Table 1. Sampled well identification, construction information, lithologic description and location

Well Name	Well Sampling Identification	DEQ Site Identification	Depth of Well[2] (ft)	Depth to Static Water Level[2] (ft)	Depth to Screened / Perforated Interval[2] (ft)	Lithologic Description	Location		
							Township	Range	Section
Alpine Water System	ALPWS	2194	348	262	331-348	Gravel	53N	04W	26
City of Athol #2	ATH2	2195	342	410	390-410	Gravel & Boulders	53N	03W	9
Bitterroot Water System	BTRE	2196	470	344	440-460	Sand & Gravel	53N	03W	29
City of Coeur d'Alene 4th St. Well	C4SW	2197	226	181	196-226	Sand	50N	04W	1
City of Coeur d'Alene Honeysuckle Well	CHOW	2198	300	191	218-271	Sand & Gravel	51N	04W	36
Chilco Service Area	CHSA	2199	147	90	130-145	Gravel	52N	03W	7
City of Coeur d'Alene Landings Well	CLAW	2200	410	282	345-395	Sand, Gravel & Cobbles	51N	04W	28
Diamond Bar Estates	DIBE	2201	373	298	342-373	Sand & Gravel	51N	04W	3
East Seasons Acres	EASA	2202	585	530	565-575	Sand & Gravel	53N	04W	28
East Green Acres Well Field #1[1]	EGA#1	2203	255	172	220-250	Sand & Gravel	51N	05W	28
East Green Acres Well Field #2 (Well #2E)	EGA#2	2204	330	183	298-349	Sand & Gravel	51N	05W	22
Farragut State Park Well #3	FSP#3	2205	361	243	265-355	Gravel	53N	02W	5
Farragut State Park Well #9	FSP#9	2206	357	246	210-350	Sand, Gravel & Boulders	53N	02W	4
Hayden Well #2	HAY2	2207	275	37	255-275	Unknown	51N	04W	23
Hauser Lake Water Assoc. #1	HLWA#1	2208	213	208	188-208	Sand & Gravel	51N	05W	19
Happy Valley Water System	HVWS	2209	297	260	281-296	Sand & Gravel	51N	04W	17
Highway 54 Office	HWY54	2210	460	423	455-467	Clay, Sand & Gravel	53N	03W	12
L.A. Aluminum Well	LAAW	2211	343	298	323-333	Sand & Gravel	51N	04W	15
Meadow Land Acres	MDLA	2212	303	225	280-300	Gravel	51N	05W	23
Mountain View Terrace #1	MVT#1	2213	158	118	Unknown	Unknown	51N	05W	32
Ohio Match Estates	OHMA	2214	245	138	215-231	Basalt	52N	3W	18
City of Post Falls #6	PF#6	2215	315	198	255-305	Sand & Gravel	50N	05W	2
City of Post Falls #9	PF#9	2216	294	150	250-290	Sand & Gravel	50N	06W	1
City of Post Falls -South Park	PFSP	2217	35	17	35	Unknown	50N	5W	10
Ramsey Estates	RAES	2218	377	315	328-348	Sand & Gravel	52N	04W	11
City of Rathdrum-Grange Well	RATHG	2219	250	187	207-222	Sand & Gravel	52N	04W	32
Ross Point Syringa	RPSY#1	2220	231	181	231	Sand & Gravel	50N	05W	1
City of Spirit Lake #4	SL#4	2221	632	547	606-626	Sand, Gravel & Boulders	53N	04W	5
Twin Lakes Service Area	TWLS	2222	343	298	325-342	Gravel	52N	04W	17
USFS Nursery Well	USFS Nur	2223	365	253	Unknown	Clay, Sand & Gravel	51N	04W	34

[1] Water samples obtained from manifold supplied by all six wells in well field #1. Well construction information is for provided for Well #1C and is considered typical for all the wells on site.

[2] Depth relative to ground surface

Table 2. Inorganic constituents sampled.

Constituent	Analysis Method	Minimum Reporting Limit (milligrams/liter)
Calcium (Ca)	EPA 200.7	0.5
Sodium (Na)	EPA 200.7	0.5
Magnesium (Mg)	EPA 200.7	0.1
Potassium (K)	EPA 200.7	2.0
Bicarbonate (HCO_3)	EPA SM 2320 B	2.0
Chloride (Cl)	EPA 300.0	0.2
Sulfate (SO_4)	EPA 300.0	0.2
Bromide (Br)	EPA 26A	0.1
Nitrate (NO_3)	EPA 300.0	0.1
Arsenic (As)	EPA 200.7	0.0
Dissolved Organic Carbon (DOC)	EPA 415.1	0.5

Table 3. Organic constituents sampled.

Constituents	Analysis Method	Minimum Reporting Limit (milligrams/liter)
Volatile Organic Compounds—EPA Regulated		
t-1,2-Dichloroethylene	EPA 8260B	0.005
1,2-Dichloroethane	EPA 8260B	0.005
1,2-Dichloropropane	EPA 8260B	0.005
o-Dichlorobenzene	EPA 8260B	0.005
c-1,2-Dichloroethylene	EPA 8260B	0.005
Chloroform	EPA 8260B	0.005
Vinyl chloride	EPA 8260B	0.005
Bromoform	EPA 8260B	0.005
1,1,1-Trichloroethane	EPA 8260B	0.005
p-Dichlorobenzene	EPA 8260B	0.005
Dichloromethane	EPA 8260B	0.005
Ethylbenzene	EPA 8260B	0.005
Benzene	EPA 8260B	0.005
Total Trihalomethanes	EPA 8260B	0.005
Dibromochloromethane	EPA 8260B	0.005
Xylenes	EPA 8260B	0.005
1,1-Dichloroethylene	EPA 8260B	0.005
1,2,4-Trichlorobenzene	EPA 8260B	0.005
Monochlorobenzene	EPA 8260B	0.005

Constituents	Analysis Method	Minimum Reporting Limit (milligrams/liter)
Styrene	EPA 8260B	0.005
Tetrachloroethylene	EPA 8260B	0.005
Carbon tetrachloride	EPA 8260B	0.005
Bromodichloromethane	EPA 8260B	0.005
Trichloroethylene	EPA 8260B	0.005
Toluene	EPA 8260B	0.005
1,1,2-Trichloroethane	EPA 8260B	0.005
Volatile Organic Compounds—EPA Unregulated		
Bromobenzene	EPA 8260B	0.005
Bromochloromethane	EPA 8260B	0.005
Bromomethane	EPA 8260B	0.005
s-Butylbenzene	EPA 8260B	0.005
t-Butylbenzene	EPA 8260B	0.005
Chloroethane	EPA 8260B	0.005
o-Chlorotoluene	EPA 8260B	0.005
1,2,4-Trimethylbenzene	EPA 8260B	0.005
1,3,5-Trimethylbenzene	EPA 8260B	0.005
n-Butylbenzene	EPA 8260B	0.005
n-Propylbenzene	EPA 8260B	0.005
1,1,1,2-Tetrachloroethane	EPA 8260B	0.005
p-Chlorotoluene	EPA 8260B	0.005
Dibromomethane	EPA 8260B	0.005
m-Dichlorobenzene	EPA 8260B	0.005
Dichlorodi-fluoromethane	EPA 8260B	0.005
1,3-Dichloropropane	EPA 8260B	0.005
1,1,2,2-Tetrachloroethane	EPA 8260B	0.005
Hexachlorobutadiene	EPA 8260B	0.005
1,2,3-Trichlorobenzene	EPA 8260B	0.005
Trichloro-fluoromethane	EPA 8260B	0.005
1,2,3-Trichloropropane	EPA 8260B	0.005
1,1-Dichloroethane	EPA 8260B	0.005
1,3-Dichloropropene	EPA 8260B	0.005
2,2-Dichloropropane	EPA 8260B	0.005
1,1-Dichloropropene	EPA 8260B	0.005
p-Isopropyltoluene	EPA 8260B	0.005
Isopropylbenzene	EPA 8260B	0.005
Naphthalene	EPA 8260B	0.005

Constituents	Analysis Method	Minimum Reporting Limit (milligrams/liter)
Synthetic Organic Compounds—EPA Regulated		
Silvex	EPA 515.4	0.0002
Pentachlorophenol	EPA 515.4	0.00004
2,4-D	EPA 515.4	0.0001
Dalapon	EPA 515.4	0.001
Dinoseb	EPA 515.4	0.0002
Picloram	EPA 515.4	0.0001
Dicamba	EPA 515.4	0.5
Synthetic Organic Compounds—EPA Unregulated		
2,4,5-T	EPA 515.4	0.00025
Dacthal	EPA 515.4	0.0005
Bentazon	EPA 515.4	0.002
MCPA	EPA 555	0.008
2,4-DB	EPA 515.4	0.0025

Table 4. Radioactive constituents sampled.

Constituent	Analysis Method
Uranium	EPA 908.0
Radium 226	EPA 903.1
Radium 228	EPA 904.0

Table 5. Stable isotopes sampled.

Constituent	Analysis Method
Deuterium (^{2}H)	Stable Isotope Mass Spectrometer
Oxygen 18 (^{18}O)	Stable Isotope Mass Spectrometer
Nitrogen 15—Nitrate (^{15}N)	GB/Precon-IRMS
Oxygen 18—Nitrate (^{18}O)	GB/Precon-IRMS

Table 6. Age dating constituents sampled.

Constituent	Analysis Method
CFC-11	Gas Chromatograph-ECD
CFC-12	Gas Chromatograph-ECD
CFC-113	Gas Chromatograph-ECD
Sulfur Hexafluoride (SF_6)	Gas Chromatograph-ECD

Table 7. June 2012 Analytical Results

Sample Identification	Date	Analytical results													Physical Parameters				
		Calcium (mg/l)	Sodium (mg/l)	Magnesium (mg/l)	Potassium (mg/l)	Chloride (mg/l)	Sulfate (mg/l)	Bicarbonate (mg/l)	Bromide (mg/l)	Total Organic Carbon (mg/l)	Nitrate-Nitrogen (mg/l)	Arsenic (mg/l)	Uranium (mg/l)	Radium 226 + Radium 228 (pCi/L)	pH[1]	Temperature (◦C)	Conductivity (uS)	Specific Conductance (uS @ 25◦C)	Notes
ALPWS	6/19/2012	41.3	2.49	8.77	2.34	3.69	4.13	138	<0.10	<1.00	1.12	<0.0030	<0.00100	<1.2	7.51	8.8	168.6	244.0	
ATH2	6/12/2012	34.8	3.47	15.1	1.91	3.62[2]	15.5[2]	133	<0.10	<1.00	1.31	<0.0030	**0.00291**	**5.7**	7.65	7.9	195.5	290.7	
Duplicate #2	6/12/2012	34.3	3.46	14.9	1.89	3.72	15.0	133	<0.10	<1.00	1.24	<0.0030	**0.00292**	<1.3					Blind duplicate of ATH2
BTRE	6/14/2012	33.2	2.80	11.2	1.68	1.94	5.51	133	<0.10	<1.00	0.54	<0.0030	**0.00241**	<1.8	7.41	8.8	148	213.9	
C4SW	6/12/2012	29.5	3.51	12.9	1.82	8.34[2]	8.15[2]	116	<0.10	<1.00	1.00	<0.0030	**0.00149**	**2.7**	7.70	12.8	167	218.1	
CHOW	6/12/2012	29.1	2.87	14.2	1.77	4.21[2]	9.06[2]	126	<0.10	<1.00	0.75	<0.0030	**0.00261**	<2.1	7.68	12.0	163.7	218.0	
CHSA	6/13/2012	39.4	4.46	6.44	2.31	14.5	4.05	108	<0.10	<1.00	0.57	**0.0039**	<0.00100	<1.3	7.54	6.9	169.9	259.2	
CLAW	6/12/2012	35.5	4.40	19.6	2.24	9.02	13.9	149	<0.10	<1.00	1.53	**0.0042**	**0.00282**	<1.0	7.61	10.2	198.1	276.4	
DIBE	6/18/2012	33.4	2.62	22.9	2.14	1.33	17.7	171	<0.10	<1.00	1.02	<0.0030	**0.00439**	<2.1	7.39	10.4	121.4	169.7	
EASA	6/13/2012	20.2	2.57	7.50	1.26	1.89	5.78	78.0	<0.10	<1.00	0.23	**0.0056**	**0.00112**	<1.2	7.81	10.7	110.5	152.0	
EGA#1	6/11/2012	36.3	3.34	17.6	2.39	2.00[2]	10.5[2]	146	<0.10	<1.00	1.92	<0.0030	**0.00226**	<1.5	7.65	11.7	161.4	215.9	
EGA#2	6/11/2012	36.3	3.26	17.8	2.35	1.75	9.80	152	<0.10	<1.00	1.89	<0.0030	**0.00228**	<1.5	7.82	8.8	171.9	248.6	
FSP3	6/12/2012	31.2	3.09	13.9	1.90	1.17[2]	13.9[2]	129	<0.10	<1.00	0.12	<0.0030	**0.00216**	<1.3	7.69	10.2	188.7	262.1	
HAY#2	6/13/2012	18.8	2.00	3.09	1.13	1.5	2.14	61.0	<0.10	<1.00	0.20	<0.0030	<0.00100	<1.2	7.98	10.7	82.5	113.7	
HLWA#1	6/11/2012	60.5	5.08	9.81	2.38	5.03[2]	5.05[2]	180	<0.10	**1.01**	1.05	<0.0030	<0.00100	<1.5	7.50	9.4	189.6	270.1	
HVWS	6/14/2012	35.3	2.80	20.9	1.91	1.36	18.9	161	<0.10	<1.00	1.75	<0.0030	**0.00441**	<1.7	7.48	8.8	219.1	316.4	
HWY54	6/26/2012	30.8	2.83	12.3	1.37	1.26	10.8	130	<0.10	<1.00	0.22	<0.0030	**0.00166**	<1.4	7.51	8.9	142.2	204.7	
LAAW	6/12/2012	25.7	2.46	8.53	1.50	2.01[2]	4.10[2]	100	<0.10	<1.00	0.56	<0.0030	<0.00100	<1.2	8.02	8.7	123.4	177.4	
MDLA	6/13/2012	33.1	3.06	15.3	1.76	1.73	15.7	132	<0.10	<1.00	0.65	**0.0032**	**0.00338**	<1.2	7.71	9.7	202.9	286.5	
MVT#1	6/13/2012	30.1	2.92	13.9	2.16	3.99	10.5	122	<0.10	<1.00	1.41	**0.0070**	**0.00184**	<1.3	7.94	13.8	196.2	249.6	
OHMA	6/13/2012	85.2	4.77	15.7	4.35	25.4	7.58	234	<0.10	<1.00	1.44	<0.0030	**0.00135**	<1.2	7.14	9.1	364.8	525.0	
PF#6	6/11/2012	23.2	2.67	6.75	1.71	3.82[2]	5.19[2]	77.9	<0.10	<1.00	0.64	<0.0030	<0.00100	<1.6	7.68	15.5	122.3	150.0	
Duplicate #1	6/11/2012	22.8	2.64	6.66	1.69	3.69	4.97	77.8	<0.10	<1.00	0.61	<0.0030	<0.00100	<1.4					Blind duplicate of PF#6
PF#9	6/11/2012	27.6	2.97	12.5	2.07	3.49	9.09	109	<0.10	**1.51**	1.17	**0.0045**	**0.00142**	<1.7	7.47	13.4	148.9	190.4	
PFSP	6/11/2012	7.63	1.84	2.03	0.76	1.5	3.77	25.8	<0.10	<1.00	0.20	<0.0030	<0.00100	<1.7	6.56	12.2	42.1	55.4	
RAES	6/14/2012	38.1	2.25	20.0	1.66	2.63	8.11	176	<0.10	<1.00	0.77	<0.0030	**0.00265**	<1.9	7.32	8.2	210.1	308.8	
RATH G	6/11/2012	28.8	4.39	7.11	1.60	6.58[2]	4.69[2]	92.0	<0.10	<1.00	1.41	<0.0030	<0.00100	<1.6	7.78	8.1	113.3	167.2	
RPSY	6/11/2012	18.1	3.37	8.72	2.02	1.86[2]	7.26[2]	76.7	<0.10	<1.00	0.69	**0.0034**	<0.00100	<1.7	8.03	16.0	111.5	134.9	
SL#4	6/11/2012	16.9	2.79	3.70	1.18	1.01[2]	4.85[2]	57.9	<0.10	<1.00	0.35	<0.0030	<0.00100	<1.5	7.96	11.2	74.7	101.5	
TLWS	6/13/2012	24.9	2.68	7.52	1.35	2.17	7.45	88.4	<0.10	<1.00	0.29	**0.0057**	**0.00117**	<1.2	7.83	10.2	136.3	189.9	
USFS Nur	6/12/2012	31.7	3.19	6.69	2.54	6.67[2]	6.49[2]	100	<0.10	<1.00	0.53	<0.0030	<0.00100	<1.1	7.81	11.7	167.3	224.4	
LCDA	6/14/2012	4.51	1.56	1.38	0.57	0.83	2.57	16.2	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
LHAY	6/14/2012	6.53	2.03	2.01	0.97	1.45	1.70	27.6	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
LPDO	6/14/2012	21.6	2.58	5.94	0.67	1.07	5.44	80.8	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	

Note: Not sampled (NS)

Bold values indicate arsenic and uranium concentrations above detection levels

[1]pH is temperature compensated

[2] Analytical results from concurrent sampling provided by Panhandle Health District

Table 8. September 2012 Analytical Results

Sample Identification	Date	Analytical results: Calcium (mg/l)	Sodium (mg/l)	Magnesium (mg/l)	Potassium (mg/l)	Chloride (mg/l)	Sulfate (mg/l)	Bicarbonate (mg/l)	Bromide (mg/l)	Total Organic Carbon (mg/l)	Arsenic (mg/l)	Physical Parameters: pH[1]	Temperature (◦C)	Conductivity (uS)	Specific Conductance (uS @ 25◦C)	Dissolved Oxygen (mg/l)	Notes
ALPWS	9/27/2012	42.9	2.50	9.18	2.40	4.18	4.52	150	<0.10	<1.00	**0.0037**	7.81	9.0	158.7	229.4	7.2	
ATH2	9/25/2012	33.8	3.44	14.7	1.98	3.49[2]	15.0	139	<0.10	<1.00	**0.00261**[2]	7.81	10.8	173.6	239.4	7.0	
BTRE	10/2/2012	36.3	2.64	11.9	1.81	1.86	5.24	141	<0.10	<1.00	<0.0030	7.17	8.9	145.8	208.4	6.7	
C4SW	9/25/2012	28.7	3.36	13.0	1.94	7.01[2]	8.20	122	<0.10	<1.00	**0.00243**[2]	7.74	13.0	159.9	206.3	4.8	
CHOW	9/25/2012	29.7	3.00	14.8	1.92	4.81[2]	9.51	137	<0.10	<1.00	**0.00281**[2]	7.75	12.1	163.0	216.4	4.1	
CHSA	9/26/2012	35.5	4.35	6.01	2.29	12.4	3.99	115	<0.10	<1.00	**0.0044**	7.69	7.5	149.8	224.0	15+	
CLAW	9/25/2012	35.4	4.40	19.7	2.33	9.67	14.8	161	<0.10	<1.00	**0.0045**	7.73	10.3	188.0	261.2	3.9	
DIBE	9/27/2012	33	2.42	20.6	2.08	1.57	16.9	173	<0.10	<1.00	<0.0030	7.81	16.9	189.2	219.8	7.2	
EASA	9/26/2012	19.3	2.72	7.32	1.31	2.30	5.20	82.2	<0.10	<1.00	**0.0069**	8.03	11.3	98.3	133.8	6.8	
EGA#1	9/24/2012	35.8	3.10	17.6	2.39	3.51[2]	14.6	160	<0.10	<1.00	**0.00426**[2]	7.71	12.0	199.5	266.7	6.4	
EGA#2	9/24/2012	34.1	2.91	17.4	2.18	2.11	8.81	158	<0.10	<1.00	<0.0030	7.72	8.7	147.2	213.0	8.4	
FSP3	9/25/2012	31.5	3.09	14.0	2.00	1.29[2]	13.7	141	<0.10	<1.00	**0.00288**[2]	7.87	10.1	154.0	215.9	5.8	
HAY#2	9/26/2012	18.7	2.11	3.19	1.18	1.23	1.88	66.2	<0.10	<1.00	<0.001	8.23	10.0	73.0	102.7	7.8	
HLWA#1	9/24/2012	56.6	4.58	9.56	2.21	5.24[2]	5.10	190	<0.10	<1.00	**0.00125**[2]	7.44	9.6	119.2	168.5	6.2	
Duplicate #1	9/24/2012	57.8	4.65	9.76	2.27	5.56	5.13	188	<0.10	<1.00	<0.0030						Blind duplicate of HLWA#1
HVWS	10/2/2012	38.4	2.57	21.7	2.02	1.60	20.8	164	<0.10	<1.00	<0.0030	7.52	8.8	262.0	383.6	6.2	
HWY54	9/28/2012	33.4	2.87	12.6	1.41	1.28	12.4	140	<0.10	<1.00	<0.0030	7.70	8.8	150.9	219.3	8.2	
LAAW	9/25/2012	28.5	2.62	9.20	1.65	3.03	4.53	115	<0.10	<1.00	**0.0013**	8.00	8.5	127.8	187.3	7.0	
MDLA	9/26/2012	32.4	3.24	15.4	1.85	1.68	15.9	143	<0.10	<1.00	**0.0037**	7.82	9.4	150.3	213.3	4.0	
Duplicate #2	9/26/2012	32.4	3.20	15.2	2.37	4.13	11.1	142	<0.10	<1.00	**0.0062**						Blind duplicate of MDLA
MVT#1	9/26/2012	32.7	3.26	15.3	2.38	3.99[2]	11.1	143	<0.10	<1.00	**0.00676**[2]	7.74	13.8	174.6	222.3	NA	
OHMA	9/26/2012	77.3	4.75	14.0	4.25	22.5	7.44	246	<0.10	<1.00	<0.0030	7.22	9.3	279.1	396.8	6.6	
PF#6	9/24/2012	20.5	2.36	5.90	1.52	4.37	5.02	76.0	<0.10	<1.00	<0.0030	7.90	15.7	117.4	141.1	6.6	
PF#9	9/24/2012	27.6	2.80	13.2	1.98	3.85	9.76	119	<0.10	<1.00	**0.0045**	7.88	13.7	137.3	174.5	5.2	
PFSP	9/24/2012	10.5	2.34	2.97	0.95	1.38	3.92	42.9	<0.10	<1.00	<0.0030	6.61	16.2	67.4	81.3	5.2	
RAES	9/27/2012	39.7	2.19	21.0	1.83	3.03	9.27	186	<0.10	<1.00	<0.0030	7.47	8.3	168.8	247.8	8.4	
RATH G	10/2/2012	29.7	4.05	7.21	1.50	7.41	4.74	96.0	<0.10	<1.00	<0.0030	7.88	8.2	121.5	178.1	7.6	
SL#4	9/24/2012	17.9	2.76	4.58	1.20	1.06[2]	4.74	69.3	<0.10	<1.00	**0.00168**[2]	8.24	11.1	42.4	57.8	7.2	
TLWS	9/26/2012	24.2	2.83	7.46	1.41	2.10	6.89	94.3	<0.10	<1.00	**0.0063**	7.94	10.3	100.2	139.5	5.6	
USFS Nur	9/25/2012	32.2	3.19	7.24	2.66	7.08	6.65	107	<0.10	<1.00	<0.001	7.86	12.5	146.5	192.8	3.9	
LCDA	10/1/2012	4.79	1.60	1.47	0.76	0.73	3.22	20.7	NS	NS	NS	7.66	17.8	34.7	40.2	8.8	
LHAY	10/1/2012	6.28	1.98	1.98	0.98	1.08	1.64	28.5	NS	NS	NS	7.75	17.9	43.7	50.6	8.6	
LHSR	10/1/2012	4.4	3.69	0.985	1.13	1.56	1.27	22.4	NS	NS	NS	7.69	17.5	38.0	44.4	5.4	
LPDO	10/1/2012	20.9	2.27	6.03	0.81	1.01	4.73	81.8	NS	NS	NS	8.13	17.6	115.8	135.0	7.8	
LSPRT	10/1/2012	1.72	2.25	0.395	0.73	0.45	1.00	9.4	NS	NS	NS	8.35	17.8	18.5	21.5	6.8	
LTWN	10/1/2012	1.88	2.27	0.40	0.78	0.52	0.59	10.4	NS	NS	NS	7.98	17.8	21.7	25.1	6.8	

Note: Not sampled (NS)

Bold values indicate arsenic concentrations above detection levels

[1]pH is temperature compensated

[2] Analytical results from concurrent sampling provided by Panhandle Health District

Table 9. January/February 2013 Analytical Results

Well Name	Date	Analytical results										Physical Parameters					
		Calcium (mg/l)	Sodium (mg/l)	Magnesium (mg/l)	Potassium (mg/l)	Chloride (mg/l)	Sulfate (mg/l)	Bicarbonate (mg/l)	Bromide (mg/l)	Total Organic Carbon (mg/l)	Arsenic (mg/l)	pH[1]	Temperature (◦C)	Conductivity (uS)	Specific Conductance (uS @ 25◦C)	Dissolved Oxygen (mg/l)	Notes
ALPWS	2/4/2013	41.5	2.62	8.98	2.45	4.18	4.43	140	<0.10	<1.00	**0.0031**	7.61	7.5	141.8	213.2	10.0	
ATH2	1/29/2013	34.6	3.77	15.4	2.02	5.68[2]	15.6[2]	135	<0.10	<1.00	**0.00248**[2]	7.7	7.7	159.9	238.9	6.2	
Duplicate #2	1/29/2013	34.6	3.77	15.4	2.02	5.72	15.6	136	<0.10	<1.00	**<0.0030**						Blind duplicate of ATH2
BTRE	2/5/2013	31.0	2.91	11.5	1.93	1.99	4.57	134	<0.10	<1.00	<0.0030	7.64	7.9	128.6	191.0	9.8	
C4SW	1/29/2013	27.7	3.31	12.3	1.84	4.50[2]	6.77[2]	116	<0.10	**1.16**	**0.00265**[2]	7.65	12.7	153.3	200.0	4.2	
CHOW	1/29/2013	28.4	2.91	14.0	1.81	4.68[2]	8.84[2]	130	<0.10	**1.08**	**0.00293**[2]	7.58	11.9	149.4	198.6	3.6	
CHSA	1/30/2013	36.3	4.67	5.99	2.26	12.5	4.44	108	<0.10	<1.00	**0.0041**	7.69	6.7	134.3	207.1	9.2	
CLAW	1/29/2013	36.7	4.75	20.8	2.36	11.1	15.8	164	<0.10	<1.00	**0.0032**	7.66	10.8	199.9	273.2	3.9	
DIBE	2/5/2013	32.4	2.83	23.8	2.43	1.62	18.7	174	<0.10	<1.00	<0.0030	8.09	8.0	175.8	260.5	NA	
EASA	1/30/2013	18.5	2.61	6.86	1.23	2.00	5.45	76.1	<0.10	<1.00	**0.0060**	8.22	10.1	91.5	128.2	8.8	
EGA#1	1/28/2013	34.6	3.29	17.5	2.38	3.22[2]	14.2[2]	143	<0.10	**1.10**	**0.00473**[2]	7.89	8.0	150.3	223.8	7.2	
FSP9	2/1/2013	38.6	3.48	14.1	1.84	1.17	10.2	150	<0.10	<1.00	**<0.0030**	7.49	10.0	146.9	205.7	9.0	
HAY#2	1/30/2013	18.5	1.86	3.12	1.1	1.21	1.97	65.6	<0.10	<1.00	<0.0030	7.98	9.6	58.4	82.7	NA	
HLWA#1	1/28/2013	57.4	4.97	9.71	2.35	5.79[2]	5.37[2]	181	<0.10	<1.00	**0.00189**[2]	7.84	8.8	180.2	266.8	7.9	
HVWS	2/5/2013	33.8	3.00	22.0	2.26	1.78	20.3	165	<0.10	**1.11**	<0.0030	7.51	8.4	150.3	219.9	7.8	
HWY54	2/6/2013	31.1	3.33	12.2	1.49	1.38	11.6	133	<0.10	<1.00	<0.0030	8.07	8.7	136.5	198.8	NA	
LAAW	1/29/2013	25.2	2.44	7.81	1.49	2.36[2]	4.03[2]	100	<0.10	<1.00	**0.00123**[2]	7.84	7.9	110.8	164.9	8.4	
MDLA	1/30/2013	31.7	3.01	14.8	1.76	1.60	16.8	132	<0.10	<1.00	**0.0058**	7.64	8.1	151.1	222.0	7.2	
MVT#1	1/28/2013	32.1	3.21	15.1	2.42	4.09[2]	10.7[2]	131	<0.10	<1.00	**0.00800**[2]	7.91	13.0	166.5	215.7	4.9	
OHMA	1/30/2013	75.2	4.99	13.7	4.11	18.5	7.59	235	<0.10	1.09	<0.0030	7.18	8.7	250.8	363.2	7.0	
Duplicate #3	1/30/2013	76.9	5.09	13.9	4.23	18.6	7.55	232	<0.10	<1.00	<0.0030						Blind duplicate of OHMA
PF#6	1/28/2013	23.5	2.65	5.67	1.68	12.2[2]	7.20[2]	62.6	<0.10	<1.00	**0.00154**[2]	8.13	15.6	119.2	145.0	7.0	
PF#9	1/28/2013	27.7	3.01	13.1	2.12	3.67	9.54	113	<0.10	<1.00	**0.0048**	7.93	12.3	126.1	166.5	6.3	
PFSP	1/28/2013	6.8	1.88	1.83	0.82	1.32	3.38	24.2	<0.10	<1.00	<0.0030	7.25	14.1	39.5	50.0	2.5	
RAES	2/4/2013	36.8	2.49	21.3	1.98	3.16	8.66	179	<0.10	<1.00	**0.0037**	7.5	8.2	176.6	260.3	10.6	
RATH G	1/28/2013	28.4	4.29	7.48	1.61	5.98[2]	5.10[2]	95.8	<0.10	<1.00	**0.00138**[2]	8.15	8.1	118.1	173.7	3.4	
Duplicate #1	1/28/2013	28.6	4.33	7.56	1.63	6.71	4.9	95.4	<0.10	<1.00	<0.0030						Blind duplicate of RATHG
SL#4	1/28/2013	14.6	2.71	3.28	1.13	0.736[2]	2.98[2]	52.1	<0.10	<1.00	**0.00236**[2]	8.51	12.1	69.0	91.6	NA	
TLWS	1/30/2013	24.4	2.77	7.35	1.36	2.15	7.44	90.2	<0.10	<1.00	**0.0055**	7.84	10.0	109.3	153.5	6.4	
USFS Nur	1/29/2013	31.7	3.08	6.72	2.6	7.36[2]	6.85[2]	107	<0.10	<1.00	<0.0015[2]	7.69	11.1	138.9	188.6	3.2	
LCDA	1/31/2013	5.3	1.64	1.64	0.7	1.01	3.71	18.0	NS	NS	NS	8.27	4.2	31.6	51.7	10.7	
LHAY	1/31/2013	6.9	1.95	2.17	0.95	1.11	1.68	26.5	NS	NS	NS	8.39	4.2	31.6	51.7	10.7	
LHSR	1/31/2013	4.5	3.43	0.97	1.12	1.58	1.37	19.1	NS	NS	NS	8.37	2.4	26.9	47.2	15.0	
LPDO	2/1/2013	23.5	2.82	6.58	0.86	1.2	5.91	84.3	NS	NS	NS	7.95	4.8	84.5	137.5	10.2	
LSPRT	2/1/2013	1.9	2.26	0.493	0.78	0.57	1.05	8.7	NS	NS	NS	8.36	2.2	12.1	21.6	9.4	
LTWN	2/1/2013	2.3	2.59	0.602	0.87	1.02	0.85	10.0	NS	NS	NS	7.82	1.8	13.0	Err	9.4	

Note: Not sampled (NS)

Bold values indicate arsenic concentrations above detection levels

[1]pH is temperature compensated

[2] Analytical results from concurrent sampling provided by Panhandle Health District

Table 10. ^{15}N and ^{18}O of nitrate isotopes results.

Sample	Date	$\delta^{15}N_{Air}$ (‰)	$\delta^{18}O_{VSMOW}$ (‰)
ALPWS	6/27/12	5.09	-5.67
ALPWS	6/27/12	5.25	-5.38
ATH2	6/25/12	6.43	-6.87
ATH2	6/25/12	6.35	-6.87
BTRE	6/25/12	1.67	-5.31
C4SW	6/25/12	5.00	-6.08
CHOW	6/25/12	5.20	-5.68
CHSA	7/2/12	5.20	-5.58
CLAW	7/2/12	5.41	-4.88
DIBE	6/25/12	3.15	-3.51
Duplicate #1 (PF#6)	6/25/12	5.09	-6.37
Duplicate #2 (ATH2)	6/25/12	6.58	-6.35
EASA	6/25/12	3.88	-7.19
EGA#1	7/2/12	2.25	-3.65
EGA#2	6/25/12	1.91	-2.33
FSP3	6/27/12	4.18	-8.71
HAY#2	6/25/12	2.54	-5.97
HLWA#1	6/25/12	6.39	-4.51
HVWS	6/25/12	2.06	-2.23
LAAW	6/25/12	4.23	-5.02
MDLA	6/25/12	2.80	-1.08
MVT#1	7/2/12	4.89	-4.36
OHMA	7/2/12	5.34	-5.02
PF#6	6/25/12	4.63	-7.07
PF#9	6/25/12	4.32	-4.22
PFSP	7/2/12	6.16	-8.81
PFSP	7/2/12	5.94	-8.62
RAES	6/25/12	4.61	-6.95
RATHG	6/25/12	4.60	-5.06
RPSY	7/2/12	3.77	-7.54
SL#4	7/2/12	4.44	-6.91
TLWS	6/25/12	4.41	-6.15
USFS Nur	6/25/12	4.32	-6.19

Table 11. June 2012 Volatile Organic Compounds -EPA Regulated. All values are in milligrams per liter.

Constituent	Well PF#9	PFSP	PF#6	Duplicate #1 PF#6	RPSY	EGA#1	EGA#2	HLWA#1	SL#4	RATH G	C4SW	CHOW	CLAW	USFS Nur	LAAW	FSP3	ATH2	Duplicate #2 ATH2	MVT#1	HAY#2	MDLA	TLWS	EASA	CHSA	OHMA	HVWS	BTRE	RAES	DIBE	ALPWS	HWY54
t-1,2-Dichloroethylene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,2-Dichloroethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,2-Dichloropropane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
o-Dichlorobenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
c-1,2-Dichloroethylene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chloroform	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Vinyl chloride	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Bromoform	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1,1-Trichloroethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
p-Dichlorobenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Dichloromethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Ethylbenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Benzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Trihalomethanes	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Dibromochloromethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Xylenes	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1-Dichloroethylene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,2,4-Trichlorobenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Monohlorobenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Styrene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Tetrachloroethylene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Carbon tetrachloride	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Bromodichloromethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Trichloroethylene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Toluene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1,2-Trichloroethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

Table 12. June 2012 Volatile Organic Compounds -EPA unregulated. All values are in milligrams per liter.

Constituent	Well PF#9	PFSP	PF#6	Duplicate #1 PF#6	RPSY	EGA#1	EGA#2	HLWA#1	SL#4	RATH G	C4SW	CHOW	CLAW	USFS Nur	LAAW	FSP3	ATH2	Duplicate #2 ATH2	MVT#1	HAY#2	MDLA	TLWS	EASA	CHSA	OHMA	HVWS	BTRE	RAES	DIBE	ALPWS	HWY54
Bromobenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Bromochloromethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Bromomethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
s-Butylbenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
t-Butylbenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chloroethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
o-Chlorotoluene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,2,4-Trimethylbenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,3,5-Trimethylbenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
n-Butylbenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
n-Propylbenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1,1,2-Tetrachloroethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
p-Chlorotoluene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Dibromomethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
m-Dichlorobenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Dichlorodi-fluoromethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,3-Dichloropropane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1,2,2-Tetrachloroethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Hexachlorobutadiene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,2,3-Trichlorobenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Trichloro-fluoromethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,2,3-Trichloropropane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1-Dichloroethane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,3-Dichloropropene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,2-Dichloropropane	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1-Dichloropropene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
p-Isopropyltoluene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Isopropylbenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Naphthalene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

Table 13. June 2012 Semi-Volitile Organic Compounds -EPA unregulated. All values are in milligrams per liter.

Constituent	Well																													
	PF#9	PFSP	PF#6	Duplicate #1 PF#6	RPSY	EGA#1	EGA#2	HLWA#1	SL#4	RATH G	C4SW	CHOW	CLAW	USFS Nur	LAAW	FSP3	ATH2	Duplicate #2 ATH2	MVT#1	HAY#2	MDLA	TLWS	EASA	CHSA	OHMA	HVWS	BTRE	RAES	DIBE	ALPWS	HWY54
Synthetic Organic Compounds – EPA Regulated																														
Silvex	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Pentachlorophenol	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,4-D	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Dalapon	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Dinoseb	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Picloram	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Dicamba	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Synthetic Organic Compounds – EPA Unregulated																														
2,4,5-T	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Dacthal	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Bentazon	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MCPA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,4-DB	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

Table 14. June 2012- ^{2}H &^{18}O Isotope Results

Sample Identification	Date	$\delta^{18}O_{VSMOW}$	$\delta^{2}H_{VSMOW}$
ALPWS	6/19/2012	-15.07	-111.89
ATH2	6/12/2012	-15.77	-121.47
Duplicate ATH2	6/11/2012	-15.81	-120.50
BTRE	6/14/2012	-14.77	-110.13
C4SW	6/12/2012	-14.48	-110.77
CHOW	6/12/2012	-14.85	-111.56
CHSA	6/13/2012	-15.11	-112.02
CLAW	6/12/2012	-13.72	-107.43
DIBE	6/18/2012	-15.28	-114.31
EASA	6/13/2012	-13.83	-106.41
EGA#1	6/11/2012	-14.41	-109.51
EGA#2	6/11/2012	-14.45	-110.08
FSP3	6/12/2012	-15.89	-120.50
HAY#2	6/13/2012	-11.81	-95.93
HLWA#1	6/11/2012	-14.15	-107.94
HVWS	6/14/2012	-15.21	-115.09
HWY54	6/26/2012	-15.85	-121.35
LAAW	6/12/2012	-12.01	-96.36
LCDA	6/14/2012	-15.01	-111.36
LHAY	6/14/2012	-12.17	-96.91
LPDO	6/14/2012	-16.18	-123.24
MDLA	6/13/2012	-14.96	-113.60
MVT#1	6/13/2012	-14.70	-110.89
OHMA	6/13/2012	-14.91	-111.57
PF#6	6/11/2012	-14.60	-110.19
Duplicate PF#6	6/12/2012	-14.60	-110.49
PF#9	6/11/2012	-14.67	-110.31
PFSP	6/11/2012	-14.81	-112.20
RAES	6/14/2012	-15.11	-111.32
RATH G	6/11/2012	-13.89	-106.79
RPSY	6/11/2012	-14.42	-108.96
SL#4	6/11/2012	-13.49	-105.04
TLWS	6/13/2012	-14.30	-109.25
USFS Nur	6/12/2012	-14.71	-110.30
PATLS(1)	5/23/2012	-14.15	-109.48

Table 15. September 2012- ^{2}H &^{18}O Isotope Results

Sample Identification	Date	$\delta^{18}O_{VSMOW}$	$\delta^{2}H_{VSMOW}$
ALPWS	9/27/2012	-15.10	-112.64
ATH2	9/25/2012	-15.98	-121.64
BTRE	10/2/2012	-14.92	-109.78
C4SW	9/25/2012	-14.65	-110.84
CHOW	9/25/2012	-14.66	-111.18
CHSA	9/26/2012	-15.23	-113.12
CLAW	9/25/2012	-13.88	-106.78
DIBE	9/27/2012	-15.45	-114.07
EASA	9/26/2012	-13.98	-106.96
EGA#1	9/24/2012	-14.45	-110.38
EGA#2	9/24/2012	-14.63	-110.26
FSP3	9/25/2012	-15.68	-120.75
HAY#2	9/26/2012	-12.09	-96.81
HLWA#1	9/24/2012	-13.99	-109.15
Duplicate HLWA#1	9/24/2012	-13.87	-108.11
HVWS	10/2/2012	-15.37	-114.99
HWY54	9/28/2012	-16.08	-121.24
LAAW	9/25/2012	-12.00	-96.39
LCDA	10/1/2012	-14.71	-109.67
LHAY	10/1/2012	-11.67	-95.12
LHSR	10/1/2012	-12.35	-98.65
LPDO	10/1/2012	-16.16	-122.71
LSPRT	10/1/2012	-13.26	-102.70
LTWN	10/1/2012	-12.73	-101.12
MDLA	9/26/2012	-14.91	-114.30
Duplicate MDLA	9/26/2012	-14.71	-112.14
MVT#1	9/26/2012	-14.62	-111.02
OHMA	9/26/2012	-14.80	-111.68
PF#6	9/24/2012	-14.63	-111.22
PF#9	9/24/2012	-14.70	-111.89
PFSP	9/24/2012	-14.58	-110.95
RAES	9/27/2012	-15.18	-112.33
RATH G	10/2/2012	-13.77	-107.20
SL#4	9/24/2012	-13.89	-105.65
TLWS	9/26/2012	-14.21	-108.85
USFS Nur	9/25/2012	-14.69	-110.76

Table 16. January 2013-^{2}H &^{18}O Isotope Results

Sample Identification	Date	$\delta^{18}O_{VSMOW}$	$\delta^{2}H_{VSMOW}$
ALPWS	2/4/2013	-15.42	-110.40
ATH2	1/29/2013	-15.82	-117.98
Duplicate ATH2	1/29/2013	-15.93	-117.91
BTRE	2/5/2013	-15.23	-110.85
C4SW	1/29/2013	-14.55	-110.03
CHOW	1/29/2013	-14.91	-110.38
CHSA	1/30/2013	-15.49	-111.24
CLAW	1/29/2013	-14.39	-108.05
DIBE	2/5/2013	-15.60	-112.83
EASA	1/30/2013	-14.22	-105.41
EGA#1	1/28/2013	-14.68	-107.42
FSP9	2/1/2013	-16.06	-117.56
HAY#2	1/30/2013	-12.23	-95.73
HLWA#1	1/28/2013	-14.08	-109.46
HVWS	2/5/2013	-15.65	-115.14
HWY54	2/6/2013	-16.17	-122.33
LAAW	1/29/2013	-12.28	-94.02
LCDA	1/31/2013	-14.86	-110.36
LHAY	1/31/2013	-12.21	-93.81
LHSR	1/31/2013	-14.12	-108.26
LPDO	2/1/2013	-16.24	-119.42
LSPRT	2/1/2013	-14.16	-106.67
LTWN	2/1/2013	-14.81	-107.62
MDLA	1/30/2013	-15.20	-115.35
MVT#1	1/28/2013	-14.63	-109.31
OHMA	1/30/2013	-15.12	-109.58
Duplicate OHMA	1/30/2013	-15.91	-107.91
PF#9	1/28/2013	-14.98	-111.24
PFSP	1/28/2013	-14.32	-111.32
RAES	2/4/2013	-15.51	-110.39
RATH G	1/28/2013	-14.07	-106.03
Duplicate RATHG	1/28/2013	-14.22	-106.20
SL#4	1/28/2013	-14.75	-100.85
TLWS	1/30/2013	-14.52	-108.42
USFS Nur	1/29/2013	-14.69	-109.57
PATLS(2)	12/13/2012	-13.37	-92.08
PRGMTN	12/14/2012	-13.36	-96.25

Table 17. September 2012 - Chlorofluorocarbon Results

Sample Identification	Recharge Elevation (m)[1]	Recharge Temperature (°C)	CFC-11 Sample Concentration (pmoles/kg)[2]	CFC-12 Sample Concentration (pmoles/kg)	CFC-113 Sample Concentration (pmoles/kg)	CFC-11 Equiv. Air Conc. (pptv)[3]	CFC-12 Equiv. Air Conc. (pptv)	CFC-113 Equiv. Air Conc. (pptv)	CFC-11 Apprarent Recharge Year	CFC-12 Apprarent Recharge Year	CFC-113 Apprarent Recharge Year
ALPWS	690	9.3	11.552	4.442	0.406	578.429635	860.424878	65.489650	SS	SS	1988
ALPWS	690	9.3	11.704	4.372	0.370	586.041162	846.851231	59.677983	SS	SS	1987.5
ALPWS	690	9.3	12.274	4.592	0.391	614.557647	889.576481	63.075087	SS	SS	1988
ATH2	727	6.5	4.492	2.759	0.830	192.103087	464.408126	112.818331	1982.5	1988.5	SS
ATH2	727	6.5	4.588	2.831	0.854	196.201973	476.558992	116.047988	1983	1989.5	SS
ATH2	727	6.5	4.514	2.763	0.801	193.035835	465.059843	108.810808	1982.5	1988.5	SS
BTRE	730	9.3	5.913	2.857	0.374	297.518248	556.131989	60.641829	SS	SS	1987.5
BTRE	730	9.3	5.683	2.874	0.395	285.945615	559.369175	64.099175	SS	SS	1988
BTRE	730	9.3	5.580	2.748	0.372	280.788472	534.925706	60.349202	SS	1998	1987.5
C4SW	683	9.3	4.387	2.772	0.303	219.499849	536.485436	48.936928	1985.5	1998	1986
C4SW	683	9.3	4.322	2.687	0.292	216.230144	519.995235	47.052832	1985	1994	1985.5
C4SW	683	9.3	4.379	2.743	0.287	219.081341	530.983859	46.377763	1985.5	1996.5	1985.5
CLAW	696	9.3	11.576	3.698	5.553	580.064432	716.824955	897.397309	SS	SS	SS
CLAW	696	9.3	11.458	3.426	5.662	574.159555	664.058950	915.001675	SS	SS	SS
CLAW	696	9.3	11.173	3.302	5.495	559.859262	640.102445	888.054772	SS	SS	SS
CLAW	696	9.3	11.563	3.713	5.624	579.423610	719.877732	908.758359	SS	SS	SS
EGA#1	655	9.3	18.429	16.955	20.593	918.819292	3,270.499574	3,311.263084	SS	SS	SS
EGA#1	655	9.3	18.465	17.197	21.043	920.611532	3,317.212885	3,383.566785	SS	SS	SS
EGA#1	655	9.3	18.485	16.946	20.653	921.656836	3,268.709511	3,320.855516	SS	SS	SS
EGA#2	660	9.3	4.798	2.763	0.399	239.362549	533.248249	64.204339	1987	1997	1988
EGA#2	660	9.3	4.727	2.625	0.397	235.836208	506.591860	63.822129	1987	1991.5	1988
EGA#2	660	9.3	4.785	2.652	0.384	238.716911	511.864665	61.846732	1987	1992	1987.5
Hay#2	695	9.3	5.817	2.806	0.357	291.457533	543.936416	57.628286	SS	SS	1987
Hay#2	695	9.3	5.798	2.793	0.347	290.496168	541.358373	56.049073	SS	SS	1987
Hay#2	695	9.3	5.793	2.814	0.353	290.235843	545.443776	57.106011	SS	SS	1987
Hwy54	751	9.3	5.308	2.901	0.424	267.779187	566.225286	68.970993	1990	SS	1988.5
Hwy54	751	9.3	5.032	2.799	0.416	253.864893	546.243448	67.748084	1988	SS	1988.5
Hwy54	751	9.3	5.023	2.791	0.417	253.370372	544.704127	67.792715	1988	SS	1988.5
MDLA	679	9.3	4.973	3.332	0.740	248.671012	644.679417	119.380743	1987.5	SS	SS
MDLA	679	9.3	4.957	3.409	0.764	247.867087	659.446578	123.175132	1987.5	SS	SS
MDLA	679	9.3	4.937	3.295	0.733	246.876613	637.362458	118.136946	1987.5	SS	SS
PF#6	670	9.3	6.297	2.839	0.328	314.545231	548.540482	52.893813	SS	SS	1986.5
PF#6	670	9.3	6.206	2.765	0.330	309.972474	534.247881	53.132451	SS	1997.5	1986.5
PF#6	670	9.3	6.303	2.814	0.326	314.856009	543.737250	52.545910	SS	SS	1986.5
PF#9	653	12.1	17.793	24.165	11.306	1,034.460606	5,347.718664	2,151.713525	SS	SS	SS
PF#9	653	12.1	18.643	24.077	11.062	1,083.879614	5,328.111710	2,105.101048	SS	SS	SS
PF#9	653	12.1	17.393	22.787	10.850	1,011.183769	5,042.738860	2,064.754298	SS	SS	SS
RAES	710	9.3	6.298	3.043	0.317	316.111434	590.998182	51.314450	SS	SS	1986
RAES	710	9.3	6.011	2.823	0.331	301.699046	548.233813	53.511375	SS	SS	1986.5
RAES	710	9.3	6.097	2.746	0.307	306.050424	533.192272	49.746012	SS	1997	1986
RathG	672	9.3	7.707	3.147	0.367	385.045771	608.369264	59.142172	SS	SS	1987.5
RathG	672	9.3	7.713	3.099	0.358	385.344115	598.994887	57.690606	SS	SS	1987
RathG	672	9.3	7.649	3.159	0.367	382.173410	610.514816	59.133490	SS	SS	1987.5
SL#4	787	9.3	4.312	2.333	0.292	218.494750	457.321242	47.675319	1985	1988	1985.5
SL#4	787	9.3	4.341	2.400	0.278	219.962596	470.404686	45.403288	1985.5	1989	1985
SL#4	787	9.3	4.328	2.380	0.278	219.308423	466.610560	45.414026	1985.5	1988.5	1985
USFS NUR	688	9.3	26.754	74.980	0.717	1,339.294793	14,521.074344	115.801772	SS	SS	SS
USFS NUR	688	9.3	26.627	72.196	0.693	1,332.949955	13,981.917853	111.928151	SS	SS	SS
USFS NUR	688	9.3	27.030	74.926	0.723	1,353.097634	14,510.628923	116.712686	SS	SS	SS

[1] Surface elevation of wellhead

[2] picomoles per kilogram (pmoles/kg)

[3] parts per trillion (ppt)

SS - supersaturated

Table 18. September/October 2012 SF_6 Results

Sample Identification	Sampling Date	Recharge Temperature (°C)	Recharge Elevation[1] (m)	Excess Air (cm^3/kg)	Calculated SF_6 Partial Pressure (pptv)[2]	Piston Flow Model SF_6 Recharge Year
ALPWS	09/27/12	9.3	690.0	1.9	6.931756004	2009.5
ALPWS	09/27/12	9.3	690.0	1.9	7.164998202	2010.0
ATH2	09/25/12	6.5	727.0	1.6	5.989231865	2006.0
ATH2	09/25/12	6.5	727.0	1.6	5.945779532	2006.0
BTRE	10/02/12	9.3	730.0	1.9	6.659994888	2008.5
C4SW	09/29/12	9.3	683.0	1.9	4.934906725	2001.5
C4SW	09/29/12	9.3	683.0	1.9	4.964647027	2001.5
CLAW	09/25/12	9.3	696.0	1.9	4.339430379	1998.5
CLAW	09/25/12	9.3	696.0	1.9	4.202185109	1998.0
EGA#1	09/24/12	9.3	655.0	1.9	5.015798384	2001.5
EGA#1	09/24/12	9.3	655.0	1.9	5.408694438	2003.5
EGA#2	09/24/12	9.3	660.0	1.9	5.651294933	2004.5
EGA#2	09/24/12	9.3	660.0	1.9	5.721380317	2005.0
HAY#2	09/26/12	6.5	695.0	1.9	6.525152509	2007.5
HWY 54	09/28/12	6.5	751.0	1.9	6.757976832	2009.0
HWY 54	09/28/12	9.3	751.0	1.9	6.65303109	2008.5
MDLA	09/26/12	9.3	679.0	1.9	4.550848007	1999.5
MDLA	09/26/12	9.3	679.0	1.9	4.479517759	1999.0
PF#6	09/24/12	9.3	670.0	1.9	5.818931708	2005.0
PF#6	09/24/12	9.3	670.0	1.9	5.683113502	2004.5
PF#9	09/24/12	12.1	653.0	2.2	5.76388178	2005.0
PF#9	09/24/12	12.1	653.0	2.2	5.724915172	2005.0
RAES	09/27/12	9.3	710.0	1.9	6.798536037	2009.0
RAES	09/27/12	9.3	710.0	1.9	6.939784385	2009.5
RATHG	10/02/12	9.3	672.0	1.9	5.377360064	2003.0
RATHG	10/02/12	9.3	672.0	1.9	6.033548025	2006.0
SL#4	09/24/12	9.3	787.0	1.9	4.666719201	2000.5
USFS Nur	09/25/12	9.3	688.0	1.9	8.619858962	SS
USFS Nur	09/25/12	9.3	688.0	1.9	7.738189412	2012.0

[1] Surface elevation of wellhead

[2] parts per trillion volume

SS - Supersaturated

Table 19. Peripheral Lakes Morphometric Data

Lake	Lake Area (ft^2)	Volume (ft^3)	Average Depth (ft)	Average Residence Time[1] (years)	Area of Watershed[2] ($miles^2$)	Average Watershed Elevation[2] (feet)
Coeur d'Alene	1.39E+09	9.89E+10	71	0.5	3,691	3,770
Hauser	2.72E+07	5.70E+08	21	1.7	20	2,820
Hayden	1.70E+08	1.58E+10	93	11.1	59	3,140
Pend Oreille	3.54E+09	1.90E+12	538	10.0	23,042[3]	5,069[3]
Twin- Upper & Lower	3.81E+07	6.10E+08	16	0.6	47	2,950
Spirit	6.30E+07	6.30E+07	37	1.6	39	3,290

[1]Residence Time = (Lake Volume/ Lake Recharge Rate)/365 days

[2] Watershed statistics from U.S. Geological Survey, 2012,

The StreamStats program for Idaho, online a http://water.usgs.gov/osw/streamstats/idaho.html

[3] Information for Clark Fork Watershed from U.S. Geological Survey National Mapper at http://nationalmap.gov/

Table 20. June 2012 saturation Indices.

Well Name	Saturation Indices	
	Calcite	Dolomite
ALPWS	-0.3783	-1.3321
ATH2	-0.3537	-0.9893
BTRE	-0.5844	-1.5434
C4SW	-0.3451	-0.8784
CHOW	-0.3497	-0.8542
CHSA	-0.4982	-1.7229
CLAW	-0.3085	-0.7505
DIBE	-0.4961	-1.0282
EASA	-0.5751	-1.4472
EGA#1	-0.2392	-0.6410
EGA#2	-0.0994	-0.4101
FSP3	-0.3312	-0.8892
HAY2	-0.5265	-1.7039
HLWA#1	-0.1217	-0.9246
HVWS	-0.4324	-0.9944
HWY54	-0.5279	-1.3549
LAAW	-0.1986	-0.7800
LCDA	-2.5094	-5.2504
LHAY	-2.1288	-4.4850
LPDO	-1.1947	-2.6668
MDLA	-0.2890	-0.7978
MVT#1	-0.0666	-0.2802
OHMA	-0.2549	-1.1412
PF#6	-0.5734	-1.4673
PF#9	-0.6158	-1.3947
PFSP	-2.6527	-5.7209
RAES	-0.5259	-1.2460
RATHG	-0.4337	-1.3906
RPSY	-0.3347	-0.7623
SL#4	-0.6083	-1.7338
TLWS	-0.427	-1.2496
USFS Nur	-0.2741	-1.0722

Table 21. September 2012 saturation indices.

Well Name	Saturation Indices	
	Calcite	Dolomite
ALPWS	-0.0291	-0.6262
ATH2	-0.1424	-0.5106
BTRE	-0.7621	-1.9096
C4SW	-0.2922	-0.7539
CHOW	-0.2372	-0.6181
CHSA	-0.3539	-1.4071
CLAW	-0.1652	-0.3982
DIBE	0.0202	0.0748
EASA	-0.3451	-0.9667
EGA#1	-0.1451	-0.4414
EGA#2	-0.2072	-0.6108
FSP3	-0.1146	-0.4586
HAY2	-0.2601	-1.1673
HLWA#1	-0.1815	-1.0228
HVWS	-0.3518	-0.8533
HWY54	-0.2789	-0.8833
LAAW	-0.1231	-0.6450
LCDA	-1.7559	-3.7740
LHAY	-1.4154	-3.0796
LHSR	-1.7309	-3.8655
LPDO	-0.119	-0.5285
LSPRT	-1.8411	-4.0703
LTWN	-2.1214	-4.6641
MDLA	-0.1647	-0.5425
MVT#1	-0.1662	-0.4740
OHMA	-0.1871	-1.0095
PF#6	-0.4118	-1.1452
PF#9	-0.1703	-0.4742
PFSP	-2.1956	-4.7134
RAES	-0.3374	-0.8636
RATHG	-0.3024	-1.1334
SL#4	-0.2382	-0.9272
TLWS	-0.3011	-0.987
USFS Nur	-0.1791	-0.8404

Table 22. January 2013 saturation indices.

Well Name	Saturation Indices	
	Calcite	Dolomite
ALPWS	-0.2918	-1.1764
ATH2	-0.3039	-0.8825
BTRE	-0.3946	-1.1399
C4SW	-0.4185	-1.0204
CHOW	-0.4468	-1.0457
CHSA	-0.3842	-1.4947
CLAW	-0.1991	-0.5091
DIBE	0.1503	0.2504
EASA	-0.2263	-0.7604
EGA#1	-0.0891	-0.3912
FSP3	-0.3822	-1.0815
HAY2	-0.5195	-1.6992
HLWA#1	0.1869	-0.2999
HVWS	-0.4181	-0.9323
HWY54	0.0346	-0.2404
LAAW	-0.3951	-1.2188
LCDA	-1.3872	-3.2763
LHAY	-0.9923	-2.4807
LHSR	-1.3617	-3.4191
LPDO	-0.435	-1.45053
LSPRT	-2.0592	-4.752
LTWN	-2.4734	-5.5729
MDLA	-0.4008	-1.0478
MVT#1	-0.0538	-0.2602
OHMA	-0.2647	-1.1737
PF#6	-0.2168	-0.8332
PF#9	-0.1619	-0.4863
PFSP	-2.0058	-4.3921
RAES	-0.3559	-0.8634
RATHG	-0.0582	-0.6110
SL#4	-0.1599	-0.8086
TLWS	-0.4197	-1.2399
USFS Nur	-0.3742	-1.2814