

**GROUND-WATER DATA COLLECTED AT SPECIAL-STUDY SITES
GROUND WATER PESTICIDES NETWORK PROJECT**

The following tables contain water-quality data from wells sampled in Pennsylvania during the third year of the Ground Water Pesticides Network project. The 5-year study is being conducted by the U.S. Geological Survey in cooperation with the Pennsylvania Department of Agriculture. Sites were selected to meet project objectives in the Annual Baseline, Baseline Trends, and Hot-Spot Trends networks. In fiscal year 2005, 28 Annual-Baseline sites were selected in the Devonian-Silurian carbonate hydrogeologic setting to fill a data gap in ground-water quality. Sites in this network are sampled one time as part of an occurrence survey. The Baseline Trend network was discontinued in 2005 due to the relatively low concentrations of pesticides (compared to previous samples collected at the sites) and the higher analytical reporting levels which led to a preponderance of censored data (less-than values). A research component was added to the project in 2005 which involved reconnaissance re-sampling for pesticide parent compounds, breakdown products (degradates), nitrate, bromide, and chloride in wells at and near the three concentration "hot spots" identified and sampled as part of the original project. Data from samples collected at and near "hot spot" Local Well BA 437 and at Local Well LN 1842 are included in this volume. The well locations are shown in Figure 10.

The following analytical methods were used for the October and December 2004 samples analyzed at the PA Department of Environmental Protection Laboratory (PADEP) (Analyzing Agency Code 9813), pesticides -SAC USGS2 (EPA 525.2) solid phase extraction gas chromatography/mass spectrometry, nitrate/nitrite - colorimetry (cadmium reduction), total coliform and *E. coli* bacteria - Colilert Quantitray. The pesticides for the May - September 2005 samples were analyzed at the USGS National Water Quality Laboratory (NWQL) (Analyzing Agency Code 80020) using solid-phase extraction and capillary-column gas chromatography/mass spectrometry with selected-ion monitoring, and the nitrate/nitrite and total coliform and *E. coli* continued to be analyzed at the PADEP Laboratory. Pesticides analyzed for this study are identified in the table which follows study area maps. Pesticide samples collected at Local Well BA 437 on September 7, 2005 at 0930 and other Blair County wells were analyzed at the USGS Organic Geochemistry Research Laboratory in Lawrence, Kansas (Analyzing Agency Code 82013) using liquid chromatography and mass spectrometry; nitrate was analyzed by colorimetry, automated-segmented flow (ASF), cadmium reduction-diazotization; bromide by colorimetry, automated-segmented flow, fluorescein; and chloride by ion chromatography were done at the USGS NWQL. Other data for the project can be found in the annual Water Data Report PA-05-1. For additional information, contact Kevin Breen (717-730-6970; email - kjbreen@usgs.gov) or Connie Loper (717-730-6976; email - caloper@usgs.gov) at the USGS Pennsylvania Water Science Center, 215 Limekiln Road, New Cumberland, PA 17070.

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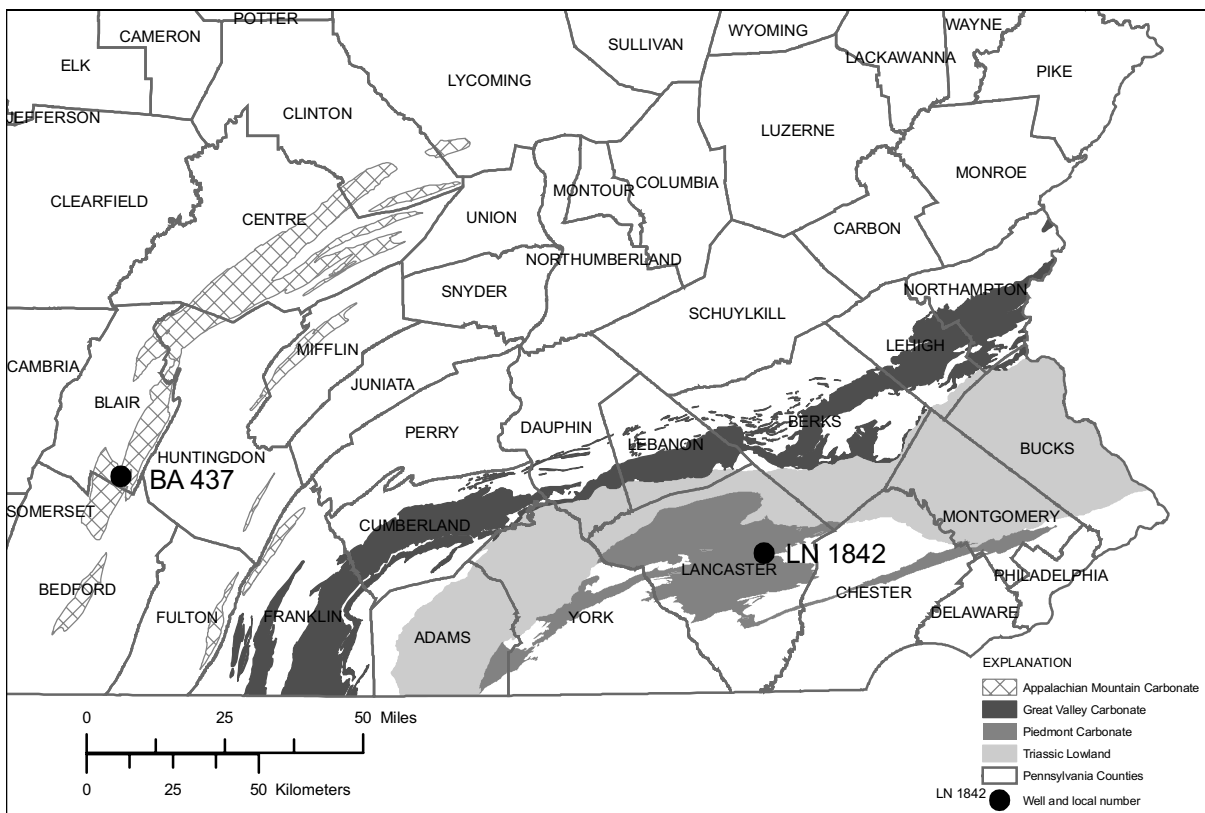


Figure 11.--Locations of the Hot-Spot Trend Network wells, in the Susquehanna River Basin, sampled as part of the Ground Water Pesticides Network project.

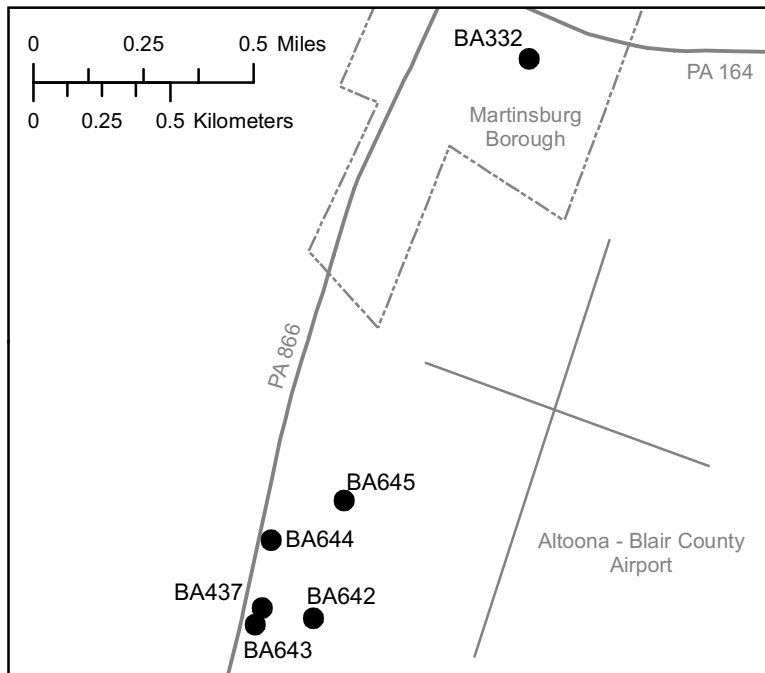
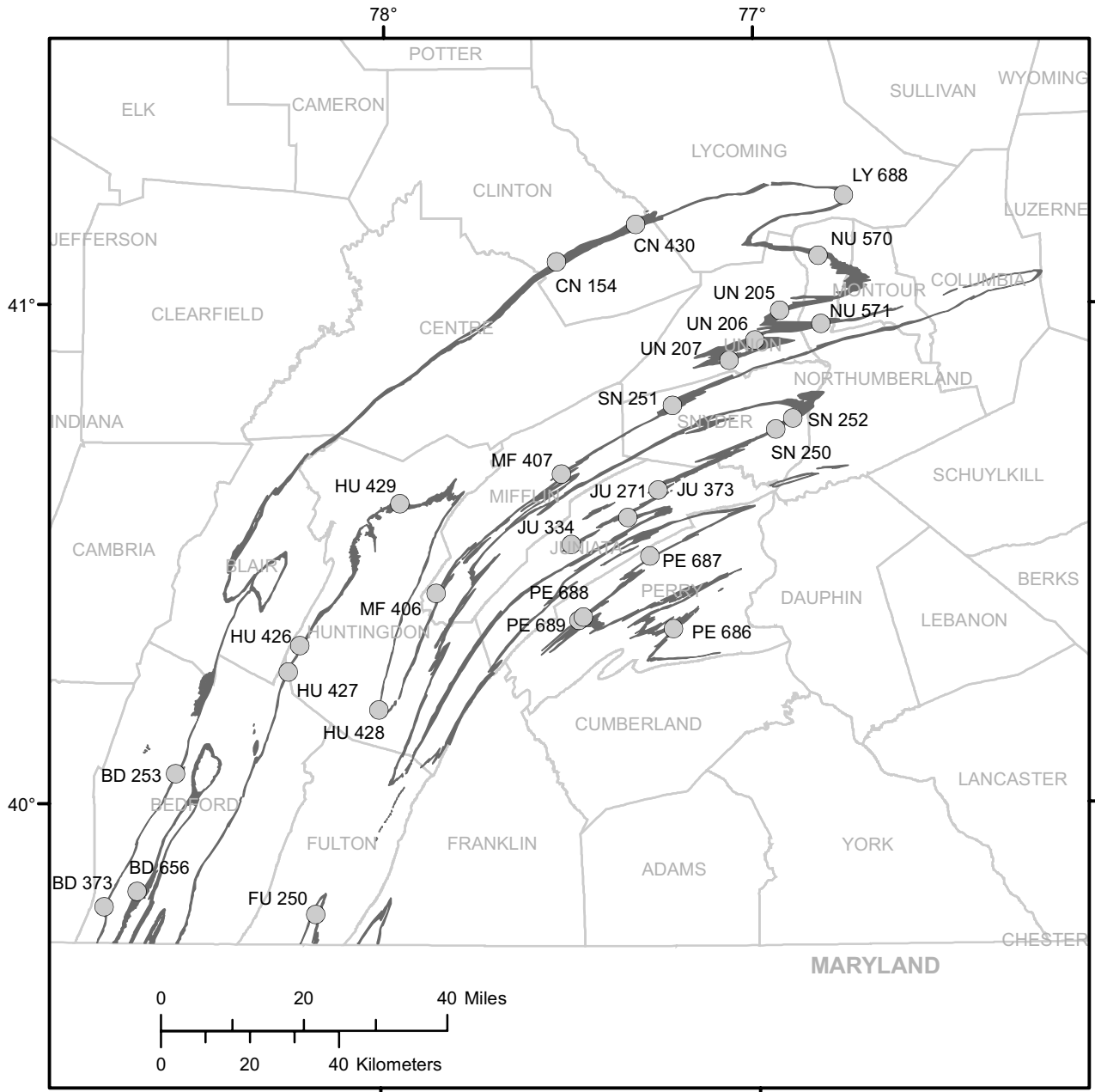


Figure 12.--Locations of ground-water wells sampled in August and September 2005 as part of the Ground Water Pesticides Network project, North Woodbury Township, Blair County.

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EXPLANATION

- Devonian-Silurian Carbonate
- Pennsylvania County Boundary
- Sampled Well Locations



Figure 13.--Locations of the Annual Baseline Network wells sampled as part of the Ground Water Pesticides Network project in the Devonian-Silurian carbonate hydrogeologic setting.

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REMARKS.--Explanation of column headings--Station number: 15-digit unique identifier based on site latitude (first six digits), longitude (digits seven through thirteen), and a 2-digit sequence number suffix; Altitude of land surface: land-surface at well site in feet above sea level; Sampling method code 4040 = submersible pump; Sampling condition code 8 = pumping; $\mu\text{S}/\text{cm}$: microsiemens per centimeter at 25 degrees Celsius; deg C: degrees Celsius; $\mu\text{g}/\text{L}$: micrograms per liter (parts per billion); mg/L = milligrams per liter (parts per million); "<" = less than; ">" = more than; "E" = estimated; MPN = Most Probable Number; GF = Glass fiber filter; Type of sample related QA data code (99111) "1" = no associated quality-assurance samples, "10" = blank, "30" = replicate, "100" = more than one type QA sample: Network Identifier Annual Baseline = "AB", Annual Baseline Quality Assurance = "AB-QA", Hot-Spot Trends = "HST", Hot-Spot Trends Quality Assurance = "HST-QA". Quality-control data for replicates are shown for Local Well ID BA 437 (bacteria) on September 7, 2005 at 0945, 0950, and 0955; Local Well ID FU 250 (bacteria) on August 2, 2005 at 0821 and 0822; Local Well ID MF 407 (bacteria) on August 15, 2005 at 1051, 1052, and 1053; Local Well ID NU 570 (nitrate/nitrite) on June 21, 2005 at 0946 and 0947; Local Well ID PE 686 (nitrate/nitrite) on June 8, 2005 at 0841 and 0842; and Local Well ID (bacteria) on June 21, 2005 at 1131 and 1132.

WATER-QUALITY DATA, WATER YEARS OCTOBER 2004 TO SEPTEMBER 2005

Station number	Local Well ID	Network Identifier	Date	Time	Agency collecting sample, code (00027)	Agency analyzing sample, code (00028)	Depth of well, feet below LSD (72008)	Depth to water level, feet below LSD (72019)	Altitude of land surface feet (72000)	Pump or flow prior to sampling, minutes (72004)	Sampling method, code (82398)	Turbidity white light, det ang 90+/-30 degrees NTU (63675)
BEDFORD COUNTY												
394744078435401	BD 373	AB	08-31-05	1500	1028	80020	224	--	1125	35	4040	--
394938078383901	BD 656	AB	08-01-05	1020	1028	80020	125	-.80	1160	55	4040	--
400351078324401	BD 253	AB	08-01-05	1325	1028	80020	223	--	1291	50	4040	--
BLAIR COUNTY												
401724078195801	BA 437	HST	10-05-04	0910	1028	9813	105	14.78	1435	40	4040	--
401724078195801	BA 437	HST	12-16-04	0950	1028	9813	105	15.10	1435	60	4040	--
401724078195801	BA 437	HST	05-25-05	1005	1028	80020	105	24.98	1435	55	4040	.2
401724078195801	BA 437	HST	06-28-05	1135	1028	80020	105	28.00	1435	45	4040	.4
401724078195801	BA 437	HST	09-07-05	0940	1028	80020	105	36.15	1435	90	4040	--
401724078195801	BA 437	HST-QA	09-07-05	0955	1028	9813	105	36.15	1435	90	4040	--
401724078195801	BA 437	HST-QA	09-07-05	0950	1028	9813	105	36.15	1435	90	4040	--
401724078195801	BA 437	HST-QA	09-07-05	0945	1028	83914	105	36.15	1435	90	4040	--
CLINTON COUNTY												
410529077315501	CN 154	AB	08-10-05	1105	1028	80020	200	55.90	620	45	4040	--
410955077190201	CN 430	AB	08-09-05	1045	1028	80020	125	20.80	560	50	4040	--
FULTON COUNTY												
394703078102102	FU 250	AB	08-02-05	0820	1028	80020	--	39.00	600	45	4040	--
394703078102102	FU 250	AB-QA	08-02-05	0821	1028	9813	--	39.00	600	45	4040	--
394703078102102	FU 250	AB-QA	08-02-05	0822	1028	9813	--	39.00	600	45	4040	--
HUNTINGDON COUNTY												
401139078002001	HU 428	AB	08-02-05	1040	1028	80020	140	15.22	760	45	4040	--
401607078145501	HU 427	AB	06-28-05	1330	1028	80020	80	25.47	980	45	4040	3.2
401920078130101	HU 426	AB	06-28-05	0950	1028	80020	247	15.52	920	40	4040	.5
403623077570901	HU 429	AB	08-29-05	1253	1028	80020	160	43.90	900	45	4040	--
JUNIATA COUNTY												
403130077293601	JU 334	AB	06-01-05	0910	1028	80020	150	22.48	610	60	4040	.6
403443077202901	JU 271	AB	08-30-05	1000	1028	80020	160	43.45	540	50	4040	--
403801077153701	JU 373	AB	08-08-05	1035	1028	80020	150	33.80	700	50	4040	--
LANCASTER COUNTY												
400456076065701	LN 1842	HST	10-06-04	1305	1028	9813	65	31.32	440	45	4040	--
400456076065701	LN 1842	HST	12-15-04	1320	1028	9813	65	32.95	440	45	4040	--
400456076065701	LN 1842	HST	05-24-05	1215	1028	80020	65	32.20	440	40	4040	--
400456076065701	LN 1842	HST	06-29-05	0915	1028	80020	65	34.65	440	40	4040	--
400456076065701	LN 1842	HST	08-11-05	0910	1028	80020	65	36.45	440	40	4040	--
LYCOMING COUNTY												
411319076452401	LY 688	AB	08-09-05	1355	1028	80020	124	28.82	530	55	4040	--

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WATER-QUALITY DATA, WATER YEARS OCTOBER 2004 TO SEPTEMBER 2005

Date	Turbidity white light, det ang 90+/-30 corrctd NTRU (63676)	Baro- metric pres- sure, mm Hg (00025)	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of sat- uration (00301)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf µS/cm 25 degC (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)	Nitrate water, fltrd, mg/L as N (00618)	Nitrite + nitrate water, fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)
BEDFORD COUNTY											
08-31-05	3.0	--	3.1	--	7.5	401	--	12.2	--	1.21	<.010
08-01-05	1.0	739	9.1	91	7.3	339	35.0	13.9	--	1.47	<.010
08-01-05	610	733	6.2	62	7.0	704	27.0	13.7	--	6.12	<.010
BLAIR COUNTY											
10-05-04	--	735	1.0	10	6.8	2720	14.1	12.3	55.0	55.0	.010
12-16-04	--	738	2.1	21	7.1	1970	15.6	11.9	--	48.2	<.010
05-25-05	--	720	.4	4	6.8	1500	15.5	12.0	--	45.6	<.010
06-28-05	--	728	.7	7	6.9	1650	25.0	12.1	56.6	56.6	.010
09-07-05	3.0	734	.5	5	6.9	1910	19.5	12.9	--	E65.0	<.010
09-07-05	--	--	--	--	--	--	--	--	--	--	--
09-07-05	--	--	--	--	--	--	--	--	--	--	--
09-07-05	--	--	--	--	--	--	--	--	--	--	--
CLINTON COUNTY											
08-10-05	1.6	--	3.7	34	7.7	372	33.0	11.9	2.86	2.90	.040
08-09-05	1.2	--	4.0	37	8.5	242	35.0	12.4	--	.660	<.010
FULTON COUNTY											
08-02-05	1.9	--	1.3	--	7.1	654	27.0	12.7	--	2.51	<.010
08-02-05	--	--	--	--	--	--	--	--	--	--	--
08-02-05	--	--	--	--	--	--	--	--	--	--	--
HUNTINGDON COUNTY											
08-02-05	1.8	746	.2	2	6.9	2370	27.0	13.0	--	.050	<.010
06-28-05	--	741	1.1	10	6.8	359	29.5	13.3	--	<.040	<.010
06-28-05	--	741	.3	3	7.5	496	20.5	11.9	--	1.01	<.010
08-29-05	3.5	740	6.6	62	7.3	521	23.9	11.3	--	4.58	<.010
JUNIATA COUNTY											
06-01-05	--	748	2.5	24	7.4	449	15.5	12.6	--	2.27	<.010
08-30-05	72	752	.1	.0	7.1	1000	33.5	13.2	--	.670	<.010
08-08-05	4.0	--	6.0	56	7.3	512	23.1	12.3	4.29	4.31	.020
LANCASTER COUNTY											
10-06-04	--	766	6.3	60	7.2	943	23.4	13.6	--	34.0	<.010
12-15-04	--	767	5.8	54	7.2	958	4.1	12.2	--	33.1	<.010
05-24-05	--	742	--	--	7.2	1010	50.0	13.5	--	36.6	<.010
06-29-05	--	752	6.2	62	7.1	972	37.0	14.2	30.5	30.9	.400
08-11-05	1.3	--	8.2	--	7.1	961	30.0	14.6	--	27.3	<.010
LYCOMING COUNTY											
08-09-05	4.1	--	9.4	--	7.2	427	35.0	11.8	--	6.27	<.010

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Date	E coli, Defined Substr. Tech., water, MPN/ 100 mL (50468)	Total coli- form, Defined Tech., MPN/ 100 mL (50569)	2,6-Di- ethyl- aniline water fltrd 0.7µ GF µg/L (82660)	CIAT, water, fltrd, µg/L (04040)	Aceto- chlor, water, fltrd, µg/L (49260)	Ala- chlor, water, fltrd, µg/L (46342)	alpha- HCH, water, fltrd, µg/L (34253)	alpha- HCH-d6, surrog, wat flt 0.7µ GF percent recovery (91065)	Atra- zine, water, fltrd, µg/L (39632)	Azin- phos- methyl, water, fltrd 0.7µ GF µg/L (82686)	Ben- flur- alin, water, fltrd 0.7µ GF µg/L (82673)	Butyl- ate, water, fltrd, µg/L (04028)	Car- baryl, water, fltrd 0.7µ GF µg/L (82680)
BEDFORD COUNTY													
08-31-05	2	74	<.006	<.006	<.006	<.005	<.005	85.8	<.007	<.050	<.010	<.004	<.041
08-01-05	<1	<1	<.006	<.006	<.006	<.005	<.005	85.2	<.007	<.050	<.010	<.004	<.041
08-01-05	3	450	<.006	E.035	<.006	<.005	<.005	88.0	.036	<.050	<.010	<.004	<.041
BLAIR COUNTY													
10-05-04	27	>200	--	--	--	--	--	--	--	--	--	--	--
12-16-04	1	34	--	--	<.100	.20	--	--	.59	--	--	--	--
05-25-05	<1	<1	E.002	E.133	<.006	.200	<.005	83.1	.578	<.050	<.010	E.004	<.041
06-28-05	<1	2	E.002	E.146	<.006	.280	<.005	102	.734	<.050	<.010	.006	<.041
09-07-05	2	200	<.006	E.121	<.006	.397	<.005	82.7	.917	<.050	<.010	.009	<.041
09-07-05	<1	200	--	--	--	--	--	--	--	--	--	--	--
09-07-05	3	130	--	--	--	--	--	--	--	--	--	--	--
09-07-05	<1	200	--	--	--	--	--	--	--	--	--	--	--
CLINTON COUNTY													
08-10-05	<1	200	<.006	E.021	<.006	<.005	<.005	80.6	.017	<.050	<.010	<.004	<.041
08-09-05	<1	<1	<.006	<.006	<.006	<.005	<.005	93.9	<.007	<.050	<.010	<.004	<.041
FULTON COUNTY													
08-02-05	<1	6	<.006	E.014	<.006	<.005	<.005	87.0	.008	<.050	<.010	<.004	<.041
08-02-05	<1	1	--	--	--	--	--	--	--	--	--	--	--
08-02-05	<1	3	--	--	--	--	--	--	--	--	--	--	--
HUNTINGDON COUNTY													
08-02-05	14	200	<.006	<.006	<.006	<.005	<.005	87.3	<.007	<.050	<.010	<.004	<.041
06-28-05	<1	>200	<.006	<.006	<.006	<.005	<.005	104	<.007	<.050	<.010	<.004	<.041
06-28-05	<1	<1	<.006	<.006	<.006	<.005	<.005	108	<.007	<.050	<.010	<.004	<.041
08-29-05	<1	59	<.006	E.062	<.006	<.005	<.005	80.2	.052	<.050	<.010	<.004	<.041
JUNIATA COUNTY													
06-01-05	<1	5	<.006	<.006	<.006	<.005	<.005	106	<.007	<.050	<.010	<.004	<.041
08-30-05	<1	<1	<.006	<.006	.029	<.005	<.005	80.8	<.007	<.050	<.010	<.004	<.041
08-08-05	<1	95	<.006	E.013	<.006	<.005	<.005	90.8	E.004	<.050	<.010	<.004	<.041
LANCASTER COUNTY													
10-06-04	<1	<1	--	--	--	--	--	--	--	--	--	--	--
12-15-04	<1	<1	--	--	.400	1.50	--	--	.15	--	--	--	--
05-24-05	<1	1	E.003	E.184	.515	1.43	<.005	94.9	.244	<.050	<.010	.026	<.041
06-29-05	<1	2	<.006	E.242	.393	1.16	<.005	103	.219	<.050	<.010	.018	<.041
08-11-05	<1	<1	<.030	E.173	.364	1.13	<.025	85.1	.187	<.250	<.050	<.016	<.205
LYCOMING COUNTY													
08-09-05	<1	1	<.006	E.061	<.006	<.005	<.005	83.8	.048	<.050	<.010	<.004	<.041

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Date	Carbo- furan, water, fltrd 0.7µ GF µg/L (82674)	Chloro- thalo- nil, water, fltrd 0.7µ GF µg/L (49306)	Chlor- pyrifos water, fltrd, µg/L (38933)	cis- Per- methrin water fltrd 0.7µ GF µg/L (82687)	Cyana- zine, water, fltrd, µg/L (04041)	DCPA, water fltrd 0.7µ GF µg/L (82682)	Desulf- inyl fipro- nil, water, fltrd, µg/L (62170)	Diazi- non, water, fltrd, µg/L (39572)	Diazi- non-d10 surrog. wat flt 0.7µ GF percent recovry (91063)	Dichlo- benil, water, fltrd, µg/L (63009)	Diel- drin, water, fltrd, µg/L (39381)	Disul- foton, water, fltrd 0.7µ GF µg/L (82677)	EPTC, water, fltrd 0.7µ GF µg/L (82668)
BEDFORD COUNTY													
08-31-05	<.020	--	<.005	<.006	<.018	<.003	<.012	<.005	101	--	<.009	<.02	<.004
08-01-05	<.020	--	<.005	<.006	<.018	<.003	<.012	<.005	95.7	--	<.009	<.02	<.004
08-01-05	<.020	--	<.005	<.006	<.018	<.003	<.012	<.005	92.9	--	<.009	<.02	<.004
BLAIR COUNTY													
10-05-04	--	--	--	--	--	--	--	--	--	--	--	--	--
12-16-04	--	<.10	<.10	--	--	--	--	--	--	<.10	--	--	--
05-25-05	E.015	--	<.005	<.006	<.140	<.003	<.012	<.005	105	--	.026	<.02	.009
06-28-05	E.014	--	<.005	<.006	<.220	<.003	<.012	<.005	124	--	.029	<.02	.014
09-07-05	<.020	--	<.005	<.006	E.084	<.003	<.012	<.005	99.0	--	.025	<.02	.016
09-07-05	--	--	--	--	--	--	--	--	--	--	--	--	--
09-07-05	--	--	--	--	--	--	--	--	--	--	--	--	--
09-07-05	--	--	--	--	--	--	--	--	--	--	--	--	--
CLINTON COUNTY													
08-10-05	<.020	--	<.005	<.006	<.018	<.003	<.012	<.005	89.6	--	<.009	<.02	<.004
08-09-05	<.020	--	<.005	<.006	<.018	<.003	<.012	<.005	97.1	--	<.009	<.02	<.004
FULTON COUNTY													
08-02-05	<.020	--	<.005	<.006	<.018	<.003	<.012	<.005	91.4	--	<.009	<.02	<.004
08-02-05	--	--	--	--	--	--	--	--	--	--	--	--	--
08-02-05	--	--	--	--	--	--	--	--	--	--	--	--	--
HUNTINGDON COUNTY													
08-02-05	<.020	--	<.038	<.006	<.018	<.003	<.012	<.005	104	--	<.009	<.02	<.004
06-28-05	<.020	--	<.005	<.006	<.018	<.003	<.012	<.005	112	--	<.009	<.02	<.004
06-28-05	<.020	--	<.005	<.006	<.030	<.003	<.012	<.005	112	--	<.009	<.02	<.004
08-29-05	<.020	--	<.005	<.006	<.018	<.003	<.012	<.005	96.6	--	<.009	<.02	<.004
JUNIATA COUNTY													
06-01-05	<.020	--	<.005	<.006	<.018	<.003	<.012	<.005	114	--	<.009	<.02	<.004
08-30-05	<.020	--	<.005	<.006	<.018	<.003	<.012	<.005	101	--	<.009	<.02	<.004
08-08-05	<.020	--	<.005	<.006	<.018	<.003	<.012	<.005	97.4	--	<.009	<.02	<.004
LANCASTER COUNTY													
10-06-04	--	--	--	--	--	--	--	--	--	--	--	--	--
12-15-04	--	<.10	<.10	--	--	--	--	--	--	<.10	--	--	--
05-24-05	<.020	--	<.005	<.006	.413	<.003	<.012	<.005	84.2	--	<.009	<.02	.148
06-29-05	<.020	--	<.005	<.006	<.680	<.003	<.012	<.005	118	--	<.009	<.02	.139
08-11-05	<.100	--	<.156	<.030	<.337	<.015	<.060	<.025	94.0	--	<.045	<.10	.108
LYCOMING COUNTY													
08-09-05	<.020	--	<.005	<.006	<.018	<.003	<.012	<.005	97.8	--	<.009	<.02	<.004

**GROUND-WATER DATA COLLECTED AT SPECIAL-STUDY SITES
GROUND WATER PESTICIDES NETWORK PROJECT**

WATER-QUALITY DATA, WATER YEARS OCTOBER 2004 TO SEPTEMBER 2005

Date	Ethal- flur- alin, water, fltrd 0.7µ GF µg/L (82663)	Etho- prop, water, fltrd 0.7µ GF µg/L (82672)	Fen- propa- thrin, water, fltrd, µg/L (64044)	Desulf- inyl- fipro- nil amide, wat flt µg/L (62169)	Fipro- nil sulfide water, fltrd, µg/L (62167)	Fipro- nil sulfone water, fltrd, µg/L (62168)	Fipro- nil, water, fltrd, µg/L (62166)	Fonofos water, fltrd, µg/L (04095)	Hexa- chloro- cyclo- penta- diene, wat unf µg/L (34386)	Lindane water, fltrd, µg/L (39341)	Linuron water fltrd 0.7µ GF µg/L (82666)	Mala- thion, water, fltrd, µg/L (39532)	Methyl para- thion, water, fltrd 0.7µ GF µg/L (82667)
BEDFORD COUNTY													
08-31-05	<.009	<.005	--	<.029	<.013	<.024	<.016	<.003	--	<.004	<.035	<.027	<.015
08-01-05	<.009	<.005	--	<.029	<.013	<.024	<.016	<.003	--	<.004	<.035	<.027	<.015
08-01-05	<.009	<.005	--	<.029	<.013	<.024	<.016	<.003	--	<.004	<.035	<.027	<.015
BLAIR COUNTY													
10-05-04	--	--	--	--	--	--	--	--	--	--	--	--	--
12-16-04	--	--	<.10	--	--	--	--	--	<.1	--	--	--	--
05-25-05	<.009	<.005	--	<.029	<.013	<.024	<.016	<.003	--	<.004	<.035	<.027	<.015
06-28-05	<.009	<.005	--	<.029	<.013	<.024	<.016	<.003	--	<.004	<.035	<.027	<.015
09-07-05	<.009	<.005	--	<.029	<.013	<.024	<.016	<.003	--	<.004	<.035	<.027	<.015
09-07-05	--	--	--	--	--	--	--	--	--	--	--	--	--
09-07-05	--	--	--	--	--	--	--	--	--	--	--	--	--
09-07-05	--	--	--	--	--	--	--	--	--	--	--	--	--
CLINTON COUNTY													
08-10-05	<.009	<.005	--	<.029	<.013	<.024	<.016	<.003	--	<.004	<.035	<.027	<.015
08-09-05	<.009	<.005	--	<.029	<.013	<.024	<.016	<.003	--	<.004	<.035	<.027	<.015
FULTON COUNTY													
08-02-05	<.009	<.005	--	<.029	<.013	<.024	<.016	<.003	--	<.004	<.035	<.027	<.015
08-02-05	--	--	--	--	--	--	--	--	--	--	--	--	--
08-02-05	--	--	--	--	--	--	--	--	--	--	--	--	--
HUNTINGDON COUNTY													
08-02-05	<.009	<.005	--	<.029	<.013	<.024	<.016	<.003	--	<.004	<.035	<.027	<.015
06-28-05	<.009	<.005	--	<.029	<.013	<.024	<.016	<.003	--	<.004	<.035	<.027	<.015
06-28-05	<.009	<.005	--	<.029	<.013	<.024	<.016	<.003	--	<.004	<.035	<.027	<.015
08-29-05	<.009	<.005	--	<.029	<.013	<.024	<.016	<.003	--	<.004	<.035	<.027	<.015
JUNIATA COUNTY													
06-01-05	<.009	<.005	--	<.029	<.013	<.024	<.016	<.003	--	<.004	<.035	<.027	<.015
08-30-05	<.009	<.005	--	<.029	<.013	<.024	<.016	<.003	--	<.004	<.035	<.027	<.015
08-08-05	<.009	<.005	--	<.029	<.013	<.024	<.016	<.003	--	<.004	<.035	<.027	<.015
LANCASTER COUNTY													
10-06-04	--	--	--	--	--	--	--	--	--	--	--	--	--
12-15-04	--	--	<.10	--	--	--	--	--	<.1	--	--	--	--
05-24-05	<.009	<.005	--	<.029	<.013	<.024	<.016	<.003	--	<.004	.082	<.027	<.015
06-29-05	<.009	<.005	--	<.029	<.013	<.024	<.016	<.003	--	<.004	.108	<.027	<.015
08-11-05	<.045	<.025	--	<.145	<.065	<.120	<.080	<.015	--	<.020	E.117	<.135	<.075
LYCOMING COUNTY													
08-09-05	<.009	<.005	--	<.029	<.013	<.024	<.016	<.003	--	<.004	<.035	<.027	<.015

**GROUND-WATER DATA COLLECTED AT SPECIAL-STUDY SITES
GROUND WATER PESTICIDES NETWORK PROJECT**

WATER-QUALITY DATA, WATER YEARS OCTOBER 2004 TO SEPTEMBER 2005

Date	Metola- chlor, water, fltrd, µg/L (39415)	Metri- buzin, water, fltrd, µg/L (82630)	Moli- nate, water, fltrd 0.7µ GF µg/L (82671)	Naprop- amide, water, fltrd 0.7µ GF µg/L (82684)	p,p'- DDE, water, fltrd, µg/L (34653)	Para- thion, water, fltrd, µg/L (39542)	Peb- ulate, water, fltrd 0.7µ GF µg/L (82669)	Pendi- meth- alin, water, fltrd µg/L (82683)	Phorate water fltrd µg/L (82664)	Phosmet water, fltrd, µg/L (61601)	Prome- ton, water, fltrd, µg/L (04037)	Propy- zamide, water, fltrd 0.7µ GF µg/L (82676)	Propa- chlor, water, fltrd, µg/L (04024)
BEDFORD COUNTY													
08-31-05	<.006	<.006	<.003	<.007	<.003	<.010	<.004	<.022	<.011	--	<.01	<.004	<.025
08-01-05	<.006	<.006	<.003	<.007	<.003	<.010	<.004	<.022	<.011	--	<.01	<.004	<.025
08-01-05	<.006	<.006	<.003	<.007	<.003	<.010	<.004	<.022	<.011	--	<.01	<.004	<.025
BLAIR COUNTY													
10-05-04	--	--	--	--	--	--	--	--	--	--	--	--	--
12-16-04	E23.6	<.10	--	--	--	--	--	<.100	--	<.100	--	--	--
05-25-05	E22.0	<.006	<.003	<.007	<.003	<.010	<.004	<.022	<.011	--	.16	<.004	<.025
06-28-05	17.9	<.006	<.003	<.007	<.003	<.010	<.004	<.022	<.011	--	.23	<.004	<.025
09-07-05	E22.5	<.006	<.003	<.007	<.003	<.010	<.004	<.022	<.011	--	.27	<.004	<.025
09-07-05	--	--	--	--	--	--	--	--	--	--	--	--	--
09-07-05	--	--	--	--	--	--	--	--	--	--	--	--	--
09-07-05	--	--	--	--	--	--	--	--	--	--	--	--	--
CLINTON COUNTY													
08-10-05	<.006	<.006	<.003	<.007	<.003	<.010	<.004	<.022	<.011	--	<.01	<.004	<.025
08-09-05	<.006	<.006	<.003	<.007	<.003	<.010	<.004	<.022	<.011	--	<.01	<.004	<.025
FULTON COUNTY													
08-02-05	<.006	<.006	<.003	<.007	<.003	<.010	<.004	<.022	<.011	--	<.01	<.004	<.025
08-02-05	--	--	--	--	--	--	--	--	--	--	--	--	--
08-02-05	--	--	--	--	--	--	--	--	--	--	--	--	--
HUNTINGDON COUNTY													
08-02-05	<.006	<.006	<.003	<.007	<.003	<.010	<.004	<.022	<.011	--	<.01	<.004	<.025
06-28-05	<.006	<.006	<.003	<.007	<.003	<.010	<.004	<.022	<.011	--	<.01	<.004	<.025
06-28-05	<.006	<.006	<.003	<.007	<.003	<.010	<.004	<.022	<.011	--	<.01	<.004	<.025
08-29-05	<.006	<.006	<.003	<.007	<.003	<.010	<.004	<.022	<.011	--	<.01	<.004	<.025
JUNIATA COUNTY													
06-01-05	<.006	<.006	<.003	<.007	<.003	<.010	<.004	<.022	<.011	--	<.01	<.004	<.025
08-30-05	<.006	<.006	<.003	<.007	<.003	<.010	<.004	<.022	<.011	--	<.01	<.004	<.025
08-08-05	<.006	<.006	<.003	<.007	<.003	<.010	<.004	<.022	<.011	--	<.01	<.004	<.025
LANCASTER COUNTY													
10-06-04	--	--	--	--	--	--	--	--	--	--	--	--	--
12-15-04	E56.7	<.10	--	--	--	--	--	.390	--	<.100	--	--	--
05-24-05	E131	<.006	<.003	.038	<.003	<.010	<.005	<.094	<.011	--	.03	<.004	<.144
06-29-05	E117	<.010	<.003	.040	<.003	<.010	<.005	<.022	<.011	--	.03	<.004	<.025
08-11-05	E112	<.030	<.015	E.029	<.015	<.050	<.020	<.110	<.055	--	E.02	<.020	<.091
LYCOMING COUNTY													
08-09-05	<.006	<.006	<.003	<.007	<.003	<.010	<.004	<.022	<.011	--	<.01	<.004	<.025

**GROUND-WATER DATA COLLECTED AT SPECIAL-STUDY SITES
GROUND WATER PESTICIDES NETWORK PROJECT**

WATER-QUALITY DATA, WATER YEARS OCTOBER 2004 TO SEPTEMBER 2005

Date	Pro-panil, water, fltrd 0.7µ GF µg/L (82679)	Propar-gite, water, fltrd 0.7µ GF µg/L (82685)	Sima-zine, water, fltrd µg/L (04035)	Tebu-thiuron water fltrd 0.7µ GF µg/L (82670)	Terba-cil, water, fltrd 0.7µ GF µg/L (82665)	Terbu-fos, water, fltrd 0.7µ GF µg/L (82675)	Thio-bencarb water fltrd 0.7µ GF µg/L (82681)	Tri-allate, water, fltrd 0.7µ GF µg/L (82678)	Tri-flur-alin, water, fltrd 0.7µ GF µg/L (82661)	Purpose site visit, code (50280)	Sample purpose code (71999)	Sample volume, Sched- ule 2001, mL (99856)	Sam- pling condi- tion, code (72006)
BEDFORD COUNTY													
08-31-05	<.011	<.02	<.005	<.02	<.034	<.02	<.010	<.006	<.009	2001	50.00	917	8.00
08-01-05	<.011	<.02	<.005	<.02	<.034	<.02	<.010	<.006	<.009	2001	50.00	932	8.00
08-01-05	<.011	<.02	<.005	<.02	<.034	<.02	<.010	<.006	<.009	2001	50.00	962	8.00
BLAIR COUNTY													
10-05-04	--	--	--	--	--	--	--	--	--	2001	50.00	--	8.00
12-16-04	--	--	.10	--	--	--	--	--	--	2001	50.00	--	8.00
05-25-05	<.011	<.02	.100	<.02	<.034	<.02	<.010	<.006	<.009	2001	50.00	919	8.00
06-28-05	<.011	<.02	.123	<.02	<.034	<.02	<.010	<.006	<.009	2001	50.00	974	8.00
09-07-05	<.011	<.02	.110	<.02	<.034	<.02	<.010	<.006	<.009	2001	50.00	962	8.00
09-07-05	--	--	--	--	--	--	--	--	--	2098	50.00	--	8.00
09-07-05	--	--	--	--	--	--	--	--	--	2098	50.00	--	8.00
09-07-05	--	--	--	--	--	--	--	--	--	2098	50.00	--	8.00
CLINTON COUNTY													
08-10-05	<.011	<.02	<.005	<.02	<.034	<.02	<.010	<.006	<.009	2001	50.00	904	8.00
08-09-05	<.011	<.02	<.005	<.02	<.034	<.02	<.010	<.006	<.009	2001	50.00	927	8.00
FULTON COUNTY													
08-02-05	<.011	<.02	<.005	<.02	<.034	<.02	<.010	<.006	<.009	2001	50.00	936	8.00
08-02-05	--	--	--	--	--	--	--	--	--	2098	50.00	--	8.00
08-02-05	--	--	--	--	--	--	--	--	--	2098	50.00	--	8.00
HUNTINGDON COUNTY													
08-02-05	<.011	<.02	<.005	<.02	<.034	<.02	<.010	<.006	<.009	2001	50.00	926	8.00
06-28-05	<.011	<.02	<.005	<.02	<.034	<.02	<.010	<.006	<.009	2001	50.00	928	8.00
06-28-05	<.011	<.02	<.005	<.02	<.034	<.02	<.010	<.006	<.009	2001	50.00	968	8.00
08-29-05	<.011	<.02	<.005	<.02	<.034	<.02	<.010	<.006	<.009	2001	50.00	917	8.00
JUNIATA COUNTY													
06-01-05	<.011	<.02	<.005	<.02	<.034	<.02	<.010	<.006	<.009	2001	50.00	924	8.00
08-30-05	<.011	<.02	<.005	<.02	<.034	<.02	<.010	<.006	<.009	2001	50.00	918	8.00
08-08-05	<.011	<.02	<.005	<.02	<.034	<.02	<.010	<.006	<.009	2001	50.00	911	8.00
LANCASTER COUNTY													
10-06-04	--	--	--	--	--	--	--	--	--	2001	50.00	--	8.00
12-15-04	--	--	<.10	--	--	--	--	--	--	2001	50.00	--	8.00
05-24-05	<.011	<.02	.067	E.01	E.155	<.02	<.010	<.006	<.009	2001	50.00	912	8.00
06-29-05	<.011	<.02	.054	E.01	E.214	<.02	<.010	<.006	<.009	2001	50.00	930	8.00
08-11-05	<.055	<.12	.031	<.08	E.118	<.09	<.050	<.030	<.045	2001	50.00	944	8.00
LYCOMING COUNTY													
08-09-05	<.011	<.02	<.005	<.02	<.034	<.02	<.010	<.006	<.009	2001	50.00	937	8.00

**GROUND-WATER DATA COLLECTED AT SPECIAL-STUDY SITES
GROUND WATER PESTICIDES NETWORK PROJECT**

WATER-QUALITY DATA, WATER YEARS OCTOBER 2004 TO SEPTEMBER 2005

Date	Type of sample related QA data, code (99111)	Type of replicate, code (99105)	County	Data base number	Medium code
BEDFORD COUNTY					
08-31-05	1	--	009	01	6
08-01-05	10	--	009	01	6
08-01-05	1	--	009	01	6
BLAIR COUNTY					
10-05-04	1	--	013	01	6
12-16-04	1	--	013	01	6
05-25-05	1	--	013	01	6
06-28-05	100	--	013	01	6
09-07-05	30	20.00	013	01	6
09-07-05	--	20.00	013	02	S
09-07-05	--	20.00	013	02	S
09-07-05	--	20.00	013	02	S
CLINTON COUNTY					
08-10-05	1	--	035	01	6
08-09-05	1	--	035	01	6
FULTON COUNTY					
08-02-05	30	20.00	057	01	6
08-02-05	--	20.00	057	02	S
08-02-05	--	20.00	057	02	S
HUNTINGDON COUNTY					
08-02-05	1	--	061	01	6
06-28-05	1	--	061	01	6
06-28-05	1	--	061	01	6
08-29-05	1	--	061	01	6
JUNIATA COUNTY					
06-01-05	1	--	067	01	6
08-30-05	1	--	067	01	6
08-08-05	100	--	067	01	6
LANCASTER COUNTY					
10-06-04	1	--	071	01	6
12-15-04	1	--	071	01	6
05-24-05	1	--	071	01	6
06-29-05	1	--	071	01	6
08-11-05	1	--	071	01	6
LYCOMING COUNTY					
08-09-05	1	--	081	01	6

**GROUND-WATER DATA COLLECTED AT SPECIAL-STUDY SITES
GROUND WATER PESTICIDES NETWORK PROJECT**

WATER-QUALITY DATA, WATER YEARS OCTOBER 2004 TO SEPTEMBER 2005

Station number	Local Well ID	Network Identifier	Date	Time	Agency collecting sample, code (00027)	Agency analyzing sample, code (00028)	Depth of well, feet below LSD (72008)	Depth to water level, feet below LSD (72019)	Altitude of land surface feet (72000)	Pump or flow period to sampling, minutes (72004)	Sampling method, code (82398)	Turbidity white light, det ang 90+/-30 degrees NTU (63675)
MIFFLIN COUNTY												
402539077511701	MF 406	AB	08-02-05	1250	1028	80020	129	4.87	660	35	4040	--
403959077311101	MF 407	AB	08-15-05	1050	1028	80020	100	8.40	620	50	4040	--
403959077311101	MF 407	AB-QA	08-15-05	1051	1028	9813	100	8.40	620	50	4040	--
403959077311101	MF 407	AB-QA	08-15-05	1052	1028	9813	100	8.40	620	50	4040	--
403959077311101	MF 407	AB-QA	08-15-05	1053	1028	83914	100	8.40	620	50	4040	--
NORTHUMBERLAND COUNTY												
405754076491601	NU 571	AB	06-20-05	1140	1028	80020	123	16.33	460	45	4040	.5
410604076493401	NU 570	AB	06-21-05	0945	1028	80020	147	34.60	570	45	4040	1.0
410604076493401	NU 570	AB-QA	06-21-05	0946	1028	9813	147	34.60	570	45	4040	--
410604076493401	NU 570	AB-QA	06-21-05	0947	1028	9813	147	34.60	570	45	4040	--
PERRY COUNTY												
402122077131601	PE 686	AB	06-08-05	0840	1028	80020	240	83.80	610	50	4040	.4
402122077131601	PE 686	AB-QA	06-08-05	0841	1028	9813	240	83.80	610	50	4040	--
402122077131601	PE 686	AB-QA	06-08-05	0842	1028	9813	240	83.80	610	50	4040	--
402223077282501	PE 689	AB	08-31-05	0945	1028	80020	240	47.20	830	45	4040	--
402248077274001	PE 688	AB	06-01-05	1320	1028	80020	120	34.60	780	45	4040	.3
403005077170201	PE 687	AB	06-01-05	1115	1028	9813	180	13.79	630	45	4040	3.7
403005077170201	PE 687	AB	06-22-05	1215	1028	80020	180	14.00	630	60	4040	2.9
SNYDER COUNTY												
404516076564101	SN 250	AB	06-08-05	1135	1028	80020	201	66.10	590	55	4040	.4
404634076535701	SN 252	AB	06-08-05	1335	1028	80020	126	18.70	550	55	4040	1.2
404810077131601	SN 251	AB	06-22-05	0935	1028	80020	176	45.40	780	35	4040	.9
UNION COUNTY												
405333077040801	UN 207	AB	06-20-05	0930	1028	80020	180	47.10	340	40	4040	.3
405557076595401	UN 206	AB	06-20-05	1330	1028	80020	95	23.90	580	40	4040	.6
405931076555601	UN 205	AB	06-21-05	1130	1028	80020	147	38.75	485	35	4040	.6
405931076555601	UN 205	AB-QA	06-21-05	1131	1028	9813	147	38.75	485	35	4040	--
405931076555601	UN 205	AB-QA	06-21-05	1132	1028	9813	147	38.75	485	35	4040	--

**GROUND-WATER DATA COLLECTED AT SPECIAL-STUDY SITES
GROUND WATER PESTICIDES NETWORK PROJECT**

WATER-QUALITY DATA, WATER YEARS OCTOBER 2004 TO SEPTEMBER 2005

Date	Terbu- fos, water, fltrd 0.7µ GF µg/L (82675)	Thio- bencarb water, fltrd 0.7µ GF µg/L (82681)	Tri- allate, water, fltrd 0.7µ GF µg/L (82678)	Tri- flur- alin, water, fltrd 0.7µ GF µg/L (82661)	Purpose site visit, code (50280)	Sample purpose code (71999)	Sample volume, Sched- ule 2001, mL (99856)	Sam- pling condi- tion, code (72006)	Type of sample related QA data, code (99111)	Type of repli- cate, code (99105)	County	Data base number	Medium code
MIFFLIN COUNTY													
08-02-05	<.02	<.010	<.006	<.009	2001	50.00	937	8.00	1	--	087	01	6
08-15-05	<.02	<.010	<.006	<.009	2001	50.00	933	8.00	100	20.00	087	01	6
08-15-05	--	--	--	--	2098	50.00	--	8.00	--	20.00	087	02	S
08-15-05	--	--	--	--	2098	50.00	--	8.00	--	20.00	087	02	S
08-15-05	--	--	--	--	2098	50.00	--	--	--	20.00	087	02	S
NORTHUMBERLAND COUNTY													
06-20-05	<.02	<.010	<.006	<.009	2001	50.00	924	8.00	1	--	097	01	6
06-21-05	<.02	<.010	<.006	<.009	2001	50.00	930	8.00	100	30.00	097	01	6
06-21-05	--	--	--	--	2098	50.00	--	8.00	--	30.00	097	02	S
06-21-05	--	--	--	--	2001	50.00	--	8.00	--	30.00	097	02	S
PERRY COUNTY													
06-08-05	<.02	<.010	<.006	<.009	2001	50.00	932	8.00	30	30.00	099	01	6
06-08-05	--	--	--	--	2098	50.00	--	8.00	--	30.00	099	02	S
06-08-05	--	--	--	--	2098	50.00	--	8.00	--	30.00	099	02	S
08-31-05	<.02	<.010	<.006	<.009	2001	50.00	925	8.00	1	--	099	01	6
06-01-05	<.02	<.010	<.006	<.009	2001	50.00	928	8.00	1	--	099	01	6
06-01-05	--	--	--	--	2001	50.00	--	8.00	1	--	099	01	6
06-22-05	<.02	<.010	<.006	<.009	2001	50.00	912	8.00	10	--	099	01	6
SNYDER COUNTY													
06-08-05	<.02	<.010	<.006	<.009	2001	50.00	938	8.00	10	--	109	01	6
06-08-05	<.02	<.010	<.006	<.009	2001	50.00	950	8.00	1	--	109	01	6
06-22-05	<.02	<.010	<.006	<.009	2001	50.00	925	8.00	1	--	109	01	6
UNION COUNTY													
06-20-05	<.02	<.010	<.006	<.009	2001	50.00	941	8.00	1	--	119	01	6
06-20-05	<.02	<.010	<.006	<.009	2001	50.00	991	8.00	1	--	119	01	6
06-21-05	<.02	<.010	<.006	<.009	2001	50.00	931	8.00	100	20.00	119	01	6
06-21-05	--	--	--	--	2098	50.00	--	8.00	--	20.00	119	02	S
06-21-05	--	--	--	--	2098	50.00	--	8.00	--	20.00	119	02	S

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WATER-QUALITY DATA, WATER YEARS OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Depth to water level, feet below LSD (72019)	Sampling method, code (82398)	Turbidity white light, 90+/-30 correctd NTRU (63676)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd std (00400)	Specific conductance, μ S/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Bromide water, fltrd, mg/L (71870)	Chloride, water, fltrd, mg/L (00940)	Nitrite + nitrate water fltrd, mg/L as N (00631)	
BA 332 (LAT 40 18 --N LONG 078 19 --W)														
SEP 2005	07...	1450	28.00	4040	--	733	7.0	7.0	722	--	12.4	.19	33.8	8.82
	07...	1500	28.00	4040	--	733	--	--	--	--	--	--	--	--
401724078195801 BA 437 (LAT 40 17 24N LONG 078 19 58W)														
AUG 2005	30...	1400	--	4040	--	720	.3	7.1	1840	21.9	13.0	.27	196	61.7
	31...	1500	--	4040	--	712	V2.0	7.5	1570	23.4	14.2	E.02	228	28.8
SEP	07...	0930	--	4040	--	734	.5	6.9	1910	19.5	12.9	.34	206	66.1
	07...	0940	36.15	4040	3.0	734	.5	6.9	1910	19.5	12.9	--	--	E65.0
401724078194801 BA 642 (LAT 40 17 24N LONG 078 19 48W)														
SEP 2005	06...	1630	41.73	4040	--	731	1.8	7.4	1420	30.0	12.0	.23	270	1.10
401723078195701 BA 643 (LAT 40 17 23N LONG 078 19 57W)														
SEP 2005	08...	0830	45.50	4040	--	729	.1	7.0	1600	14.5	12.0	.32	106	64.3
401733078195501 BA 644 (LAT 40 17 33N LONG 078 19 55W)														
SEP 2005	07...	1200	--	4040	--	734	.1	7.3	813	--	13.0	.22	63.7	2.20
401738078194301 BA 645 (LAT 40 17 38N LONG 078 19 43W)														
SEP 2005	08...	1000	--	4040	--	729	5.3	7.2	890	--	12.0	.21	76.3	11.7
Date		Nitrite water, fltrd, mg/L as N (00613)	E coli, Defined Substr., Tech., MPN/100 mL (50468)	Total coli-form, Defined Tech., MPN/100 mL (50569)	2,6-Di-ethyl-aniline water fltrd 0.7 μ GF μ g/L (82660)	2-[(2-Ethyl-6methyl amino]2 oxoESA μ g/L (62850)	CIAT, water, fltrd, μ g/L (04040)	CEAT, water, fltrd, μ g/L (04038)	Ala-chlor 2nd amide, water, fltrd, μ g/L (63781)	Aceto-chlor 3rd amide, water, fltrd, μ g/L (63782)	OIAT, water, fltrd 0.7 μ GF μ g/L (62676)	OIET, water, fltrd, μ g/L (50355)	OEAT, water, fltrd 0.7 μ GF μ g/L (62678)	Aceto-chlor ESA, water, fltrd 0.7 μ GF μ g/L (61029)
BA 332 (LAT 40 18 --N LONG 078 19 --W)														
SEP 2005	07...	<.008	--	--	<.006	--	E.063	--	--	--	--	--	--	--
	07...	--	--	--	--	.06	.120	<.025	<.02	<.02	<.025	<.025	<.025	.05
401724078195801 BA 437 (LAT 40 17 24N LONG 078 19 58W)														
AUG 2005	30...	E.004	--	--	--	.10	.070	.060	<.02	<.02	<.025	<.025	1.0	.19
	31...	E.006	--	--	--	.08	.290	.160	<.02	<.02	.030	.040	<.025	.46
SEP	07...	.009	--	--	--	.15	.270	.120	<.02	<.02	<.025	<.025	<.025	.19
	07...	<.010	2	200	<.006	--	E.121	--	--	--	--	--	--	--
401724078194801 BA 642 (LAT 40 17 24N LONG 078 19 48W)														
SEP 2005	06...	<.008	--	--	--	<.02	.030	.040	<.02	<.02	.040	<.025	<.025	<.02
401723078195701 BA 643 (LAT 40 17 23N LONG 078 19 57W)														
SEP 2005	08...	<.008	--	--	--	.17	.260	.100	<.02	<.02	<.025	<.025	<.025	.09
401733078195501 BA 644 (LAT 40 17 33N LONG 078 19 55W)														
SEP 2005	07...	<.008	--	--	--	<.02	.080	.030	<.02	<.02	<.025	<.025	<.025	<.02
401738078194301 BA 645 (LAT 40 17 38N LONG 078 19 43W)														
SEP 2005	08...	<.008	--	--	--	.09	.120	<.025	<.02	<.02	<.025	<.025	<.025	.37

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Date	Aceto-chlor OA, water, fltrd 0.7µ GF µg/L (61030)	Aceto-chlor SAA, water, fltrd, µg/L (62847)	Aceto-chlor, water, fltrd, µg/L (49260)	Ala-chlor ESA SA, water, fltrd, µg/L (62849)	Ala-chlor ESA, water, fltrd 0.7µ GF µg/L (50009)	Ala-chlor OA, water, fltrd 0.7µ GF µg/L (61031)	Ala-chlor SAA, water, fltrd, µg/L (62848)	Ala-chlor, water, fltrd, µg/L (46342)	alpha-HCH, water, fltrd, µg/L (34253)	alpha-HCH-d6, surrog, wat flt 0.7µ GF percent recovery (91065)	Atra-zine, water, fltrd, µg/L (39632)	Azin-phos-methyl, water, fltrd 0.7µ GF µg/L (82686)	Ben-flur-alin, water, fltrd 0.7µ GF µg/L (82673)
	BA 332 (LAT 40 18 --N LONG 078 19 --W)												
SEP 2005 07... 07...	-- <.02	-- <.02	<.006 <.02	-- <.02	-- .09	-- <.02	-- <.02	<.005 <.02	<.005 --	83.9 --	.070 <.025	<.050 --	<.010 --
	401724078195801 BA 437 (LAT 40 17 24N LONG 078 19 58W)												
AUG 2005 30... 31...	.05 .68	<.02 <.02	<.02 <.02	.02 <.02	.84 1.99	3.10 3.74	<.02 <.02	.34 .09	-- --	-- --	.600 .110	-- --	-- --
SEP 07... 07...	<.02 --	<.02 --	<.02 <.006	.02 --	.99 --	3.96 --	<.02 --	.36 .397	-- <.005	-- 82.7	.510 .917	-- <.050	-- <.010
	401724078194801 BA 642 (LAT 40 17 24N LONG 078 19 48W)												
SEP 2005 06...	<.02	<.02	<.02	<.02	.04	<.02	<.02	<.02	--	--	.030	--	--
	401723078195701 BA 643 (LAT 40 17 23N LONG 078 19 57W)												
SEP 2005 08...	<.02	<.02	<.02	.03	1.44	4.27	<.02	.82	--	--	1.2	--	--
	401733078195501 BA 644 (LAT 40 17 33N LONG 078 19 55W)												
SEP 2005 07...	<.02	<.02	<.02	.03	.51	4.14	<.02	.83	--	--	.190	--	--
	401738078194301 BA 645 (LAT 40 17 38N LONG 078 19 43W)												
SEP 2005 08...	<.02	<.02	<.02	<.02	.57	<.02	<.02	<.02	--	--	.070	--	--
	BA 332 (LAT 40 18 --N LONG 078 19 --W)												
SEP 2005 07... 07...	-- <.025	<.004 --	<.041 --	<.020 --	-- .200	<.005 --	<.006 --	-- <.025	-- <.025	<.018 <.025	<.003 --	-- <.02	-- <.02
	401724078195801 BA 437 (LAT 40 17 24N LONG 078 19 58W)												
AUG 2005 30... 31...	1.7 .220	-- --	-- --	-- --	<.025 .200	-- --	-- --	.080 .620	.100 .660	.060 .100	-- --	<.02 <.02	.25 .29
SEP 07... 07...	1.4 --	-- .009	-- <.041	-- <.020	.800 --	-- <.005	-- <.006	.090 --	.120 --	.080 E.084	-- <.003	<.02 --	.26 --
	401724078194801 BA 642 (LAT 40 17 24N LONG 078 19 48W)												
SEP 2005 06...	<.025	--	--	--	.140	--	--	<.025	<.025	<.025	--	<.02	<.02
	401723078195701 BA 643 (LAT 40 17 23N LONG 078 19 57W)												
SEP 2005 08...	2.6	--	--	--	.400	--	--	.250	.350	.210	--	<.02	.36
	401733078195501 BA 644 (LAT 40 17 33N LONG 078 19 55W)												
SEP 2005 07...	.140	--	--	--	.060	--	--	.160	.230	.110	--	<.02	.11
	401738078194301 BA 645 (LAT 40 17 38N LONG 078 19 43W)												
SEP 2005 08...	<.025	--	--	--	.100	--	--	<.025	<.025	<.025	--	<.02	<.02

Date	Broma-cil, water, fltrd, µg/L (04029)	Butyl-ate, water, fltrd, µg/L (04028)	Car-baryl, water, fltrd 0.7µ GF µg/L (82680)	Carbo-furan, water, fltrd 0.7µ GF µg/L (82674)	Chloro-di-amino-s-tri-azine, wat flt µg/L (04039)	Chlor-pyrifos water, fltrd, µg/L (38933)	cis-Per-methrin water fltrd 0.7µ GF µg/L (82687)	Cyana-zine acid, water, wat flt µg/L (61745)	Cyana-zine amide, water, fltrd, µg/L (61709)	Cyana-zine, water, fltrd, µg/L (04041)	DCPA, water fltrd 0.7µ GF µg/L (82682)	De-chloro-aceto-chlor, water, fltrd, µg/L (63778)	De-chloro-ala-chlor, water, fltrd, µg/L (63777)
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Date	De-chloro-dimeth-enamid, water, fltrd, µg/L (63779)	De-chloro-metola-chlor, water, fltrd, µg/L (63780)	De-ethyl-cyana-zine acid, wat flt µg/L (61750)	De-ethyl-cyana-zine amide, wat flt µg/L (61751)	De-ethyl-cyana-zine, water, fltrd, µg/L (61749)	De-methyl fluo-meturon, water, fltrd, µg/L (61755)	Desulf-inyl fipro-nil, water, fltrd, µg/L (62170)	Diazi-non, water, fltrd, µg/L (39572)	Diazi-non-dl0 surrog. wat flt 0.7µ GF percent recovry (91063)	Diel-drin, water, fltrd, µg/L (39381)	Dimeth-enamid ESA, water, fltrd, µg/L (61951)	Dimeth-enamid OA, water, fltrd, µg/L (62482)	Dimeth-enamid water, fltrd, µg/L (61588)
	BA 332 (LAT 40 18 --N LONG 078 19 --W)												
SEP 2005 07... 07...	--	--	--	--	--	--	<.012	<.005	101	<.009	--	--	--
	<.02	<.02	<.025	<.025	<.20	<.2	--	--	--	--	<.02	<.02	<.02
	401724078195801 BA 437 (LAT 40 17 24N LONG 078 19 58W)												
AUG 2005 30... 31...	<.02	.26	.330	<.025	<.20	<.2	--	--	--	--	<.02	<.02	<.02
SEP 07... 07...	<.02	.16	.300	.030	<.20	<.2	--	--	--	--	<.02	<.02	.02
	<.02	.22	.200	<.025	<.20	<.2	--	--	--	--	<.02	<.02	<.02
	--	--	--	--	--	--	<.012	<.005	99.0	.025	--	--	--
	401724078194801 BA 642 (LAT 40 17 24N LONG 078 19 48W)												
SEP 2005 06...	<.02	<.02	<.025	<.025	<.20	<.2	--	--	--	--	<.02	<.02	<.02
	401723078195701 BA 643 (LAT 40 17 23N LONG 078 19 57W)												
SEP 2005 08...	<.02	.24	.380	<.025	<.20	<.2	--	--	--	--	<.02	<.02	<.02
	401733078195501 BA 644 (LAT 40 17 33N LONG 078 19 55W)												
SEP 2005 07...	<.02	.02	.090	<.025	<.20	<.2	--	--	--	--	<.02	<.02	<.02
	401738078194301 BA 645 (LAT 40 17 38N LONG 078 19 43W)												
SEP 2005 08...	<.02	<.02	<.025	<.025	<.20	<.2	--	--	--	--	.04	<.02	<.02
	BA 332 (LAT 40 18 --N LONG 078 19 --W)												
SEP 2005 07... 07...	<.02	--	<.004	<.009	<.005	<.029	<.013	<.024	<.016	--	--	--	--
	--	<.2	--	--	--	--	--	--	--	<.02	<.02	<.02	<.2
	401724078195801 BA 437 (LAT 40 17 24N LONG 078 19 58W)												
AUG 2005 30... 31...	--	<.2	--	--	--	--	--	--	--	<.02	<.02	<.02	<.2
SEP 07... 07...	--	<.2	--	--	--	--	--	--	--	<.02	<.02	<.02	<.2
	<.02	--	.016	<.009	<.005	<.029	<.013	<.024	<.016	--	--	--	--
	401724078194801 BA 642 (LAT 40 17 24N LONG 078 19 48W)												
SEP 2005 06...	--	<.2	--	--	--	--	--	--	--	<.02	<.02	<.02	<.2
	401723078195701 BA 643 (LAT 40 17 23N LONG 078 19 57W)												
SEP 2005 08...	--	<.2	--	--	--	--	--	--	--	<.02	<.02	<.02	<.2
	401733078195501 BA 644 (LAT 40 17 33N LONG 078 19 55W)												
SEP 2005 07...	--	.3	--	--	--	--	--	--	--	<.02	<.02	<.02	<.2
	401738078194301 BA 645 (LAT 40 17 38N LONG 078 19 43W)												
SEP 2005 08...	--	<.2	--	--	--	--	--	--	--	<.02	<.02	<.02	<.2

Date	Disul-foton, water, fltrd 0.7µ GF µg/L (82677)	Diuron, water, fltrd, µg/L (50374)	EPTC, water, fltrd 0.7µ GF µg/L (82668)	Ethal-flur-alin, water, fltrd 0.7µ GF µg/L (82663)	Etho-prop, water, fltrd 0.7µ GF µg/L (82672)	Desulf-inyl-fipro-nil amide, wat flt µg/L (62169)	Fipro-nil sulfide water, fltrd, µg/L (62167)	Fipro-nil sulfone water, fltrd, µg/L (62168)	Fipro-nil, water, fltrd, µg/L (62166)	Flufen-acet ESA, water, fltrd, µg/L (61952)	Flufe-nacet OA, water, fltrd, µg/L (62483)	Flufe-nacet, water, fltrd, µg/L (62481)	Fluo-meturon water fltrd 0.7µ GF µg/L (38811)
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WATER-QUALITY DATA, WATER YEARS OCTOBER 2004 TO SEPTEMBER 2005

Date	Fonofos water, fltrd, µg/L (04095)	Hydroxy aceto- chlor, water, fltrd, µg/L (63784)	Hydroxy ala- chlor, water, fltrd, µg/L (63783)	Hydroxy dimeth- enamid, water, fltrd, µg/L (64045)	Hydroxy metola- chlor, water, fltrd, µg/L (63785)	Hy- droxy- sim- azine, water, fltrd, µg/L (63154)	Lindane water, fltrd, µg/L (39341)	Linuron water fltrd 0.7µ GF µg/L (38478)	Linuron water fltrd 0.7µ GF µg/L (82666)	Mala- thion, water, fltrd, µg/L (39532)	Methyl para- thion, water, fltrd 0.7µ GF µg/L (82667)	Metola- chlor ESA, water, fltrd 0.7µ GF µg/L (61043)	Metola- chlor OA, water, fltrd 0.7µ GF µg/L (61044)
	BA 332 (LAT 40 18 --N LONG 078 19 --W)												
SEP 2005 07... 07...	<.003 --	-- <.02	-- <.02	-- <.02	-- <.02	-- <.025	<.004 --	-- <.2	<.035 --	<.027 --	<.015 --	-- 1.27	-- .11
	401724078195801 BA 437 (LAT 40 17 24N LONG 078 19 58W)												
AUG 2005 30... 31...	-- --	<.02 <.02	.53 <.02	<.02 <.02	.32 .08	<.025 .030	-- --	<.2 <.2	-- --	-- --	-- --	2.93 3.30	6.76 6.93
SEP 07... 07...	-- <.003	<.02 --	.51 --	<.02 --	.30 --	<.025 --	-- <.004	<.2 --	-- <.035	-- <.027	-- <.015	3.36 --	7.29 --
	401724078194801 BA 642 (LAT 40 17 24N LONG 078 19 48W)												
SEP 2005 06...	--	<.02	<.02	<.02	<.02	<.025	--	<.2	--	--	--	.40	.05
	401723078195701 BA 643 (LAT 40 17 23N LONG 078 19 57W)												
SEP 2005 08...	--	<.02	.83	<.02	.37	<.025	--	<.2	--	--	--	3.17	7.53
	401733078195501 BA 644 (LAT 40 17 33N LONG 078 19 55W)												
SEP 2005 07...	--	<.02	.75	<.02	.03	.030	--	<.2	--	--	--	.35	.36
	401738078194301 BA 645 (LAT 40 17 38N LONG 078 19 43W)												
SEP 2005 08...	--	<.02	<.02	<.02	<.02	<.025	--	<.2	--	--	--	1.91	.37
	BA 332 (LAT 40 18 --N LONG 078 19 --W)												
Date	Metola- chlor, water, fltrd, µg/L (39415)	Metri- buzin, water, fltrd, µg/L (82630)	Moli- nate, water, fltrd 0.7µ GF µg/L (82671)	Naprop- amide, water, fltrd 0.7µ GF µg/L (82684)	p,p'- DDE, water, fltrd, µg/L (34653)	Para- thion, water, fltrd, µg/L (39542)	Peb- ulate, water, fltrd 0.7µ GF µg/L (82669)	Pendi- meth- alin, water, fltrd 0.7µ GF µg/L (82683)	Phorate water fltrd 0.7µ GF µg/L (82664)	Prome- ton, water, fltrd, µg/L (04037)	Propy- zamide, water, fltrd 0.7µ GF µg/L (82676)	Propa- chlor ESA, water, fltrd 0.7µ GF µg/L (62766)	Propa- chlor OA, water, fltrd 0.7µ GF µg/L (62767)
	BA 332 (LAT 40 18 --N LONG 078 19 --W)												
SEP 2005 07... 07...	E.005 .14	<.006 --	<.003 --	<.007 --	<.003 --	<.010 --	<.004 --	<.022 --	<.011 --	.02 .030	<.004 --	-- <.05	-- <.02
	401724078195801 BA 437 (LAT 40 17 24N LONG 078 19 58W)												
AUG 2005 30... 31...	18.1 6.57	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	.210 .030	-- --	<.05 <.05	<.02 <.02
SEP 07... 07...	19.8 E22.5	-- <.006	-- <.003	-- <.007	-- <.003	-- <.010	-- <.004	-- <.022	-- <.011	.190 .27	-- <.004	<.05 --	<.02 --
	401724078194801 BA 642 (LAT 40 17 24N LONG 078 19 48W)												
SEP 2005 06...	<.02	--	--	--	--	--	--	--	--	<.025	--	<.05	<.02
	401723078195701 BA 643 (LAT 40 17 23N LONG 078 19 57W)												
SEP 2005 08...	<.02	--	--	--	--	--	--	--	--	.390	--	<.05	<.02
	401733078195501 BA 644 (LAT 40 17 33N LONG 078 19 55W)												
SEP 2005 07...	2.20	--	--	--	--	--	--	--	--	.040	--	<.05	<.02
	401738078194301 BA 645 (LAT 40 17 38N LONG 078 19 43W)												
SEP 2005 08...	.03	--	--	--	--	--	--	--	--	<.025	--	<.05	<.02

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GROUND WATER PESTICIDES NETWORK PROJECT**

WATER-QUALITY DATA, WATER YEARS OCTOBER 2004 TO SEPTEMBER 2005

Date	Propa- chlor, water, fltrd, µg/L (04024)	Pro- panil, water, fltrd, 0.7µ GF µg/L (82679)	Propar- gite, water, fltrd, 0.7µ GF µg/L (82685)	Propa- zine, water, fltrd, µg/L (38535)	Sima- zine, water, fltrd, µg/L (04035)	Tebu- thiuron water, fltrd, 0.7µ GF µg/L (82670)	Terba- cil, water, fltrd, 0.7µ GF µg/L (82665)	Terbu- fos, water, fltrd, 0.7µ GF µg/L (82675)	Thio- bencarb water, fltrd, 0.7µ GF µg/L (82681)	Tri- allate, water, fltrd, 0.7µ GF µg/L (82678)	Tri- flur- alin, water, fltrd, 0.7µ GF µg/L (82661)
	BA 332 (LAT 40 18 --N LONG 078 19 --W)										
SEP 2005 07... 07...	<.025 <.02	<.011 --	<.02 --	-- <.025	.009 <.025	<.02 --	<.034 --	<.02 --	<.010 --	<.006 --	<.009 --
	401724078195801 BA 437 (LAT 40 17 24N LONG 078 19 58W)										
AUG 2005 30... 31...	<.02 <.02	-- --	-- --	<.025 <.025	<.025 <.025	-- --	-- --	-- --	-- --	-- --	-- --
SEP 07... 07...	<.02 <.025	-- <.011	-- <.02	<.025 --	.090 .110	-- <.02	-- <.034	-- <.02	-- <.010	-- <.006	-- <.009
	401724078194801 BA 642 (LAT 40 17 24N LONG 078 19 48W)										
SEP 2005 06...	<.02	--	--	<.025	<.025	--	--	--	--	--	--
	401723078195701 BA 643 (LAT 40 17 23N LONG 078 19 57W)										
SEP 2005 08...	<.02	--	--	.040	.100	--	--	--	--	--	--
	401733078195501 BA 644 (LAT 40 17 33N LONG 078 19 55W)										
SEP 2005 07...	<.02	--	--	.040	<.025	--	--	--	--	--	--
	401738078194301 BA 645 (LAT 40 17 38N LONG 078 19 43W)										
SEP 2005 08...	<.02	--	--	<.025	<.025	--	--	--	--	--	--

**GROUND-WATER DATA COLLECTED AT SPECIAL-STUDY SITES
GROUND WATER PESTICIDES NETWORK PROJECT**

RESULTS FROM BLANK SAMPLES

REMARKS.--The following are quality-control samples (blanks) processed during the 2005 water year. "<" = less than; µg/L = micrograms per liter (parts per billion); mg/L = milligrams per liter (parts per million); F. blk-N = field blank for nitrate/nitrite; F. blk-P = field blank for pesticides; F. blk-B = field blank for bacteria.

QUALITY-CONTROL DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Station number	Local well ID	Quality assurance Type	Date	Time	Agency collecting sample, code (00027)	Agency analyzing sample, code (00028)	Depth of well, feet below LSD (72008)	Altitude of land surface feet (72000)	Nitrite + nitrate of water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	E coli, Defined Substr., Tech., water, MPN/ 100 mL (50468)	Total coli-form, Defined Tech., MPN/ 100 mL (50569)	
404516076564101	SN 250	F. blk-N	06-08-05	1136	1028	9813	201	590	.040	<.010	--	--	
403005077170201	PE 687	F. blk-P	06-22-05	1200	1028	80020	180	630	--	--	--	--	
401724078195801	BA 437	F. blk-N	06-28-05	1136	1028	9813	105	1435.00	<.040	<.010	--	--	
401724078195801	BA 437	F. blk-P	06-28-05	1137	1028	80020	105	1435.00	--	--	--	--	
394938078383901	BD 656	F. blk-B	08-01-05	1021	1028	9813	125	1160	--	--	<1	<1	
403959077311101	MF 407	F. blk-P	08-15-05	1100	1028	80020	100	620	--	--	--	--	
	2,6-Diethyl-aniline water, fltrd	CIAT, fltrd	Aceto-chlor, water, fltrd	Ala-chlor, water, fltrd	alpha-HCH, water, fltrd	alpha-HCH-d6, surrog, wat flt 0.7µ GF	Atra-zine, water, fltrd	Azin-phos-methyl, water, fltrd	Ben-flur-alin, water, fltrd	Butyl-ate, water, fltrd	Car-baryl, water, fltrd	Carbo-furan, water, fltrd	Chlor-pyrifos, water, fltrd
Date	0.7µ GF µg/L (82660)	0.7µ GF µg/L (04040)	0.7µ GF µg/L (49260)	0.7µ GF µg/L (46342)	0.7µ GF µg/L (34253)	percent recovery (91065)	µg/L (39632)	µg/L (82686)	µg/L (82673)	µg/L (04028)	µg/L (82680)	µg/L (82674)	µg/L (38933)
06-08-05	--	--	--	--	--	--	--	--	--	--	--	--	--
06-22-05	<.006	<.006	<.006	<.005	<.005	100	<.007	<.050	<.010	<.004	<.041	<.020	<.005
06-28-05	--	--	--	--	--	--	--	--	--	--	--	--	--
06-28-05	<.006	<.006	<.006	<.005	<.005	108	<.007	<.050	<.010	<.004	<.041	<.020	<.005
08-01-05	--	--	--	--	--	--	--	--	--	--	--	--	--
08-15-05	<.006	<.006	<.006	<.005	<.005	81.8	<.007	<.050	<.010	<.004	<.041	<.020	<.005
	cis-Permethrin water, fltrd	Cyana-zine, water, fltrd	DCPA, water, fltrd	Desulf-inyl fipro-nil, water, fltrd	Diazi-non, water, fltrd	Diazi-non-d10 surrog, wat flt 0.7µ GF	Diel-drin, water, fltrd	Disul-foton, water, fltrd	EPTC, water, fltrd	Ethal-flur-alin, water, fltrd	Etho-prop, water, fltrd	Desulf-inyl-fipro-nil amide, wat flt	Fipro-nil sulfide, water, fltrd
Date	0.7µ GF µg/L (82687)	µg/L (04041)	0.7µ GF µg/L (82682)	µg/L (62170)	µg/L (39572)	percent recovery (91063)	µg/L (39381)	µg/L (82677)	µg/L (82668)	µg/L (82663)	µg/L (82672)	µg/L (62169)	µg/L (62167)
06-08-05	--	--	--	--	--	--	--	--	--	--	--	--	--
06-22-05	<.006	<.018	<.003	<.012	<.005	104	<.009	<.02	<.004	<.009	<.005	<.029	<.013
06-28-05	--	--	--	--	--	--	--	--	--	--	--	--	--
06-28-05	<.006	<.018	<.003	<.012	<.005	117	<.009	<.02	<.004	<.009	<.005	<.029	<.013
08-01-05	--	--	--	--	--	--	--	--	--	--	--	--	--
08-15-05	<.006	<.018	<.003	<.012	<.005	93.7	<.009	<.02	<.004	<.009	<.005	<.029	<.013
	Fipro-nil sulfone water, fltrd	Fipro-nil, water, fltrd	Fonofos, water, fltrd	Lindane, water, fltrd	Linuron, water, fltrd	Mala-thion, water, fltrd	Methyl para-thion, water, fltrd	Metola-chlor, water, fltrd	Metri-buzin, water, fltrd	Moli-nate, water, fltrd	Naprop-amide, water, fltrd	p,p'-DDE, water, fltrd	Para-thion, water, fltrd
Date	µg/L (62168)	µg/L (62166)	µg/L (04095)	µg/L (39341)	0.7µ GF µg/L (82666)	µg/L (39532)	µg/L (82667)	µg/L (39415)	µg/L (82630)	µg/L (82671)	µg/L (82684)	µg/L (34653)	µg/L (39542)
06-08-05	--	--	--	--	--	--	--	--	--	--	--	--	--
06-22-05	<.024	<.016	<.003	<.004	<.035	<.027	<.015	<.006	<.006	<.003	<.007	<.003	<.010
06-28-05	--	--	--	--	--	--	--	--	--	--	--	--	--
06-28-05	<.024	<.016	<.003	<.004	<.035	<.027	<.015	<.006	<.006	<.003	<.007	<.003	<.010
08-01-05	--	--	--	--	--	--	--	--	--	--	--	--	--
08-15-05	<.024	<.016	<.003	<.004	<.035	<.027	<.015	<.006	<.006	<.003	<.007	<.003	<.010

**GROUND-WATER DATA COLLECTED AT SPECIAL-STUDY SITES
GROUND WATER PESTICIDES NETWORK PROJECT**

RESULTS FROM BLANK SAMPLES--Continued

QUALITY-CONTROL DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Peb- ulate, water, fltrd 0.7µ GF µg/L (82669)	Pendi- meth- alin, water, fltrd 0.7µ GF µg/L (82683)	Phorate water, fltrd 0.7µ GF µg/L (82664)	Prome- ton, water, fltrd, µg/L (04037)	Propy- zamide, water, fltrd 0.7µ GF µg/L (82676)	Propa- chlor, water, fltrd, µg/L (04024)	Pro- panil, water, fltrd 0.7µ GF µg/L (82679)	Propar- gite, water, fltrd 0.7µ GF µg/L (82685)	Sima- zine, water, fltrd, µg/L (04035)	Tebu- thiuron water fltrd 0.7µ GF µg/L (82670)	Terba- cil, water, fltrd 0.7µ GF µg/L (82665)	Terbu- fos, water, fltrd 0.7µ GF µg/L (82675)	Thio- bencarb water fltrd 0.7µ GF µg/L (82681)
06-08-05	--	--	--	--	--	--	--	--	--	--	--	--	--
06-22-05	<.004	<.022	<.011	<.01	<.004	<.025	<.011	<.02	<.005	<.02	<.034	<.02	<.010
06-28-05	--	--	--	--	--	--	--	--	--	--	--	--	--
06-28-05	<.004	<.022	<.011	<.01	<.004	<.025	<.011	<.02	<.005	<.02	<.034	<.02	<.010
08-01-05	--	--	--	--	--	--	--	--	--	--	--	--	--
08-15-05	<.004	<.022	<.011	<.01	<.004	<.025	<.011	<.02	<.005	<.02	<.034	<.02	<.010

Date	Tri- allate, water, fltrd 0.7µ GF µg/L (82678)	Tri- flur- alin, water, fltrd 0.7µ GF µg/L (82661)	Purpose site visit, code (50280)	Sample purpose code (71999)	Sample volume, Sched- ule 2001, mL (99856)	Source of blank solu- tion, code (99101)	Refer- ence mater- ial or spike lot number (99104)	Type of blank sample, code (99102)	Type of blank solu- tion, code (99100)
06-08-05	--	--	2098	50.00	--	10.00	2330	100.00	10.00
06-22-05	<.006	<.009	2098	50.00	916	10.00	80401	100.00	40.00
06-28-05	--	--	2098	50.00	--	10.00	2330	100.00	10.00
06-28-05	<.006	<.009	2098	50.00	934	10.00	80401	100.00	40.00
08-01-05	--	--	2098	50.00	--	80.00	--	100.00	200.00
08-15-05	<.006	<.009	2098	50.00	933	10.00	80501	100.00	40.00

**GROUND-WATER DATA COLLECTED AT SPECIAL-STUDY SITES
GROUND WATER PESTICIDES NETWORK PROJECT**

Compounds analyzed at the Pennsylvania Department of Environmental Protection Laboratory

Pesticide Schedule Used for Annual Baseline Trends and Hot-Spot Trends Networks (SAC USGS2)	
Analyte	NWIS Parameter Code
EPA 525.2	
Acetochlor	49260
Alachlor	46342
Atrazine	39632
Chlorothalonil	49306
Chlorpyrifos (Dursban)	38933
Dichlobenil	63009
Fenpropathrin	64044
Hexachlorocyclopentadiene	34386
Metolachlor	39415
Metribuzin	82630
Pendimethalin	82683
Phosmet (added after April 2004)	61601
Simazine	04035

**GROUND-WATER DATA COLLECTED AT SPECIAL-STUDY SITES
GROUND WATER PESTICIDES NETWORK PROJECT**

Compounds analyzed at the U.S. Geological Survey National Water-Quality Laboratory

Pesticide Schedule (SH2001)		Pesticide Schedule (SH2001)	
Analyte	NWIS Parameter Code	Analyte	NWIS Parameter Code
Alpha-HC	34253	Parathion-methyl	82667
Acetochlor	49260	Metolachlor	39415
Alachlor	46342	Metribuzin	82630
2,6 -Diethylaniline	82660	Molinate	82671
Atrazine	39632	Napropamide	82684
Desethyl atrazine (currently CIAT {2-chloro-4-isopropylamino-6- amino-s-triazine})	04040	p,p'-DDE	34653
Azinphos-methyl	82686	Parathion	39542
Benfluralin	82673	Pebulate	82669
Butylate	04028	Pendimethalin	82683
Carbaryl	82680	Phorate	82664
Carbofuran	82674	Prometon	04037
Chlorpyrifos	38933	Propyzamide	82676
cis-Permethrin	82687	Propachlor	04024
Cyanazine	04041	Propanil	82679
Dacthal (DCPA)	82682	Propargite	82685
Desulfinylfipronil	62170	Simazine	04035
Desulfinylfipronil amide	62169	Tebuthiuron	82670
Diazinon	39572	Terbacil	82665
Diazinon-d10 (surrogate)	91063	Terbufos	82675
Dieldrin	39381	Thiobencarb	82681
Disulfoton	82677	Triallate	82678
EPTC	82668	Trifluralin	82661
Ethalfuralin	82663		
Ethoprophos	82672		
Fipronil	62166		
Fipronil sulfide	62167		
Fipronil sulfone	62168		
Fonofos	04095		
alpha-HCH-d6 (surrogate)	91065		
Lindane	39341		
Linuron	82666		
Malathion	39532		

**GROUND-WATER DATA COLLECTED AT SPECIAL-STUDY SITES
GROUND WATER PESTICIDES NETWORK PROJECT**

401435076540910 - QUALITY-ASSURANCE RESULTS FROM SPIKED SAMPLES

REMARKS.--A USGS-certified mixture of pesticides and herbicides was spiked into approximately 6 liters of organic-free blank water May 24, 2005 (times are 1030, 1040, and 1050) to create three 1-L triplicate quality-assurance samples which were submitted to the U.S. Geological Survey National Water Quality Laboratory and one 2-L sample (time was 1100) which was submitted as an interlab spiked pesticide split to the PA Department of Environmental Protection lab. These samples are used to determine both precision and accuracy. Concentrations of pesticides and herbicides (in µg/L) and calculated recoveries (in percent) are shown in the table below for estimation of accuracy. Less-than values were set equal to zero for calculations; E = estimated value; "<" = less than.

QUALITY-CONTROL DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Parameter code	Constituent	Concentration, in micrograms per liter				Recovery in percent [(B-A)/C] x 100
		Laboratory results		Calculated concentration in spiked blank ^a		
		Assumed for blank water	Spiked Blank (05/24/05 @ 1030)			
		A	B	C		
49260	Acetochlor	<0.006	0.412	.40	103	
46342	Alachlor	<0.005	0.395	.40	99	
34253	Alpha HCH	<0.005	0.365	.40	91	
39632	Atrazine	<0.007	0.435	.40	109	
82673	Benfluralin	<0.010	0.314	.40	78	
04028	Butylate	<0.004	0.340	.40	85	
82680	Carbaryl	<0.041	E0.263	.40	66	
82674	Carbofuran	<0.020	E0.290	.40	72	
38933	Chlorpyrifos	<0.005	0.351	.40	88	
04041	Cyanazine	<0.018	0.369	.40	92	
82682	DCPA (Dacthal)	<0.003	0.520	.40	130	
04040	CIAT (Desethyl Atrazine)	<0.006	E0.072	.40	18	
62170	Desulfinylfipronil	<0.012	0.510	.40	128	
62169	Desulfinylfipronil amide	<0.029	E0.275	.40	69	
39572	Diazinon	<0.005	0.361	.40	90	
39381	Dieldrin	<0.009	0.264	.40	66	
82660	2,6-Diethyl Aniline	<0.006	0.025	.40	6	
82677	Disulfoton	<0.021	0.112	.40	28	
82668	EPTC	<0.004	0.350	.40	88	
82663	Ethalfuralin	<0.009	0.306	.40	76	
82672	Ethoprophos	<0.005	0.301	.40	75	
62166	Fipronil	<0.016	E0.475	.40	119	
62167	Fipronil sulfide	<0.013	0.531	.40	133	
62168	Fipronil sulfone	<0.024	0.349	.40	87	
04095	Fonofos	<0.003	0.283	.40	71	
39341	Lindane	<0.004	0.404	.40	101	
82666	Linuron	<0.035	0.252	.40	63	
39532	Malathion	<0.027	0.377	.40	94	
82686	Methyl Azinphos	<0.050	E0.189	.40	47	
82667	Methyl Parathion	<0.015	0.434	.40	108	
39415	Metolachlor	<0.006	0.388	.40	97	
82630	Metribuzin	<0.006	0.202	.40	50	
82671	Molinate	<0.003	0.344	.40	86	
82684	Napropamide	<0.007	0.260	.40	65	
34653	P, P' DDE	<0.003	0.173	.40	43	
39542	Parathion	<0.010	0.481	.40	120	
82669	Pebulate	<0.004	0.349	.40	87	
82683	Pendimethalin	<0.022	0.299	.40	75	
82687	Permethrin, cis	<0.006	0.132	.40	33	
82664	Phorate	<0.011	0.176	.40	44	
04037	Prometon	<0.010	0.375	.40	94	
04024	Propachlor	<0.025	0.354	.40	88	
82679	Propanil	<0.011	0.335	.40	84	
82685	Propargite	<0.023	0.275	.40	69	
82676	Propyzamide	<0.004	0.352	.40	88	
04035	Simazine	<0.005	0.374	.40	94	
82670	Tebuthiuron	<0.016	0.367	.40	92	
82665	Terbacil	<0.034	E0.140	.40	35	
82675	Terbufos	<0.017	0.294	.40	74	
82681	Thiobencarb	<0.010	0.473	.40	118	
82678	Triallate	<0.006	0.296	.40	74	
82661	Trifluralin	<0.009	0.280	.40	70	

^a Calculated concentration of spike in sample equals the concentration of the spike solution, in micrograms per milliliter x amount of spike added, in milliliters, divided by the spiked sample volume, in liters.

**GROUND-WATER DATA COLLECTED AT SPECIAL-STUDY SITES
GROUND WATER PESTICIDES NETWORK PROJECT**

401435076540910 - QUALITY-ASSURANCE RESULTS FROM SPIKED SAMPLES

REMARKS.--A USGS-certified mixture of pesticides and herbicides was spiked into approximately 6 liters of organic-free blank water May 24, 2005 (times are 1030, 1040, and 1050) to create three 1-L triplicate quality-assurance samples which were submitted to the U.S. Geological Survey National Water Quality Laboratory and one 2-L sample (time was 1100) which was submitted as an interlab spiked pesticide split to the PA Department of Environmental Protection lab. These samples are used to determine both precision and accuracy. Concentrations of pesticides and herbicides (in µg/L) and calculated recoveries (in percent) are shown in the table below for estimation of accuracy. Less-than values were set equal to zero for calculations; E = estimated value; "<" = less than.

QUALITY-CONTROL DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Parameter code	Constituent	Concentration, in micrograms per liter			
		Assumed for blank water	Laboratory results		Recovery in percent
			Spiked Blank (05/24/05 @ 1040)	Calculated concentration in spiked blank ^a	
A	B	C	[(B-A)/C] x 100		
49260	Acetochlor	<0.006	0.424	.40	106
46342	Alachlor	<0.005	0.409	.40	102
34253	Alpha HCH	<0.005	0.360	.40	90
39632	Atrazine	<0.007	0.447	.40	112
82673	Benfluralin	<0.010	0.310	.40	78
04028	Butylate	<0.004	0.337	.40	84
82680	Carbaryl	<0.041	E0.298	.40	74
82674	Carbofuran	<0.020	E0.307	.40	77
38933	Chlorpyrifos	<0.005	0.352	.40	88
04041	Cyanazine	<0.018	0.384	.40	96
82682	DCPA (Dacthal)	<0.003	0.511	.40	128
04040	CIAT (Desethyl Atrazine)	<0.006	E0.074	.40	18
62170	Desulfinylfipronil	<0.012	0.525	.40	131
62169	Desulfinylfipronil amide	<0.029	E0.286	.40	72
39572	Diazinon	<0.005	0.359	.40	90
39381	Dieldrin	<0.009	0.253	.40	63
82660	2,6-Diethyl Aniline	<0.006	0.020	.40	5
82677	Disulfoton	<0.021	0.086	.40	22
82668	EPTC	<0.004	0.335	.40	82
82663	Ethalfluralin	<0.009	0.294	.40	74
82672	Ethoprophos	<0.005	0.311	.40	78
62166	Fipronil	<0.016	E0.498	.40	124
62167	Fipronil sulfide	<0.013	0.561	.40	140
62168	Fipronil sulfone	<0.024	0.354	.40	88
04095	Fonofos	<0.003	0.284	.40	71
39341	Lindane	<0.004	0.395	.40	99
82666	Linuron	<0.035	0.271	.40	68
39532	Malathion	<0.027	0.405	.40	101
82686	Methyl Azinphos	<0.050	E0.197	.40	49
82667	Methyl Parathion	<0.015	0.463	.40	116
39415	Metolachlor	<0.006	0.412	.40	103
82630	Metribuzin	<0.006	0.207	.40	52
82671	Molinate	<0.003	0.340	.40	85
82684	Napropamide	<0.007	0.265	.40	66
34653	P, P' DDE	<0.003	0.166	.40	42
39542	Parathion	<0.010	0.507	.40	127
82669	Pebulate	<0.004	0.350	.40	88
82683	Pendimethalin	<0.022	0.303	.40	76
82687	Permethrin, cis	<0.006	0.134	.40	34
82664	Phorate	<0.011	0.144	.40	36
04037	Prometon	<0.010	0.390	.40	98
04024	Propachlor	<0.010	0.375	.40	94
82679	Propanil	<0.011	0.362	.40	91
82685	Propargite	<0.023	0.263	.40	66
82676	Propyzamide	<0.004	0.368	.40	92
04035	Simazine	<0.005	0.391	.40	98
82670	Tebuthiuron	<0.016	0.388	.40	97
82665	Terbacil	<0.034	E0.143	.40	36
82675	Terbufos	<0.017	0.271	.40	68
82681	Thiobencarb	<0.010	0.463	.40	116
82678	Triallate	<0.006	0.295	.40	74
82661	Trifluralin	<0.009	0.285	.40	71

^a Calculated concentration of spike in sample equals the concentration of the spike solution, in micrograms per milliliter x amount of spike added, in milliliters, divided by the spiked sample volume, in liters.

**GROUND-WATER DATA COLLECTED AT SPECIAL-STUDY SITES
GROUND WATER PESTICIDES NETWORK PROJECT**

401435076540910 - QUALITY-ASSURANCE RESULTS FROM SPIKED SAMPLES

REMARKS.--A USGS-certified mixture of pesticides and herbicides was spiked into approximately 6 liters of organic-free blank water May 24, 2005 (times are 1030, 1040, and 1050) to create three 1-L triplicate quality-assurance samples which were submitted to the U.S. Geological Survey National Water Quality Laboratory and one 2-L sample (time was 1100) which was submitted as an interlab spiked pesticide split to the PA Department of Environmental Protection lab. These samples are used to determine both precision and accuracy. Concentrations of pesticides and herbicides (in µg/L) and calculated recoveries (in percent) are shown in the table below for estimation of accuracy. Less-than values were set equal to zero for calculations; E = estimated value; "<" = less than.

QUALITY-CONTROL DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Parameter code	Constituent	Concentration, in micrograms per liter			
		Laboratory results			Recovery in percent
		Assumed for blank water	Spiked Blank (05/24/05 @ 1050)	Calculated ^a concentration in spiked blank	
A	B	C	[(B-A)/C] x 100		
49260	Acetochlor	<0.006	0.520	.40	130
46342	Alachlor	<0.005	0.504	.40	126
34253	Alpha HCH	<0.005	0.422	.40	105
39632	Atrazine	<0.007	0.451	.40	113
82673	Benfluralin	<0.010	0.247	.40	62
04028	Butylate	<0.004	0.395	.40	99
82680	Carbaryl	<0.041	EO.206	.40	52
82674	Carbofuran	<0.020	EO.233	.40	58
38933	Chlorpyrifos	<0.005	0.387	.40	97
04041	Cyanazine	<0.018	0.377	.40	94
82682	DCPA (Dacthal)	<0.003	0.423	.40	106
04040	CIAT (Desethyl Atrazine)	<0.006	EO.100	.40	25
62170	Desulfinylfipronil	<0.012	0.412	.40	103
62169	Desulfinylfipronil amide	<0.029	EO.257	.40	64
39572	Diazinon	<0.005	0.456	.40	114
39381	Dieldrin	<0.009	0.518	.40	130
82660	2,6-Diethyl Aniline	<0.006	0.028	.40	7
82677	Disulfoton	<0.021	0.133	.40	33
82668	EPTC	<0.004	0.376	.40	94
82663	Ethalfuralin	<0.009	0.273	.40	68
82672	Ethoprophos	<0.005	0.356	.40	89
62166	Fipronil	<0.016	EO.346	.40	86
62167	Fipronil sulfide	<0.013	0.396	.40	99
62168	Fipronil sulfone	<0.024	0.328	.40	82
04095	Fonofos	<0.003	0.424	.40	106
39341	Lindane	<0.004	0.457	.40	114
82666	Linuron	<0.035	0.324	.40	81
39532	Malathion	<0.027	0.419	.40	105
82686	Methyl Azinphos	<0.050	EO.218	.40	54
82667	Methyl Parathion	<0.015	0.354	.40	88
39415	Metolachlor	<0.006	0.514	.40	128
82630	Metribuzin	<0.006	0.248	.40	62
82671	Molinate	<0.003	0.374	.40	94
82684	Napropamide	<0.007	0.500	.40	125
34653	P, P' DDE	<0.003	0.240	.40	60
39542	Parathion	<0.010	0.393	.40	98
82669	Pebulate	<0.004	0.393	.40	98
82683	Pendimethalin	<0.022	0.408	.40	102
82687	Permethrin, cis	<0.006	0.186	.40	46
82664	Phorate	<0.011	0.208	.40	52
04037	Prometon	<0.010	0.437	.40	109
04024	Propachlor	<0.010	0.409	.40	102
82679	Propanil	<0.011	0.372	.40	93
82685	Propargite	<0.023	0.310	.40	78
82676	Propyzamide	<0.004	0.425	.40	106
04035	Simazine	<0.005	0.388	.40	97
82670	Tebuthiuron	<0.016	0.372	.40	93
82665	Terbacil	<0.034	EO.187	.40	47
82675	Terbufos	<0.017	0.285	.40	71
82681	Thiobencarb	<0.010	0.443	.40	111
82678	Triallate	<0.006	0.364	.40	91
82661	Trifluralin	<0.009	0.257	.40	64

^a Calculated concentration of spike in sample equals the concentration of the spike solution, in micrograms per milliliter x amount of spike added, in milliliters, divided by the spiked sample volume, in liters.

**GROUND-WATER DATA COLLECTED AT SPECIAL-STUDY SITES
GROUND WATER PESTICIDES NETWORK PROJECT**

401435076540910 - QUALITY-ASSURANCE RESULTS FROM SPIKED SAMPLES

REMARKS.--A USGS-certified mixture of pesticides and herbicides was spiked into approximately 6 liters of organic-free blank water May 24, 2005 (times are 1030, 1040, and 1050) to create three 1-L triplicate quality-assurance samples which were submitted to the U.S. Geological Survey National Water Quality Laboratory and one 2-L sample (time was 1100) which was submitted as an interlab spiked pesticide split to the PA Department of Environmental Protection lab. Concentrations of pesticides and herbicides (in $\mu\text{g/L}$) and calculated recoveries (in percent) for the interlab split are shown in the table below. Less-than values were set equal to zero for calculations; E = estimated value; "<" = less than.

QUALITY-CONTROL DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

		Concentration, in micrograms per liter			
		Laboratory results			
Parameter code	Constituent	Assumed	Spiked Blank	Calculated	Recovery
		for blank water	(05/24/05 @ 1100)	concentration in spiked blank	
		A	B	C	[(B-A)/C] x 100
49260	Acetochlor	<0.006	0.350	.40	88
46342	Alachlor	<0.005	0.390	.40	98
39632	Atrazine	<0.007	0.370	.40	92
38933	Chlorpyrifos	<0.005	0.360	.40	90
39415	Metolachlor	<0.006	0.410	.40	102
82630	Metribuzin	<0.006	0.180	.40	45
82683	Pendimethalin	<0.022	0.240	.40	60
04035	Simazine	<0.005	0.280	.40	70

a Calculated concentration of spike in sample equals the concentration of the spike solution, in micrograms per milliliter x amount of spike added, in milliliters, divided by the spiked sample volume, in liters.

**GROUND-WATER DATA COLLECTED AT SPECIAL-STUDY SITES
GROUND WATER PESTICIDES NETWORK PROJECT**

401435076540910 - QUALITY-ASSURANCE RESULTS FROM SPIKED SAMPLES

REMARKS.--A USGS-certified mixture of pesticides and herbicides was spiked into approximately 3 liters of organic-free blank water June 21, 2005 (times were 1020, 1030, and 1040) to create three 1-L triplicate quality-assurance samples which were submitted to the U.S. Geological Survey National Water Quality Laboratory. These samples are used to determine both precision and accuracy. Concentrations of pesticides and herbicides (in µg/L) and calculated recoveries (in percent) are shown in the table below for estimation of accuracy. Less-than values were set equal to zero for calculations; E = estimated value; "<" = less than.

QUALITY-CONTROL DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005--Continued

Parameter code	Constituent	Concentration, in micrograms per liter			
		Laboratory results		Calculated ^a concentration in spiked blank	Recovery in percent
		Assumed for blank water	Spiked Blank (06/21/05 @ 1020)		
A	B	C	[(B-A)/C] x 100		
49260	Acetochlor	<0.006	0.495	.40	124
46342	Alachlor	<0.005	0.489	.40	122
34253	Alpha HCH	<0.005	0.415	.40	104
39632	Atrazine	<0.007	0.476	.40	119
82673	Benfluralin	<0.010	0.388	.40	97
04028	Butylate	<0.004	0.410	.40	102
82680	Carbaryl	<0.041	E0.482	.40	120
82674	Carbofuran	<0.020	E0.495	.40	124
38933	Chlorpyrifos	<0.005	0.401	.40	100
04041	Cyanazine	<0.018	0.408	.40	102
82682	DCPA (Dacthal)	<0.003	0.482	.40	120
04040	CIAT (Desethyl Atrazine)	<0.006	E0.114	.40	28
62170	Desulfinylfipronil	<0.012	0.552	.40	138
62169	Desulfinylfipronil amide	<0.029	E0.388	.40	97
39572	Diazinon	<0.005	0.408	.40	102
39381	Dieldrin	<0.009	0.318	.40	80
82660	2,6-Diethyl Aniline	<0.006	0.317	.40	79
82677	Disulfoton	<0.021	0.194	.40	48
82668	EPTC	<0.004	0.366	.40	92
82663	Ethalfuralin	<0.009	0.362	.40	90
82672	Ethoprophos	<0.005	0.364	.40	91
62166	Fipronil	<0.016	E0.561	.40	140
62167	Fipronil sulfide	<0.013	0.513	.40	128
62168	Fipronil sulfone	<0.024	0.471	.40	118
04095	Fonofos	<0.003	0.406	.40	102
39341	Lindane	<0.004	0.438	.40	110
82666	Linuron	<0.035	0.242	.40	60
39532	Malathion	<0.027	0.472	.40	118
82686	Methyl Azinphos	<0.050	E0.235	.40	59
82667	Methyl Parathion	<0.015	0.366	.40	92
39415	Metolachlor	<0.006	0.464	.40	116
82630	Metribuzin	<0.006	0.273	.40	68
82671	Molinate	<0.003	0.361	.40	90
82684	Napropamide	<0.007	0.366	.40	92
34653	P, P' DDE	<0.003	0.260	.40	65
39542	Parathion	<0.010	0.502	.40	126
82669	Pebulate	<0.004	0.373	.40	93
82683	Pendimethalin	<0.022	0.369	.40	92
82687	Permethrin, cis	<0.006	0.201	.40	50
82664	Phorate	<0.011	0.214	.40	54
04037	Prometon	<0.010	0.455	.40	114
04024	Propachlor	<0.010	0.436	.40	109
82679	Propanil	<0.011	0.379	.40	95
82685	Propargite	<0.023	0.300	.40	75
82676	Propyzamide	<0.004	0.440	.40	110
04035	Simazine	<0.005	0.448	.40	112
82670	Tebuthiuron	<0.016	0.437	.40	109
82665	Terbacil	<0.034	0.279	.40	70
82675	Terbufos	<0.017	0.329	.40	82
82681	Thiobencarb	<0.010	0.395	.40	99
82678	Triallate	<0.006	0.333	.40	83
82661	Trifluralin	<0.009	0.377	.40	94

^a Calculated concentration of spike in sample equals the concentration of the spike solution, in micrograms per milliliter x amount of spike added, in milliliters, divided by the spiked sample volume, in liters.

**GROUND-WATER DATA COLLECTED AT SPECIAL-STUDY SITES
GROUND WATER PESTICIDES NETWORK PROJECT**

401435076540910 - QUALITY-ASSURANCE RESULTS FROM SPIKED SAMPLES

REMARKS.--A USGS-certified mixture of pesticides and herbicides was spiked into approximately 3 liters of organic-free blank water June 21, 2005 (times were 1020, 1030, and 1040) to create three 1-L triplicate quality-assurance samples which were submitted to the U.S. Geological Survey National Water Quality Laboratory. These samples are used to determine both precision and accuracy. Concentrations of pesticides and herbicides (in µg/L) and calculated recoveries (in percent) are shown in the table below for estimation of accuracy. Less-than values were set equal to zero for calculations; E = estimated value; "<" = less than.

QUALITY-CONTROL DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Parameter code	Constituent	Concentration, in micrograms per liter			
		Laboratory results		Calculated ^a concentration in spiked blank	Recovery in percent
		Assumed for blank water	Spiked Blank (06/21/05 @ 1030)		
A	B	C			
49260	Acetochlor	<0.006	0.462	.40	116
46342	Alachlor	<0.005	0.453	.40	113
34253	Alpha HCH	<0.005	0.405	.40	101
39632	Atrazine	<0.007	0.430	.40	108
82673	Benfluralin	<0.010	0.364	.40	91
04028	Butylate	<0.400	0.402	.40	100
82680	Carbaryl	<0.041	E0.324	.40	81
82674	Carbofuran	<0.020	E0.260	.40	65
38933	Chlorpyrifos	<0.005	0.380	.40	95
04041	Cyanazine	<0.018	0.165	.40	41
82682	DCPA (Dacthal)	<0.003	0.467	.40	117
04040	CIAT (Desethyl Atrazine)	<0.006	E0.046	.40	12
62170	Desulfinylfipronil	<0.012	0.494	.40	124
62169	Desulfinylfipronil amide	<0.029	E0.080	.40	20
39572	Diazinon	<0.005	0.387	.40	97
39381	Dieldrin	<0.009	0.334	.40	84
82660	2,6-Diethyl Aniline	<0.006	0.302	.40	76
82677	Disulfoton	<0.021	0.158	.40	40
82668	EPTC	<0.004	0.354	.40	88
82663	Ethalfuralin	<0.009	0.343	.40	86
82672	Ethoprophos	<0.005	0.362	.40	90
62166	Fipronil	<0.016	E0.454	.40	114
62167	Fipronil sulfide	<0.013	0.434	.40	108
62168	Fipronil sulfone	<0.024	0.392	.40	98
04095	Fonofos	<0.003	0.390	.40	98
39341	Lindane	<0.004	0.418	.40	104
82666	Linuron	<0.035	0.212	.40	53
39532	Malathion	<0.027	0.430	.40	108
82686	Methyl Azinphos	<0.050	E0.193	.40	48
82667	Methyl Parathion	<0.015	0.326	.40	82
39415	Metolachlor	<0.006	0.417	.40	104
82630	Metribuzin	<0.006	0.158	.40	40
82671	Molinate	<0.003	0.358	.40	90
82684	Napropamide	<0.007	0.350	.40	88
34653	P, P' DDE	<0.003	0.264	.40	66
39542	Parathion	<0.010	0.462	.40	116
82669	Pebulate	<0.004	0.362	.40	90
82683	Pendimethalin	<0.022	0.378	.40	94
82687	Permethrin, cis	<0.006	0.199	.40	50
82664	Phorate	<0.011	0.184	.40	46
04037	Prometon	<0.010	0.411	.40	103
04024	Propachlor	<0.010	0.405	.40	101
82679	Propanil	<0.011	0.334	.40	84
82685	Propargite	<0.023	0.278	.40	70
82676	Propyzamide	<0.004	0.412	.40	103
04035	Simazine	<0.005	0.293	.40	73
82670	Tebuthiuron	<0.016	0.246	.40	62
82665	Terbacil	<0.034	E0.135	.40	34
82675	Terbufos	<0.010	0.376	.40	94
82678	Triallate	<0.006	0.314	.40	78
82661	Trifluralin	<0.009	0.367	.40	92

^a Calculated concentration of spike in sample equals the concentration of the spike solution, in micrograms per milliliter x amount of spike added, in milliliters, divided by the spiked sample volume, in liters.

**GROUND-WATER DATA COLLECTED AT SPECIAL-STUDY SITES
GROUND WATER PESTICIDES NETWORK PROJECT**

401435076540910 - QUALITY-ASSURANCE RESULTS FROM SPIKED SAMPLES

REMARKS.--A USGS-certified mixture of pesticides and herbicides was spiked into approximately 3 liters of organic-free blank water June 21, 2005 (times were 1020, 1030, and 1040) to create three 1-L triplicate quality-assurance samples which were submitted to the U.S. Geological Survey National Water Quality Laboratory. These samples are used to determine both precision and accuracy. Concentrations of pesticides and herbicides (in µg/L) and calculated recoveries (in percent) are shown in the table below for estimation of accuracy. Less-than values were set equal to zero for calculations; E = estimated value; "<" = less than.

QUALITY-CONTROL DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Concentration, in micrograms per liter					
Parameter code	Constituent	Laboratory results			Recovery in percent [(B-A)/C] x 100
		Assumed for blank water	Spiked Blank (06/21/05 @ 1040)	Calculated ^a concentration in spiked blank	
		A	B	C	
49260	Acetochlor	<0.006	0.466	.40	116
46342	Alachlor	<0.005	0.464	.40	116
34253	Alpha HCH	<0.005	0.403	.40	100
39632	Atrazine	<0.007	0.442	.40	110
82673	Benfluralin	<0.010	0.360	.40	90
04028	Butylate	<0.004	0.414	.40	104
82680	Carbaryl	<0.041	EO.345	.40	86
82674	Carbofuran	<0.020	EO.265	.40	66
38933	Chlorpyrifos	<0.005	0.388	.40	97
04041	Cyanazine	<0.018	0.182	.40	46
82682	DCPA (Dacthal)	<0.003	0.472	.40	118
04040	CIAT (Desethyl Atrazine)	<0.006	EO.046	.40	12
62170	Desulfinylfipronil	<0.012	0.537	.40	134
62169	Desulfinylfipronil amide	<0.029	EO.090	.40	22
39572	Diazinon	<0.005	0.407	.40	102
39381	Dieldrin	<0.009	0.328	.40	82
82660	2,6-Diethyl Aniline	<0.006	0.314	.40	78
82677	Disulfoton	<0.021	0.176	.40	44
82668	EPTC	<0.004	0.364	.40	91
82663	Ethalfuralin	<0.009	0.356	.40	89
82672	Ethoprophos	<0.005	0.348	.40	87
62166	Fipronil	<0.016	EO.512	.40	128
62167	Fipronil sulfide	<0.013	0.477	.40	118
62168	Fipronil sulfone	<0.024	0.422	.40	106
04095	Fonofos	<0.003	0.397	.40	99
39341	Lindane	<0.004	0.424	.40	106
82666	Linuron	<0.035	0.225	.40	56
39532	Malathion	<0.027	0.434	.40	108
82686	Methyl Azinphos	<0.050	EO.219	.40	55
82667	Methyl Parathion	<0.015	0.338	.40	84
39415	Metolachlor	<0.006	0.436	.40	109
82630	Metribuzin	<0.006	0.169	.40	42
82671	Molinate	<0.003	0.364	.40	91
82684	Napropamide	<0.007	0.365	.40	91
34653	P, P' DDE	<0.003	0.270	.40	68
39542	Parathion	<0.010	0.494	.40	124
82669	Pebulate	<0.004	0.361	.40	90
82683	Pendimethalin	<0.022	0.382	.40	96
82687	Permethrin, cis	<0.006	0.222	.40	56
82664	Phorate	<0.011	0.201	.40	50
04037	Prometon	<0.010	0.427	.40	107
04024	Propachlor	<0.010	0.424	.40	106
82679	Propanil	<0.011	0.352	.40	88
82685	Propargite	<0.023	0.305	.40	76
82676	Propyzamide	<0.004	0.424	.40	106
04035	Simazine	<0.005	0.300	.40	75
82670	Tebuthiuron	<0.016	0.249	.40	62
82665	Terbacil	<0.034	EO.149	.40	37
82675	Terbufos	<0.017	0.338	.40	84
82681	Thiobencarb	<0.010	0.378	.40	94
82678	Triallate	<0.006	0.321	.40	80
82661	Trifluralin	<0.009	0.369	.40	92

^a Calculated concentration of spike in sample equals the concentration of the spike solution, in micrograms per milliliter x amount of spike added, in milliliters, divided by the spiked sample volume, in liters.

**GROUND-WATER DATA COLLECTED AT SPECIAL-STUDY SITES
GROUND WATER PESTICIDES NETWORK PROJECT**

401435076540910 - QUALITY-ASSURANCE RESULTS FROM SPIKED SAMPLES

REMARKS.--A USGS-certified mixture of pesticides and herbicides was spiked into approximately 6 liters of organic-free blank water August 8, 2005 (times 1100, 1105, and 1110) to create three 1-L triplicate quality-assurance samples which were submitted to the U.S. Geological Survey National Water Quality Laboratory and one 2-L sample which was submitted as an interlab spiked pesticide split to the PA Department of Environmental Protection lab. The interlab sample was ruined at the lab and had to be discarded. The triplicate spiked pesticide samples are used to determine both precision and accuracy. Concentrations of pesticides and herbicides (in µg/L) and calculated recoveries (in percent) are shown in the table below for estimation of accuracy. Less-than values were set equal to zero for calculations;
E = estimated value; "<" = less than.

QUALITY-CONTROL DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Parameter code	Constituent	Concentration, in micrograms per liter				
		Laboratory results			Recovery in percent [(B-A)/C] x 100	
		Assumed for blank water A	Spiked Blank (08/08/05 @ 1100) B	Calculated concentration in spiked blank C		a
49260	Acetochlor	<0.006	0.503	.40	126	
46342	Alachlor	<0.005	0.478	.40	119	
34253	Alpha HCH	<0.005	0.490	.40	122	
39632	Atrazine	<0.007	0.476	.40	119	
82673	Benfluralin	<0.010	0.261	.40	65	
04028	Butylate	<0.004	0.418	.40	104	
82680	Carbaryl	<0.041	EO.280	.40	70	
82674	Carbofuran	<0.020	EO.304	.40	76	
38933	Chlorpyrifos	<0.005	0.448	.40	112	
04041	Cyanazine	<0.018	0.401	.40	100	
82682	D CPA (Dacthal)	<0.003	0.513	.40	128	
04040	CIAT (Desethyl Atrazine)	<0.006	EO.110	.40	27	
62170	Desulfinylfipronil	<0.012	0.462	.40	115	
62169	Desulfinylfipronil amide	<0.029	EO.221	.40	55	
39572	Diazinon	<0.005	0.494	.40	123	
39381	Dieldrin	<0.009	0.516	.40	129	
82660	2,6-Diethyl Aniline	<0.006	0.323	.40	81	
82677	Disulfoton	<0.021	EO.244	.40	61	
82668	EPTC	<0.004	0.369	.40	92	
82663	Ethalfururalin	<0.009	0.252	.40	63	
82672	Ethoprophos	<0.005	0.353	.40	88	
62166	Fipronil	<0.016	EO.314	.40	78	
62167	Fipronil sulfide	<0.013	0.432	.40	108	
62168	Fipronil sulfone	<0.024	0.282	.40	70	
04095	Fonofos	<0.003	0.503	.40	126	
39341	Lindane	<0.004	0.490	.40	122	
82666	Linuron	<0.035	EO.618	.40	154	
39532	Malathion	<0.027	0.375	.40	94	
82686	Methyl Azinphos	<0.050	EO.251	.40	63	
82667	Methyl Parathion	<0.015	0.414	.40	103	
39415	Metolachlor	<0.006	0.477	.40	119	
82630	Metribuzin	<0.006	0.253	.40	63	
82671	Molinate	<0.003	0.392	.40	98	
82684	Napropamide	<0.007	0.453	.40	113	
34653	P, P' DDE	<0.003	0.225	.40	56	
39542	Parathion	<0.010	0.421	.40	105	
82669	Pebulate	<0.004	0.382	.40	95	
82683	Pendimethalin	<0.022	0.278	.40	69	
82687	Permethrin, cis	<0.006	0.149	.40	37	
82664	Phorate	<0.011	0.284	.40	71	
04037	Prometon	<0.010	0.380	.40	95	
04024	Propachlor	<0.010	0.454	.40	113	
82679	Propanil	<0.011	0.432	.40	108	
82685	Propargite	<0.023	0.250	.40	62	
82676	Propyzamide	<0.004	0.450	.40	112	
04035	Simazine	<0.016	0.406	.40	101	
82665	Terbacil	<0.034	EO.166	.40	41	
82675	Terbufos	<0.017	0.296	.40	74	
82681	Thiobencarb	<0.010	0.514	.40	128	
82678	Triallate	<0.006	0.481	.40	120	
82661	Trifluralin	<0.009	0.260	.40	65	

a Calculated concentration of spike in sample equals the concentration of the spike solution, in micrograms per milliliter x amount of spike added, in milliliters, divided by the spiked sample volume, in liters.

**GROUND-WATER DATA COLLECTED AT SPECIAL-STUDY SITES
GROUND WATER PESTICIDES NETWORK PROJECT**

401435076540910 - QUALITY-ASSURANCE RESULTS FROM SPIKED SAMPLES

REMARKS.--A USGS-certified mixture of pesticides and herbicides was spiked into approximately 6 liters of organic-free blank water August 8, 2005 (times 1100, 1105, and 1110) to create three 1-L triplicate quality-assurance samples which were submitted to the U.S. Geological Survey National Water Quality Laboratory and one 2-L sample which was submitted as an interlab spiked pesticide split to the PA Department of Environmental Protection lab. The interlab sample was ruined at the lab and had to be discarded. The triplicate spiked pesticide samples are used to determine both precision and accuracy. Concentrations of pesticides and herbicides (in µg/L) and calculated recoveries (in percent) are shown in the table below for estimation of accuracy. Less-than values were set equal to zero for calculations;
E = estimated value; "<" = less than.

QUALITY-CONTROL DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Parameter code	Constituent	Concentration, in micrograms per liter			
		Laboratory results		Calculated concentration in spiked blank	Recovery in percent
		Assumed for blank water	Spiked Blank (08/08/05 @ 1105)		
A	B	C	[(B-A)/C] x 100		
49260	Acetochlor	<0.006	0.506	.40	126
46342	Alachlor	<0.005	0.477	.40	119
34253	Alpha HCH	<0.005	0.491	.40	123
39632	Atrazine	<0.007	0.468	.40	117
82673	Benfluralin	<0.010	0.277	.40	69
04028	Butylate	<0.004	0.419	.40	105
82680	Carbaryl	<0.041	EO.226	.40	56
82674	Carbofuran	<0.020	EO.259	.40	65
38933	Chlorpyrifos	<0.005	0.446	.40	111
04041	Cyanazine	<0.018	0.341	.40	85
82682	DCPA (Dacthal)	<0.003	0.513	.40	128
04040	CIAT (Desethyl Atrazine)	<0.006	EO.080	.40	20
62170	Desulfinylfipronil	<0.012	0.474	.40	118
62169	Desulfinylfipronil amide	<0.029	EO.177	.40	44
39572	Diazinon	<0.005	0.502	.40	125
39381	Dieldrin	<0.009	0.560	.40	140
82660	2,6-Diethyl Aniline	<0.006	0.347	.40	87
82677	Disulfoton	<0.021	EO.292	.40	73
82668	EPTC	<0.004	0.364	.40	91
82663	Ethalfuralin	<0.009	0.262	.40	65
82672	Ethoprophos	<0.005	0.350	.40	87
62166	Fipronil	<0.016	EO.311	.40	78
62167	Fipronil sulfide	<0.013	0.444	.40	111
62168	Fipronil sulfone	<0.024	0.304	.40	76
04095	Fonofos	<0.003	0.506	.40	126
39341	Lindane	<0.004	0.496	.40	124
82666	Linuron	<0.035	EO.590	.40	147
39532	Malathion	<0.027	0.366	.40	91
82686	Methyl Azinphos	<0.050	EO.233	.40	58
82667	Methyl Parathion	<0.015	0.394	.40	98
39415	Metolachlor	<0.006	0.476	.40	119
82630	Metribuzin	<0.006	0.198	.40	49
82671	Molinate	<0.003	0.392	.40	98
82684	Napropamide	<0.007	0.477	.40	119
34653	P, P' DDE	<0.003	0.240	.40	60
39542	Parathion	<0.010	0.410	.40	102
82669	Pebulate	<0.004	0.385	.40	96
82683	Pendimethalin	<0.022	0.293	.40	73
82687	Permethrin, cis	<0.006	0.159	.40	40
82664	Phorate	<0.011	0.324	.40	81
04037	Prometon	<0.010	0.388	.40	97
04024	Propachlor	<0.010	0.428	.40	107
82679	Propanil	<0.011	0.414	.40	103
82685	Propargite	<0.023	0.279	.40	70
82676	Propyzamide	<0.004	0.446	.40	111
04035	Simazine	<0.005	0.382	.40	95
82670	Tebuthiuron	<0.016	0.356	.40	89
82665	Terbacil	<0.034	EO.116	.40	29
82675	Terbufos	<0.017	0.294	.40	73
82681	Thiobencarb	<0.010	0.505	.40	126
82678	Triallate	<0.006	0.483	.40	121
82661	Trifluralin	<0.009	0.272	.40	68

^a Calculated concentration of spike in sample equals the concentration of the spike solution, in micrograms per milliliter x amount of spike added, in milliliters, divided by the spiked sample volume, in liters.

**GROUND-WATER DATA COLLECTED AT SPECIAL-STUDY SITES
GROUND WATER PESTICIDES NETWORK PROJECT**

401435076540910 - QUALITY-ASSURANCE RESULTS FROM SPIKED SAMPLES

REMARKS.--A commercially-available and USGS-certified mixture of pesticides and herbicides was spiked into approximately 3 liters of organic-free blank water August 8, 2005 to create three 1-L triplicate quality-assurance samples which were submitted to the U.S. Geological Survey National Water Quality Laboratory. These samples are used to determine both precision and accuracy. Concentrations of pesticides and herbicides (in µg/L) and calculated recoveries (in percent) are shown in the table below for estimation of accuracy. Less-than values were set equal to zero for calculations; E = estimated value; "<" = less than.

QUALITY-CONTROL DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Parameter code	Constituent	Concentration, in micrograms per liter			
		Assumed for blank water	Laboratory results		Recovery in percent
			Spiked Blank (08/08/05 @ 1110)	Calculated ^a concentration in spiked blank	
A	B	C			
49260	Acetochlor	<0.006	0.544	.40	136
46342	Alachlor	<0.005	0.506	.40	126
34253	Alpha HCH	<0.005	0.507	.40	127
39632	Atrazine	<0.007	0.493	.40	123
82673	Benfluralin	<0.010	0.281	.40	70
04028	Butylate	<0.004	0.428	.40	107
82680	Carbaryl	<0.041	E0.274	.40	68
82674	Carbofuran	<0.020	E0.312	.40	78
38933	Chlorpyrifos	<0.005	0.475	.40	119
04041	Cyanazine	<0.018	0.407	.40	102
82682	DCPA (Dacthal)	<0.003	0.532	.40	133
04040	CIAT (Desethyl Atrazine)	<0.006	E0.106	.40	26
62170	Desulfinylfipronil	<0.012	0.493	.40	123
62169	Desulfinylfipronil amide	<0.029	E0.221	.40	55
39572	Diazinon	<0.005	0.513	.40	128
39381	Dieldrin	<0.009	0.540	.40	135
82660	2,6-Diethyl Aniline	<0.006	0.342	.40	85
82677	Disulfoton	<0.021	E0.278	.40	69
82668	EPTC	<0.004	0.380	.40	95
82663	Ethalfuralin	<0.009	0.272	.40	68
82672	Ethoprophos	<0.005	0.368	.40	92
62166	Fipronil	<0.016	E0.339	.40	85
62167	Fipronil sulfide	<0.013	0.465	.40	116
62168	Fipronil sulfone	<0.024	0.310	.40	77
04095	Fonofos	<0.003	0.524	.40	131
39341	Lindane	<0.004	0.511	.40	128
82666	Linuron	<0.035	E0.655	.40	164
39532	Malathion	<0.027	0.395	.40	99
82686	Methyl Azinphos	<0.050	E0.263	.40	66
82667	Methyl Parathion	<0.015	0.440	.40	110
39415	Metolachlor	<0.006	0.500	.40	125
82630	Metribuzin	<0.006	0.267	.40	67
82671	Molinate	<0.003	0.402	.40	100
82684	Napropamide	<0.007	0.481	.40	120
34653	P, P' DDE	<0.003	0.235	.40	59
39542	Parathion	<0.010	0.453	.40	113
82669	Pebulate	<0.004	0.395	.40	99
82683	Pendimethalin	<0.022	0.306	.40	76
82687	Permethrin, cis	<0.006	0.162	.40	40
82664	Phorate	<0.011	0.311	.40	78
04037	Prometon	<0.010	0.405	.40	101
04024	Propachlor	<0.010	0.445	.40	111
82679	Propanil	<0.011	0.444	.40	111
82685	Propargite	<0.023	0.271	.40	68
82676	Propyzamide	<0.004	0.471	.40	118
04035	Simazine	<0.005	0.430	.40	107
82670	Tebuthiuron	<0.016	0.401	.40	100
82665	Terbacil	<0.034	E0.172	.40	43
82675	Terbufos	<0.017	0.310	.40	77
82681	Thiobencarb	<0.010	0.536	.40	134
82678	Triallate	<0.006	0.504	.40	126
82661	Trifluralin	<0.009	0.278	.40	69

^a Calculated concentration of spike in sample equals the concentration of the spike solution, in micrograms per milliliter x amount of spike added, in milliliters, divided by the spiked sample volume, in liters.

**GROUND-WATER DATA COLLECTED AT SPECIAL-STUDY SITES
GROUND WATER PESTICIDES NETWORK PROJECT**

401435076540910 - QUALITY-ASSURANCE RESULTS FROM SPIKED SAMPLES

REMARKS.--A commercially-available anion solution (including nitrate-N and nitrite-N) of known concentration was spiked into 1-L of inorganic blank water. Three triplicate spiked samples (August 8, 2005 at 0850, 0900, and 0910) were submitted for analysis to the Pennsylvania Department of Environmental Protection Laboratory for estimates of precision and accuracy. One interlab sample (time = 0920) was submitted to the USGS NWQL. Concentrations of analytes in blank water were assumed to be less than the reporting limits for purposes of calculations. Concentrations of nitrate-N and nitrite-N (in mg/L) and calculated recoveries (in percent) are shown in the table below for estimations of accuracy. Less-than values were set equal to zero for calculations; "<" = less than.

QUALITY-CONTROL DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Sample Time	Concentration, in milligrams per liter									
	Laboratory results									
	Assumed Concentration of Blank			Spiked Blank			Calculated ^a concentration in spiked blank		Recovery in percent	
	Nitrate	Nitrite	Nitrate + Nitrite-N	Nitrate-N	Nitrite-N	Nitrate-N	Nitrite-N	Nitrate-N	Nitrite-N	[(B-A)/C] x 100
A	A	B	B	B	C	C				
0850	<0.04	<0.01	9.82	7.91	1.91	8.68	1.83	91	104	
0900	<0.04	<0.01	9.96	8.02	1.94	8.68	1.83	92	106	
0910	<0.04	<0.01	9.78	7.87	1.91	8.68	1.83	91	104	
	Nitrate + nitrite									
0920	<0.06	<0.008	10.38	8.59	1.80	8.68	1.83	99	98	

a Calculated concentration of spike in sample equals the concentration of the spike solution, in micrograms per milliliter x amount of spike added, in milliliters, divided by the spiked sample volume, in liters

Using the results from these spiked triplicate samples (times 0850, 0900, and 0910), the Relative Standard Deviation (RSD), otherwise known as the coefficient of variation, was calculated as a measure of precision using the following formula:

RSD = standard deviation of triplicate results divided by the mean concentration of the triplicate results

RSD Nitrate-N = 0.01 mg/L
RSD Nitrite-N = 0.01 mg/L

401435076540910 - QUALITY-ASSURANCE RESULTS FROM REFERENCE MATERIAL

REMARKS.--A U.S. Geological Survey Nutrient Standard Reference Water Sample (SRWS) N86 was submitted to the Pennsylvania Department of Environmental Protection, Bureau of Laboratories, on June 21, 2005 for estimation of accuracy. Blank water concentration is assumed to be less than the reporting limits for purpose of calculation. The concentrations of nitrate-N (in mg/L) and nitrite-N (in mg/L) and the calculated recoveries (in percent) are shown in the table below for estimation of accuracy. Less-than values were set equal to zero for calculation; "<" = less than; "mg/L" = milligrams per liter.

QUALITY-CONTROL DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Constituent	Concentration, in milligrams per liter				
	Laboratory results				
	Assumed Concentration of Blank	Reported Value of	Prepared Sample	Recovery	
	Nitrate	Nitrate in SRWS	Value of Nitrate in SRWS	in percent	
A	B	C	[(B-A)/C] x 100		
Nitrate-N	<0.04	0.62	0.637	97	
Nitrite-N	<0.01	0.06	0.054	111	

**GROUND-WATER DATA COLLECTED AT SPECIAL-STUDY SITES
GROUND WATER PESTICIDES NETWORK PROJECT**

401435076540910 - QUALITY-ASSURANCE RESULTS FROM PESTICIDE-SPIKED SAMPLES

Analyte	Percent Relative Standard Deviation of Pesticide Recoveries, by Date of Triplicate Spike			Median Percent Recovery	Analyte	Percent Relative Standard Deviation of Pesticide Recoveries, by Date of Triplicate Spike			Median Percent Recovery
	May 24, 2005	June 21, 2005	Aug. 8, 2005			May 24, 2005	June 21, 2005	Aug. 8, 2005	
Alpha-HC	8.8	2.0	2.1	104	Parathion-methyl	14	6.2	5.8	98
Acetochlor	13	3.9	4.5	124	Metolachlor	15	5.5	2.9	116
Alachlor	14	3.9	3.3	119	Metribuzin	12	31	16	52
2,6 -Diethylaniline	17	2.0	3.6	78	Molinate	5.6	0.6	1.2	91
Atrazine	1.9	5.2	2.6	113	Napropamide	40	2.3	3.2	92
Desethyl atrazine (currently CIAT {2-chloro-4-isopropylamino-6-amino-s-triazine})	20	53	16	20	p,p'-DDE	21	2.3	3.6	60
Azinphos-methyl	7.2	10	6.5	55	Parathion	13	4.3	5.3	116
Benfluralin	13	4.1	3.9	78	Pebulate	6.7	1.9	2.2	93
Butylate	9.4	2.0	1.5	102	Pendimethalin	18	2.1	4.8	76
Carbaryl	17	22	12	70	Phorate	18	8.0	6.7	52
Carbofuran	14	40	9.6	72	Prometon	7.7	5.2	3.1	101
Chlorpyrifos	5.7	2.6	3.8	97	Propyzamide	9.9	3.3	3.3	106
cis-Permethrin	19	6.7	4.4	40	Propachlor	7.4	3.8	2.8	106
Cyanazine	2.1	54	9.7	94	Propanil	5.3	6.3	3.8	93
Dacthal (DCPA)	11	1.3	2.2	128	Propargite	8.8	4.4	6.2	70
Desulfinylfipronil	13	5.5	3.4	124	Simazine	2.2	25	6.1	97
Desulfinylfipronil amide	5.9	95	12	55	Tebuthiuron	2.8	35	6.9	93
Diazinon	14	2.9	2.0	102	Terbacil	17	42	20	37
Diazinon-d10 (surrogate)	--	--	--	--	Terbufos	4.2	3.1	2.8	74
Dieldrin	44	2.4	4.1	84	Thiobencarb	3.1	3.0	3.2	116
Disulfoton	20	9.1	9.0	44	Triallate	12	3.1	2.6	83
EPTC	6.8	2.3	2.2	91	Trifluralin	5.5	1.2	3.1	70
Ethalfuralin	5.7	2.4	3.9	74					
Ethoprophos	9.1	2.3	3.0	88					
Fipronil	19	10	5.0	114					
Fipronil sulfide	18	8.5	3.6	116					
Fipronil sulfone	3.8	9.4	5.1	87					
Fonofos	2.4	2.1	2.3	102					
alpha-HCH-d6 (surrogate)	--	--	--	--					
Lindane	7.8	2.9	2.5	110					
Linuron	13	6.2	5.5	68					
Malathion	5.6	5.2	4.3	101					

**GROUND-WATER DATA COLLECTED AT SPECIAL-STUDY SITES
GROUND WATER PESTICIDES NETWORK PROJECT**

402122077131601 - PE 686 - QUALITY-ASSURANCE RESULTS FROM REPLICATE SAMPLES

REMARKS.--Replicate nitrate and samples were submitted June 8, 2005 to the Pennsylvania Department of Environmental Protection Laboratory for estimation of precision in results.

OCTOBER 2004 TO SEPTEMBER 2005

Concentration, in milligrams per liter

Laboratory results

Sample Time	Nitrate-N	Nitrite-N
0840	1.24	0.03
0841	1.26	0.03
0842	1.24	0.03

Using the results from triplicate samples, the Relative Standard Deviation (RSD), otherwise known as the coefficient of variation, was calculated using the following formula:

RSD = standard deviation of triplicate results divided by the mean concentration of the triplicate results

RSD Nitrate-N = 0.001 mg/L
RSD Nitrite-N = 0.0 mg/L

410604076493401 - NU 570 - QUALITY-ASSURANCE RESULTS FROM REPLICATE SAMPLES

REMARKS.--Replicate nitrate and nitrite samples were submitted June 21, 2005 to the Pennsylvania Department of Environmental Protection Laboratory for estimation of precision in results.

OCTOBER 2004 TO SEPTEMBER 2005

Concentration, in milligrams per liter

Laboratory results

Sample Time	Nitrate-N	Nitrite-N
0945	4.10	<0.01
0946	3.99	<0.01
0947	3.79	<0.01

Using the results from triplicate samples, the Relative Standard Deviation (RSD), otherwise known as the coefficient of variation, was calculated using the following formula:

RSD = standard deviation of triplicate results divided by the mean concentration of the triplicate results

RSD Nitrate-N = 0.04 mg/L
RSD Nitrite-N = 0.0 mg/L

**GROUND-WATER DATA COLLECTED AT SPECIAL-STUDY SITES
GROUND WATER PESTICIDES NETWORK PROJECT**

405931076555601 - UN 205 - QUALITY-ASSURANCE RESULTS FROM REPLICATE SAMPLES

REMARKS.--Replicate samples of total coliform and *E. coli* bacteria were submitted June 21, 2005 to the Pennsylvania Department of Environmental Protection Laboratory for estimation of precision in results.

OCTOBER 2004 TO SEPTEMBER 2005

Most Probable Number per 100 Milliliters			Number of Bacteria			
Sample Time	Laboratory results		Colilert tray method variability			
	Total coliform	<i>E. coli</i>	Total coliform 95% confidence limits		<i>E. coli</i> limits	
			Lower	Upper	Lower	Upper
1130	3	0	1	9	0	4
1131	1	0	<1	6	0	4
1132	2	0	1	7	0	4

Using the results from triplicate samples, the Relative Standard Deviation (RSD), otherwise known as the coefficient of variation, was calculated using the following formula:

RSD = standard deviation of triplicate results divided by the mean most probable number of the triplicate results

RSD Total Coliform = 0.5 MPN colonies
RSD *E. coli* = 0.0 MPN colonies

394703078102101 - FU 250 - QUALITY-ASSURANCE RESULTS FROM REPLICATE SAMPLES

REMARKS.--Replicate samples of total coliform and *E. coli* bacteria were submitted August 2, 2005 to the Pennsylvania Department of Environmental Protection Laboratory for estimation of precision in results.

OCTOBER 2004 TO SEPTEMBER 2005

Most Probable Number per 100 Milliliters			Number of Bacteria			
Sample Time	Laboratory results		Colilert tray method variability			
	Total coliform	<i>E. coli</i>	Total coliform 95% confidence limits		<i>E. coli</i> limits	
			Lower	Upper	Lower	Upper
0820	6	0	3	14	0	4
0821	1	0	<1	6	0	4
0822	3	0	1	9	0	4

Using the results from triplicate samples, the Relative Standard Deviation (RSD), otherwise known as the coefficient of variation, was calculated using the following formula:

RSD = standard deviation of triplicate results divided by the mean most probable number of the triplicate results

RSD Total Coliform = 0.75 MPN colonies
RSD *E. coli* = 0.0 MPN colonies

**GROUND-WATER DATA COLLECTED AT SPECIAL-STUDY SITES
GROUND WATER PESTICIDES NETWORK PROJECT**

403959077311101 - MF 407 - QUALITY-ASSURANCE RESULTS FROM REPLICATE SAMPLES

REMARKS.--Replicate samples (times = 1050, 1051, and 1052) of total coliform and *E. coli* bacteria were submitted August 15, 2005 to the Pennsylvania Department of Environmental Protection Laboratory for estimation of precision in results. An interlab sample (time = 1053) was also submitted to the USGS Ohio Microbiology Laboratory.

OCTOBER 2004 TO SEPTEMBER 2005

Sample Time	Most Probable Number per 100 Milliliters		Number of Bacteria			
	Laboratory results		Colilert tray method variability			
	Total coliform	<i>E. coli</i>	Total coliform 95% confidence limits		<i>E. coli</i> 95% confidence limits	
			Lower	Upper	Lower	Upper
1050	1	0	<1	6	0	4
1051	1	0	<1	6	0	4
1052	1	0	<1	6	0	4
1053	0	0	0	4	0	4

Using the results from triplicate samples (times 1050, 1051, and 1052), the Relative Standard Deviation (RSD), otherwise known as the coefficient of variation, was calculated using the following formula:

RSD = standard deviation of triplicate results divided by the mean most probable number of the triplicate results

RSD Total Coliform = 0.0 MPN colonies
RSD *E. coli* = 0.0 MPN colonies

401724078195801 - BA 437 - QUALITY-ASSURANCE RESULTS FROM REPLICATE SAMPLES

REMARKS.--Replicate samples (times = 0940, 0950, and 0955) of total coliform and *E. coli* bacteria were submitted September 7, 2005 to the Pennsylvania Department of Environmental Protection Laboratory for estimation of precision in results. An interlab sample (time = 0945) was also submitted to the USGS Ohio Microbiology Laboratory.

OCTOBER 2004 TO SEPTEMBER 2005

Sample Time	Most Probable Number per 100 Milliliters		Number of Bacteria			
	Laboratory results		Colilert tray method variability			
	Total coliform	<i>E. coli</i>	Total coliform 95% confidence limits		<i>E. coli</i> 95% confidence limits	
			Lower	Upper	Lower	Upper
0940	200	2	136	388	1	7
0950	130	3	93	195	1	9
0955	200	0	136	388	0	4
0945	198	1	136	388	<1	6

Using the results from triplicate samples (times = 0940, 0950, 0955), the Relative Standard Deviation (RSD), otherwise known as the coefficient of variation, was calculated using the following formula:

RSD = standard deviation of triplicate results divided by the mean most probable number of the triplicate results

RSD Total Coliform = 0.23 MPN colonies
RSD *E. coli* = 0.92 MPN colonies

**GROUND-WATER DATA COLLECTED AT SPECIAL-STUDY SITES
GROUND WATER PESTICIDES NETWORK PROJECT**

QUALITY-ASSURANCE RESULTS FROM BACTERIA INTERLAB-SEQUENTIAL DUPLICATE SAMPLES

REMARKS.-- Twelve total coliform and *E. coli* bacteria-interlab-duplicate samples were submitted to the Pennsylvania Department of Agriculture (PDA) Microbiology lab for comparison of results with those obtained from the Pennsylvania Department of Environmental Protection laboratory (PADEP). MPN = Most Probable Number.

Local Well No.	Station ID	Date and Time of Sample Collection	Total Coliform, MPN per 100 mL		<i>E. coli</i> , MPN per 100 mL	
			PADEP	PDA	PADEP	PDA
BD-656	394938078383901	08/01/05 @ 1020	<1	<1	<1	<1
BD-253	400351078324401	08/01/05 @ 1325	450	>200.5	3	2
FU-250	394703078102102	08/02/05 @ 0820	6	4.2	<1	<1
MF-406	402539077511701	08/02/05 @ 1250	5	8.7	<1	<1
HU-428	401139078002001	08/02/05 @ 1040	200	>200.5	14	4.2
JU-373	403801077153701	08/08/05 @ 1035	95	59	<1	<1
CN-430	410955077190201	08/09/05 @ 1045	<1	11	<1	<1
LY-688	411319076452401	08/09/05 @ 1355	1	1	<1	<1
CN-154	410529077315501	08/10/05 @ 1105	200	>200	<1	<1
PE-850	402223077282501	08/31/05 @ 0945	18	25	<1	2
BD-373	394744078435401	08/31/05 @ 1500	74	66	2	1
BA-437	401724078195801	09/07/05 @ 0940	200	83	2	<1

QUALITY-ASSURANCE RESULTS FROM PESTICIDE INTERLAB-SEQUENTIAL DUPLICATE SAMPLES

REMARKS.-- Two sets of pesticide interlab-sequential duplicates were submitted to the the USGS National Water Quality Lab (NWQL) in Denver, CO and the USGS Organic Geochemistry Research Laboratory (OGRL) in Lawrence, KS on September 7, 2005 for comparison of results.

Site ID: 401724078195801 (BA 437)		
9/7/05 at 0940 (NWQL) and 0930 (OGRL)		
Pesticide	USGS NWQL	USGS OGRL
	Concentration in µg/L	Concentration in µg/L
Triazine Parents		
Atrazine	0.917	0.51
Cyanazine	E0.084	0.08
Prometon	0.265	0.19
Simazine	0.110	0.09
Triazine Degradation Product		
Deethylatrazine (DEA); also known as CIAT	E0.121	0.27
Phenylurea Parent		
Linuron	<0.035	<0.20
Acetamide Parents		
Acetochlor	<0.006	<0.02
Alachlor	0.397	0.36
Metolachlor	E22.5	20
Propachlor	<0.025	<0.02

Site ID: 401832078191901 (BA 332)		
9/7/05 at 1450 (NWQL) and 1500 (OGRL)		
Pesticide	USGS NWQL	USGS OGRL
	Concentration in µg/L	Concentration in µg/L
Triazine Parents		
Atrazine	0.071	<0.025
Cyanazine	<0.018	<0.025
Prometon	0.023	0.03
Simazine	0.009	<0.025
Triazine Degradation Product		
Deethylatrazine (DEA); also known as CIAT	E0.063	0.12
Phenylurea Parent		
Linuron	<0.035	<0.20
Acetamide Parents		
Acetochlor	<0.006	<0.02
Alachlor	<0.005	<0.02
Metolachlor	E0.005	0.14
Propachlor	<0.025	<0.02