

Leaching Study
SWFWMD
Rome Ave.

Forestry Suppliers, Inc.

1-800-647-5368

49354 Level Book

[illegible]

W#	min Depth	MAX Depth	SPL WT	Vessel #	Litho As
Blank				1	
18590	179	181	300.09	2	4
18590	238	241	300.44	3	3
18590	273	276	300.49	4	2
18590	357	360	300.39	5	2
18590	395	397	300.40	6	0
18632	236	240	300.33	7	4
18632	236	240	300.51	8	Dup ⁴
18632	331	334	300.21	9	* 20
18632	344	346	300.30	10	* 13
18632	382	385	279.51	11	2
18632	393	395	300.02	12	2

7-19-07

Spurge all vessels with
 $N_2 \approx 1-2$ min per vessel.
No water - Crushed Rock only

7-20-07

Spurge all vessels with
 $N_2 \approx 1-2$ min per vessel
No water - Crushed Rock only

Jeff will set Lab Temp to
75°F today 7-20-07

5-9-07 Both Carboys (NGW) were
sampled pre- H_2S Hungate.

After sampling ^{NGW} Water + Parameters
 H_2S Hungate $\approx 1-2$ min. 5-9-07
Then Refrigerate.

7-26-07 Spurge all vessels
with $N_2 \approx 1-2$ min. per vessel
No water - crushed rock only

7-27-07 Spurge w/ N_2 as above

7-30-07 Spurge w/ N_2 as above

8-3-07

8-10-07

" " " " "

Started around 10:00

8-10-07 Check NGW

DO 1.9 ORP -220

Spurge w/ H_2S ^{45 sec} Wait - 45 min

Check again ORP -254.00

DO ORP

Start filling vessels

Hungate w/ N_2 while

filling 1L volumetric flask
Hungate N_2 vessel while

pouring flask into vessel.

Vacuum 1/2 half of vessel

10 min. Replaced N_2

headspace. Continued

filling rest of flask

then applied vacuum

to 2nd half of vessel

Replaced N_2 headspace

time 12:00 N. parameters

Start sampling + 1:00

finished 3:30

sample #

1008-10-07

Vessel

sample #	DO	ORP	pH	Temp	Cond, μS
NGW3	0.8	-254.0	7.06	24.5	549
1007	0.1	-296.0	7.31	24.5	549
1008	0.2	-300.8	7.37	24.4	570
1009	0.2	-307.5	7.66	24.6	571
1010	0.3	-294.3	7.64	24.4	554
1011	0.2	-312.3	7.71	24.6	566
1012	0.1	-306.2	7.85	24.5	590
1013	0.2	-311.2	7.86	24.5	582
1014	0.1	-317.5	7.71	24.2	584
1015	0.1	-311.4	7.71	24.2	651
1016	0.2	-331.1	7.81	24.4	639
1017	0.2	-341.5	7.87	24.7	584
1018	0.1	-329.9	7.63	24.6	583

Finished
sampling
at 3:30

Slight precipitate in
the replacement NGW

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Had to purge w/ N_2 DO was 1.9
ORP -220

← Bottom of First Canboy
2nd Canboy

all samples
sampled for
Cations anions +
B. Carb. (Alkalinity)
including NGW

A-07-3620

Sample #	DO	ORP	pH	Temp	Cond.
1119	0.2	-229.7	7.70	23.5	549
1120	0.2	-239.2	7.50	23.5	559
1121	0.2	-242.5	7.68	23.4	559
1122	0.2	-243.9	7.74	23.7	543
1123	0.2	-237.2	7.78	23.6	550
1124	0.1	-236.1	7.95	22.7	565
1125	0.2	-236.0	7.88	23.5	563
1126	0.2	-221.0	7.77	23.5	573
1127	0.1	-192.0	7.78	23.8	680
1128	0.2	-134.8	7.96	23.8	660
1129	0.2	-121.8	7.97	23.9	545
1130	0.1	-243.8	7.87	24.5	555

Vessel #

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after sampling
pulled vacuum +
then hooked up to
H₂S for 15 sec.
Total (5 sec at a time)

sample #	DO	ORP	pH	Temp	Cond.
1143	0.2	-342.4	7.49	23.6	559
1144	0.1	-277.8	7.23	23.3	614
1145	0.1	-359.7	7.62	23.7	635
1146	0.1	-358.9	7.71	23.3	607
1147	0.1	-296.3	7.90	23.5	596
1148	0.1	-330.1	7.79	23.7	622
1149	0.1	-339.0	7.82	23.5	614
1150	0.1	-292.4	7.81	23.8	615
1151	0.1	-194.3	7.41	23.4	710
1152	0.3	-180.0	7.20	23.8	704
1153	0.1	-358.1	7.68	23.7	580
1154	0.4	-82.8	7.35	23.8	586

Vessel #	
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9	Hungate w/ H ₂ S 10 sec
10	Hungate w/ H ₂ S 10 sec.
11	
12	Hungate w/ H ₂ S 10 sec.

Sample #	DO	ORP	pH	Temp	Cond. μS
1167	0.2	-358.0	7.80	23.5	557
1168	0.1	-322.7	7.49	23.3	652
1169	0.2	-349.9	7.90	23.5	577
1170	0.2	-332.3	7.73	23.3	OR
1171	0.2	-338.1	7.70	23.2	637
1172	0.2	-327.3	7.75	23.1	607
1173	0.2	-314.2	7.81	23.2	585
	0.1	-273.0	7.64	23.8	682
1174	0.2	-297.6	7.63	23.9	801
1175	0.2	-355.4	7.63	24.3	780
1176	0.2	-274.0	7.64	23.8	590
1177	0.1	-371.3	7.58	24.3	717

Vessel

#	
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4	← Could not get Cond. Reading
5	Said OR
6	
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8	— Dup
9	> Red Color after adding
10	H ₂ S Last Wednesday has
11	Scum like
12	Top

Sample #

8-22-07 8:00

DO	ORP	pH	Temp	Cond us
0.2	-366.0	7.75	23.6	553
0.1	-340.3	7.75	23.4	639
0.2	-317.6	7.84	23.4	562
0.2	-347.0	7.76	23.2	568
0.2	-319.0	7.87	23.8	630
0.2	-321.9	7.89	23.8	606
0.2	-291.3	7.89	23.8	584
0.2	-263.0	7.72	23.5	664
0.3	-265.9	7.69	23.9	786
0.2	-352.3	7.80	23.7	737
0.2	-291.6	7.80	24.0	605
0.2	-333.1	7.77	24.2	633

No Samples

Vessel #

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> still Red Brown Color

No Precip
from 9 + 10

Sample
#

8-24-07 8:30

DO	ORP	pH	Temp	Cond
0.2	-334.0	7.63	23.7	559
0.2	+336.0	7.74	23.3	633
0.2	-323.1	7.71	23.5	567
0.2	-349.0	7.79	23.5	570
0.2	-339.0	7.88	23.6	624
0.2	-338.5	7.86	23.5	601
0.2	-338.0	7.82	23.1	591
0.2	-109.9	7.78	22.8	670
0.2	-249.1	7.75	23.1	780
0.2	-326.7	7.87	23.4	715
0.2	-279.7	7.79	23.7	631
0.3	-289.9	7.80	23.6	619

NOSAMPLE

V

Vessel
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> Still Red in color
Pink

No precip in 9+10
but there is
precip in preserved
sample

Sample #	DO	ORP	pH	Temp	Conds
1189	0.2	-342.5	7.66	23.4	560
1190	0.2	-325.6	7.90	22.9	624
1191	0.2	-316.1	7.70	23.6	568
1192	0.2	-344.1	7.80	23.5	564
1193	0.1	-255.4	7.80	23.4	620
1194	0.2	-327.9	7.85	23.8	599
1195	0.2	-339.0	7.85	23.6	590
1196	0.3	-101.0	7.82	23.7	657
1197	0.2	-214.4	7.72	23.5	774
1198	0.2	-270.0	7.69	24.3	700
1199	0.3	-234.0	7.74	24.0	630
1200	0.2	-214.0	7.50	24.0	631

Vessel #

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Switched
PH meters

← Less Red than Last week
← Still Red

* Hungate H₂S for 10 sec.

8-27-07 4:30

Sampled for Cations, anions,

Sponged w/ H₂S for 30 sec.

NGW
LDO

Water Change 8-28-07

10:00 Empty all vessels
Sample for Alkalinity.

Keep N₂ Headspace Hungate

Refill with H₂S sparged
Source water while
Hungating w/ N₂

Also Regrease Central
Stopper - the sampling one -

Vessel Alkalinity

AKA

1	1189	1213
2	1190	1214
3	1191	1215
4	1192	1216
5	1193	1217
6	1194	1218
7	1195	1219
8	1196	1220
9	1197	1221
10	1198	1222
11	1199	1223
12	1200	1224

30 ml
samples
Alkalinity

A07-4294

Put AIR w/ 8/27/07

Data. That is the
day the parameters were taken

Filter if necessary.

Source water 8-28-07

DO	ORP	Temp	pH	Cond
0.3	-305.8	24.3	6.60	382

Sample 8 -

#	DO	m	Cond us
1237	0.2 -		387
1238	0.2 - 381.1	7.66	23.5 511
1239	0.2 - 374.6	7.53	23.5 511
1240	0.2 - 375.5	7.55	23.5 510
1241	0.2 - 384.3	7.84	23.1 508
1242	0.2 - 381.6	7.88	23.5 515
1243	0.2 - 383.5	7.85	23.5 521
1244	0.2 - 374.3	7.93	23.6 513
1245	0.2 - 374.5	7.99	23.5 553
1246	0.2 - 379.3	8.09	23.5 501
1247	0.2 - 381.2	7.88	23.5 504
1248	0.2 - 384.2	7.94	23.4 500

Source
LDO

Vessel #

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Small
Vial
Alkalinity
Samples

A07-4294

Sample #	DO	ORP	pH	Temp	Conducs
1237	0.2	-309.6	6.94	23.5	387
1238	0.2	-384.1	7.66	23.5	511
1239	0.2	-374.6	7.53	23.5	511
1240	0.2	-375.5	7.55	23.5	510
1241	0.2	-384.3	7.84	23.1	508
1242	0.2	-381.6	7.88	23.5	515
1243	0.2	-383.5	7.85	23.5	521
1244	0.2	-374.3	7.93	23.6	513
1245	0.2	-374.5	7.99	23.5	553
1246	0.2	-379.3	8.09	23.5	501
1247	0.2	-381.2	7.88	23.5	504
1248	0.2	-384.2	7.94	23.4	500

Source
LDO

Vessel #

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Small
Vial
Alkalinity
Samples

A07-4294

Sample

8-31-07 7:00

#

DO	ORP	pH	Temp	Cond us
0.2	-300.2	7.61	23.6	386
0.2	-381.2	7.80	23.6	505
0.2	-384.7	7.59	23.5	507
0.2	-372.1	7.58	23.5	504
0.2	-376.2	7.59	23.5	520
0.2	-373.0	7.84	23.6	521
0.2	-367.1	7.89	23.4	510
0.2	-325.8	7.86	23.4	508
0.2	-339.0	7.85	23.1	544
0.2	-364.3	8.19	23.3	470
0.2	-364.0	7.99	23.5	500
0.2	-364.0	8.13	23.7	463

No Samples

Vessel

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Sample #	DO	ORP	pH	Temp	Cond us
1261	0.2	-362.2	8.23	23.3	381
1262	0.2	-341.2	7.65	23.5	512
1263	0.2	-345.4	7.65	23.5	504
1264	0.2	-357.5	7.83	23.2	497
1265	0.2	-363.8	7.75	23.0	515
1266	0.2	-368.2	7.81	22.9	513
1267	0.2	-355.8	7.88	23.3	507
1268	0.2	-308.6	7.41	23.0	505
1269	0.2	-321.7	7.38	23.1	625
1270	0.2	-344.7	7.69	23.2	525
1271	0.2	-321.4	7.79	23.2	519
1272	0.2	-289.7	7.89	22.9	463

Vessel #

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← White Stringy Sawn in Vessel on Rock

9-7-07 8:00

	DO	ORP	pH	Temp	Conduc
1285	0.2	-346.7	7.88	23.3	384
1286	0.2	-356.7	7.85	23.2	507
1287	0.2	-347.8	7.46	23.5	515
1288	0.1	-354.6	7.78	23.3	478
1289	0.2	-349.2	7.80	23.6	504
1290	0.2	-359.5	7.94	23.2	498
1291	0.2	-361.6	7.99	23.4	483
1292	0.2	-161.2	7.50	22.5	594
1293	0.2	-308.2	7.36	23.4	731
1294	0.2	-362.4	7.51	23.3	608
1295	0.2	-269.2	7.55	23.2	538
1296	0.2	-30.2	7.63	23.4	527

Spurge w/Air
after sampling

Vessel
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Since adding
Source water
Vessel # 9

has been slightly
Darker than the
others as well
as #10 but 10
is lighter than
9

Small
Alkalinity
sample

A074294

Sample

#	DO	ORP	pH	Temp	Conduct
1309	4.4	+124.4	6.27	24.0	394
1310	5.7	+116.5	7.16	23.9	534
1311	5.5	+114.7	7.28	23.9	546
1312	5.4	+112.7	7.39	23.9	502
1313	4.9	+88.7	7.21	23.8	538
1314	4.0	+115.4	7.26	23.9	549
1315	4.4	+115.1	7.30	23.9	539
1316	5.6	+120.3	7.31	23.9	611
1317	2.9	+68.1	7.15	23.9	805
1318	1.3	-17.0	7.14	23.9	701
1319	4.9	+42.4	7.47	23.9	588
1320	1.1	-239.9	7.36	23.9	620

HDO

Vessel #
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← Floating Stuff (stringy Scum?)

← Red Brown color is gone!

← white stringy Scum still here.

Sample
#

9-13-07 7:30

DO	ORP	pH	Temp	Cond. μ S
7.2	160.7	6.22	23.9	394
6.8	138.5	7.14	23.9	539
6.7	136.7	7.18	23.8	551
6.8	135.7	7.26	23.8	511
6.5	128.0	7.23	23.8	546
6.1	134.9	7.30	23.8	580
5.9	134.2	7.17	23.8	567
6.4	133.6	7.26	23.8	632
3.2	85.6	7.04	23.8	852
2.9	20.0	7.09	23.8	755
6.3	62.9	7.28	23.8	607
4.7	-184.0	7.24	23.8	708

No samples

↓

HDO

Vessel

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12

← white Scummy stuff

← small amt floating stuff

← NOT as much stringy stuff

Sample #	DO	ORP	pH	Temp	Conduc
—	7.6	202.9	6.01	23.8	397
1333	6.8	171.0	7.15	23.8	556
1334	7.1	154.2	7.27	23.8	561
1335	7.2	150.2	7.27	23.7	526
1336	6.7	157.4	7.08	23.7	561
1337	6.9	160.0	7.23	23.7	598
1338	6.7	154.9	7.22	23.7	593
—	6.8	159.7	7.15	23.7	645
1339	3.9	158.1	6.90	23.7	906
1340	3.9	151.4	6.99	23.6	820
1341	6.7	155.1	7.00	23.7	623
1342	5.4	141.3	7.10	23.6	800

HDO

Vessel #	
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4	— white floating stuff
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7	— " " " "
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10	✓ — like last sampling
11	
12	

Sample
#

9-20-07

7:00

DO	ORP	pH	Temp	Conduc
7.6	140.2	6.07	24.1	396
7.0	125.0	7.21	24.1	560
7.2	124.5	7.41	24.0	565
7.2	127.6	7.34	24.0	534
6.5	133.4	7.12	24.0	569
6.8	134.9	7.12	24.0	604
6.9	138.7	7.06	24.0	600
6.8	139.1	7.10	24.0	656
4.4	145.1	6.91	24.0	919
4.5	145.9	6.98	23.9	845
Lecl	147.3	7.20	23.9	626
5.0	-100.2	7.04	24.0	840

NO Samples



AD

Vessel
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as before

as before

..

no sample

Sample #	DO	ORP	pH	Temp	Conduct
1353	7.7	198.0	5.70	24.0	400
1354	7.3	162.4	7.22	23.9	568
1355	7.4	150.9	7.40	23.8	570
1356	7.2	149.3	7.34	23.8	542
1357	6.8	153.0	6.98	23.8	583
1358	6.9	152.5	7.15	23.8	619
1359	7.0	157.2	7.11	23.8	608
1360	6.7	158.9	7.12	23.8	669
1361	4.2	163.5	7.01	23.8	949
1362	4.2	159.1	7.16	23.8	881
1363	5.8	158.2	7.14	23.8	643
1364	6.1	138.2	7.18	23.8	845

HDO

Vessel

#	
1	
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4	as before
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7	as before
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10	
11	as before
12	

Sample #	DO	ORP	pH	Temp	Condms
1377	7.8	236.5	4.08	24.0	424
1378	7.2	177.4	7.25	24.0	577
1379	7.4	167.3	7.35	24.0	578
1380	7.8	94.2	7.30	24.0	553
1381	7.0	173.0	7.13	24.0	589
1382	7.3	175.4	7.02	23.9	626
1383	7.3	169.3	7.06	23.9	620
1384	7.1	180.9	7.11	23.9	661
1385	5.4	179.0	6.95	23.9	982
1386	5.0	180.4	7.02	23.9	904
1387	6.8	176.2	7.08	23.9	644
1388	5.4	171.8	7.01	23.9	874

HD

1	
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4	as before
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10	
11	as before
12	

Sample #	DO	ORP	pH	Temp	Conduc
10-5-07 7:30					
8.0	262.2	4.27	23.7	433	
8.0	172.2	7.25	23.8	580	
7.9	172.3	7.39	23.9	581	
7.8	162.1	7.53	24.0	556	
7.7	160.5	7.56	23.9	593	
7.9	159.5	7.67	23.8	626	
7.9	157.3	7.75	23.8	628	
7.8	160.7	7.66	23.9	682	
7.6	162.5	7.61	23.9	977	
7.6	159.4	7.63	23.9	915	
7.9	153.9	7.78	23.9	646	
7.7	156.1	7.71	23.9	877	

No Samples

Sponge w/ air
before sampling
the parameters.

Vessel #
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New
pH
probe

sample #	DO	ORP	pH	Temp	Conduc
1401	7.9	266.8	4.00	24.0	446
1402	7.3	188.8	7.09	24.0	581
1403	7.5	276.3	7.31	23.9	585
1404	7.5	278.1	7.46	23.9	551
1405	7.0	282.9	7.43	23.9	609
1406	7.4	278.8	7.53	23.9	638
1407	7.2	287.5	7.57	23.9	648
1408	6.8	285.4	7.51	23.9	689
1409	5.5	288.0	7.37	23.9	1009
1410	5.5	289.2	7.38	23.9	950
1411	7.2	294.4	7.57	23.9	670
1412	6.7	286.2	7.50	23.9	904

Sponge Vessel
#9+10 with
air after
sampling

Vessel #

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New
ORP
Probe

Sample #	DO	ORP	pH	Temp	Cond. mS
10-11-07 12:30					
1425	7.9	373.4	3.98	24.1	449
1426	7.3	295.9	7.34	24.1	587
1427	8.1	279.5	7.46	24.1	605
1428	7.5	280.9	7.55	24.0	578
1429	7.3	278.6	7.51	24.1	623
1430	7.5	280.6	7.61	24.1	659
1431	7.5	283.3	7.57	24.0	656
1432	7.2	280.7	7.58	23.9	708
1433	6.1	284.4	7.35	23.9	1032
1434	6.0	249.5	7.39	23.9	986
1435	7.3	257.0	7.56	24.0	675
1436	7.1	273.4	7.50	23.9	912

HDO
 Alkalinity
 Samples
 Taken
 AOT 5/11

Vessel #
 1
 2
 3
 4
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 12

10-12-07
 Spurge all
 Vessels w/ H₂S
 Spurge Source
 water w/ H₂S
 30 sec.
 ↑
 Regreased
 Center
 Stopcock

Sample 10-15-07 7:30

#	DO	ORP	pH	Temp	Condu
1449	0.8	-218.2	3.92	23.7	447
1450	0.3	-378.6	7.09	23.6	739
1451	0.3	-377.0	7.10	23.8	759
1452	0.2	-379.7	7.31	23.6	775
1453	0.3	-375.8	7.01	23.6	723
1454	0.2	-377.9	7.23	23.6	769
1455	0.2	-377.4	7.21	23.6	757
1456	0.3	-384.2	7.09	23.6	797
1457	0.2	-368.7	7.13	23.6	1063
1458	0.3	-372.9	7.17	23.6	1036
1459	0.2	-378.8	7.28	23.6	813
1460	0.2	-370.9	7.19	23.6	960

✓ DO

Vessel

#

1

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12

Red Brown Color is back!
9 is darker than 10

No Samples

DO	ORP	pH	Temp	Conducs
0.4	-180.8	4.17	23.0	434
0.2	-392.6	7.88	22.4	730
0.2	-389.5	7.64	23.2	765
0.1	-391.5	7.83	23.1	722
0.1	-389.5	7.60	23.2	746
0.1	-388.0	7.83	23.0	743
0.1	-379.4	7.68	22.9	736
0.1	-373.4	8.04	23.0	718
0.1	-305.8	7.62	23.0	990
0.2	-348.4	7.75	23.1	945
0.1	-378.8	7.94	22.9	702
0.1	-356.8	7.64	23.0	890

V D O

Vessel #
1
2
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11
12

8 - Slightly Cloudy
 9 - Pink + Cloudy
 10 - Very slightly pink Brown + Cloudy
 11 ← Stringy Stuff coming Back
 12 " " "

Thin Film
 over top of water level

	DO	ORP	pH	Temp	Conduc
10-22-07 7:15					
1473	0.3	-147.8	4.09	23.7	439
1474	0.2	-391.1	8.01	23.7	710
1475	0.2	-395.6	7.90	23.6	746
1476	0.2	-397.9	7.90	23.6	688
1477	0.2	-396.3	7.88	23.5	724
1478	0.2	-393.2	7.89	23.4	702
1479	0.1	-394.7	7.86	23.4	710
1480	0.1	-339.4	7.99	23.4	683
1481	0.1	-315.7	7.43	23.5	1044
1482	0.2	-340.8	7.55	23.5	957
1483	0.2	-366.0	8.04	23.4	654
1484	0.2	-350.6	7.52	23.4	900

Alkalinity
Samples Taken
LD  ACT-6159

Vessel
#

1

2

3

4

5

6

7

8

9

10

11

12

yellow colored

→ No Longer Cloudy still
Pink Bottom

8-12 - had
thin film
over top

11+12 white stringy
stuff.

NO Samples

10-26-07 9:00

DO	ORP	pH	Temp	Condus
0.3	-219.5	4.46	24.2	437
0.2	-404.3	7.81	24.2	689
0.2	-436.7	7.69	24.2	718
0.2	-395.7	7.75	24.1	646
0.1	-397.4	7.71	24.2	692
0.2	-384.4	7.57	24.1	688
0.1	-389.1	7.56	24.0	677
0.2	-330.1	7.28	24.1	720
0.2	-299.4	7.19	24.1	1087
0.2	-355.5	7.30	23.9	975
0.2	-323.0	7.73	24.0	629
0.2	-337.0			918

LDO

Vessel #

1

2

3

4

5

6

7

8

9

10

11

12

yellow

same color

stringy stuff

New ORP probe

10-29-07 7:30

Sample #	DO	ORP	pH	Temp	Conduct
1497	0.3	-69.5	4.20	23.7	440
1498	0.2	-371.3	7.84	23.2	698
1499	0.2	-363.5	7.87	23.3	716
1500	0.2	-383.2	8.04	23.4	620
1501	0.2	-396.2	8.28	23.4	653
1502	0.2	-386.1	8.07	23.3	688
1503	0.2	-371.6	8.01	23.4	660
1504	0.2	-328.1	7.44	23.3	811
1505	0.2	-251.2	7.40	23.0	1080
1506	0.1	-343.5	7.60	23.2	951
1507	0.1	-324.7	7.63	23.1	695
1508	0.2	-297.6	7.54	23.2	926

✓ DO

Vessel #

1

2

3

4

5

6

7

8

9

10

11

12

yellow

> not quite as Pink more light
Brown-Gold

> Stringy Stuff

No Samples

DO	ORP	pH	Temp	Conduct
0.2	-34.6	7.29	24.2	432
0.2	-339.5	7.71	23.9	673
0.2	-351.4	7.96	24.0	687
0.2	-365.0	7.83	24.1	632
0.1	-381.2	8.19	24.0	606
0.2	-348.7	7.84	24.0	693
0.2	-376.2	8.08	23.8	631
0.2	-362.3	7.67	24.0	826
0.2	-220.8	7.54	24.0	1076
0.2	-302.9	7.64	24.2	951
0.2	-303.1	7.54	24.1	781
0.2	-261.5	7.49	23.1	918

✓ DO

Vessel #

- 1
- 2
- 3
- 4
- 5 — yellow
- 6
- 7 — slightly yellow
- 8
- 9 > same as last time
- 10
- 11
- 12

* 11-5-07
DO Spurge w/ Air until
between 6+7 mg/L

Sample #

11-6-07 7:30

DO	ORP	pH	Temp	Conduct
7.7	+106.4	4.38	24.2	436
1.9	-139.3	6.71	24.2	642
2.1	-140.7	6.91	24.2	637
0.9	-209.2	7.42	24.1	630
0.9	-83.5	7.30	24.1	595
0.5	-231.7	7.40	24.1	675
1.0	-142.5	7.39	24.1	639
4.4	-38.7	7.22	24.1	836
1.7	-24.9	7.22	24.0	1087
1.6	-62.4	7.19	24.0	957
2.9	-148.4	7.30	24.0	803
3.6	+4.2	7.47	24.0	921

No Samples

HDO

Vessel #

Vessel #	Notes
1	
2	
3	
4	
5	←
6	→ yellow Color Gone
7	←
8	
9	↔ Red Brown Color Gone
10	↔
11	→ Not as stringy
12	→

Sparged all
samples < 6.0 DO
after parameters

Sample
#

11-12-07 7:00

DO	ORP	pH	Temp	Condu
7.9	+245.7	4.38	23.1	432
5.5	+115.7	6.21	23.0	705
5.0	+118.4	6.80	23.0	720
1.6	+64.7	6.98	23.0	724
3.4	-188.6	7.17	23.0	707
5.0	+53.1	7.29	22.9	774
5.9	-69.7	7.21	22.9	791
4.8	+47.2	7.32	22.9	889
4.2	+61.6	7.29	22.8	1148
3.7	+69.8	7.25	22.8	1053
6.0	+81.1	7.25	22.8	854
6.7	+90.0	7.33	22.7	958

10 Samples

HDO

Vessel
#

1

2

3

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12

Less Stringy

Sparzed all samples
 < 6.0 mg/L DO
 after parameters

Sample #

11-16-07

7:30 L

DO	ORP	pH	Temp	Condus
8.0	+253.7	4.45	23.3	429
6.6	+166.4	6.49	23.3	722
6.7	+161.7	6.65	23.2	737
6.6	+161.5	6.82	23.1	730
4.2	-172.4	7.00	23.1	775
6.5	+68.9	7.23	23.1	789
4.3	+76.0	7.19	23.0	818
6.2	+94.4	7.16	23.0	905
5.0	+93.5	7.17	22.9	1172
4.7	+98.1	7.20	22.9	1083
6.8	+103.9	7.28	22.9	856
7.0	+108.3	7.32	22.8	964

Vessel #

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> Same as before

* Below 6.0 DO
Sparged w/Air

HDO

Sample #

11-21-07 8:00

DO	ORP	pH	Temp	Condu
8.0	+256.4	4.52	23.0	432
7.1	+176.8	6.75	23.0	724
7.2	+163.4	6.94	23.0	743
7.2	+158.3	7.09	23.0	720
6.1	+93.8	7.08	22.9	804
7.0	+118.8	7.18	22.9	790
6.6	+121.9	7.19	22.9	831
6.6	+136.2	7.17	22.9	901
5.3	+142.7	7.13	22.8	1195
5.2	+144.7	7.14	22.8	1092
7.2	+142.2	7.20	22.8	859
7.4	+144.8	7.28	22.8	948

Vessel #

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No Samples

HDO

All Vessels
Sparged w/Air

sample #	DO	ORP	pH	Temp	Condus
1521	7.9	256.2	4.65	23.4	432
1522	7.2	175.6	6.90	23.4	733
1523	7.2	160.2	6.96	23.3	748
1524	7.3	163.9	7.19	23.3	743
1525	6.7	163.9	7.16	23.3	789
1526	7.1	162.3	7.23	23.2	789
1527	7.0	166.1	7.19	23.2	833
1528	6.8	166.4	7.22	23.2	918
1529	5.5	171.3	7.14	23.2	1226
1530	6.0	166.6	7.22	23.2	1145
1531	7.4	156.4	7.33	23.1	854
1532	7.4	156.4	7.34	23.1	972

HDO

Vessel #

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* Sample 1521 Lab did NOT run Alkalinity as pH was too low.

Last Sample
Did not replace
water.
Alkalinity
Samples
Taken
A07-6/59

