

AR 226 - 3714

OPPT-2003-0012

RECEIVED
OPPT CLIC

06 SEP 25 AM 6:04



September 21, 2006

VIA UPS

Document Control Office (DCO)
Office of Pollution Prevention and Toxics (OPPT)
US Environmental Protection Agency
EPA East, Room 6428
1201 Constitution Avenue, MW
Washington DC 20460

Attention: Docket No. AR-226 and the PFOA Electronic Docket OPPT-2003-0012

Subject: Fourth Submission of Monitoring Data Pursuant to the 3M LOI dated
March 13, 2003 and PFOA Users LOI dated March 14, 2003

Dear Sir or Madam:

This report is submitted pursuant to the 3M Letter of Intent (LOI) dated March 13, 2003 and the PFOA Users LOI dated March 14, 2003. The report is the fourth submission under the LOIs of the results of groundwater and wastewater monitoring at the 3M manufacturing sites at Cottage Grove, MN and Decatur, AL. Perfluorooctanoic acid (PFOA) was previously produced at these sites. This submittal also includes previously provided surface water results for the Tennessee River in the vicinity of the 3M Decatur facility and analytical results for sediments, fish and clams for the same locations that have been finalized within the last year.

As noted in the 3M LOI and in the 3M submission pursuant to this LOI, monitoring of wastewater treatment plant effluent and groundwater for the presence of PFOA has been underway at the Decatur and Cottage Grove sites for a number of years. This monitoring was initiated as a result of 3M voluntary commitments and/or plans established through permits with local regulators. Under the 3M LOI, 3M agreed to continue this monitoring in order to assess the trends that are likely to occur as a result of the 3M production phase-out of PFOA, completed at the end of 2002 and the discontinuation of the use of PFOA at the Dyneon fluoropolymer manufacturing facility. Because the Dyneon and former 3M manufacturing operations are located at the same site, it was determined that monitoring would be conducted and reported jointly by 3M and Dyneon.

The description of the monitoring program under the LOIs can be found in our May 7, 2003 letter to Ward Penberthy of EPA, and in our first Submission of Monitoring Data dated August 1, 2003. These two documents have been entered into the AR-226 Docket and the PFOA Electronic Docket 2003 - 0012. Please refer to those two Dockets for background information and a detailed description of the test methodology, sampling plans and proposed test schedule for wastewater and groundwater monitoring at the Cottage Grove and Decatur sites.

CONTAIN NO CBI

298876

COTTAGE GROVE, MN SITE MONITORING DATA

Monitoring Results

Groundwater Monitoring

As explained in the previous submittals, 3M selected five groundwater sampling locations for semi-annual PFOA monitoring. The five monitoring points were chosen as representative of the following site conditions. (Please consult the site map attached to the report dated August 1, 2004):

<u>Monitoring Point</u>	<u>Site Condition</u>
MW-7	Upgradient of site industrial activities
MW-4	Central to site industrial activities
PZ-14	Western/downgradient of site industrial activities
MW-101	Eastern/downgradient of site industrial activities
Water supply distribution system	Site-wide ground water from the production wells

Since submittal of the last annual LOI report, PFOA data from the five monitoring points listed above was obtained for sampling events conducted on March 12-16, 2005, November 9, 2005 and June 29, 2006. The results of these monitoring events and previous sampling events for these points are presented in the attached Table 1.

Sampling of the water supply distribution system was substituted for sampling of the individual high-capacity pumping wells because the water that supplies this system is a composite of water drawn from these wells and therefore is representative of groundwater throughout the developed portion of the site. It should be noted that a granular activated carbon (GAC) treatment system was installed at this sample location in late 2004. The results for samples collected on March 12 and June 22, 2005 represent post-treatment water. As expected, PFOA was not detected in these samples at a limit of quantitation of 0.025 ug/L. For subsequent sampling events, pre-treatment water was also collected in order to continue the trend analysis in the water supply distribution system. Results for the November 2005 and June 2006 events represent water collected prior to GAC treatment.

Effluent Monitoring

The site has a multi-phased wastewater treatment plant that is used to treat all process wastewaters generated at Cottage Grove. Two of the systems treat inorganic wastewaters and the third is an organic, biological treatment system. At this time, all of the process effluent wastewater is treated with activated carbon. All of the treated process wastewaters from these operations are combined at a single discharge point and then are further combined with non-contact cooling and storm water before being discharged to the Mississippi River.

Since January 2001, the 3M Cottage Grove plant has conducted PFOA analysis of its effluent. (It should be noted that previous reports incorrectly listed this initial sampling time period as January 2000.) Sampling has been performed monthly beginning in January 2003 in accordance with the requirements of 3M's NPDES permit. This information is reported to the Minnesota Pollution Control Agency in the monthly Discharge Monitoring Reports (DMR). Effluent wastewater samples are collected at the plant outfall to the Mississippi River. This is the common discharge point for all of the plant's process wastewaters. All samples are collected as 24-hour composites and duplicate analysis is conducted for each sample.

The monitoring results of the Cottage Grove process wastewater effluent discharged under Minnesota NPDES Permit No. MN000149, Outfall SD 001 are shown in the attached Table 2. The data includes results of all monitoring events in 2006 (for which final analytical data is available) and from previous years.

As shown in Table 2, PFOA levels have clearly dropped since submittal of the last LOI annual report. As mentioned above and in previous meetings and reports, 3M has installed an activated carbon treatment system to remove certain constituents from the wastewater treatment plant effluent. This system has been optimized and is in full operation. While the system was installed for reasons unrelated to PFOA, this technology has been shown to be effective in removing this substance as well.

DECATUR, AL SITE MONITORING DATA

Monitoring Results

Groundwater Monitoring

As stated in the previous submissions, 3M selected the following wells for groundwater sampling and PFOA analysis going forward (see site map attached to the August 1, 2004 report):

Monitoring Location	Site Condition
Wells 226R & L	Located east of inactive landfill and south of wastewater treatment – monitors background conditions in residuum and shallow limestone groundwater
Wells 220R and L	Located northeast of inactive landfill – monitors predominant flow path of plume in residuum and shallow limestone zones
Well 320L	Located north of inactive landfill – monitors secondary flow path of plume

Wells 327R	Located in the former incinerator area – monitors residuum groundwater near source area
Wells 310R & 317L	Located in the Chemical Plant – monitors dominant groundwater flow pathways in the Chemical Plant

Groundwater samples from the eight monitoring points were collected in November 2005 and June 2006. The PFOA results are presented in the attached Table 3.

As indicated by the data presented in Table 3, there is a wide range of PFOA levels measured in the groundwater beneath the site.

Effluent Monitoring

3M's Decatur, Alabama manufacturing facilities obtain process water from the City of Decatur Utilities and directly from the Tennessee River. In addition, many of the manufacturing operations utilize non-contact cooling water, which is obtained from the Tennessee River. All process wastewaters from the 3M and Dyneon manufacturing operations are treated in the site's wastewater treatment facility. The system contains both physical-chemical and biological treatment. Process wastewaters are mixed with non-contact cooling water prior to discharge to the Tennessee River. The discharge is permitted under Alabama NPDES Permit No. AL0000205. The process wastewater discharge and combined process wastewater/non-contact cooling water is designated as Outfall 001A and 001, respectively.

As explained in our May 7, 2003 letter, wastewater sampling at the Decatur site for PFOA analysis is being conducted on a quarterly basis. Samples are collected at Outfall 001, which consists of treated process wastewater and non-contact cooling water. The outfall discharges to Baker's Creek, which in turn empties into the Tennessee River. All samples are collected as 24-hour composites and duplicated analysis is conducted for each sample. The specific sampling and analytical protocols were described in 3M's May 7, 2003 letter to EPA.

The PFOA monitoring results for the Decatur wastewater effluent discharged under Alabama NPDES Permit No. AL000205, Outfall 001 are shown in the attached Table 4. The data summary includes the historical data and the results from 2003 – 2006 monitoring events. As indicated by these data, there has been some variation in the levels of PFOA in the discharge to the Tennessee River. Effluent concentrations have shown a significant decrease since 2002 when PFOA production and use was phased out.

Surface Water Sampling

Surface water sampling in the Tennessee River/Bakers Creek was performed at a total of 8 locations, including the 3 LOI locations sampled in 2002. The LOI surface water samples were co-located with sediment sample locations and fish and clam sampling locations.

Page 5 of 11
Document Control Office (DCO)
Office of Pollution Prevention and Toxics (OPPT)
U.S. Environmental Protection Agency

The three LOI surface water sampling locations were located upstream of the facility at river mile 307.5 (LOC-3), across the river from the facility at river mile 301 (LOC-2), and downstream of the facility at the mouth of Fox Creek (river mile approximately 296; LOC-1). Additional information on the sampling rationale, procedures, and locations is contained in the *Phase 2 Work Plan for Sampling Environmental Media* (WESTON, 2004).

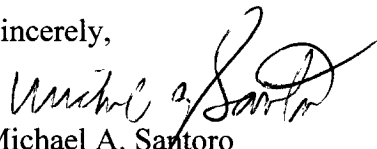
Analytical data from the 2002 and 2004 sampling periods are shown in the attached Table 5.

Sediment and Fish Sampling

Analyses of sediment, fish whole body, fish filet and whole body clam tissue samples for PFOA concentrations were finalized last year by the Exygen laboratory. Results of these analyses were provided in the July 25 – October 25, 2005 Phase 2 PFOA Quarterly Progress Report and are summarized in this submittal in the attached Table 6.

In summary, this letter reports results of wastewater, groundwater, surface water, sediment, fish and clam monitoring at the Decatur site and wastewater and groundwater sampling at the Cottage Grove site. This submittal fulfills the continuing commitments of 3M and Dyneon under the March 13, 2003 3M LOI and the March 14, 2003 APFO Users LOI. If there are any questions, please contact the writer at the address provided below.

Sincerely,



Michael A. Santoro
Director, Environmental, Health,
Safety and Regulatory Affairs
3M - Bldg. 236-1B-10
St. Paul, MN 55144
651 733-6374 (phone)
651 733-1958 (fax)
E-mail: masantoro@mmm.com

cc: Mary Dominiak – Room 4410

Attachments

Page 6 of 11
Document Control Office (DCO)
Office of Pollution Prevention and Toxics (OPPT)
U.S. Environmental Protection Agency

Table 1. 3M Cottage Grove Groundwater Monitoring Results					
Sample Location	Date Sampled	PFOA (ppb)	PFOA Lab Replicate (ppb)	PFOA Field Duplicate (ppb)	PFOA Avg (ppb)
MW-7	07/11/01	NA	NA	NA	NA
	09/07/01	NA	NA	NA	NA
	10/31/01	NA	NA	NA	NA
	11/12/01	NA	NA	NA	NA
	12/03/02	NA	NA	NA	NA
	06/05/03	0.309	0.307	0.326	0.314
	09/30/03	0.329	0.334	0.327	0.328
	05/19/04	0.367	NA	0.366	0.3665
	09/29/04	0.36	NA	0.37	0.37
	03/16/05	0.237	0.294	0.314	0.282
	06/22/05	0.235	0.225	0.267	0.242
	11/09/05	0.238	0.196	0.251	0.228
	06/29/06	0.213	0.189	0.237	0.213
MW-101	07/11/01	NA	NA	NA	NA
	09/07/01	NA	NA	NA	NA
	10/31/01	NA	NA	NA	NA
	11/12/01	NA	NA	NA	NA
	12/03/02	170	180	172	174
	06/05/03	135	149	125	136
	09/30/03	158	155	154	156
	05/19/04	236	NA	230	233
	09/29/04	163	NA	165	164
	03/12/05	157	147	145	150
	06/22/05	125	129	183	146
	11/09/05	120	120	121	120
	06/29/06	127	124	126	126
Water Supply Distribution System	07/11/01	1.23	1.14	NA	1.18
	09/07/01	NA	NA	NA	NA
	10/31/01	40.6	38.5	41.1	40.1
	11/12/01	11.4	10.8	17.1	13.1
	12/03/02	NA	NA	NA	NA
	06/05/03	28	28.1	27.7	27.9
	09/30/03	5.17	5.35	8.77	6.43
	05/19/04	23.6	NA	23.3	23.4
	09/29/04	12.9	NA	15.8	14.4
	03/12/05	ND	ND	ND	ND
	06/22/05	ND	ND	ND	ND
	11/09/05	10.5	8.34	10.5	9.78
	06/29/06	9.72	9.66	9.27	9.55
PZ-14	07/11/01	NA	NA	NA	NA
	09/07/01	6.40	6.77	6.06	6.41
	10/31/01	5.89	4.96	5.25	5.37
	11/12/01	4.66	4.63	4.60	4.63
	12/03/02	NA	NA	NA	NA
	06/05/03	4.80	4.67	4.96	4.81
	09/30/03	4.10	3.98	4.09	4.06
	05/19/04	4.68	NA	4.83	4.76
	09/29/04	4.40	NA	4.40	4.40
	03/15/05	2.71	2.02	2.40	2.38
	06/22/05	1.60	1.73	1.78	1.70
	11/09/05	1.67	0.96	1.69	1.44
	06/29/06	1.42	1.40	1.37	1.40
MW-4	07/11/01	NA	NA	NA	NA
	09/07/01	NA	NA	NA	NA
	10/31/01	5.67	5.93	7.39	6.33
	11/12/01	5.30	5.11	5.45	5.29
	12/03/02	NA	NA	NA	NA
	06/05/03	10.2	10.2	10.1	10.2
	09/30/03	8.74	9.10	9.12	8.99
	05/19/04	17.0	NA	16.4	16.7
	09/29/04	12.2	NA	13.3	12.8
	03/16/05	10.7	9.47	9.31	9.83
	06/22/05	10.4	9.56	9.65	9.87
	11/09/05	12.3	8.90	NR	10.6
	06/29/06	6.82	6.81	6.89	6.84

Table Notes: ppb: parts per billion (ug/L)
NA: data not available for sampling period
ND: not detected at or above 0.025 ug/L
NR: not reportable due to quality control issues

Table 2. 3M Cottage Grove Effluent Monitoring Results				
Sample Location	Date Sampled	PFOA (ppb)	PFOA Field Duplicate (ppb)	PFOA Avg (ppb)
SD 001	Jan-Mar 2001	Average of 8 data points		1991
	Sep-Oct 2001	Average of 3 data points		216
	12/12/02			180
	01/15/03	80.1	77.9	79.0
	02/12/03	80.0	78.8	79.4
	03/12/03	74.3	74.7	74.5
	04/23/03	112	109	110.5
	05/15/03	95.0	101	98.0
	06/11/03	18.9	16.4	17.7
	07/16/03	77.4	79.7	78.6
	08/07/03	79.7	85.2	82.5
	09/10/03	53.3	55.5	54.4
	10/08/03	73.9	102	88.0
	11/05/03	60.1	67.8	64.0
	12/10/03	64.7	66.5	65.6
	2003 Average			74.4
	01/14/04	1.60	1.74	1.67
	02/04/04	127	102	114.5
	03/03/04	73.3	75.9	74.6
	04/07/04	8.90	9.50	9.20
	05/05/04	36.8	34.3	35.6
	06/02/04	2.50	2.50	2.50
	07/14/04	81.1	73.4	77.3
	08/04/04	3.00	2.70	2.90
	09/01/04	8.00	7.90	8.00
	10/13/04	1.00	1.00	1.00
	11/11/04	32.8	32.5	32.7
	12/01/04	28.3	29.0	28.7
	2004 Average			32.4
	01/12/05	19.2	20.0	19.6
	02/03/05	22.2	23.8	23.0
	03/10/05	262	264	263
	04/07/05	26.1	24.7	25.4
	05/05/05	4.30	4.30	4.30
	06/09/05	41.9	48.0	45.0
	07/06/05	46.7	42.4	44.6
	08/18/05	32.0	28.4	30.2
	09/15/05	1.20	1.20	1.20
	10/06/05	1.90	1.90	1.90
	11/02/05	66.6	52.5	59.6
	12/07/05	0.90	0.90	0.90
	2005 Average			43.2
	01/04/06	0.83	0.94	0.88
	02/01/06	1.96	2.10	2.03
	03/01/06	0.94	0.96	0.95
	04/05/06	4.20	4.40	4.30
	05/03/06	0.33	0.34	0.33
	06/08/06	0.26	0.25	0.26
	07/05/06	0.34	0.34	0.34
	08/02/06	0.50	0.48	0.49
	2006 Average (YTD)			1.20

Table Notes: ppb: parts per billion (ug/L)

Page 8 of 11
Document Control Office (DCO)
Office of Pollution Prevention and Toxics (OPPT)
U.S. Environmental Protection Agency

Table 3. 3M Decatur Groundwater Monitoring Results					
Sample Location	Date Sampled	PFOA (ppb)	PFOA Lab Replicate (ppb)	PFOA Field Duplicate (ppb)	PFOA Avg (ppb)
220L	07/16/03	89.2	88.8	90.2	89.4
	12/xx/03	135	131	142	136
	06/xx/04	110	NA	121	116
	12/16/04	139	NA	129	134
	06/xx/05	51.2	55.3	52.3	52.9
	11/xx/05	69.7	65.8	67.3	67.6
	06/xx/06	90.1	89.0	122	100
220R	07/16/03	68.2	68.6	65.8	67.5
	12/xx/03	102	89.0	106	99.0
	06/xx/04	92.3	NA	97.9	95.1
	12/16/04	68.5	NA	65.3	66.9
	06/xx/05	40.6	44.1	42.0	42.2
	11/xx/05	51.8	50.2	47.7	49.9
	06/xx/06	64.4	67.8	61.2	64.5
226L	07/16/03	NQ	ND	ND	ND
	12/xx/03	ND	ND	ND	ND
	06/xx/04	ND	NA	ND	ND
	12/16/04	ND	NA	ND	ND
	06/xx/05	ND	ND	ND	ND
	11/xx/05	ND	ND	ND	ND
	06/xx/06	ND	ND	ND	ND
226R	07/16/03	10.6	11.0	10.6	10.7
	12/xx/03	11.7	10.6	13.2	11.8
	06/xx/04	9.54	NA	9.85	9.70
	12/16/04	9.84	NA	11.2	10.5
	06/xx/05	4.94	5.08	7.92	5.98
	11/xx/05	9.20	9.05	8.39	8.88
	06/xx/06	7.57	7.63	8.51	7.90
310R	03/28/01	1060	1110	1190	1120
	07/16/03	1570	1560	1590	1573
	12/xx/03	2010	2140	2670	2273
	06/xx/04	1580	NA	1940	1760
	12/16/04	1870	NA	1830	1850
	06/xx/05	1640	1430	1260	1443
	11/xx/05	1440	1280	1280	1333
317L	07/16/03	0.940	0.950	0.990	0.960
	12/xx/03	0.521	0.490	0.785	0.599
	06/xx/04	0.776	NA	0.792	0.784
	12/16/04	0.860	NA	0.874	0.867
	06/xx/05	0.410	0.763	0.545	0.573
	11/xx/05	0.383	0.384	0.387	0.385
	06/xx/06	0.514	0.369	0.433	0.439
320L	07/16/03	ND	ND	NQ	ND
	12/xx/03	NQ	NQ	NQ	NQ
	06/xx/04	0.483	NA	0.506	0.495
	12/16/04	0.0764	NA	0.0802	0.0783
	06/xx/05	0.134	0.158	0.167	0.153
	11/xx/05	ND	ND	ND	ND
	06/xx/06	0.0406	0.0397	0.0539	0.0447
327R	07/16/03	2280	2600	2280	2366
	12/xx/03	1780	1910	1910	1867
	06/xx/04	1360	NA	1370	1365
	12/16/04	1850	NA	1750	1800
	06/xx/05	1080	1030	803	971
	11/xx/05	1260	1090	1150	1167
	06/xx/06	907	968	791	889

Table Notes: ppb: parts per billion (ug/L)
NA: data not available for sampling period
ND: not detected at or above 0.025 ug/L
NQ: not quantifiable

Table 4. 3M Decatur Effluent Monitoring Results				
Sample Location	Date Sampled	PFOA (ppb)	PFOA Field Duplicate (ppb)	PFOA Avg (ppb)
Outfall 001	1998	NA	NA	602
	1999	NA	NA	766
	2000	NA	NA	1028
	2001	NA	NA	310
	01/xx/03	NA	NA	58
	05/28/03	89.0	87.5	88.3
	07/21/03	10.1	NA	NA
	11/03/03	27.1	NA	NA
	01/27/04	412	NA	NA
	06/16/04	2.5	NA	NA
	12/20/04	21.5	21.8	21.7
	02/15/05	12.3	12.0	12.2
	05/24/05	8.36	8.77	8.56
	08/23/05	8.08	8.14	8.11
	12/13/05	3.58	3.70	3.64
	02/14/06	2.12	2.12	2.12
	06/27/06	2.52	2.49	2.50

Table Notes: ppb: parts per billion (ug/L)
NA: data not available for sampling period

Table 5. 3M Decatur - Surface Water & Sediment Monitoring Results						
Sample Location	Date Sampled	Media	PFOA (ppb)	PFOA Lab Replicate (ppb)	PFOA Field Duplicate (ppb)	PFOA Avg (ppb)
LOC-3, River Mile 307.5	2002	Surface water				ND
	12/01/04	Surface water	ND	ND	ND	ND
		Sediment, Loc 1	ND	ND	NC	ND
		Sediment, Loc 2	ND	ND	NC	ND
		Sediment, Loc 3	ND	ND	NC	ND
LOC-2, River Mile 301	2002	Surface water				ND
	12/01/04	Surface water	ND	ND	ND	ND
		Sediment, Loc 1	ND	ND	NC	ND
		Sediment, Loc 2	ND	ND	NC	ND
		Sediment, Loc 3	1.11	ND	NC	<0.66
LOC-1, River Mile 296	2002	Surface water				0.20
	12/01/04	Surface water	0.18	0.19	0.20	0.19
		Sediment, Loc 1	NQ	NQ	NC	NQ
		Sediment, Loc 2	1.54	0.935	NC	1.24
		Sediment, Loc 3	1.93	1.80	NC	1.87

Table Notes: ppb: parts per billion (ug/L for water, ng/g (wet wgt) for sediment)
NC: not collected
ND: not detected at or above 0.025 ug/L for water, 0.2 ng/g for sediment
NQ: not quantifiable, result is between 0.2 and 0.4 ng/g (wet wgt)

Page 10 of 11
Document Control Office (DCO)
Office of Pollution Prevention and Toxics (OPPT)
U.S. Environmental Protection Agency

Table 6. 3M Decatur - Fish and Clams Monitoring Results						
Sample Location	Species	Sample Type	Sample ID	Date Sampled	PFOA (ppb)	PFOA Lab Replicate (ppb)
LOC-3, River Mile 307.5	Channel Catfish	Filet	DL3-F01-IPF001-0-041021	10/21/04	ND	ND
			DL3-F01-IPF002-0-041021	10/21/04	0.588	ND
			DL3-F01-IPF003-0-041021	10/21/04	NQ	ND
			DL3-F01-IPF004-0-041021	10/21/04	ND	ND
			DL3-F01-IPF005-0-041021	10/21/04	ND	ND
		Whole Body	DL3-F01-IPW001-0-041130	11/30/04	ND	ND
			DL3-F01-IPW002-0-041130	11/30/04	ND	ND
			DL3-F01-IPW003-0-041130	11/30/04	ND	ND
	Largemouth Bass	Filet	DL3-F01-IPW004-0-041130	11/30/04	ND	ND
			DL3-F01-IPW005-0-041201	12/01/04	ND	ND
			DL3-F01-MSF001-0-041105	11/05/04	ND	ND
			DL3-F01-MSF002-0-041105	11/05/04	ND	ND
			DL3-F01-MSF003-0-041105	11/05/04	ND	ND
			DL3-F01-MSF004-0-041105	11/05/04	ND	ND
			DL3-F01-MSF005-0-041105	11/05/04	ND	ND
		Whole Body	DL3-F01-MSW001-0-041105	11/05/04	ND	ND
			DL3-F01-MSW002-0-041105	11/05/04	ND	ND
			DL3-F01-MSW003-0-041105	11/05/04	ND	ND
	Asiatic Clam	Whole Body	DL3-F01-MSW004-0-041105	11/05/04	ND	ND
			DL3-F01-MSW005-0-041105	11/05/04	ND	ND
LOC-2, River Mile 301	Channel Catfish	Filet	DL2-F01-IPF001-0-041021	10/21/04	ND	ND
			DL2-F01-IPF002-0-041021	10/21/04	ND	ND
			DL2-F01-IPF003-0-041021	10/21/04	ND	ND
			DL2-F01-IPF004-0-041021	10/21/04	ND	ND
			DL2-F01-IPF005-0-041021	10/21/04	ND	ND
		Whole Body	DL2-F01-IPW001-0-041021	10/21/04	ND	ND
			DL2-F01-IPW002-0-041104	11/04/04	ND	ND
			DL2-F01-IPW003-0-041201	12/01/04	ND	ND
	Largemouth Bass	Filet	DL2-F01-IPW004-0-041215	12/15/04	ND	ND
			DL2-F01-IPW005-0-041215	12/15/04	ND	ND
			DL2-F01-MSF001-0-041021	10/21/04	ND	ND
			DL2-F01-MSF002-0-041021	10/21/04	ND	ND
			DL2-F01-MSF003-0-041021	10/21/04	ND	ND
			DL2-F01-MSF004-0-041021	10/21/04	ND	ND
			DL2-F01-MSF005-0-041216	12/16/04	NQ	NQ
		Whole Body	DL2-F01-MSW001-0-041021	10/21/04	ND	ND
			DL2-F01-MSW002-0-041021	10/21/04	ND	ND
			DL2-F01-MSW003-0-041021	10/21/04	ND	ND
	Asiatic Clam	Whole Body	DL2-F01-MSW004-0-041021	10/21/04	ND	ND
			DL2-F01-MSW005-0-041021	10/21/04	ND	ND
LOC-1, River Mile 296	Channel Catfish	Filet	DL1-F01-IPF001-0-041021	10/21/04	ND	ND
			DL1-F01-IPF002-0-041104	11/04/04	NQ	NQ
			DL1-F01-IPF003-0-041104	11/04/04	ND	NQ
			DL1-F01-IPF004-0-041104	11/04/04	ND	ND
			DL1-F01-IPF005-0-041104	11/04/04	ND	ND
		Whole Body	DL1-F01-IPW001-0-041104	11/04/04	NQ	NQ
			DL1-F01-IPW002-0-041104	11/04/04	0.784	0.784
			DL1-F01-IPW003-0-041104	11/04/04	NQ	NQ
	Largemouth Bass	Filet	DL1-F01-IPW004-0-041104	11/04/04	NQ	NQ
			DL1-F01-IPW005-0-041215	12/15/04	NQ	NQ
			DL1-F01-MSF001-0-041104	11/04/04	ND	ND
			DL1-F01-MSF002-0-041104	11/04/04	ND	ND
			DL1-F01-MSF003-0-041104	11/04/04	ND	ND
			DL1-F01-MSF004-0-041104	11/04/04	ND	ND
			DL1-F01-MSF005-0-041104	11/04/04	ND	ND
		Whole Body	DL1-F01-MSW001-0-041104	11/04/04	ND	ND
			DL1-F01-MSW002-0-041104	11/04/04	ND	ND
			DL1-F01-MSW003-0-041104	11/04/04	NQ	NQ
	Asiatic Clam	Whole Body	DL1-F01-MSW004-0-041104	11/04/04	NQ	NQ
			DL1-F01-MSW005-0-041104	11/04/04	NQ	NQ
	Asiatic Clam	Whole Body	DL1-IO1-CFW001-041216	12/16/04	NQ	0.508

Table Notes: ppb: parts per billion (ug/L)
ND: not detected at or above 0.2 ng/g
NQ: not quantifiable, measured concentration is between 0.2 and 0.5 ng/g