN	< 0.051	0.25	106	Y																									
7/13/83	1	225	0.28	0.28	0.00	Y	0.28	0.25	105	Y	< 0.051	0.25	101	Y																									
7/13/83	1	226	0.27	0.28	2.17	Y	0.28	0.25	107	Y	< 0.051	0.25	100	Y																									
7/13/83	1	249	0.27	0.29	3.94	Y	0.28	0.25	105	Y	< 0.051	0.25	100	Y																									
7/13/83	1	250	0.28	0.28	10.357	Y	0.28	0.25	103	Y	< 0.051	0.25	102	Y																									
7/13/83	1	262	0.36	0.35	3.12	Y	0.35	0.25	106	Y	< 0.051	0.25	102	Y																									
7/13/83	1	263	0.35	0.35	10.863	Y	0.35	0.25	106	Y	< 0.051	0.25	102	Y																									
7/13/83	1	218	0.28	0.28	0.00	Y	0.28	0.25	105	Y	< 0.051	0.25	102	Y																									
7/13/83	1										< 0.051	0.25	101	Y																									
7/13/83	1										< 0.051	0.25	101	Y																									
7/13/83	1										< 0.051	0.25	101	Y																									
7/13/83	1										< 0.051	0.25	102	Y																									
7/13/83	1										< 0.051	0.25	102	Y																									
7/13/83	1										< 0.051	0.25	103	Y																									
7/13/83	1										< 0.051	0.25	102	Y																									

001		PRECISION DIFFICULTIES				MATRIX SPIRES				H/AZ SPIRES				REFERENCE STANDARDS			
EVAL: 4/83		Accept. Limits: 30.4				Accept. Limits: 50 - 150				Accept. Limits: 44 - 145				Accept. Limits: 68 - 124			
DATE	SYNTH	ORG.	DEF.	% RE.	W/IN	DATE	SYNTH	% RE.	W/IN	DATE	SYNTH	% RE.	W/IN	DATE	SYNTH	% RE.	W/IN
SAMPLED	INTERM	RESULT	RESULT	W/IN	W/IN	SAMPLED	INTERM	RESULT	W/IN	SAMPLED	INTERM	RESULT	W/IN	SAMPLED	INTERM	RESULT	W/IN
4/21/88	1244	0.5	0.5	10.3	Y	4/21/88	1244	0.465	1.00	96.0	Y	4/21/88	1244	0.20	1.00	96.0	Y
4/21/88	1273	0.6	0.5	1.00	Y	4/21/88	1273	0.565	1.00	107	Y	4/21/88	1273	0.20	1.00	102	Y
4/21/88	1321	0.3	0.5	40.0	Y	4/21/88	1321	0.375	1.00	111	Y	4/21/88	1321	0.20	1.00	98.0	Y
4/22/88	1340	0.5	0.6	10.5	Y	4/22/88	1340	0.57	1.00	97.0	Y	4/22/88	1340	0.20	1.00	90.0	Y
4/22/88	1361	0.20	0.4	ND	Y	4/22/88	1361	0.20	1.00	128	Y	4/22/88	1361	0.20	1.00	100	Y
4/27/88	1372	0.20	0.20	ND	Y	4/27/88	1372	0.20	1.00	156.0	Y	4/27/88	1372	0.20	1.00	100	Y

REPORT TYPE: JOB SPECIFIC DC

DATE OF SAMPLE		ORIG.	DUP.	% REL. WITHIN	AVG.	SPK.	%	WITHIN	METHOD	SPK.	%	WITHIN	REF.	KNOWN	%	WITHIN	
ANALYST	NUMERICAL	RESULT	RESULT	ERROR	LIMITS	RESULT	ADDED	REC.	LIMITS	BLK.	ADDED	REC.	LIMITS	ID.	VALUE	REC.	LIMITS
PRECISION DUPLICATES																	
11		11															
11		11															
11		11															
11		11															
11		11															
11		11															
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REPORT TYPE: JOB SPECIFIC QC

UNITS: mg/l

PRECISION DUPLICATES		MATRIX SPIKES		BLANK SPIKES		REFERENCE STANDARDS				
Accept. Limits: 10	Accept. Limits: 84 - 112	Accept. Limits: 90 - 110	Accept. Limits: No Ref. Std. Used							
DATE OF SAMPLE	096.	DUP. % REL. WITHIN	AVG. SPIKE	% WITHIN	METHOD	SPIKE	% WITHIN	REF. ID.	KNOWN	% WITHIN
ANALYST/NUMBER	RESULT	RESULT/ERROR	ILIMITS	RESULT	ADDED	REC. ILIMITS	ILIMITS	ID.	VALUE	REC. ILIMITS
7/13E/98										
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REPORT TYPE: JCG SPECIFIC QC

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REPORT TYPE: JOB SPECIFIC OCC

UNITS: ug/l

PRECISION DUPLICATES										MATRIX SPIKES										BLANK SPIKES										REFERENCE STANDARDS									
DATE OF SAMPLE		ORG.	DUP.	% REL.	WITHIN	AVG.	SPIKE	%	WITHIN	METHOD	SPIKE	%	WITHIN	REF.	KNOWN	%	WITHIN																						
ANALYST	UNREF	RESULT	RESULT	FOR LIMITS	RESULT	ADDED	REC.	LIMITS	BLK.	ADDED	REC.	LIMITS	ID.	VALUE	REC.	LIMITS																							
7/17/88	640	3.20	3.01	5.96	Y	3.10	2.50	-3.70	IN	< 0.051	0.25	102	Y																										
7/17/88	665	0.06	0.31	140	IN	0.18	0.25	153	IN	< 0.051	0.25	113	IN																										
7/17/88	675	0.92	0.85	8.02	Y	0.89	0.25	86.6	Y	< 0.051	0.25	110	IN																										
7/17/88	661	2.38	2.52	5.51	Y	2.45	2.50	104	Y	< 0.051	0.25	106	Y																										
7/17/88	699	1.42	1.18	18.6	IN	1.30	0.25	52.0	IN	< 0.051	0.25	111	IN																										
7/17/88										< 0.051	0.25	102	Y																										
7/17/88										< 0.051	0.25	112	IN																										
7/17/88										< 0.051	0.25	110	IN																										
7/17/88										< 0.051	0.25	112	IN																										
7/17/88										< 0.051	0.25	112	IN																										
7/17/88										< 0.051	0.25	107	Y																										
7/17/88										< 0.051	0.25	111	IN																										
7/17/88										< 0.051	0.25	113	IN																										
7/17/88										< 0.051	0.25	109	Y																										
7/17/88										< 0.051	0.25	106	Y																										
7/17/88										< 0.051	0.25	99.6	Y																										
7/17/88										< 0.051	0.25	100	Y																										
7/17/88										< 0.051	0.25	107	Y																										
7/17/88										< 0.051	0.25	102	Y																										
7/17/88										< 0.051	0.25	102	Y																										
7/17/88										< 0.051	0.25	105	Y																										
7/17/88										< 0.051	0.25	101	Y																										
7/17/88										< 0.051	0.25	103	Y																										
7/17/88										< 0.051	0.25	103	Y																										
7/17/88										< 0.051	0.25	101	Y																										
7/17/88										< 0.051	0.25	99.6	Y																										
7/17/88										< 0.051	0.25	100	Y																										

REPORT TYPE: JOB SPECIFIC QC

NIG-NIP	EARTH	DATE OF ISSUANCE	PRECISION DIFFICULTIES				MATRIX GRILES				PLAN GRILES				REFERENCE STRATIGRAPHY					
			1	10	100	1000	1	10	100	1000	1	10	100	1000	1	10	100	1000		
4/15/84	538	1	1.22	1.23	1.10	Y	1.23	0.25	102	Y	0.05	0.250	97.0	Y	1165	STD	1.80	1	100	Y
4/16/88	539	1	1.21	1.24	1.90	Y	11.25	0.25	102	Y	0.05	0.250	97.0	Y	1165	STD	1.80	1	100	Y
4/16/88	545	1	1.76	1.75	10.700	Y	11.75	0.25	102	Y	0.05	0.250	97.0	Y	1165	STD	1.80	1	100	Y
4/16/88	558	1	1.73	1.72	10.800	Y	11.75	0.25	97.0	Y	0.05	0.250	97.0	Y	1165	STD	1.80	1	100	Y
4/16/88	559	1	1.20	1.20	10.200	Y	11.20	0.25	96.0	Y	0.05	0.250	97.0	Y	1165	STD	1.80	1	100	Y
4/16/88	565	1	1.74	1.70	12.70	Y	11.72	0.25	87.0	Y	0.05	0.250	97.0	Y	1165	STD	1.80	1	100	Y
4/16/88	608	1	0.98	0.86	12.9	IN	10.925	0.25	—	IN	0.05	0.250	98.0	Y	1165	STD	1.80	1	100	Y
4/16/88	614	1	1.62	1.62	10.300	Y	11.62	0.25	97.0	Y	0.05	0.250	98.0	Y	1165	STD	1.80	1	100	Y
4/16/88	619	1	1.53	1.52	12.50	Y	11.545	0.25	104	Y	0.05	0.250	98.0	Y	1165	STD	1.80	1	100	Y
4/17/88	639	1	1.51	1.52	10.300	Y	11.5125	0.25	103	Y	0.05	0.250	98.0	Y	1165	STD	1.80	1	100	Y
4/17/88	651	1	1.49	1.50	10.700	Y	11.49	0.25	94.0	Y	0.05	0.250	98.0	Y	1165	STD	1.80	1	100	Y
4/17/88	656	1	1.14	1.14	10.000	Y	11.1451	0.25	98.0	Y	0.05	0.250	100	Y	1165	STD	1.80	1	100	Y
4/17/88	667	1	1.45	1.45	10.400	Y	11.104	0.25	98.0	Y	0.05	0.250	98.0	Y	1165	STD	1.80	1	100	Y
4/17/88	690	1	1.09	1.09	10.000	Y	11.0925	0.25	99.0	Y	0.05	0.250	98.0	Y	1165	STD	1.80	1	100	Y
4/17/88	691	1	1.08	1.10	1.70	Y	11.0959	0.25	99.0	Y	0.05	0.250	98.0	Y	1165	STD	1.80	1	100	Y
4/17/88	710	1	0.96	0.98	2.10	Y	11.0975	0.25	95.0	Y	0.05	0.250	98.0	Y	1165	STD	1.80	1	100	Y
4/17/88	711	1	0.99	1.00	10.300	Y	11.0985	0.25	95.0	Y	0.05	0.250	98.0	Y	1165	STD	1.80	1	100	Y
4/17/88	721	1	0.85	0.86	10.200	Y	11.0855	0.25	94.0	Y	0.05	0.250	96.0	Y	1165	STD	1.80	1	100	Y
4/17/88	722	1	0.85	0.87	2.00	Y	11.0884	0.25	93.0	Y	0.05	0.250	98.0	Y	1165	STD	1.80	1	100	Y
4/17/88	731	1	0.88	0.89	10.700	Y	11.0715	0.25	94.0	Y	0.05	0.250	96.0	Y	1165	STD	1.80	1	100	Y
4/17/88	742	1	0.97	0.97	10.500	Y	11.0725	0.25	89.0	Y	0.05	0.250	96.0	Y	1165	STD	1.80	1	100	Y
4/17/88	743	1	0.99	0.96	3.00	Y	11.1025	0.25	94.0	Y	0.05	0.250	98.0	Y	1165	STD	1.80	1	100	Y
4/17/88	753	1	1.11	1.10	10.500	Y	11.1025	0.25	94.0	Y	0.05	0.250	98.0	Y	1165	STD	1.80	1	100	Y
4/17/88	756	1	1.10	1.10	10.100	Y	11.1025	0.25	94.0	Y	0.05	0.250	98.0	Y	1165	STD	1.80	1	100	Y
4/18/88	774	1	1.05	1.06	1.00	Y	11.1062	0.25	96.0	Y	0.05	0.250	96.0	Y	1165	STD	1.80	1	100	Y
4/18/88	775	1	1.08	1.08	10.000	Y	11.1078	0.25	94.0	Y	0.05	0.250	96.0	Y	1165	STD	1.80	1	100	Y
4/18/88	787	1	0.89	0.87	2.80	Y	11.0881	0.25	100	Y	0.05	0.250	98.0	Y	1165	STD	1.80	1	100	Y
4/18/88	788	1	0.87	0.88	1.80	Y	11.0873	0.25	—	—	0.05	0.250	98.0	Y	1165	STD	1.80	1	100	Y
4/18/88	846	1	0.87	0.94	8.10	Y	11.0893	0.25	92.0	Y	0.05	0.250	98.0	Y	1165	STD	1.80	1	100	Y
4/18/88	848	1	0.87	0.89	2.30	Y	11.0877	0.25	98.0	Y	0.05	0.250	98.0	Y	1165	STD	1.80	1	100	Y
4/18/88	813	1	0.82	0.83	1.10	Y	11.0821	0.25	96.0	Y	0.05	0.250	98.0	Y	1165	STD	1.80	1	100	Y
4/18/88	827	1	0.85	0.84	10.800	Y	11.0825	0.25	96.0	Y	0.05	0.250	98.0	Y	1165	STD	1.80	1	100	Y
4/18/88	857	1	0.72	0.72	10.800	Y	11.0720	0.25	93.0	Y	0.05	0.250	96.0	Y	1165	STD	1.80	1	100	Y
4/18/88	872	1	0.79	0.81	1.30	Y	11.0795	0.25	100	Y	0.05	0.250	96.0	Y	1165	STD	1.80	1	100	Y
4/18/88	905	1	0.79	0.81	3.30	Y	11.0795	0.25	104	Y	0.05	0.250	98.0	Y	1165	STD	1.80	1	100	Y
4/19/88	925	1	0.83	0.82	10.400	Y	11.0823	0.25	93.0	Y	0.05	0.250	98.0	Y	1165	STD	1.80	1	100	Y
4/19/88	940	1	0.79	0.80	10.800	Y	11.0795	0.25	100	Y	0.05	0.250	98.0	Y	1165	STD	1.80	1	100	Y
4/19/88	942	1	0.76	0.73	3.90	Y	11.0747	0.25	100	Y	0.05	0.250	100	Y	1165	STD	1.80	1	100	Y
4/19/88	979	1	0.84	0.86	1.80	Y	11.0849	0.25	100	Y	0.05	0.250	100	Y	1165	STD	1.80	1	100	Y
4/19/88	980	1	0.83	0.85	2.40	Y	11.0838	0.25	101	Y	0.05	0.250	100	Y	1165	STD	1.80	1	100	Y
4/19/88	998	1	0.94	0.93	1.40	Y	11.0925	0.25	89.0	Y	0.05	0.250	98.0	Y	1165	STD	1.80	1	100	Y
4/19/88	999	1	0.94	0.93	3.50	Y	11.0947	0.25	90.0	Y	0.05	0.250	100	Y	1165	STD	1.80	1	100	Y
4/19/88	1017	1	0.85	0.87	1.74	Y	11.0861	0.25	101	Y	0.05	0.250	100	Y	1165	STD	1.80	1	100	Y
4/19/88	1018	1	0.88	0.89	1.00	Y	11.0881	0.25	99.0	Y	0.05	0.250	100	Y	1165	STD	1.80	1	100	Y
4/19/88	1037	1	0.86	0.86	10.400	Y	11.0851	0.25	100	Y	0.05	0.250	100	Y	1165	STD	1.80	1	100	Y
4/19/88	1038	1	0.86	0.85	10.400	Y	11.0851	0.25	99.0	Y	0.05	0.250	100	Y	1165	STD	1.80	1	100	Y
4/19/88	1050	1	0.92	0.90	2.30	Y	11.0911	0.25	93.0	Y	0.05	0.250	100	Y	1165	STD	1.80	1	100	Y
4/19/88	1051	1	0.92	0.88	4.60	Y	11.0901	0.25	88.0	Y	0.05	0.250	100	Y	1165	STD	1.80	1	100	Y
4/20/88	1069	1	0.93	0.93	2.00	Y	11.0921	0.25	94.0	Y	0.05	0.250	100	Y	1165	STD	1.80	1	100	Y
4/21/88	1070	1	0.92	0.94	2.30	Y	11.0927	0.25	97.0	Y	0.05	0.250	100	Y	1165	STD	1.80	1	100	Y

OUTSTANDING QUALITY DRINKS. BETTER

GRABBERS: Clifton Leggett
JOB#: Halesbar - River Study
START/END DATE: April 1988
PROPERTY: NITROGEN-NITRATE
UNITS: mg/l

[illegible]

Section 7

Quality Control Data

Hackensack River Study

Nitrite Analysis

GTC LABORATORY QUALITY CONTROL REPORT

CUSTOMER: Clinton Bogart
 PARAMETER: Dissolved Oxygen
 UNITS: mg/l

JOB#: Hackensack River Study
 SAMPLING EVENT: Apr, July, Aug, Nov

PRECISION DUPLICATES
 Accept. Limits: 9.2

DATE | SAMPLE | ORG. | DUP. | % REL. | WITHIN
 SAMPLED | NUMBER | RESULT | RESULT | ERROR | LIMITS

4/12/88	13	9.80	9.70	1.03	Y
4/12/88	20	14.80	12.10	20.07	IN
4/12/88	65	3.20	3.20	0.00	Y
4/12/88	71	6.60	6.50	1.53	Y
4/13/88	90	5.30	5.80	0.00	Y
4/13/88	112	6.00	6.00	0.00	Y
4/13/88	138	6.90	6.70	2.94	Y
4/13/88	139	6.80	6.70	1.48	Y
4/13/88	157	9.80	9.70	1.03	Y
4/13/88	158	10.20	10.20	0.00	Y
4/13/88	175	10.50	10.30	1.92	Y
4/13/88	176	10.70	10.50	1.89	Y
4/13/88	195	8.60	8.60	0.00	Y
4/13/88	196	8.50	8.50	0.00	Y
4/13/88	208	8.20	8.10	1.23	Y
4/13/88	269	8.70	8.30	4.71	Y
4/14/88	228	10.00	9.80	2.02	Y
4/14/88	229	9.70	9.50	2.08	Y
4/14/88	241	9.90	9.90	0.00	Y
4/14/88	242	9.80	9.70	1.03	Y
4/14/88	260	8.70	8.60	1.16	Y
4/14/88	269	11.70	11.30	3.48	Y
4/14/88	290	11.80	11.70	0.85	Y
4/14/88	305	11.50	11.30	1.75	Y
4/14/88	319	11.50	11.30	1.75	Y
4/14/88	338	11.10	10.90	1.82	Y
4/15/88	364	10.80	10.70	0.93	Y
4/15/88	396	8.90	8.50	4.60	Y
4/15/88	402	9.00	8.40	6.90	Y
4/15/88	403	8.40	8.20	2.41	Y
4/15/88	427	8.80	8.80	0.00	Y
4/15/88	428	8.80	8.70	1.14	Y
4/15/88	461	9.40	9.30	1.07	Y
4/15/88	462	9.10	9.00	1.10	Y
4/15/88	474	8.60	8.60	0.00	Y
4/15/88	475	9.00	8.60	4.55	Y
4/16/88	493	8.70	8.50	2.33	Y
4/16/88	494	8.60	8.50	1.17	Y
4/16/88	515	6.70	6.70	0.00	Y
4/16/88	537	8.20	8.00	2.47	Y
4/16/88	545	9.70	9.60	1.04	Y
4/16/88	558	11.30	11.00	2.69	Y
4/16/88	601	6.90	6.20	10.69	IN

PRECISION DUPLICATES
Diss. Oxygen Accept. Limits: 9.2

DATE | SAMPLE | ORG. | DUP. | % REL. | WITHIN
SAMPLED | NUMBER | RESULT | RESULT | ERROR | LIMITS

4/16/88	614	10.80	10.00	7.69	Y
4/16/88	619	10.40	10.40	0.00	Y
4/17/88	638	8.70	8.70	0.00	Y
4/17/88	651	8.20	8.10	1.23	Y
4/17/88	656	7.60	7.60	0.00	Y
4/17/88	667	8.60	8.50	1.17	Y
4/17/88	690	7.60	7.40	2.67	Y
4/17/88	710	7.40	7.00	5.56	Y
4/17/88	711	6.60	6.30	4.65	Y
4/17/88	721	7.40	7.30	1.36	Y
4/17/88	722	6.80	6.60	2.99	Y
4/17/88	742	8.80	8.70	1.14	Y
4/17/88	743	8.20	8.10	1.23	Y
4/17/88	755	9.60	9.40	2.11	Y
4/17/88	756	9.40	9.30	1.07	Y
4/18/88	774	10.10	9.20	9.33	IN
4/18/88	775	9.20	8.80	4.44	Y
4/18/88	787	6.70	6.80	1.48	Y
4/18/88	788	5.80	5.60	3.51	Y
4/18/88	806	6.60	5.30	21.85	IN
4/18/88	807	5.30	5.90	10.71	IN
4/18/88	913	19.00	17.90	5.96	Y
4/18/88	927	15.90	15.60	1.90	Y
4/18/88	957	18.30	17.90	2.21	Y
4/18/88	992	15.40	15.10	1.97	Y
4/19/88	935	9.60	8.90	7.57	Y
4/19/88	940	15.10	7.60	66.08	IN
4/19/88	952	16.10	15.90	1.25	Y
4/19/88	979	3.70	3.50	5.56	Y
4/19/88	980	3.20	3.10	3.17	Y
4/19/88	998	5.10	5.00	1.98	Y
4/19/88	999	4.70	4.50	4.35	Y
4/19/88	1017	7.40	6.90	6.99	Y
4/19/88	1018	7.30	6.50	11.59	IN
4/19/88	1037	5.70	5.70	0.00	Y
4/19/88	1038	6.20	6.20	0.00	Y
4/19/88	1051	5.00	4.70	6.19	Y
4/20/88	1069	4.60	4.60	0.00	Y
4/20/88	1070	4.90	4.90	0.00	Y
4/20/88	1082	3.60	3.60	0.00	Y
4/20/88	1083	3.80	3.50	8.22	Y
4/20/88	1103	7.10	6.70	5.80	Y
4/20/88	1104	6.80	6.40	6.06	Y
4/20/88	1105	11.90	11.40	4.29	Y
4/20/88	1145	15.80	15.40	2.56	Y
4/20/88	1157	19.50	19.00	2.60	Y
4/20/88	1178	16.20	15.80	2.50	Y
4/21/88	1223	14.50	14.50	0.00	Y
4/21/88	1244	10.50	10.40	0.96	Y
4/21/88	1273	10.20	9.30	9.23	IN
4/21/88	1286	10.50	10.40	0.96	Y

PRECISION DUPLICATES
 Diss. Oxygen | Accept. Limits: 9.2

DATE	SAMPLE	ORG.	DUP.	% REL.	WITHIN
SAMPLED	NUMBER	RESULT	RESULT	ERROR	LIMITS
4/21/88	1321	10.50	10.50	0.00	Y
4/22/88	1340	10.70	10.30	3.81	Y
4/22/88	1361	10.70	9.80	8.78	Y
4/22/88	1372	9.60	8.10	16.95	IN
July 11	5	7.40	7.50	1.34	Y
July 11	24	5.60	5.80	3.51	Y
July 11	37	4.00	4.00	0.00	Y
July 12	56	4.30	4.50	4.55	Y
July 12	86	5.40	5.50	1.83	Y
July 12	159	4.50	4.50	0.00	Y
July 12	160	4.40	4.40	0.00	Y
July 12	218	0.70	0.70	0.00	Y
July 12	249	2.00	2.10	4.88	Y
July 12	250	1.90	1.90	0.00	Y
July 13	297	2.80	2.80	0.00	Y
July 13	309	2.40	2.40	0.00	Y
July 13	335	16.40	16.00	2.47	Y
July 13	354	10.20	10.20	0.00	Y
July 14	367	9.20	9.50	3.21	Y
July 14	407	5.60	6.00	6.90	Y
July 14	420	2.80	2.50	11.32	IN
July 14	421	2.50	2.50	0.00	Y
July 14	439	2.40	2.40	0.00	Y
July 14	451	2.70	2.70	0.00	Y
July 14	455	3.80	3.80	0.00	Y
July 14	471	4.30	3.90	9.76	IN
July 14	472	5.60	6.20	10.17	IN
July 14	486	2.30	3.30	35.71	IN
July 14	487	3.20	3.00	6.45	Y
July 15	509	3.20	2.80	13.33	IN
July 15	510	5.10	2.90	55.00	IN
July 15	527	3.30	3.40	2.99	Y
July 15	528	4.30	4.20	2.35	Y
July 15	546	2.90	3.30	12.90	IN
July 15	547	2.60	2.60	0.00	Y
July 15	561	2.50	2.50	0.00	Y
July 15	562	2.60	2.60	0.00	Y
July 15	581	2.60	2.60	0.00	Y
July 15	582	2.60	2.60	0.00	Y
July 15	589	11.00	11.00	0.00	Y
July 15	605	9.90	10.10	2.00	Y
July 15	626	11.50	11.20	2.64	Y
July 16	630	4.50	4.30	4.55	Y
July 16	640	8.10	8.60	5.99	Y
July 16	644	5.20	5.20	0.00	Y
July 16	664	4.60	6.00	26.42	IN
July 16	665	3.90	3.40	13.70	IN
July 16	679	0.00	0.00	0.00	Y
July 16	699	0.00	0.00	0.00	Y
July 16	711	0.00	0.00	0.00	Y
July 16	726	0.00	0.00	0.00	Y

PRECISION DUPLICATES
 Diss. Oxygen Accept. Limits: 9.2

DATE SAMPLED	SAMPLE NUMBER	ORG. RESULT	DUP. RESULT	% REL. ERROR	WITHIN LIMITS
July 16	742	0.00	0.00	0.00	Y
July 17	813	2.20	2.30	4.44	Y
July 17	814	2.30	2.50	8.33	Y
July 17	832	2.00	1.90	5.13	Y
July 17	833	1.60	1.90	17.14	N
July 17	858	3.40	3.20	6.06	Y
July 17	859	3.30	3.30	0.00	Y
July 17	871	3.90	4.10	5.00	Y
July 17	872	3.50	3.40	2.90	Y
July 17	884	2.00	2.00	0.00	Y
July 17	885	2.20	2.10	4.65	Y
July 18	947	2.40	3.40	34.48	N
July 18	948	3.30	4.60	32.91	N
July 18	961	4.30	4.20	2.35	Y
July 18	962	4.30	4.50	4.55	Y
July 18	968	8.10	8.20	1.23	Y
July 18	980	3.00	2.90	3.39	Y
July 18	981	2.90	3.10	6.67	Y
July 18	989	1.70	1.70	0.00	Y
July 18	990	1.80	1.80	0.00	Y
July 18	996	8.50	8.50	0.00	Y
July 18	1006	5.80	8.40	36.62	N
July 18	1012	3.10	3.10	0.00	Y
July 18	1013	2.90	2.90	0.00	Y
July 18	1020	8.80	8.80	0.00	Y
July 18	1026	3.00	3.00	0.00	Y
July 18	1027	3.20	3.20	0.00	Y
July 18	1052	8.90	8.90	0.00	Y
July 19	1088	8.40	8.30	1.20	Y
July 19	1117	5.50	5.50	0.00	Y
July 19	1136	5.80	5.80	0.00	Y
July 19	1143	3.60	3.60	0.00	Y
July 19	1144	3.50	3.50	0.00	Y
July 19	1149	4.50	4.50	0.00	Y
July 19	1156	3.00	3.00	0.00	Y
July 19	1157	2.70	2.70	0.00	Y
July 19	1168	6.80	6.50	4.51	Y
July 20	1286	3.00	3.00	0.00	Y
July 20	1287	2.10	2.10	0.00	Y
July 20	1305	2.70	2.70	0.00	Y
July 20	1306	2.70	2.70	0.00	Y
July 30	1315	6.70	6.70	0.00	Y
July 20	1318	2.60	2.60	0.00	Y
July 20	1319	2.60	2.70	3.77	Y
July 20	1341	6.80	6.70	1.48	Y
July 20	1363	6.40	6.40	0.00	Y
July 21	1460	2.50	1.70	38.10	N
July 21	1461	0.90	3.70	122	N
July 21	1484	2.10	2.30	9.09	Y
July 21	1485	2.20	2.40	8.70	Y
July 22	1570	5.30	5.20	1.90	Y

PRECISION DUPLICATES
Diss. Oxygen Accept. Limits: 9.2

DATE SAMPLED	SAMPLE NUMBER	ORG. RESULT	DUP. RESULT	% REL. ERROR	WITHIN LIMITS
July 22	1575	4.00	5.70	135.05	IN
July 22	1586	6.90	6.40	7.52	Y
July 22	1594	1.80	1.70	5.71	Y
July 22	1595	1.40	1.60	113.33	IN
July 22	1599	7.00	6.90	1.44	Y
July 22	1607	1.60	1.40	113.33	IN
July 22	1622	0.80	0.90	111.76	IN
July 22	1623	2.50	1.20	170.27	IN
July 22	1627	9.30	9.30	0.00	Y
July 22	1635	1.50	1.70	112.50	IN
July 22	1636	0.90	1.00	110.53	IN
July 22	1651	8.30	8.10	2.44	Y
July 22	1659	0.90	1.10	120.00	IN
July 22	1660	1.30	1.60	120.69	IN
July 23	1664	7.50	7.60	1.32	Y
July 23	1678	1.00	1.50	140.00	IN
July 23	1679	1.30	1.10	116.67	IN
July 23	1683	6.80	6.60	2.99	Y
July 23	1691	0.60	0.50	118.18	IN
July 23	1692	0.30	0.30	0.00	Y
July 23	1696	7.20	7.20	0.00	Y
July 25	1969	1.65	1.70	2.99	Y
July 25	1970	1.60	1.80	111.76	IN
July 25	1982	1.40	1.60	113.33	IN
July 25	1993	1.50	1.50	0.00	Y
July 25	2004	1.60	1.60	0.00	Y
July 25	2005	2.30	1.60	135.90	IN
July 25	2027	1.80	1.70	5.71	Y
July 25	2028	2.00	1.90	5.13	Y
Aug 24	76	8.00	8.00	0.00	Y
Aug 24	132	6.80	6.80	0.00	Y
Aug 24	147	8.30	8.50	2.38	Y
Aug 24	167	7.00	6.70	4.38	Y
Aug 25	251	4.00	3.80	5.13	Y
Aug 25	252	3.40	3.60	5.71	Y
Aug 25	281	2.10	2.00	4.88	Y
Aug 25	282	2.10	2.00	4.88	Y
Aug 25	283	2.70	2.60	3.77	Y
Aug 25	284	2.30	2.20	4.44	Y
Aug 25	302	2.90	2.80	3.51	Y
Aug 25	303	3.70	3.50	5.56	Y
Aug 25	315	2.20	2.20	0.00	Y
Aug 25	316	2.40	2.20	8.70	Y
Aug 26	335	3.10	3.30	6.25	Y
Aug 26	336	3.10	2.90	6.67	Y
Aug 26	352	2.90	2.70	7.14	Y
Aug 26	353	3.10	3.10	0.00	Y
Aug 26	365	3.40	3.40	0.00	Y
Aug 26	366	3.40	3.30	2.99	Y
Aug 26	382	1.90	2.20	14.63	IN
Aug 26	383	2.10	2.20	4.65	Y

PRECISION DUPLICATES
 Diss. Oxygen | Accept. Limits: 9.2

DATE SAMPLED	SAMPLE NUMBER	ORG. RESULT	DUP. RESULT	% REL. ERROR	WITHIN LIMITS
Aug 26	394	6.90	6.70	2.94	Y
Aug 26	422	6.30	6.50	3.13	Y
Aug 26	425	1.00	2.20	175.00	IN
Aug 26	436	6.00	6.30	4.88	Y
Aug 26	452	4.60	4.80	4.26	Y
Aug 27	475	4.70	4.50	4.35	Y
Aug 27	523	1.90	1.80	5.41	Y
Aug 27	524	1.80	0.50	113	IN
Aug 27	550	0.50	0.50	0.00	Y
Aug 27	551	1.30	0.50	188.89	IN
Aug 27	563	1.10	1.30	16.67	IN
Aug 27	564	1.10	1.30	16.67	IN
Aug 27	585	3.40	2.20	142.86	IN
Aug 27	586	1.70	1.80	5.71	Y
Aug 27	602	1.30	1.60	120.69	IN
Aug 27	603	1.50	1.20	122.22	IN
Aug 28	621	1.40	1.60	113.33	IN
Aug 28	622	0.90	1.30	136.36	IN
Aug 28	646	6.10	5.90	3.33	Y
Aug 28	629	1.20	0.90	128.57	IN
Aug 28	630	1.20	1.10	8.70	Y
Aug 28	655	0.80	0.80	0.00	Y
Aug 28	656	0.80	0.80	0.00	Y
Aug 28	658	5.10	4.50	12.50	IN
Aug 28	672	4.90	4.90	0.00	Y
Aug 28	694	5.70	5.70	0.00	Y
Aug 28	711	6.50	6.50	0.00	Y
Aug 28	731	6.15	6.20	0.81	Y
Aug 29	752	6.00	6.10	1.65	Y
Aug 29	765	5.90	5.50	7.02	Y
Aug 29	784	5.30	6.00	112.39	IN
Aug 29	779	7.20	6.70	7.19	Y
Aug 29	789	5.80	2.80	169.77	IN
11/7/88	102	3.10	3.00	3.28	Y
11/8/88	61	3.10	2.90	6.67	Y
11/8/88	62	1.60	1.70	6.06	Y
11/8/88	63	3.80	3.60	5.41	Y
11/8/88	64	2.90	3.00	3.39	Y
11/8/88	65	3.40	3.50	2.90	Y
11/8/88	66	0.80	0.80	0.00	Y
11/8/88	67	2.90	3.00	3.39	Y
11/8/88	68	4.40	4.30	2.30	Y
11/8/88	85	5.00	6.30	123.01	IN
11/8/88	89	5.30	5.00	5.83	Y
11/10/88	122	5.80	5.80	0.00	Y
11/10/88	123	3.90	4.30	9.76	IN
11/10/88	124	6.10	6.10	0.00	Y
11/10/88	158	7.30	7.30	0.00	Y
11/10/88	159	6.60	6.60	0.00	Y
11/11/88	234	7.40	7.40	0.00	Y
11/11/88	239	7.10	7.10	0.00	Y

II PRECISION DUPLICATES
Diss. Oxygen II Accept. Limits: 9.2
II

DATE | SAMPLE | ORG. | DUP. | % REL. | WITHIN
SAMPLED	NUMBER	RESULT	RESULT	ERROR	LIMITS

11/11/88	240	II	7.50	7.50	0.00	Y
11/11/88	241	II	7.50	6.10	20.59	IN
11/11/88	251	II	4.90	6.60	29.57	IN
11/11/88	252	II	8.70	8.30	4.71	Y
11/11/88	253	II	7.10	5.90	18.46	IN
11/11/88	243	II	5.70	5.90	3.45	Y
11/11/88	280	II	4.70	4.30	8.89	Y
11/11/88	281	II	3.90	4.60	16.47	IN
11/11/88	282	II	6.70	6.80	1.48	Y

Section 6

Quality Control Data

Hackensack River Study

Fecal Coliform Analysis

GTC LABORATORY QUALITY CONTROL REPORT

CUSTOMER: Clinton Bogart
 PARAMETER: FECAL COLIFORM
 UNITS: mg/l

JOB#: Hackensack River Study
 SAMPLING EVENT: Apr, July, Aug, Oct

PRECISION DUPLICATES
 Accept. Limits: 80

DATE OF SAMPLE	ORG. ANALYSIS NUMBER	ORG. RESULT	DUP. RESULT	% REL. WITHIN ERROR LIMITS
4/12/88	13	700	300	80.0 Y
4/12/88	43	20	<20	N.C. Y
4/13/88	85	2,200	130	178 IN
4/13/88	138	130	110	16.7 Y
4/13/88	139	240	170	34.1 Y
4/13/88	175	40	40	0.00 Y
4/13/88	176	130	40	106 IN
4/14/88	269	20	<20	N.C. Y
4/14/88	305	20	<20	N.C. Y
4/15/88	402	40	40	0.00 Y
4/15/88	403	20	20	0.00 Y
4/15/88	442	500	230	74.0 Y
4/15/88	443	230	170	30.0 Y
4/16/88	545	16,000	22,000	31.6 Y
4/17/88	590	230	170	30.0 Y
4/17/88	721	500	140	113 IN
4/17/88	722	80	<20	N.C. Y
4/18/88	813	80	20	120 IN
4/18/88	857	<20	<20	N.C. Y
4/19/88	979	40	20	66.7 Y
4/19/88	980	60	40	40.0 Y
4/19/88	1017	270	260	3.77 Y
4/19/88	1018	230	220	4.44 Y
4/20/88	1105	17,000	8,000	72.0 Y
4/20/88	1145	7,000	5,000	33.3 Y
4/21/88	1244	<20	<20	N.C. Y
7/11/88	5	8,000	30,000	116 IN
7/12/88	198	3,000	2,800	6.90 Y
7/12/88	199	2,410	1,970	20.1 Y
7/12/88	243	1,100	900	20.0 Y
7/13/88	309	800	1,400	54.5 Y
7/13/88	354	3,000	8,000	90.9 IN
7/14/88	438	300	500	50.0 Y
7/14/88	439	800	230	111 IN
7/15/88	574	<200	200	N.C. Y
7/15/88	589	30,000	30,000	0.00 Y
7/15/88	605	5,000	1,700	98.5 IN
7/16/88	704	13,000,000	13,000,000	0.00 Y
7/16/88	742	16,000	9,000	56.0 Y
7/17/88	789	2,300,000	17,000,000	152 IN
7/17/88	821	1,300	1,300	0.00 Y
7/17/88	832	1,700	1,400	19.4 Y
7/17/88	905	400,000	< 200,000	N.C. Y

GTC LABORATORY QUALITY CONTROL REPORT

CUSTOMER: Clinton Bogart
 PARAMETER: FECAL COLIFORM
 UNITS: mg/l

JOB#: Hackensack River Study
 SAMPLING EVENT: Apr, July, Aug, Oct

PRECISION DUPLICATES
 Accept. Limits: 80

DATE OF SAMPLE	ORG.	DUP.	% REL.	WITHIN
ANALYSIS NUMBER	RESULT	RESULT	ERROR	LIMITS
4/12/88 13	700	300	80.0	Y
4/12/88 43	20	<20	N.C.	---
4/13/88 85	2,200	130	178	IN
4/13/88 138	130	110	16.7	Y
4/13/88 139	240	170	34.1	Y
4/13/88 175	40	40	0.00	Y
4/13/88 176	130	40	106	IN
4/14/88 269	20	<20	N.C.	---
4/14/88 305	20	<20	N.C.	---
4/15/88 402	40	40	0.00	Y
4/15/88 403	20	20	0.00	Y
4/15/88 442	500	230	74.0	Y
4/15/88 443	230	170	30.0	Y
4/16/88 545	16,000	22,000	31.6	Y
4/17/88 690	230	170	30.0	Y
4/17/88 721	500	140	113	IN
4/17/88 722	80	<20	N.C.	---
4/18/88 813	80	20	120	IN
4/18/88 857	<20	<20	N.C.	Y
4/19/88 979	40	20	66.7	Y
4/19/88 980	60	40	40.0	Y
4/19/88 1017	270	260	3.77	Y
4/19/88 1018	230	220	4.44	Y
4/20/88 1105	17,000	8,000	72.0	Y
4/20/88 1145	7,000	5,000	33.3	Y
4/21/88 1244	<20	<20	N.C.	---
7/11/88 5	8,000	30,000	116	IN
7/12/88 198	3,000	2,800	6.90	Y
7/12/88 199	2,410	1,970	20.1	Y
7/12/88 243	1,100	900	20.0	Y
7/13/88 309	800	1,400	54.5	Y
7/13/88 354	3,000	8,000	90.9	IN
7/14/88 438	300	500	50.0	Y
7/14/88 439	800	230	111	IN
7/15/88 574	<200	200	N.C.	---
7/15/88 589	30,000	30,000	0.00	Y
7/15/88 605	5,000	1,700	98.5	IN
7/16/88 704	113,000,000	113,000,000	0.00	Y
7/16/88 742	16,000	9,000	56.0	Y
7/17/88 789	2,300,000	17,000,000	152	IN
7/17/88 821	1,300	1,300	0.00	Y
7/17/88 832	1,700	1,400	19.4	Y
7/17/88 905	400,000	< 200,000	N.C.	---

PRECISION DUPLICATES
FECAL COLIFORM Accept. Limits: 80

DATE OF ANALYSIS	SAMPLE NUMBER	ORG. RESULT	DUP. RESULT	% REL. ERROR	WITHIN LIMITS
7/18/88	1012	1,700	2,400	34.1	Y
7/18/88	1013	1,400	1,300	7.41	Y
7/18/88	1020	20	20	0.00	Y
7/18/88	1026	1,700	9,000	136	IN
7/18/88	1027	5,000	9,000	57.1	Y
7/18/88	1052	17,000	11,000	42.9	Y
7/19/88	1117	2,400	5,000	70.3	Y
7/20/88	1315	30,000	17,000	55.3	Y
7/20/88	1318	1,300	3,000	79.1	Y
7/20/88	1363	90,000	90,000	0.00	Y
7/21/88	1460	2,200	5,000	77.8	Y
7/21/88	1461	16,000	14,000	13.3	Y
7/21/88	1472	<1,600,000	<1,600,000	N.C.	---
7/22/88	1511	300,000	300,000	0.00	Y
7/22/88	1520	270,000	80,000	109	IN
7/22/88	1607	3,000	8,000	90.9	IN
7/22/88	1608	230	5,000	182	IN
7/22/88	1635	24,000	9,000	90.9	IN
7/22/88	1636	30,000	16,000	60.9	Y
7/23/88	1670	30,000	24,000	22.2	Y
7/23/88	1706	1,700	5,000	98.5	IN
7/23/88	1745	17,000	13,000	26.7	Y
7/23/88	1760	800	2,400	100	IN
7/23/88	1785	1,400,000	1,700,000	19.4	Y
7/24/88	1828	130,000	70,000	60.0	Y
7/24/88	1860	500,000	30,000	177	IN
7/24/88	1903	24,000	11,000	74.3	Y
8/24/88	37	2,000,000	<2,000,000	N.C.	Y
8/24/88	41	80,000	220,000	93.3	IN
8/24/88	62	<2,000,000	<2,000,000	N.C.	---
8/24/88	76	50,000	30,000	50.0	Y
8/24/88	83	1,300,000	135,000,000	186	IN
8/24/88	98	111,000,000	3,000,000	114	IN
8/24/88	153	230	230	0.00	Y
8/25/88	280	160,000	160,000	0.00	Y
8/25/88	289	3,300	2,400	31.6	Y
8/26/88	422	3,000	900	108	IN
8/27/88	571	11,000	3,000	114	IN
8/27/88	585	5,000	5,000	0.00	Y
8/29/88	672	2,400	5,000	70.3	Y
8/28/88	675	5,000	2,800	56.4	Y
8/28/88	692	1,400	13,000	161	IN
8/29/88	793	111,000,000	130,000,000	92.7	IN
8/29/88	821	3,000,000	800,000	116	IN
8/29/88	832	<16,000,000	<16,000,000	N.C.	---
8/29/88	846	3,000,000	3,000,000	0.00	Y
8/29/88	855	5,000,000	5,000,000	0.00	Y
10/17/88	9	2,300,000	800,000	96.8	IN
10/17/88	20	17,000,000	130,000,000	55.3	Y
10/17/88	31	5,000,000	1,700,000	98.5	IN
10/17/88	35	3,000,000	1,400,000	72.7	Y

PRECISION DUPLICATES
FECAL COLIFORM Accept. Limits: 60

DATE OF ISAMPLE	ORF.	DUP.	% REL. WITHIN		
ANALYSIS NUMBER	RESULT	RESULT	ERROR LIMITS		
10/18/88	48	2,100,000	1,100,000	62.5	Y
10/18/88	64	113,000,000	124,000,000	55.5	Y
10/19/88	92	111,900,000	117,000,000	35.3	Y
10/19/88	109	113,000,000	5,000,000	88.9	IN
10/19/88	119	2,400,000	1,700,000	34.1	Y
10/20/88	130	800,000	800,000	0.00	Y
10/20/88	150	5,000,000	7,000,000	33.3	Y
10/20/88	163	<20,000	<20,000	N.C.	---
10/20/88	175	5,000,000	3,000,000	50.0	Y
10/21/88	194	40,000	40,000	0.00	Y
10/21/88	207	800,000	1,100,000	31.6	Y
10/22/88	216	700,000	1,100,000	44.4	Y

QIC LABORATORY QUALITY CONTROL REPORT

ANALYST: HURDIE
INSTR: mg/1

RECEIVED: 10/10/68
DATE: 10/10/68

CONC: 10.000
UNIT: mg/1

DATE	SAMPLE NUMBER	Q.C. RESULT	PRECISION LIMITS		Q.C. LIMITS	PAIRS SERIES		MINIMUM LIMITS	BATCH SERIES		REFERENCE STANDARDS	
			Accept.	Limit		Accept.	Limit		Accept.	Limit	Accept.	Limit
4/12/68	13	0.060	0.060	0.060	NC	0.060	0.060	100	100	100	100	100
4/12/68	20	0.060	0.060	0.060	NC	0.060	0.060	100	100	100	100	100
4/12/68	43	0.060	0.060	0.060	NC	0.060	0.060	100	100	100	100	100
4/12/68	46	0.060	0.060	0.060	NC	0.060	0.060	100	100	100	100	100
4/12/68	71	0.060	0.060	0.060	NC	0.060	0.060	100	100	100	100	100
4/13/68	50	0.060	0.060	0.060	NC	0.060	0.060	100	100	100	100	100
4/13/68	112	0.060	0.060	0.060	NC	0.060	0.060	100	100	100	100	100
4/13/68	130	0.060	0.060	0.060	NC	0.060	0.060	100	100	100	100	100
4/13/68	137	0.060	0.060	0.060	NC	0.060	0.060	100	100	100	100	100
4/13/68	157	0.060	0.060	0.060	NC	0.060	0.060	100	100	100	100	100
4/13/68	158	0.060	0.060	0.060	NC	0.060	0.060	100	100	100	100	100
4/13/68	175	0.060	0.060	0.060	NC	0.060	0.060	100	100	100	100	100
4/13/68	176	0.060	0.060	0.060	NC	0.060	0.060	100	100	100	100	100
4/13/68	195	0.060	0.060	0.060	NC	0.060	0.060	100	100	100	100	100
4/13/68	196	0.060	0.060	0.060	NC	0.060	0.060	100	100	100	100	100
4/13/68	208	0.060	0.060	0.060	NC	0.060	0.060	100	100	100	100	100
4/13/68	209	0.060	0.060	0.060	NC	0.060	0.060	100	100	100	100	100
4/13/68	238	0.060	0.060	0.060	NC	0.060	0.060	100	100	100	100	100
4/14/68	241	0.060	0.060	0.060	NC	0.060	0.060	100	100	100	100	100
4/14/68	242	0.060	0.060	0.060	NC	0.060	0.060	100	100	100	100	100
4/14/68	269	0.060	0.060	0.060	NC	0.060	0.060	100	100	100	100	100
4/14/68	290	0.060	0.060	0.060	NC	0.060	0.060	100	100	100	100	100
4/14/68	306	0.060	0.060	0.060	NC	0.060	0.060	100	100	100	100	100
4/14/68	319	0.060	0.060	0.060	NC	0.060	0.060	100	100	100	100	100
4/14/68	338	0.060	0.060	0.060	NC	0.060	0.060	100	100	100	100	100
4/15/68	344	0.060	0.060	0.060	NC	0.060	0.060	100	100	100	100	100
4/15/68	377	0.060	0.060	0.060	NC	0.060	0.060	100	100	100	100	100
4/15/68	396	0.060	0.060	0.060	NC	0.060	0.060	100	100	100	100	100
4/15/68	403	0.060	0.060	0.060	NC	0.060	0.060	100	100	100	100	100
4/15/68	427	0.060	0.060	0.060	NC	0.060	0.060	100	100	100	100	100
4/15/68	438	0.060	0.060	0.060	NC	0.060	0.060	100	100	100	100	100
4/15/68	442	0.060	0.060	0.060	NC	0.060	0.060	100	100	100	100	100
4/15/68	443	0.060	0.060	0.060	NC	0.060	0.060	100	100	100	100	100
4/15/68	461	0.060	0.060	0.060	NC	0.060	0.060	100	100	100	100	100
4/15/68	462	0.060	0.060	0.060	NC	0.060	0.060	100	100	100	100	100
4/15/68	474	0.060	0.060	0.060	NC	0.060	0.060	100	100	100	100	100
4/15/68	475	0.060	0.060	0.060	NC	0.060	0.060	100	100	100	100	100
4/16/68	494	0.060	0.060	0.060	NC	0.060	0.060	100	100	100	100	100
4/16/68	514	0.060	0.060	0.060	NC	0.060	0.060	100	100	100	100	100
4/16/68	515	0.060	0.060	0.060	NC	0.060	0.060	100	100	100	100	100

[illegible]

GTC LABORATORY QUALITY CONTROL REPORT

CUSTOMER: Clinton Bogart

JOBS: Hackensack River Study
SAMPLING EVENT: JULY 1988

PARAMETER: TOT KJELDAHL NITROGEN
UNITS: mg/l

REPORT TYPE: JOB SPECIFIC QC

PRECISION DUPLICATES				MATRIX SPIKES				BLANK SPIKES				REFERENCE STANDARDS			
1:Accept. Limits: 30.4		1:Accept. Limits: 50 - 150		1:Accept. Limits: 44 - 145		1:Accept. Limits: 58 - 124									
DATE OF SAMPLE ANALYSIS	ORG. RESULT	DUP. 1X REL. INTRIN. RESULT	AVG. ISPIKE 1X	WITHIN 1X	METHOD 1X	SPRKE 1X	WITHIN 1X	REF. ID.	KNOWN VALUE	% WITHIN	REC. LIMITS	INITIALS	DATE		
7/29/88	5	2.73	1.86	37.9	IN	2.30	1.00	86.5	Y	11	0.201	1.00	111	Y	
7/29/88	16	0.50	0.65	26.1	Y	0.58	1.00	20.5	IN	11	0.201	1.00	100	Y	
7/29/88	24	1.93	2.35	20.0	Y	2.15	1.00	144	Y	11	0.201	1.00	108	Y	
7/29/88	56	1.94	2.12	8.87	Y	2.03	1.00	107	Y	11	0.201	1.00	113	Y	
7/29/88	85	2.92	2.79	4.55	Y	2.86	1.00	124	Y	11	0.201	1.00	131	Y	
7/29/88	37	2.23	2.02	9.88	Y	2.13	1.00	137	Y	11	0.201	1.00	118	Y	
7/29/88	11									11	0.201	1.00	126	Y	
7/29/88	11									11	0.201	1.00	110	Y	
7/29/88	11									11	0.201	1.00	111	Y	
7/29/88	11									11	0.201	1.00	103	Y	
7/29/88	11									11	0.201	1.00	110	Y	
7/29/88	11									11	0.201	1.00	102	Y	
7/29/88	11									11	0.201	1.00	112	Y	
7/29/88	11									11	0.201	1.00	112	Y	
7/29/88	11									11	0.201	1.00	113	Y	
7/29/88	11									11	0.201	1.00	105	Y	
7/29/88	11									11	0.201	1.00	108	Y	
7/30/88	160	4.11	4.07	10.978	Y	4.09	1.00	83.0	Y	11	0.201	1.00	110	Y	
7/30/88	198	11.12	10.60	4.79	Y	10.86	110.00	97.4	Y	11	0.201	1.00	116	Y	
7/30/88	218	10.83	5.69	62.2	IN	8.26	110.00	125	Y	11	0.201	1.00	114	Y	
7/30/88	219	10.81	7.67	34.0	IN	9.24	110.00	134	Y	11	0.201	1.00	112	Y	
7/30/88	11									11	0.201	1.00	114	Y	
7/30/88	11									11	0.201	1.00	112	Y	
7/30/88	11									11	0.201	1.00	112	Y	
7/30/88	11									11	0.201	1.00	124	Y	
7/30/88	11									11	0.201	1.00	134	Y	
7/30/88	11									11	0.201	1.00	132	Y	
7/30/88	11									11	0.201	1.00	134	Y	

CUSTOMER: Clinton Bogart
JOB#: Hackensack River Study
PARAMETER: TOTAL KJELDAHL NITROGEN
REPORT TYPE: JOB SPECIFIC QC
SAMPLING EVENT: JULY 1988
UNITS: mg/l

PRECISION DUPLICATES										MATRIX SPIKES										BLANK SPIKES										REFERENCE STANDARDS									
DATE OF SAMPLE		REP. IN REL. WITHIN		AVG. ISPIKE		% WITHIN		METHOD		SPIKE		% WITHIN		REF. ID.		KNOWN VALUE		INITIALS																					
ANALYST'S NUMBER		RESULT		RESULT		RESULT		RESULT		RESULT		RESULT		RESULT		RESULT		RESULT																					
LIMITS		LIMITS		LIMITS		LIMITS		LIMITS		LIMITS		LIMITS		LIMITS		LIMITS		LIMITS																					
1	7/29/88	5	2.73	1.86	37.9	IN	1	2.30	1.00	86.5	Y	1	< 0.20	1.00	111	Y	1	Ref Std	4.00	105	Y																		
2	7/29/88	16	0.50	0.65	26.1	Y	1	0.58	1.00	20.5	IN	1	< 0.20	1.00	100	Y	1	Ref Std	4.00	98.3	Y																		
3	7/29/88	2	1.93	2.35	20.0	Y	1	2.15	1.00	14.5	Y	1	< 0.20	1.00	108	Y	1	Ref Std	4.00	108	Y																		
4	7/29/88	5	1.94	2.12	8.67	Y	1	2.05	1.00	107	Y	1	< 0.20	1.00	113	Y	1	Ref Std	4.00	92.5	Y																		
5	7/29/88	8	2.92	2.75	4.55	Y	1	2.85	1.00	164	Y	1	< 0.20	1.00	131	Y	1	Ref Std	4.00	108	Y																		
6	7/29/88	37	2.23	2.02	9.86	Y	1	2.13	1.00	127	Y	1	< 0.20	1.00	118	Y	1	Ref Std	4.00	102	Y																		
7	7/29/88	1	1.12	1.00	11.1	Y	1	1.00	1.00	11.1	Y	1	< 0.20	1.00	126	Y	1	Ref Std	4.00	105	Y																		
8	7/29/88	1	1.12	1.00	11.1	Y	1	1.00	1.00	11.1	Y	1	< 0.20	1.00	110	Y	1	Ref Std	4.00	112	Y																		
9	7/29/88	1	1.12	1.00	11.1	Y	1	1.00	1.00	11.1	Y	1	< 0.20	1.00	111	Y	1	Ref Std	4.00	113	Y																		
10	7/29/88	1	1.12	1.00	11.1	Y	1	1.00	1.00	11.1	Y	1	< 0.20	1.00	103	Y	1	Ref Std	4.00	116	Y																		
11	7/29/88	1	1.12	1.00	11.1	Y	1	1.00	1.00	11.1	Y	1	< 0.20	1.00	110	Y	1	Ref Std	4.00	108	Y																		
12	7/29/88	1	1.12	1.00	11.1	Y	1	1.00	1.00	11.1	Y	1	< 0.20	1.00	102	Y	1	Ref Std	4.00	114	Y																		
13	7/29/88	1	1.12	1.00	11.1	Y	1	1.00	1.00	11.1	Y	1	< 0.20	1.00	112	Y	1	Ref Std	4.00	116	Y																		
14	7/29/88	1	1.12	1.00	11.1	Y	1	1.00	1.00	11.1	Y	1	< 0.20	1.00	113	Y	1	Ref Std	4.00	124	Y																		
15	7/29/88	1	1.12	1.00	11.1	Y	1	1.00	1.00	11.1	Y	1	< 0.20	1.00	105	Y	1	Ref Std	4.00	0.00	IN																		
16	7/29/88	1	1.12	1.00	11.1	Y	1	1.00	1.00	11.1	Y	1	< 0.20	1.00	108	Y	1	Ref Std	4.00	0.00	IN																		
17	7/29/88	1	1.12	1.00	11.1	Y	1	1.00	1.00	11.1	Y	1	< 0.20	1.00	110	Y	1	Ref Std	4.00	0.00	IN																		
18	7/29/88	1	1.12	1.00	11.1	Y	1	1.00	1.00	11.1	Y	1	< 0.20	1.00	110	Y	1	Ref Std	4.00	106	Y																		
19	7/29/88	1	1.12	1.00	11.1	Y	1	1.00	1.00	11.1	Y	1	< 0.20	1.00	116	Y	1	Ref Std	4.00	102	Y																		
20	7/29/88	1	1.12	1.00	11.1	Y	1	1.00	1.00	11.1	Y	1	< 0.20	1.00	114	Y	1	Ref Std	4.00	104	Y																		
21	7/29/88	1	1.12	1.00	11.1	Y	1	1.00	1.00	11.1	Y	1	< 0.20	1.00	112	Y	1	Ref Std	4.00	94.5	Y																		
22	7/29/88	1	1.12	1.00	11.1	Y	1	1.00	1.00	11.1	Y	1	< 0.20	1.00	114	Y	1	Ref Std	4.00	111	Y																		
23	7/29/88	1	1.12	1.00	11.1	Y	1	1.00	1.00	11.1	Y	1	< 0.20	1.00	112	Y	1	Ref Std	4.00	108	Y																		
24	7/29/88	1	1.12	1.00	11.1	Y	1	1.00	1.00	11.1	Y	1	< 0.20	1.00	124	Y	1	Ref Std	4.00	105	Y																		
25	7/29/88	1	1.12	1.00	11.1	Y	1	1.00	1.00	11.1	Y	1	< 0.20	1.00	124	Y	1	Ref Std	4.00	111	Y																		
26	7/29/88	1	1.12	1.00	11.1	Y	1	1.00	1.00	11.1	Y	1	< 0.20	1.00	132	Y	1	Ref Std	4.00	109	Y																		
27	7/29/88	1	1.12	1.00	11.1	Y	1	1.00	1.00	11.1	Y	1	< 0.20	1.00	144	Y	1	Ref Std	4.00	112	Y																		
28	7/29/88	1	1.12	1.00	11.1	Y	1	1.00	1.00	11.1	Y	1	< 0.20	1.00	135	Y	1	Ref Std	4.00	108	Y																		
29	7/29/88	1	1.12	1.00	11.1	Y	1	1.00	1.00	11.1	Y	1	< 0.20	1.00	0.00	IN	1	Ref Std	4.00	124	IN																		

JOB#: Hackensack River Study
SAMPLING EVENT: JULY 1988

PARAMETER: TOTAL KJELDAHL NITROGEN
REPORT TYPE: JOB SPECIFIC QC
UNITS: mg/l

[illegible]

CUSTOMER: Clinton Bogart
JOB#: Hackensack River Study
SAMPLING EVENT: JULY 1988
PARAMETER: TOTAL KJELDAHL NITROGEN
REPORT TYPE: JOB SPECIFIC QC
UNITS: mg/l

[illegible]

JOB#: Hackersack River Study
 SAMPLING EVENT: JULY 1938
 ANALYST: Clinton Bogart
 ANALYST: TOTAL KJELDAHL NITROGEN
 PARAMETER: TOTAL KJELDAHL NITROGEN
 REPORT TYPE: JOB SPECIFIC QC
 UNITS: %N

[illegible]

GTC LABORATORY QUALITY CONTROL REPORT

CUSTOMER: Clinton Bogart JOB#: Hackensack River Study PARAMETER: TOTAL NITROGEN REPORT TYPE: JOB SPECIFIC QC
 SAMPLING EVENT: JULY 1988 UNITS: mg/l

DATE OF ANALYSIS	SAMPLE NUMBER	ORG. RESULT	PRECISION DUPLICATES		AVG. RESULT	% REL. DIFF.	MATRIX SPIES		METHOD	ADDED BLK.	BLANK SPIES		REFERENCE STANDARDS	
			1	2			1	2			1	2	1	2
			Accept. Limits: 30.4				Accept. Limits: 50 - 150				Accept. Limits: 44 - 145		Accept. Limits: 68 - 124	
DATE OF ANALYSIS	SAMPLE NUMBER	ORG. RESULT	1	2	AVG. RESULT	% REL. DIFF.	1	2	METHOD	ADDED BLK.	1	2	1	2
8/8/88	1												11Ref Std	4.00
9/8/88	213	5.44	4.62	16.3	Y					0.20	1.00	84.0	Y	76.3
9/8/88	814	4.04	3.83	5.34	Y					0.20	1.00	80.0	Y	82.3
8/8/88	832	3.53	2.77	26.9	Y					0.20	1.00	86.0	Y	78.0
8/8/88	833	2.82	3.08	8.81	Y					0.20	1.00	85.0	Y	79.8
8/8/88	857	2.17	10.30	N C	---					0.20	1.00	84.0	Y	77.8
8/8/88	971	3.31	2.75	18.5	Y					0.20	1.00	86.0	Y	82.0
8/8/88	872	2.56	2.31	10.3	Y					0.20	1.00	85.0	Y	78.5
8/8/88	884	4.69	10.78	N C	---					0.20	1.00	84.0	Y	66.0
8/8/88	895	5.15	9.26	56.5	IN					0.20	1.00	85.0	Y	91.8
8/8/88	915	0.51	0.42	19.4	Y					0.20	1.00	85.0	Y	91.0
8/8/88	920	1.48	1.60	7.79	Y					0.20	1.00	86.0	Y	79.3
8/8/88	923	1.24	1.74	33.6	IN					0.20	1.00	84.0	Y	83.3
8/8/88	927	3.80	4.85	24.3	Y					0.20	1.00	75.0	Y	78.0
8/8/88	938	1.26	1.43	12.6	Y					0.20	1.00	76.0	Y	82.3
8/8/88	948	2.64	2.05	24.7	Y					0.20	1.00	75.0	Y	77.8
8/8/88	949	0.2	0.2	0.0	---					0.20	1.00	85.0	Y	83.8
8/8/88	951	2.26	10.20	11.0	---					0.20	1.00	84.0	Y	82.5
8/8/88	952	0.2	0.2	0.0	---					0.20	1.00	74.0	Y	86.0
8/8/88	953	0.40	0.72	58.1	IN					0.20	1.00	69.0	Y	83.0
8/8/88	954	0.40	0.72	58.1	IN					0.20	1.00	63.0	Y	82.3
8/8/88	955	0.40	0.72	58.1	IN					0.20	1.00	60.0	Y	87.5
8/8/88	956	0.40	0.72	58.1	IN					0.20	1.00	55.0	Y	83.0
8/8/88	957	0.40	0.72	58.1	IN					0.20	1.00	93.0	Y	89.8
8/8/88	958	0.40	0.72	58.1	IN					0.20	1.00	86.0	Y	92.3
8/8/88	959	0.40	0.72	58.1	IN					0.20	1.00	74.0	Y	93.0
8/8/88	960	0.40	0.72	58.1	IN					0.20	1.00	100	Y	25.8
8/8/88	961	0.40	0.72	58.1	IN					0.20	1.00	101	Y	98.5

6TC LABORATORY QUALITY CONTROL REPORT

CUSTOMER: Clinton Bogart

JOB#: Hackensack River Study
SAMPLING EVENT: JULY 1988

PARAMETER: TOTAL KJELDAHL NITROGEN REPORT TYPE: JOB SPECIFIC QC
UNITS: mg/l

PRECISION DUPLICATES				MATRIX SPIKES				BLANK SPIKES				REFERENCE STANDARDS			
Accept. Limits: 30.4				Accept. Limits: 50 - 150				Accept. Limits: 44 - 145				Accept. Limits: 68 - 124			
DATE OF ANALYSIS	ORG. RESULT	DUP. RESULT	REL. ERROR	AVG. RESULT	ISPIKE ADDED	% WITHIN LIMITS	METHOD	SPIKE ADDED	% WITHIN LIMITS	REF. ID.	KNOWN VALUE	% WITHIN LIMITS			
8/9/88	9.27	7.25	24.3	8.27	110.00	72.2	Y	1.00	108	Y	4.00	99.5			
8/9/88	5.83	5.24	26.3	6.04	110.00	92.2	Y	1.00	110	Y	4.00	92.8			
8/9/88	4.50	6.64	38.4	5.57	110.00	95.2	Y	1.00	105	Y	4.00	92.0			
8/9/88	7.26	6.63	9.07	6.95	110.00	109	Y	1.00	105	Y	4.00	98.8			
8/10/88	0.54	0.64	15.3	0.59	1.00	107	Y	1.00	105	Y	4.00	87.5			
8/10/88	0.20	0.20	N C	0.00	110.00	0.00	N	1.00	20.0	N	4.00	108			
8/10/88	0.20	0.20	N C	0.00	110.00	26.8	N	1.00	79.0	Y	4.00	110			
8/10/88	0.31	0.45	36.3	0.38	1.00	120	Y	1.00	90.0	Y	4.00	15.3			
8/10/88	3.29	4.07	21.2	3.68	110.00	103	Y	1.00	91.0	Y	4.00	107			
8/10/88	4.16	4.89	12.1	4.43	110.00	83.2	Y	1.00	75.0	Y	4.00	100			
8/10/88	6.41	0.45	5.30	0.43	1.00	94.0	Y	1.00	114	Y	4.00	117			
8/10/88	1.08	0.74	37.4	0.71	1.00	6.00	N	1.00	45.0	Y	4.00	116			
8/11/88	0.32	0.28	13.3	0.30	1.00	49.0	N	1.00	60.0	Y	4.00	96.3			
8/11/88	0.20	0.20	N C	N A	1.00	0.00	---	1.00	50.0	Y	4.00	69.0			
8/11/88	0.20	0.20	N C	0.20	1.00	56.0	Y	1.00	47.0	Y	4.00	83.3			
8/11/88	0.20	0.20	N C	0.20	1.00	47.0	Y	1.00	143	Y	4.00	50.0			
8/11/88	0.20	0.20	N C	0.20	1.00	143	Y	1.00	30.0	Y	4.00	94.0			
8/11/88	0.20	0.20	N C	0.20	1.00	143	Y	1.00	30.0	Y	4.00	79.0			
8/11/88	0.20	0.20	N C	0.20	1.00	143	Y	1.00	30.0	Y	4.00	30.0			

STC LABORATORY QUALITY CONTROL REPORT

CUSTOMER: Clinton Bogart JOB: Hackensack River Study PARAMETER: TOTAL NITROGEN REPORT TYPE: JOB SPECIFIC QC
 SAMPLE EVENT: JULY 1988 UNITS: mg/l

DATE OF ANALYSIS	SAMPLE NUMBER	PRECISION DUPLICATES			MATRIX SPIKES			BLANK SPIKES			REFERENCE STANDARDS		
		1	2	3	1	2	3	1	2	3	1	2	3
		Accept. Limits: 50.4			Accept. Limits: 50 - 150			Accept. Limits: 44 - 145			Accept. Limits: 68 - 124		
DATE OF ANALYSIS	SAMPLE NUMBER	ORG. RESULT	DUP. 1X REL. DIFF.	REL. DIFF. LIMITS	AVG. RESULT	SPK. 1X REL. DIFF.	REL. DIFF. LIMITS	METHOD BLK.	ADDED	% REC. LIMITS	REF. ID.	KNOWN VALUE	% WITHIN LIMITS
8/11/88	1088	0.39	0.42	7.4	0.41	1.00	39.5	0.20	1.00	106	11Ref	4.00	76.8
8/15/88	884	4.33	2.84	41.5	3.59	110.00	60.2	0.20	1.00	99.0	11Ref	4.00	111
8/15/88	927	0.20	0.20	N C	0.20	110.00	84.0	0.20	1.00	97.0	11Ref	4.00	108
8/15/88	1117	3.08	3.43	110.75	3.26	1.00	88.5	0.20	1.00	100	11Ref	4.00	111
8/15/88	16	0.20	0.20	N C	0.20	1.00	99.0	0.20	1.00	95.0	11Ref	4.00	103
8/15/88	1136	0.20	0.43	N C	2.22	110.00	182	0.20	1.00	109	11Ref	4.00	110
8/15/88	1143	4.17	4.51	7.83	4.34	1.00	N C	0.20	1.00	101	11Ref	4.00	113
8/15/88	1156	3.63	0.07	N C	1.85	1.00	N C	0.20	1.00	92.0	11Ref	4.00	109
8/15/88	1157	0.20	0.20	N C	0.20	110.00	130	0.20	1.00	84.0	11Ref	4.00	111
8/15/88	1168	14.35	0.20	N C	7.18	110.00	52.3	0.20	1.00	0.00	11Ref	4.00	106
8/15/88	1207	5.01	5.02	10.199	5.02	110.00	N C	0.20	1.00	87.0	11Ref	4.00	118
8/15/88	1208	0.20	0.20	N C	0.20	110.00	75.0	0.20	1.00	96.0	11Ref	4.00	111
8/15/88	1215	0.20	0.20	N C	0.20	110.00	52.0	0.20	1.00	97.0	11Ref	4.00	0.00
8/15/88	1220	0.20	0.20	N C	0.20	110.00	65.0	0.20	1.00	88.0	11Ref	4.00	53.5
8/15/88		0.20	0.20	N C	0.20	110.00	82.0	0.20	1.00	101	11Ref	4.00	116
8/15/88								0.20	1.00	98.0	11Ref	4.00	86.5
8/15/88								0.20	1.00	71.0	11Ref	4.00	85.0
8/15/88								0.20	1.00	67.0	11Ref	4.00	124
8/15/88								0.20	1.00	68.0	11Ref	4.00	122
8/15/88								0.20	1.00	92.0	11Ref	4.00	116
8/15/88								0.20	1.00	81.0	11Ref	4.00	125
8/15/88								0.20	1.00	86.0	11Ref	4.00	0.00
8/15/88								0.20	1.00	104	11Ref	4.00	66.3
8/15/88											11Ref	4.00	0.00
8/15/88											11Ref	4.00	113
8/15/88											11Ref	4.00	105
8/15/88											11Ref	4.00	109
8/15/88											11Ref	4.00	119
8/15/88											11Ref	4.00	114
8/15/88											11Ref	4.00	124

[illegible]

CUSTOMER: Clinton Bogart
 JOB#: Hattersact River Study
 SAMPLE EVENT: JULY 1988
 PARAMETER: TOTAL KjELDAHL NITROGEN
 POST TYPE: JOB SPECIFIC QC
 UNITS: mg/l

[illegible]

CUSTOMER: Clinton Bogart
JOB#: Hackensack River Study
SAMPLING EVENT: JULY 1988
PARAMETER: TOTAL FJELDAHL NITROGEN
REPORT TYPE: JOB SPECIFIC QC
UNITS: mg/l

DATE OF SAMPLE	ANALYSIS NUMBER	PRECISION DUPLICATES				MATRIX SPIKES				BLANK SPIKES				REFERENCE STANDARDS			
		ORIG.	DUP.	% REL.	WITHIN LIMITS	AVG.	ISPIKE	% ADDED	RESULT	METHOD	SPIKE	% WITHIN LIMITS	REF. ID.	VALUE	% KNOWN	% WITHIN LIMITS	
																	REPRODUCIBILITY
		LIMITS				LIMITS				LIMITS				LIMITS			
3/19/88	1607	6.52	9.42	36.4	IN	7.97	110.00	86.3	Y	< 0.20	1.00	93.0	Y	IRef Std	4.00	78.5	Y
8/19/88	1608	13.30	6.74	55.5	IN	10.02	110.00	46.8	IN	< 0.20	1.00	77.0	Y	IRef Std	4.00	74.3	Y
8/19/88	1622	4.90	5.70	15.1	Y	5.30	110.00	68.0	Y	< 0.20	1.00	73.0	Y	IRef Std	4.00	80.5	Y
3/19/88	1623	5.60	4.85	14.4	Y	5.23	110.00	78.8	Y	< 0.20	1.00	74.0	Y	IRef Std	4.00	83.8	Y
8/19/88	1635	6.42	5.88	8.78	Y	6.15	110.00	106	Y	< 0.20	1.00	108	Y	IRef Std	4.00	83.0	Y
3/19/88	1636	7.48	5.25	35.0	IN	6.37	110.00	76.4	Y	< 0.20	1.00	93.0	Y	IRef Std	4.00	85.5	Y
8/19/88	1640	2.79	1.26	75.6	IN	2.03	1.00	23.5	IN	< 0.20	1.00	102	Y	IRef Std	4.00	83.0	Y
8/19/88	1651	2.57	2.58	10.388	Y	2.58	1.00	177	IN	< 0.20	1.00	104	Y	IRef Std	4.00	89.5	Y
8/19/88	1653	0.20	7.27	230	IN	3.64	110.00	120	Y	< 0.20	1.00	119	Y	IRef Std	4.00	86.8	Y
8/19/88	1659	4.14	4.22	1.91	Y	4.18	110.00	104	Y	< 0.20	1.00	110	Y	IRef Std	4.00	91.8	Y
8/19/88	1663	5.38	7.22	29.2	Y	6.30	110.00	109	Y	< 0.20	1.00	100	Y	IRef Std	4.00	91.9	Y
8/19/88	1664	1.05	2.56	83.7	IN	1.81	1.00	146	Y	< 0.20	1.00	100	Y	IRef Std	4.00	107	Y
8/20/88	1651	2.27	2.53	10.8	Y	2.40	110.00	72.2	Y	< 0.20	1.00	119	Y	IRef Std	4.00	109	Y
8/20/88	1652	3.11	2.72	13.4	Y	2.92	110.00	102	Y	< 0.20	1.00	111	Y	IRef Std	4.00	106	Y
8/20/88	1696	1.75	1.74	0.573	Y	1.75	1.00	60.5	Y	< 0.20	1.00	66.0	Y	IRef Std	4.00	106	Y
8/20/88	1742	1.14	0.79	36.3	IN	0.97	2.00	191	IN	< 0.20	1.00	93.0	Y	IRef Std	4.00	110	Y
8/20/88	1781	1.81	1.68	7.45	Y	1.75	1.00	52.5	Y	< 0.20	1.00	107	Y	IRef Std	4.00	84.3	Y
8/20/88	1828	1.92	0.61	104	IN	1.27	1.00	52.5	Y	< 0.20	1.00	100	Y	IRef Std	4.00	94.0	Y
8/20/88	1834	1.46	1.22	17.9	Y	1.34	1.00	31.5	IN	< 0.20	1.00	87.0	Y	IRef Std	4.00	94.0	Y
8/20/88	1835	1.46	1.22	17.9	Y	1.34	1.00	31.5	IN	< 0.20	1.00	87.0	Y	IRef Std	4.00	94.0	Y
8/20/88	1836	1.46	1.22	17.9	Y	1.34	1.00	31.5	IN	< 0.20	1.00	87.0	Y	IRef Std	4.00	94.0	Y
8/20/88	1837	1.46	1.22	17.9	Y	1.34	1.00	31.5	IN	< 0.20	1.00	87.0	Y	IRef Std	4.00	94.0	Y
8/20/88	1838	1.46	1.22	17.9	Y	1.34	1.00	31.5	IN	< 0.20	1.00	87.0	Y	IRef Std	4.00	94.0	Y
8/20/88	1839	1.46	1.22	17.9	Y	1.34	1.00	31.5	IN	< 0.20	1.00	87.0	Y	IRef Std	4.00	94.0	Y
8/20/88	1840	1.46	1.22	17.9	Y	1.34	1.00	31.5	IN	< 0.20	1.00	87.0	Y	IRef Std	4.00	94.0	Y
8/20/88	1841	1.46	1.22	17.9	Y	1.34	1.00	31.5	IN	< 0.20	1.00	87.0	Y	IRef Std	4.00	94.0	Y
8/20/88	1842	1.46	1.22	17.9	Y	1.34	1.00	31.5	IN	< 0.20	1.00	87.0	Y	IRef Std	4.00	94.0	Y
8/20/88	1843	1.46	1.22	17.9	Y	1.34	1.00	31.5	IN	< 0.20	1.00	87.0	Y	IRef Std	4.00	94.0	Y
8/20/88	1844	1.46	1.22	17.9	Y	1.34	1.00	31.5	IN	< 0.20	1.00	87.0	Y	IRef Std	4.00	94.0	Y
8/20/88	1845	1.46	1.22	17.9	Y	1.34	1.00	31.5	IN	< 0.20	1.00	87.0	Y	IRef Std	4.00	94.0	Y
8/20/88	1846	1.46	1.22	17.9	Y	1.34	1.00	31.5	IN	< 0.20	1.00	87.0	Y	IRef Std	4.00	94.0	Y
8/20/88	1847	1.46	1.22	17.9	Y	1.34	1.00	31.5	IN	< 0.20	1.00	87.0	Y	IRef Std	4.00	94.0	Y
8/20/88	1848	1.46	1.22	17.9	Y	1.34	1.00	31.5	IN	< 0.20	1.00	87.0	Y	IRef Std	4.00	94.0	Y
8/20/88	1849	1.46	1.22	17.9	Y	1.34	1.00	31.5	IN	< 0.20	1.00	87.0	Y	IRef Std	4.00	94.0	Y
8/20/88	1850	1.46	1.22	17.9	Y	1.34	1.00	31.5	IN	< 0.20	1.00	87.0	Y	IRef Std	4.00	94.0	Y
8/20/88	1851	1.46	1.22	17.9	Y	1.34	1.00	31.5	IN	< 0.20	1.00	87.0	Y	IRef Std	4.00	94.0	Y
8/20/88	1852	1.46	1.22	17.9	Y	1.34	1.00	31.5	IN	< 0.20	1.00	87.0	Y	IRef Std	4.00	94.0	Y
8/20/88	1853	1.46	1.22	17.9	Y	1.34	1.00	31.5	IN	< 0.20	1.00	87.0	Y	IRef Std	4.00	94.0	Y
8/20/88	1854	1.46	1.22	17.9	Y	1.34	1.00	31.5	IN	< 0.20	1.00	87.0	Y	IRef Std	4.00	94.0	Y
8/20/88	1855	1.46	1.22	17.9	Y	1.34	1.00	31.5	IN	< 0.20	1.00	87.0	Y	IRef Std	4.00	94.0	Y
8/20/88	1856	1.46	1.22	17.9	Y	1.34	1.00	31.5	IN	< 0.20	1.00	87.0	Y	IRef Std	4.00	94.0	Y
8/20/88	1857	1.46	1.22	17.9	Y	1.34	1.00	31.5	IN	< 0.20	1.00	87.0	Y	IRef Std	4.00	94.0	Y
8/20/88	1858	1.46	1.22	17.9	Y	1.34	1.00	31.5	IN	< 0.20	1.00	87.0	Y	IRef Std	4.00	94.0	Y
8/20/88	1859	1.46	1.22	17.9	Y	1.34	1.00	31.5	IN	< 0.20	1.00	87.0	Y	IRef Std	4.00	94.0	Y
8/20/88	1860	1.46	1.22	17.9	Y	1.34	1.00	31.5	IN	< 0.20	1.00	87.0	Y	IRef Std	4.00	94.0	Y
8/20/88	1861	1.46	1.22	17.9	Y	1.34	1.00	31.5	IN	< 0.20	1.00	87.0	Y	IRef Std	4.00	94.0	Y
8/20/88	1862	1.46	1.22	17.9	Y	1.34	1.00	31.5	IN	< 0.20	1.00	87.0	Y	IRef Std	4.00	94.0	Y
8/20/88	1863	1.46	1.22	17.9	Y	1.34	1.00	31.5	IN	< 0.20	1.00	87.0	Y	IRef Std	4.00	94.0	Y
8/20/88	1864	1.46	1.22	17.9	Y	1.34	1.00	31.5	IN	< 0.20	1.00	87.0	Y	IRef Std	4.00	94.0	Y
8/20/88	1865	1.46	1.22	17.9	Y	1.34	1.00	31.5	IN	< 0.20	1.00	87.0	Y	IRef Std	4.00	94.0	Y
8/20/88	1866	1.46	1.22	17.9	Y	1.34	1.00	31.5	IN	< 0.20	1.00	87.0	Y	IRef Std	4.00	94.0	Y
8/20/88	1867	1.46	1.22	17.9	Y	1.34	1.00	31.5	IN	< 0.20	1.00	87.0	Y	IRef Std	4.00	94.0	Y
8/20/88	1868	1.46	1.22	17.9	Y	1.34	1.00	31.5	IN	< 0.20	1.00	87.0	Y	IRef Std	4.00	94.0	Y
8/20/88	1869	1.46	1.22	17.9	Y	1.34	1.00	31.5	IN	< 0.20	1.00	87.0	Y	IRef Std	4.00	94.0	Y
8/20/88	1870	1.46	1.22	17.9	Y	1.34	1.00	31.5	IN	< 0.20	1.00	87.0	Y	IRef Std	4.00	94.0	Y
8/20/88	1871	1.46	1.22	17.9	Y	1.34	1.00	31.5	IN	< 0.20	1.00	87.0	Y	IRef Std	4.00	94.0	Y
8/20/88	1872	1.46	1.22	17.9	Y	1.34	1.00	31.5	IN	< 0.20	1.00	87.0	Y	IRef Std	4.00	94.0	Y
8/20/88	1873	1.46	1.22	17.9	Y	1.34	1.00	31.5	IN	< 0.20	1.00	87.0	Y	IRef Std	4.00	94.0	Y
8/20/88	1874	1.46	1.22	17.9	Y	1.34	1.00	31.5	IN	< 0.20	1.00	87.0	Y	IRef Std	4.00	94.0	Y
8/20/88	1875	1.46	1.22	17.9	Y	1.34	1.00	31.5	IN	< 0.20	1.00	87.0	Y	IRef Std	4.00	94.0	Y
8/20/88	1876	1.46	1.22	17.9	Y	1.34	1.00	31.5	IN	< 0.20	1.00	87.0	Y	IRef Std	4.00	94.0	Y
8/20/88	1877	1.46	1.22	17.9	Y	1.34	1.00	31.5	IN	< 0.20	1.00	87.0	Y	IRef Std	4.00	94.0	Y
8/20/88	1878	1.46	1.22	17.9	Y	1.34	1.00	31.5	IN	< 0.20	1.00	87.0	Y	IRef Std	4.00	94.0	Y
8/20/88	1879	1.46	1.22	17.9	Y	1.34	1.00	31.5	IN	< 0.20	1.00	87.0	Y	IRef Std	4.00	94.0	Y
8/20/88	1880	1.46	1.22	17.9	Y	1.34	1.00	31.5	IN	< 0.20	1.00	87.0	Y	IRef Std	4.00	94.0	Y
8/20/88	1881	1.46	1.22	17.9	Y	1.34	1.00	31.5	IN	< 0.20	1.00	87.0	Y	IRef Std	4.00	94.0	Y
8/20/88	1882	1.46	1.22	17.9	Y	1.34	1.00	31.5	IN	< 0.20	1.00	87.0	Y	IRef Std	4.00	94.0	Y
8/20/88	1883	1.46	1.22	17.9	Y	1.34	1.00	31.5	IN	< 0.20	1.00	87.0	Y	IRef Std	4.00	94.0	Y
8/20/88	1884	1.46	1.22	17.9	Y	1.34	1.00	31.5	IN	< 0.20	1.00	87.0	Y	IRef Std	4.00	94.0	Y
8/20/88	1885	1.46	1.22	17.9	Y	1.34	1.00	31.5	IN	< 0.20	1.00	87.0	Y	IRef Std	4.00	94.0	Y
8/20/88	1886	1.46	1.22	17.9	Y	1.34	1.00	31.5	IN	< 0.20	1.00	87.0	Y	IRef Std	4.00	94.0	Y
8/20/88	1887	1.46	1.22	17.9	Y	1.34	1.00	31.5	IN	< 0.20	1.00	87.0	Y	IRef Std	4.00	94.0	Y
8/20/88	1888	1.46	1.22	17.9	Y	1.34	1.00	31.5	IN	< 0.20	1.00	87.0	Y	IRef Std	4.00	94.0	Y
8/20/88	1889	1.46	1.22	17.9	Y	1.34	1.00	31.5	IN	< 0.20	1.00	87.0	Y	IRef Std	4.00	94.0	Y
8/20/88	1890	1.46	1.22	17.9	Y	1.34	1.00	31.5	IN	< 0.20	1.00	87.0	Y	IRef Std	4.00	94.0	Y
8/20/88	1891	1.46	1.22	17.9	Y	1.34	1.00	31.5	IN	< 0.20	1.00						

CUSTOMER: Clinton Bogart
 JOB#: Hackensack River Study
 SAMPLING EVENT: JULY 1988
 PARAMETER: TOTAL KJELDAHL NITROGEN
 REPORT TYPE: JOB SPECIFIC
 UNITS: mg/l

[illegible]

6TC LABORATORY QUALITY CONTROL REPORT

CUSTOMER: Clinton Report

JOB#: Hackensack River Study
SAMPLING EVENT: JULY 1988

PARAMETER: TOTAL KJELDAHL NITROGEN
UNITS: mg/l

PRECISION DUPLICATES										MATRIX SPIKES				BLANK SPIKES				REFERENCE STANDARDS			
DATE OF SAMPLE		ORG.	DUP.	% REL.	WITHIN	AVG.	ISPIKE	%	WITHIN	METHOD	SPIKE	%	WITHIN	REF.	KNOWN	%	WITHIN	RECY.	LIMITS		
ANALYSIS NUMBER		RESULT	RESULT	ERROR	LIMITS	RESULT	ADDED	REC.	LIMITS	BLK.	ADDED	REC.	LIMITS	ID.	VALUE		LIMITS				
Accept. Limits: 30.4		Accept. Limits: 50 - 150				Accept. Limits: 44 - 145				Accept. Limits: 68 - 124											
8/22/88	1890	4.32	10.20	NC	---	2.16	110.00	80.4	Y	< 0.20	1.00	67.0	Y	11Ref Std	4.00	101	Y				
8/22/88	1891	4.30	10.20	NC	---	2.15	110.00	83.5	Y	< 0.20	1.00	113	Y	11Ref Std	4.00	105	Y				
8/22/88	1892	4.20	4.80	NC	---	2.40	110.00	114	Y	< 0.20	1.00	36.0	IN	11Ref Std	4.00	105	Y				
8/22/88	1893	2.76	5.64	168.57	IN	4.20	110.00	115	Y	< 0.20	1.00	107	Y	11Ref Std	4.00	105	Y				
8/22/88	1894	5.31	10.20	NC	---	2.66	110.00	29.5	IN	< 0.20	1.00	101	Y	11Ref Std	4.00	105	Y				
8/22/88	1895	8.92	10.20	NC	---	4.46	110.00	124	Y	< 0.20	1.00	106	Y	11Ref Std	4.00	104	Y				
8/22/88	1900	0.63	0.44	135.51	IN	0.54	1.00	48.5	IN	< 0.20	1.00	40.0	IN	11Ref Std	4.00	102	Y				
8/22/88	1902	1.13	1.64	136.82	IN	1.39	1.00	94.5	Y	< 0.20	1.00	43.0	IN	11Ref Std	4.00	105	Y				
8/22/88	1909	0.20	5.01	NC	---	2.51	110.00	90.0	Y	< 0.20	1.00	0.00	IN	11Ref Std	4.00	101	Y				
8/22/88	1935	0.20	0.85	NC	---	0.43	1.00	137	Y	< 0.20	1.00	0.00	IN	11Ref Std	4.00	106	Y				
8/22/88	1936	0.87	0.57	141.67	IN	0.72	1.00	85.0	Y	< 0.20	1.00	0.00	IN	11Ref Std	4.00	106	Y				
8/22/88	1937	4.32	10.20	NC	---	2.16	110.00	78.4	Y	< 0.20	1.00	103	Y	11Ref Std	4.00	103	Y				
8/22/88	1938	0.20	2.82	NC	---	1.41	110.00	93.9	Y	< 0.20	1.00	105	Y	11Ref Std	4.00	105	Y				
8/22/88	1939	0.20	5.32	NC	---	2.66	110.00	108	Y	< 0.20	1.00	106	Y	11Ref Std	4.00	106	Y				
8/22/88	1940	0.20	4.60	NC	---	2.30	110.00	122	Y	< 0.20	1.00	105	Y	11Ref Std	4.00	105	Y				
8/22/88	1941	0.20	4.44	NC	---	2.22	110.00	124	Y	< 0.20	1.00	104	Y	11Ref Std	4.00	104	Y				
8/22/88	1942	0.20	3.94	NC	---	1.97	110.00	113	IN	< 0.20	1.00	103	Y	11Ref Std	4.00	103	Y				
8/22/88	1946	4.30	4.99	5.01	Y	4.20	110.00	NC	---	< 0.20	1.00	112	Y	11Ref Std	4.00	87.8	Y				
8/22/88	1958	3.48	144.71	*****	IN	24.10	110.00	191	IN	< 0.20	1.00	92.0	Y	11Ref Std	4.00	82.3	Y				
8/22/88	1679	5.75	4.77	118.63	Y	5.26	110.00	118	Y	< 0.20	1.00	83.0	Y	11Ref Std	4.00	83.5	Y				
8/24/88	1869	3.18	2.62	19.3	Y	2.90	110.00	146	Y	< 0.20	1.00	95.0	Y	11Ref Std	4.00	90.3	Y				
8/24/88	1870	2.23	2.60	15.3	Y	2.42	110.00	96.1	Y	< 0.20	1.00	89.0	Y	11Ref Std	4.00	86.0	Y				
8/24/88	1882	3.95	2.50	41.2	IN	3.28	110.00	117	Y	< 0.20	1.00	119	Y	11Ref Std	4.00	84.3	Y				
8/24/88	1883	3.30	3.22	2.45	Y	3.26	110.00	130	Y	< 0.20	1.00	112	Y	11Ref Std	4.00	109	Y				
8/24/88	2004	0.20	2.18	200	IN	1.09	110.00	113	Y	< 0.20	1.00	116	Y	11Ref Std	4.00	104	Y				
8/24/88	2005	2.83	2.87	1.49	Y	2.85	110.00	88.5	Y	< 0.20	1.00	117	Y	11Ref Std	4.00	107	Y				
8/24/88	2027	5.57	3.67	42.8	IN	4.67	110.00	90.3	Y	< 0.20	1.00	119	Y	11Ref Std	4.00	99.8	Y				
8/24/88	2028	3.93	5.49	32.1	IN	4.71	110.00	114	Y	< 0.20	1.00	97.0	Y	11Ref Std	4.00	107	Y				
8/24/88										< 0.20	1.00	116	Y	11Ref Std	4.00	104	Y				
8/24/88										< 0.20	1.00	117	Y	11Ref Std	4.00	107	Y				
8/24/88										< 0.20	1.00	119	Y	11Ref Std	4.00	99.8	Y				
8/24/88										< 0.20	1.00	97.0	Y	11Ref Std	4.00	107	Y				

STC LABORATORY QUALITY CONTROL REPORT

CUSTOMER: Clinton Bogart JOB#: Hackensack River Study PARAMETER: TOTAL KJELDAHL NITROGEN REPORT TYPE: JOB SPECIFIC QC
 SAMPLING EVENT: JULY 1988 UNITS: mg/l

DATE OF SAMPLE	ORG.	PRECISION DUPLICATES		AVG.	SPIKE	MATRIX SPIKES		METHOD	SPIKE	BLANK SPIKES		REFERENCE STANDARDS			
		1	2			1	2			1	2	1	2	3	4
ANALYST	NUMBER	RESULT	RESULT	ERROR	ILIMITS	RESULT	ADDED	REC.	ILIMITS	BLK.	ADDED	REC.	ILIMITS	1	2
8/24/88	427	2.80	2.86	2.12	Y	2.83	2.00	75.5	Y	2.20	1.00	109	Y	4.00	109
8/24/88	509	2.47	2.07	17.6	Y	2.27	2.00	74.0	Y	2.20	1.00	42.0	IN	4.00	107
8/24/88	510	1.99	1.95	2.50	Y	1.93	2.00	103	Y	2.20	1.00	40.0	IN	4.00	111
8/24/88	527	3.71	3.46	5.97	Y	3.59	2.00	142	Y	2.20	1.00	81.0	Y	4.00	102
8/24/88	635	2.83	1.96	36.3	IN	2.40	2.00	58.3	Y	2.20	1.00	76.0	Y	4.00	102
8/24/88	636	2.40	2.49	3.68	Y	2.45	2.00	38.2	IN	2.20	1.00	83.0	Y	4.00	101
8/24/88	656	3.05	2.59	29.4	Y	2.59	2.00	120	Y	2.20	1.00	85.0	Y	4.00	100
8/30/88	832	10.00	9.02	10.0	Y	4.51	2.00	N C	---	2.20	1.00	91.0	Y	4.00	102
8/30/88	835	8.86	8.86	175	IN	4.73	2.00	187	IN	2.20	1.00	92.0	Y	4.00	102
8/30/88	855	10.00	8.17	14.0	Y	4.09	2.00	240	IN	2.20	1.00	86.0	Y	4.00	102
8/30/88	835	10.00	6.29	N C	---	3.15	2.00	228	IN	2.20	1.00	98.0	Y	4.00	95.5
8/30/88	943	10.00	6.77	N C	---	3.39	2.00	299	IN	2.20	1.00	96.0	Y	4.00	87.3
8/30/88	961	10.00	10.00	N C	---	10.00	2.00	N C	---	2.20	1.00	108	Y	4.00	95.5
8/30/88	962	10.00	10.00	N C	---	10.00	2.00	N C	---	2.20	1.00	38.0	IN	4.00	95.3
8/30/88	1012	10.00	7.08	N C	---	3.54	2.00	N C	---	2.20	1.00	109	Y	4.00	105
8/30/88	1013	10.00	10.00	N C	---	10.00	2.00	N C	---	2.20	1.00	98.0	Y	4.00	109
8/30/88	1136	3.15	2.48	22.9	Y	2.80	2.00	97.0	Y	2.20	1.00	96.0	Y	4.00	121
8/30/88	1277	0.52	3.05	142	IN	1.77	2.00	208	IN	2.20	1.00	96.0	Y	4.00	94.9
8/30/88	1359	5.14	10.00	N C	---	2.57	2.00	N C	---	2.20	1.00	91.0	Y	4.00	91.0
8/30/88	1352	4.80	5.46	12.0	Y	5.13	2.00	53.0	Y	2.20	1.00	92.0	Y	4.00	92.0

6TC LABORATORY QUALITY CONTROL REPORT

CUSTOMER: Clinton Bogart
JOB#: Hackensack River Study
SAMPLING EVENT: JULY 1988
PARAMETER: TOTAL KJELDAHL NITROGEN
UNITS: mg/l
REPORT TYPE: JOB SPECIFIC QC

PRECISION DUPLICATES		MATRIX SPIKES		BLANK SPIKES		REFERENCE STANDARDS									
Accept. Limits: 30.3		Accept. Limits: 50 - 150		Accept. Limits: 44 - 145		Accept. Limits: 68 - 124									
DATE OF SAMPLE	ORG.	DUP. IN REL. WITHIN	AVG.	SPIKE	%	WITHIN	METHOD	SPIKE	%	WITHIN	REF.	KNOWN	%	WITHIN	
ANALYSIS NUMBER	RESULT	RESULT	ERROR	ADDED	REC. LIMITS	BLK.	ADDED	REC. LIMITS	ID.	VALUE	REC. LIMITS				
8/30/88	1935	2.44	0.93	89.6 IN	1.69	2.00	53.7 Y	< 0.20	1.00	90.0 Y	Ref Std	4.00	96.5 Y		
8/30/88	1936	0.49	1.75	113 IN	1.12	2.00	151 IN				Ref Std	4.00	95.3 Y		
8/30/88	1970	4.06	3.92	2.5 Y	3.99	2.00	33.5 IN				Ref Std	4.00	113 Y		
8/30/88											Ref Std	4.00	108 Y		
8/20/88											Ref Std	4.00	109 Y		
8/30/88											Ref Std	4.00	109 Y		
8/30/88											Ref Std	4.00	114 Y		
8/30/88											Ref Std	4.00	92.8 Y		
8/30/88											Ref Std	4.00	106 Y		
8/30/88											Ref Std	4.00	94.5 Y		
8/30/88											Ref Std	4.00	103 Y		

[illegible]

T1 NUMBER		PRECISION DATA (1)		MATRIX STUDIES				BLIND STUDIES				REFERENCE STANDARDS									
DATE OF ANALYSIS		RECALL		RES.		REL. WITHIN LIMITS		RES.		SPIDE		% WITHIN LIMITS		RES.		ID.		VALUE		% WITHIN LIMITS	
LIMITS		LIMITS		LIMITS		LIMITS		LIMITS		LIMITS		LIMITS		LIMITS		LIMITS		LIMITS		LIMITS	
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LOCATION: Clinton Bogart	JOB#: Harlemaek River Study	PARAMETER: T & NITROGEN	REPORT TYPE: JOB SPECIFIC QC
	SAMPLING EVENT: OCTOBER 1988	UNITS: mg/l	

DATE OF SAMPLE ANALYSIS	PRECISION DATA			MATRIX SPIKES			BLANK SPIKES			REFERENCE STANDARDS			
	CONC.	DUP.	% REL. WITHIN LIMITS	Avg.	SPIKE	% ADDED	METHOD	SPIKE	% ADDED	REF. ID.	WGT.	% REC.	LIMITS
(Accept. Limits)	(Accept. Limits)	(Accept. Limits)	(Accept. Limits)	(Accept. Limits)	(Accept. Limits)	(Accept. Limits)	(Accept. Limits)	(Accept. Limits)	(Accept. Limits)	(Accept. Limits)	(Accept. Limits)	(Accept. Limits)	(Accept. Limits)
11/14/80	15.73	114.47	8.38	Y	15.10	10.00	61.2	Y	< 0.201	1.00	85.8	Y	95.5 Y
11/14/80	2.46	2.78	10.0	Y	2.59	1.00	119	Y	< 0.201	1.00	87.2	Y	95.8 Y
11/14/80	24.76	122.33	10.3	Y	23.94	10.00	1.26 IN		< 0.201	1.00	88.7	Y	96.2 Y
11/15/80	41.88	146.64	10.8	Y	44.26	10.00	N.C.		< 0.201	1.00	90.80	Y	96.5 Y
11/15/80	80.84	118.46	12.1	Y	79.25	10.00	60.3	Y	< 0.201	1.00	94.30	Y	125 IN
11/15/80	22.80	27.78	19.7	Y	25.29	10.00	137	Y	< 0.201	1.00	76.20	Y	118 Y
11/15/80	8.97	7.42	19.0	Y	8.19	10.00	81.9	Y	< 0.201	1.00	166	IN	117 Y
11/15/80	37.65	130.20	10.923	Y	39.03	10.00	98.2	Y	< 0.201	1.00	75.40	Y	119 Y
11/15/80	36.69	35.32	3.62	Y	36.00	10.00	66.1	Y	< 0.201	1.00	72.20	Y	> 124 IN
11/15/80									< 0.201	1.00	76.40	Y	> 124 IN
11/15/80									< 0.201	1.00	74.20	Y	94.2 Y
11/15/80									< 0.201	1.00	75.70	Y	94.9 Y
11/15/80									< 0.201	1.00	78.20	Y	93.3 Y
11/15/80									< 0.201	1.00	81.40	Y	96.3 Y
11/15/80									< 0.201	1.00	81.40	Y	96.4 Y
11/15/80									< 0.201	1.00	80.80	Y	97.4 IN
11/15/80									< 0.201	1.00	81.0	Y	38.8 IN
11/15/80									< 0.201	1.00	75.30	Y	39.1 IN
11/15/80									< 0.201	1.00	80.80	Y	37.7 IN
11/15/80									< 0.201	1.00	79.40	Y	39.1 IN
11/15/80									< 0.201	1.00	82.80	Y	38.1 IN
11/15/80									< 0.201	1.00	81.40	Y	38.4 IN
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11/15/80									< 0.201	1.00	82.80	Y	38.4 IN
11/15/80									< 0.201	1.00	81.0	Y	38.8 IN
11/15/80									< 0.201	1.00	75.30	Y	39.1 IN
11/15/80									< 0.201	1.00	80.80	Y	37.7 IN
11/15/80									< 0.201	1.00	79.40	Y	39.1 IN
11/15/80									< 0.201	1.00	82.80	Y	38.1 IN
11/15/80									< 0.201	1.00	81.40	Y	38.4 IN
11/15/80									< 0.201	1.00	82.80	Y	38.4 IN
11/15/80									< 0.201	1.00	81.0	Y	38.8 IN
11/15/80									< 0.201	1.00	75.30	Y	39.1 IN
11/15/80									< 0.201	1.00	80.80	Y	37.7 IN
11/15/80									< 0.201	1.00	79.40	Y	39.1 IN
11/15/80									< 0.201	1.00	82.80	Y	38.1 IN
11/15/80									< 0.201	1.00	81.40	Y	38.4 IN
11/15/80									< 0.201	1.00	82.80	Y	38.4 IN
11/15/80									< 0.201	1.00	81.0	Y	38.8 IN
11/15/80									< 0.201	1.00	75.30	Y	39.1 IN
11/15/80									< 0.201	1.00	80.80	Y	37.7 IN
11/15/80									< 0.201	1.00	79.40	Y	39.1 IN
11/15/80									< 0.201	1.00	82.80	Y	38.1 IN
11/15/80									< 0.201	1.00	81.40	Y	38.4 IN
11/15/80									< 0.201	1.00	82.80	Y	38.4 IN
11/15/80									< 0.2				

