Table 1.1 Comparison of VOCs and SVOCs in Groundwater to Health-Based Criteria 2014 HG Investigation

Param	Value	Criterion	Units	Max. Detect	HG-28S 45-54 4/30/14 UHG	HG-28S 45-54 4/30/14 Field Duplicate UHG	HG-28S 45-54 6/5/2014 UHG	HG-28D 82-92 4/30/14 LHG	HG-28D 82-92 6/5/2014 LHG	HG-29S 45.8-55.8 4/30/14 UHG	HG-29S 45.8-55.8 6/6/2014 UHG	HG-29D 87-97 4/30/14 LHG	HG-29D 87-97 6/6/2014 LHG	HG-30S 56-66 4/30/14 UHG	HG-30S 56-66 6/5/2014 UHG	HG-30D 93-103 4/30/14 LHG	HG-30D 93-103 6/5/2014 LHG	HG-31D 93.5-103.5 4/14/14 LHG	HG-31D 93.5-103.5 4/14/14 Field Duplicate LHG	HG-31D 93.5-103.5 6/5/2014 LHG	HG-31D 93.5-103.5 6/5/2014 Field Duplicate LHG	WS-25 13-15 4/11/14 SA	WS-25 40-42 4/11/14 UHG	WS-25 50-52 4/11/14 UHG
Volatile Organic Compounds (VOCs)																								
2-Butanone	4,200	GCTL Sys	µg/L	8,000	1,000	1,100	8,000	50 U	80 U	2,200	5,400	2,400	2,600	1,300	3,200	20 U	1,400 U	23	25	120	110	1,000 U	50 U	50 U
2-Hexanone	280	GCTL Sys	µg/L	180	250 U	200 U	3,300 U	50 U	80 U	500 U	2,500 U	500 U	1,100 U	250 U	1,100 U	20 U	1,400 U	10 U	10 U	50 U	50 U	1,000 U	50 U	50 U
4-Methyl-2-pentanone	560	GCTL Sys	µg/L	12	250 U	200 U	3,300 U	50 U	80 U	500 U	2,500 U	500 U	1,100 U	250 U	1,100 U	20 U	1,400 U	10 U	10 U	50 U	50 U	1,000 U	50 U	50 U
Acetone	6,300	GCTL Sys	µg/L	17,000	4,300	4300	17,000	130 U	80 U	6,900	16,000	6,600	5,400	3,400	7,000	50 U	1,400 U	76	85	290	270	2,500 U	130 U	130 U
Benzene	1	ROD	µg/L	400	25 U	20 U	330 U	86	77	190	400	120	110	56	130	46	140 U	130	130	120	130	340	350	260
Bromodichloromethane	0.6	GCTL Car	µg/L	8.1	25 U	20 U	330 U	5 U	8 U	50 U	250 U	50 U	110 U	25 U	110 U	2 U	140 U	1 U	1 U	5 U	5 U	100 U	5 U	5 U
Bromoform	4.4	GCTL Car	µg/L	2.7	25 U	20 U	330 U	5 U	8 U	50 U	250 U	50 U	110 U	25 U	110 U	2 U	140 U	1 U	1 U	5 U	5 U	100 U	5 U	5 U
Chloroform	70	GCTL Sys	µg/L	14	25 U	20 U	330 U	5 U	8 U	50 U	250 U	50 U	110 U	25 U	110 U	2 U	140 U	1 U	1 U	5 U	5 U	100 U	5 U	5.2
Dibromochloromethane	0.4	GCTL Car	µg/L	8.7	25 U	20 U	330 U	5 U	8 U	50 U	250 U	50 U	110 U	25 U	110 U	2 U	140 U	1 U	1 U	5 U	5 U	100 U	5 U	5 U
Ethylbenzene	700	MCL FL DEP	µg/L	1,500	25 U	20 U	330 U	21	26	53	250 U	50 U	110 U	25 U	110 U	37	140 U	39	38	51	53	1,500	130	75
Isopropylbenzene	450	EPA RSL	µg/L	130	25 U	20 U	330 U	5 U	8 U	50 U	250 U	50 U	110 U	25 U	110 U	5.5	140 U	3.5	3.6	5 U	5 U	130	9.4	5 U
Methyl acetate	20,000	EPA RSL	µg/L	7,300	250	280	7,300	5 U	80 U	270	2,500 U	50 U	1,100 U	25 U	1,100 U	2 U	1,400 U	1 U	1 U	50 U	50 U	100 U	5 U	5 U
Naphthalene	18	ROD	µg/L	2,700	NT	NT	330 U	NT	170	NT	250 U	NT	380	NT	110 U	NT	2,700	NT	NT	70	68	NT	NT	NT
Toluene	1,000	MCL FL DEP	µg/L	6,700	77	79	880	5 U	8 U	920	1,900	440	390	190	570	8	140 U	13	13	30	32	6,700	63	68
Xylenes (Total)	10,000	MCL FL DEP	µg/L	3,000	50 U	40 U	670 U	39	49	120	500 U	100	220 U	50 U	220 U	65	290 U	69	70	83	87	3,000	210	120
Semi-Volatile Organic Compounds (SVOCs)																								
2,4-Dimethylphenol	140	GCTL Sys	µg/L	14,000	14,000	20,000 U	11,000	9,700 U	1,100	41,000 U	11,000	43,000 U	3,800 U	39,000 U	5,300	10,000 U	780	1,900	1,800	2,200	2,500	5,000	480	520
2-Methylnaphthalene	28	GCTL Sys	µg/L	1,100	1,000 U	2,000 U	780 U	970 U	7.8 U	4,100 U	600 U	4,300 U	380 U	3,900 U	290 U	1,100	71	20 U	20 U	19 U	20 U	96 U	9.7 U	9.6 U
2-Methylphenol	35	GCTL Sys	µg/L	28,000	28,000	20,000 U	23,000	9,700 U	39 U	41,000 U	20,000	43,000 U	5,500	39,000 U	11,000	10,000 U	49 U	200 U	200 U	370	440	2,900	97 U	96 U
3+4-Methylphenol	3.5	GCTL Sys	µg/L	64,000	64,000	20,000 U	55,000	9,700 U	78 U	41,000 U	63,000	43,000 U	41,000	39,000 U	37,000	10,000 U	97 U	200 U	640	3,000	3,700	4,700	97 U	96 U
Acenaphthene	260	ROD	µg/L	75	1,000 U	2,000 U	780 U	970 U	7.8 U	4,100 U	600 U	4,300 U	380 U	3,900 U	290 U	1,000 U	15	20 U	20 U	19 U	20 U	96 U	9.7 U	9.6 U
Dibenzofuran	28	GCTL Sys	µg/L	86	5,000 U	9,800 U	3,900 U	4,900 U	39 U	20,000 U	3,000 U	22,000 U	1,900 U	20,000 U	1,400 U	5,000 U	49 U	99 U	98 U	96 U	98 U	480 U	48 U	48 U
Fluorene	323	ROD	µg/L	81	1,000 U	2,000 U	780 U	970 U	7.8 U	4,100 U	600 U	4,300 U	380 U	3,900 U	290 U	1,000 U	9.7 U	20 U	20 U	19 U	20 U	96 U	9.7 U	9.6 U
Naphthalene	18	ROD	µg/L	23,000	1,000 U	2,000 U	780 U	970 U	140	4,100 U	600 U	4,300 U	380 U	3,900 U	290 U	23,000	1,400	32	30	69	72	320	570	480
Phenanthrene	210	GCTL Sys	µg/L	2.4	1,000 U	2,000 U	780 U	970 U	7.8 U	4,100 U	600 U	4,300 U	380 U	3,900 U	290 U	1,000 U	9.7 U	20 U	20 U	19 U	20 U	96 U	9.7 U	9.6 U
Phenol	2,630	ROD	µg/L	96,000	96,000	12,000	87,000	4,900 U	43	20,000 U	71,000	22,000 U	19,000	20,000 U	42,000	5,000 U	49 U	260	210	1,000	1,200	480 U	48 U	48 U

Notes:

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Wells HG-28S/D, HG-29S/D, and HG-30S/D were resampled in June 2014 due to data quality issues associated with the April 2014 samples.

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+ 35 µg/L is the GCTL for 3-methylphenol, and 3.5 µg/L is the GCTL for 4-methylphenol.

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US EPA RSL criteria values accessed June 2014 at:

Light gray = Detection limit of not detected analyte exceeds health-based criteria.

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Table 1.1 Comparison of VOCs and SVOCs in Groundwater to Health-Based Criteria 2014 HG Investigation

Location					WS-26				WS-27				WS-28					WS-29				
Well Screen Interval (feet bgs)					18-20	38-40	48-50	58-60	18-20	41-43	50-52	58-60	18-20	42-44	52-54	52-54	62-64	18-20	18-20	42-44	51-53	58-60
Sample Date					4/14/14	4/14/14	4/14/14	4/14/14	4/15/14	4/16/14	4/16/14	4/16/14	4/28/14	4/28/14	4/28/14	4/28/14 Field Duplicate	4/28/14	4/16/14	4/16/14 Field Duplicate	4/17/14	4/17/14	4/17/14
Lithological Formation					SA	UHG	UHG	UHG	SA	UHG	UHG	UHG	SA	UHG	UHG	UHG	UHG	SA	SA	UHG	UHG	UHG
Param	Value	Criterion	Units	Max. Detect																		
Volatile Organic Compounds (VOCs)																						
2-Butanone	4,200	GCTL Sys	µg/L	8,000	10 U	31	1,800	1,700	120	46	62	30	200 U	10 U	10 U	10 U	12	50 U	50 U	20 U	10 U	10 U
2-Hexanone	280	GCTL Sys	µg/L	180	10 U	10 U	180	110	50 U	10 U	10 U	10 U	200 U	10 U	10 U	10 U	10 U	50 U	50 U	20 U	10 U	10 U
4-Methyl-2-pentanone	560	GCTL Sys	µg/L	12	10 U	10 U	100 U	100 U	50 U	12	10 U	10 U	200 U	10 U	10 U	10 U	10 U	50 U	50 U	20 U	10 U	10 U
Acetone	6,300	GCTL Sys	µg/L	17,000	25 U	56	2,300	3,300	170	130	160	87	500 U	25 U	25 U	25 U	25 U	130 U	130 U	50 U	25 U	25 U
Benzene	1	ROD	µg/L	400	20	8.2	280	190	100	19	200	12	20 U	1 U	1 U	1 U	1 U	12	11	50	30	5.5
Bromodichloromethane	0.6	GCTL Car	µg/L	8.1	1 U	3.4	10 U	10 U	5 U	3.6	1 U	1 U	20 U	5.8	1 U	1 U	1 U	5 U	5 U	6.3	1 U	1 U
Bromoform	4.4	GCTL Car	µg/L	2.7	1 U	1 U	10 U	10 U	5 U	1 U	1 U	1 U	20 U	2	1 U	1 U	1 U	5 U	5 U	2 U	1 U	1 U
Chloroform	70	GCTL Sys	µg/L	14	1 U	6.2	10 U	10 U	5 U	12	1 U	5.5	20 U	9.3	1 U	1 U	1.5	5 U	5 U	6.4	1.4	1 U
Dibromochloromethane	0.4	GCTL Car	µg/L	8.7	1 U	3	10 U	10 U	5 U	2.9	1 U	1 U	20 U	5.3	1 U	1 U	1 U	5 U	5 U	6.2	1 U	1 U
Ethylbenzene	700	MCL FL DEP	µg/L	1,500	100	5.7	190	81	290	13	52	7.3	20 U	1 U	1 U	1 U	1 U	31	27	49	34	5.1
Isopropylbenzene	450	EPA RSL	µg/L	130	11	1 U	11	10 U	42	1 U	8.4	1 U	20 U	1 U	1 U	1 U	1 U	5 U	5 U	3.3	1.8	1 U
Methyl acetate	20,000	EPA RSL	µg/L	7,300	1 U	1.1	10	10 U	5 U	7.2	2	3.4	20 U*	1 U	1 U	1 U	1 U	5 U	5 U	2 U	1 U	1 U
Naphthalene	18	ROD	µg/L	2,700	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Toluene	1,000	MCL FL DEP	µg/L	6,700	100	42	1,400	740	890	110	28	44	20 U	1.2	1 U	1 U	1	670	590	320	100	32
Xylenes (Total)	10,000	MCL FL DEP	µg/L	3,000	160	12	350	150	420	29	130	22	40 U	5	2 U	2 U	2 U	32	28	84	48	8.6
Semi-Volatile Organic Compounds (SVOCs)																						
2,4-Dimethylphenol	140	GCTL Sys	µg/L	14,000	730	200 U	2,000 U	2,100	2,300	250	4,400	120	2,000	19 U	19 U	19 U	8.5	210	200	38	150	19 U
2-Methylnaphthalene	28	GCTL Sys	µg/L	1,100	36	20 U	200 U	200 U	97 U	9.9 U	77 U	3.9 U	99 U	1.9 U	1.9 U	1.9 U	0.2 U	20 U	20 U	2 U	2 U	1.9 U
2-Methylphenol	35	GCTL Sys	µg/L	28,000	170	200 U	2,200	2,500	1,400	280	770 U	74	1,600	19 U	19 U	19 U	2 U	210	200 U	40	32	20
3+4-Methylphenol	3.5	GCTL Sys	µg/L	64,000	220	450	11,000	10,000	6,100	700	770 U	240	9,700	19 U	19 U	19 U	2 U	1,300	1100	130	97	65
Acenaphthene	260	ROD	µg/L	75	75	20 U	200 U	200 U	97 U	9.9 U	77 U	3.9 U	99 U	1.9 U	1.9 U	1.9 U	0.2 U	20 U	20 U	2 U	2 U	1.9 U
Dibenzofuran	28	GCTL Sys	µg/L	86	86	100 U	1,000 U	990 U	490 U	49 U	390 U	19 U	500 U	9.7 U	9.6 U	9.6 U	1 U	99 U	100 U	9.9 U	9.8 U	9.6 U
Fluorene	323	ROD	µg/L	81	81	20 U	200 U	200 U	97 U	9.9 U	77 U	3.9 U	99 U	1.9 U	1.9 U	1.9 U	0.2 U	20 U	20 U	2 U	2 U	1.9 U
Naphthalene	18	ROD	µg/L	23,000	180	20 U	200 U	200 U	97 U	9.9 U	77 U	3.9 U	99 U	1.9 U	1.9 U	1.9 U	0.27	24	23	2 U	2 U	1.9 U
Phenanthrene	210	GCTL Sys	µg/L	2.4	10 U	20 U	200 U	200 U	97 U	9.9 U	77 U	3.9 U	99 U	1.9 U	1.9 U	1.9 U	0.2 U	20 U	20 U	2 U	2 U	1.9 U
Phenol	2,630	ROD	µg/L	96,000	50 U	110	5,100	6,200	2,900	600	390 U	160	6,800	9.7 U	9.6 U	9.6 U	1 U	99 U	100 U	86	76	45

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Table 1.1 Comparison of VOCs and SVOCs in Groundwater to Health-Based Criteria 2014 HG Investigation

				Location	WS-30								WS-31								WS-32							
				Well Screen Interval (feet bgs)	18-20		43-45		55-57		66-68		23-25		38-40		50-52		58-60		15-17		32-34		45-47		58-60	
				Sample Date	4/22/14		4/22/14		4/22/14		4/22/14		4/25/14		4/25/14		4/25/14		4/25/14		4/18/14		4/18/14		4/18/14		4/18/14	
				Lithological Formation	SA		UHG		UHG		UHG		SA		UHG		UHG		UHG		SA		UHG		UHG		UHG	
Param	**Value**	**Criterion**	**Units**	**Max. Detect**																								
Volatile Organic Compounds (VOCs)																												
2-Butanone	4,200	GCTL Sys	µg/L	8,000	10	U	10	U	50	U	50	U	120		410		69		2300		10	U	10	U	10	U	200	U
2-Hexanone	280	GCTL Sys	µg/L	180	10	U	10	U	50	U	50	U	100	U	100	U	10	U	200	U	10	U	10	U	10	U	200	U
4-Methyl-2-pentanone	560	GCTL Sys	µg/L	12	10	U	10	U	50	U	50	U	100	U	100	U	10	U	200	U	10	U	10	U	10	U	200	U
Acetone	6,300	GCTL Sys	µg/L	17,000	25	U	25	U	470		320		250	U	890		170		6,200		25	U	25	U	25	U	500	U
Benzene	1	ROD	µg/L	400	4.4		1	U	5	U	5	U	120		300		33		96		4		1	U	6		30	
Bromodichloromethane	0.6	GCTL Car	µg/L	8.1	1	U	8.1		5	U	5	U	10	U	10	U	1.7		20	U	1	U	7.8		1	U	20	U
Bromoform	4.4	GCTL Car	µg/L	2.7	1	U	2.1		5	U*	5	U*	10	U	10	U	1	U	20	U	1	U	2.7		1	U*	20	U
Chloroform	70	GCTL Sys	µg/L	14	1	U	14		5.1		8.5		10	U	10	U	2.3		20	U	1	U	11		1	U	20	U
Dibromochloromethane	0.4	GCTL Car	µg/L	8.7	1	U	8.7		5	U	5	U	10	U	10	U	1.5		20	U	1	U	8.4		1	U	20	U
Ethylbenzene	700	MCL FL DEP	µg/L	1,500	3.5		1	U	5	U	6		590		310		12		23		5.1		1	U	6		20	U
Isopropylbenzene	450	EPA RSL	µg/L	130	6.9		1	U	5	U	5	U	120		26		1	U	20	U	2		1	U	1		20	U
Methyl acetate	20,000	EPA RSL	µg/L	7,300	1	U	1	U	5	U	5	U	10	U*	10	U*	1	U*	20	U*	1	U	1	U	1	U	20	U
Naphthalene	18	ROD	µg/L	2,700	NT		NT		NT		NT		NT		NT		NT		NT		NT		NT		NT		NT	
Toluene	1,000	MCL FL DEP	µg/L	6,700	4.1		1	U	5	U	6		1,100		1000		43		240		3.5		1.4		10		20	U
Xylenes (Total)	10,000	MCL FL DEP	µg/L	3,000	8.3		2	U	10	U	10	U	1,700		560		24		51		9.7		2		12		40	U
Semi-Volatile Organic Compounds (SVOCs)																												
2,4-Dimethylphenol	140	GCTL Sys	µg/L	14,000	96	U	19	U	20	U	98	U	240		1000		300		1,200	U	73		20	U	390	U	390	
2-Methylnaphthalene	28	GCTL Sys	µg/L	1,100	9.6	U	1.9	U	3		9.8	U	46		99	U	13	U	120	U	15		3		180		38	U
2-Methylphenol	35	GCTL Sys	µg/L	28,000	96	U	19	U	20	U	98	U	180		990	U	180		1,200	U	18	U	20	U	390	U	380	U
3+4-Methylphenol	3.5	GCTL Sys	µg/L	64,000	200		19	U	20	U	160		390		3900		280		4,300		18	U	20	U	390	U	380	U
Acenaphthene	260	ROD	µg/L	75	9.6	U	1.9	U	2	U	9.8	U	13		99	U	13	U	120	U	24		2.1		53		38	U
Dibenzofuran	28	GCTL Sys	µg/L	86	48	U	9.7	U	9.9	U	49	U	49	U	500	U	64	U	610	U	17		9.9	U	190	U	190	U
Fluorene	323	ROD	µg/L	81	9.6	U	1.9	U	2	U	9.8	U	9.8	U	99	U	13	U	120	U	20		2	U	39	U	38	U
Naphthalene	18	ROD	µg/L	23,000	26		1.9	U	2.2		9.8	U	180		920		40		120	U	58		24		2,300		1,700	
Phenanthrene	210	GCTL Sys	µg/L	2.4	9.6	U	1.9	U	2.4		9.8	U	9.8	U	99	U	13	U	120	U	2		2	U	39	U	38	U
Phenol	2,630	ROD	µg/L	96,000	53		9.7	U	9.9	U	62		160		500	U	64	U	1,300		9.2	U	9.9	U	190	U	190	U

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* = Lab Control Spike or Lab Control Spike Duplicate exceeds the control limits.

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Health-Based criteria were retained, depending on availability, in the following order: ROD, MCL FL DEP, MCL US EPA, and GCTL. For isopropyl benzene and methyl acetate, US EPA RSLs were used.

MCL = Maximum Contaminant Levels established by Florida Department of Environmental Protection ("FL DEP") or US Environmental Protection Agency ("US

ROD = Record of Decision site-specific cleanup levels (US EPA, 1990).

GCTL Sys = GCTL Minimum Criteria, Systemic Toxicant.

GCTL M Car = GCTL Minimum Criteria, Carcinogen.

GCTL Org = GCTL Minimum Criteria, Organoleptic.

RSL = US EPA Regional Screening Levels for Tapwater.

+ 35 µg/L is the GCTL for 3-methylphenol, and 3.5 µg/L is the GCTL for 4-methylphenol. Florida DEP GCTL Criteria values accessed April 2013 at: http://www.dep.state.fl.us/waste/quick_topics/publications/wc/FinalGuidanceDocumentsFlowCharts_April2005/TechnicalReport2FinalFeb2005%28Final3-28-05%29.pdf.

US EPA MCL criteria values accessed April 2013 at: http://water.epa.gov/drink/contaminants/#7.

Florida DEP MCL criteria values accessed April 2013 at: http://www.dep.state.fl.us/water/drinkingwater/vol_con.htm and /syn_con.htm.

US EPA RSL criteria values accessed June 2014 at:

Light gray = Detection limit of not detected analyte exceeds health-based criteria.

Dark gray = Detected analyte exceeds health-based criteria.

SA = Surficial Aquifer; UHG = Upper Hawthorn Group; LHG = Lower Hawthorn Group.

Table 1.2 Summary of HG Monitoring Well Groundwater Analytical Data (2011-2013)

Location				HG-20S		HG-20D		HG-26S				HG-26D				HG-28S						HG-28D						HG-29S									
Well Screen Interval (feet bgs)				30 - 40		74 - 84		34.4-44.1		34.4-44.1		84.2-93.9		84.2-93.9		45-54		45-54		45-55		82-92		82-92		82-92		45.8-55.8		45.8-55.8		45.8-55.8		45.8-55.8			
Sample Date				4/25/13		4/24/13		11/18/11		4/25/13		11/18/11		4/24/13		11/17/11		3/29/12		4/23/13		11/17/11		3/28/12		4/24/13		11/18/11		3/29/12		4/23/13		4/23/13			
Analyte	Health-Based Criteria Value	Source	Max Detect																															Field Duplicate			
Volatile Organic Compounds (VOCs), µg/L																																					
2-Butanone	4,200	GCTL Sys	9,800	25	U	10	U	10	U	100	U	10	U	100	U	10,000	HD	7,600		6,300		61		10	U	25	U	130		9,800		5,600		4,100			
Acetone	6,300	GCTL Sys	25,000	25	U	10	U	25	U	100	U	25	U	100	U	25,000	HD	20,000		19,000		160		25	U	25	U	610	B	17,000		25,000		21,000			
Benzene	1	ROD	390	3.3		1.2		13		13		14		13		200	HD	210		250	U	65		78		70		20		390		380		330	U		
Chloroform	70	GCTL Sys	2.6	2.5	U	1	U	1	U	10	U	1	U	10	U	100	UH	100	U	250	U	1	U	1	U	2.5	U	10	U	100	U	330	U	330	U		
Ethylbenzene	700	MCL FL DEP	110	2.7		1	U	21		18		13		10	U	100	UHD	100	U	250	U	20		22		19		14		110		330	U	330	U		
Isopropylbenzene	450	EPA RSL	10	2.5	U	1	U	NT		10	U	NT		10	U	NT		NT		250	U	NT		NT		2.5	U	NT		NT		330	U	330	U		
Methyl acetate	20,000	EPA RSL	4,600	25	U	10	U	NT		100	U	NT		100	U	NT		NT		4,600		NT		NT		25	U	NT		NT		3,300	U	3,300	U		
Tetrachloroethene	3	MCL FL DEP	2.4	2.5	U	1	U	1	U	10	U	1	U	10	U	100	UH	100	U	250	U	1	U	1	U	2.5	U	10	U	100	U	330	U	330	U		
Toluene	1,000	MCL FL DEP	1,900	2.5	U	1	U	6.3		10	U	9.2		10	U	840	HD	880		480		4.7		3.3		2.5	U	130		1,900		1,800		1,300			
Xylenes (Total)	10,000	MCL FL DEP	250	5	U	2	U	40		27		25		20	U	200	UHD	200	U	500	U	35		39		35		33		250		670	U	670	U		
Semi-Volatile Organic Compounds (SVOCs), µg/L																																					
2,4-Dimethylphenol	140	GCTL Sys	11,000	26		26		190	U	110	U	320		230		11,000	U	10,000	U	10,000		870		1,000		830		360		11,000		11,000		4,200	U		
2-Methylnaphthalene	28	GCTL Sys	570	14		1.6		190	UJ	100		98	U	29		11,000	U	10,000	U	520	U	99	U	95	U	7.8	U	210	U	6,000	U	460	U	420	U		
2-Methylphenol	35	GCTL Sys	21,000	5.3	U	4.1	U	190	U	53	U	98	U	24	U	20,000		17,000		21,000		99	U	95	U	39	U	620		17,000		20,000		7,900			
3+4-Methylphenol	35, 3.5+	GCTL Sys	57,000	11	U	8.2	U	190	U	110	U	98	U	48	U	43,000		37,000		51,000		99	U	95	U	78	U	1,900		42,000		57,000		22,000			
Acenaphthene	260	ROD	380	12		0.82	U	200		200		98	U	5.9		11,000	U	10,000	U	520	U	99	U	95	U	7.8	U	210	U	6,000	U	460	U	420	U		
Acenaphthylene	130	ROD	4.5	1.1	U	0.82	U	190	U	11	U	98	U	4.8	U	11,000	U	10,000	U	520	U	99	U	95	U	7.8	U	210	U	6,000	U	460	U	420	U		
Anthracene	2,100	GCTL Sys	5.5	1.1	U	0.82	U	190	U	11	U	98	U	4.8	U	11,000	U	10,000	U	520	U	99	U	95	U	7.8	U	210	U	6,000	U	460	U	420	U		
Carbazole	1.8	GCTL Car	230	13		4.1	U	190	U	110		98	U	24	U	11,000	U	10,000	U	2,600	U	99	U	95	U	39	U	210	U	6,000	U	2,300	U	2,100	U		
Dibenzofuran	28	GCTL Sys	220	6.1		4.1	U	190	UJ	78		98	U	24	U	11,000	U	10,000	U	2,600	U	99	U	95	U	39	U	210	U	6,000	U	2,300	U	2,100	U		
Fluorene	323	ROD	200	5.8		0.82	U	190	UJ	83		98	U	4.8	U	11,000	U	10,000	U	520	U	99	U	95	U	7.8	U	210	U	6,000	U	460	U	420	U		
Naphthalene	18	ROD	2,600	130		84		2,000		2,100		1,800		700		11,000	U	10,000	U	520	U	130		120		81		210	U	6,000	U	460	U	420	U		
Phenanthrene	210	GCTL Sys	41	1.3		0.82	U	190	U	11	U	98	U	4.8	U	11,000	U	10,000	U	520	U	99	U	95	U	7.8	U	210	U	6,000	U	460	U	420	U		
Phenol	2,630	ROD	83,000	5.3	U	4.1	U	190	U	53	U	98	U	24	U	63,000		61,000		83,000		99	U	95	U	39	U	1,700		51,000		76,000		29,000			

Notes:

U = Analyte not detected, detection limit shown.

H = Sample was prepped or analyzed beyond the specified holding time.

D = Dilution analysis performed due to the original result exceeding the calibration range.

J = Estimated value.

B = Analyte was detected in the method blank.

NT = Analyte not tested.

µg/L = micrograms per liter.

GCTL are Florida Groundwater Clean-Up Target Levels, as provided in Florida Department of State Rule Chapter 62-777, Florida Administrative Code (F. A. C.). See also GCTL Technical Report (University of Florida, 2005).

Health-Based criteria were retained, depending on availability, in the following order: ROD, MCL FL DEP, MCL US EPA, and GCTL. For isopropyl benzene and methyl acetate, US EPA RSLs were used.

MCL = Maximum Contaminant Levels established by Florida Department of Environmental Protection ("FL DEP") or US Environmental Protection Agency ("US EPA").

ROD = Record of Decision site-specific cleanup levels. (US EPA, 1990).

GCTL Sys = GCTL Minimum Criteria, Systemic Toxicant.

GCTL M Car = GCTL Minimum Criteria, Carcinogen.

GCTL Org = GCTL Minimum Criteria, Organoleptic.

RSL = US EPA Regional Screening Levels for Tapwater.

+ 35 µg/L is the GCTL for 3-methylphenol, and 3.5 µg/L is the GCTL for 4-methylphenol.

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US EPA MCL criteria values accessed April 2013 at: http://water.epa.gov/drink/contaminants/#7

Florida DEP MCL criteria values accessed April 2013 at: http://www.dep.state.fl.us/water/drinkingwater/vol_con.htm and /syn_con.htm

US EPA RSL criteria values accessed June 2014 at: http://www.epa.gov/region9/superfund/prg/

Light gray = Detection limit of not detected analyte exceeds health-based criteria

Dark gray = Detected analyte exceeds health-based criteria

Table 1.2 Summary of HG Monitoring Well Groundwater Analytical Data (2011-2013)

Location				HG-29D										HG-30S						HG-30D					
Well Screen Interval (feet bgs)				87-97		87-97		87-97		87-97		87-97		56-66		56-66		56-66		93-103		93-103		93-103	
Sample Date				11/18/11		3/28/12		3/28/12		4/24/13		5/16/13		11/16/11		3/29/12		4/25/13		11/16/11		3/28/12		4/25/13	
	Health-Based Criteria							Field Duplicate																	
Analyte	Value	Source	Max Detect																						
Volatile Organic Compounds (VOCs), µg/L																									
2-Butanone	4,200	GCTL Sys	9,800	2,700		2,700		2,800		2,800		2,700		9,700	J	7,800		3,400		100	U	10	U	100	U
Acetone	6,300	GCTL Sys	25,000	7,500	B	7,100		7,600		7,300		7,700		18,000	J	15,000		11,000		1,600		25	U	100	U
Benzene	1	ROD	390	120		120		120		200	U	100		280	J	250		140	U	28		42		34	
Chloroform	70	GCTL Sys	2.6	50	U	50	U	50	U	200	U	100	U	100	UJ	100	U	140	U	10	U	1	U	10	U
Ethylbenzene	700	MCL FL DEP	110	50	U	50	U	50	U	200	U	100	U	100	UJ	100	U	140	U	12		20		24	
Isopropylbenzene	450	EPA RSL	10	NT		NT		NT		200	U	100	U	NT		NT		140	U	NT		NT		10	U
Methyl acetate	20,000	EPA RSL	4,600	NT		NT		NT		2,000	U	1,000	U	NT		NT		1,400	U	NT		NT		100	U
Tetrachloroethene	3	MCL FL DEP	2.4	50	U	50	U	50	U	200	U	100	U	100	UJ	100	U	140	U	10	U	1	U	10	U
Toluene	1,000	MCL FL DEP	1,900	340		300		290		210		330		1,200	J	1,000		460		13		23		10	U
Xylenes (Total)	10,000	MCL FL DEP	250	100	U	100	U	100	U	400	U	200	U	200	UJ	200	U	290	U	20	U	34		46	
Semi-Volatile Organic Compounds (SVOCs), µg/L																									
2,4-Dimethylphenol	140	GCTL Sys	11,000	4,800	U	4,700	U	4,800	U	4,300	U	3,800	H	3,300		9,500		1,500		810		810		720	
2-Methylnaphthalene	28	GCTL Sys	570	4,800	U	4,700	U	4,800	U	430	U	220	UH	2,000	U	5,200	U	52	U	100	U	97	U	84	
2-Methylphenol	35	GCTL Sys	21,000	4,800	U	4,800		5,300		6,000		5,800	H	7,100		18,000		3,500		100	U	150		50	U
3+4-Methylphenol	35, 3.5+	GCTL Sys	57,000	35,000		34,000		36,000		45,000		44,000	H	19,000		46,000		12,000		230		97	U	99	U
Acenaphthene	260	ROD	380	4,800	U	4,700	U	4,800	U	430	U	220	UH	2,000	U	5,200	U	52	U	100	U	97	U	22	
Acenaphthylene	130	ROD	4.5	4,800	U	4,700	U	4,800	U	430	U	220	UH	2,000	U	5,200	U	52	U	100	U	97	U	9.9	U
Anthracene	2,100	GCTL Sys	5.5	4,800	U	4,700	U	4,800	U	430	U	220	UH	2,000	U	5,200	U	52	U	100	U	97	U	9.9	U
Carbazole	1.8	GCTL Car	230	4,800	U	4,700	U	4,800	U	2,100	U	1,100	UH	2,000	U	5,200	U	260	U	100	U	97	U	50	U
Dibenzofuran	28	GCTL Sys	220	4,800	U	4,700	U	4,800	U	2,100	U	1,100	UH	2,000	U	5,200	U	260	U	100	U	97	U	50	U
Fluorene	323	ROD	200	4,800	U	4,700	U	4,800	U	430	U	220	UH	2,000	U	5,200	U	52	U	100	U	97	U	9.9	U
Naphthalene	18	ROD	2,600	4,800	U	4,700	U	4,800	U	430	U	290	H	2,000	U	5,200	U	52	U	650		630		1,600	
Phenanthrene	210	GCTL Sys	41	4,800	U	4,700	U	4,800	U	430	U	220	UH	2,000	U	5,200	U	52	U	100	U	97	U	9.9	U
Phenol	2,630	ROD	83,000	12,000		13,000		14,000		21,000		21,000	H	23,000		64,000		7,000		100	U	97	U	50	U

Notes:

U = Analyte not detected, detection limit shown.

H = Sample was prepped or analyzed beyond the specified holding time.

D = Dilution analysis performed due to the original result exceeding the calibration range.

J = Estimated value.

B = Analyte was detected in the method blank.

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US EPA RSL criteria values accessed June 2014 at: http://www.epa.gov/region9/superfund/prg/

Light gray = Detection limit of not detected analyte exceeds health-based criteria

Dark gray = Detected analyte exceeds health-based criteria

Table 1.3 Comparison of VOCs and SVOCs in Soil to FDEP Direct Exposure Criteria 2014 HG Investigation

			Location	SB-25				SB-26					SB-30				SB-31					
			Sample Interval (feet bgs)	10-15	40-45	45-50	55-60	10-15	20-25	30-35	45-50	55-60	20-25	40-45	5-10	65-70	10-15	30-35	30-35	50-55	5-10	55-60
			Sample Date	4/8/14	4/9/14	4/9/14	4/9/14	4/10/14	4/10/14	4/10/14	4/10/14	4/10/14	4/21/14	4/21/14	4/21/14	4/21/14	4/24/14	4/24/14	4/24/14	4/24/14	4/24/14	4/24/14
																		Field Duplicate				
Param	Direct Exposure Industrial Criteria	Units	Lithological Formation Max. Detect	SA	UHG	UHG	UHG	SA	SA	UHG	UHG	UHG	SA	UHG	SA	UHG	SA	UC/UHG	UC/UHG	UHG	SA	UHG
Volatile Organic Compounds (VOCs)																						
2-Butanone	110,000	mg/Kg	2.6	1.30 U	0.03 U	0.03 U	0.03 U	1.30 U	0.03 U	1.10 U	2.30	0.03 U	0.07	0.03 U	1.60 U	0.02 U	290 U	0.06	0.05	2.4 U	58 U	2.6
Acetone	68,000	mg/Kg	6	2.60 U	0.05 U	0.06 U	0.06 U	2.60 U	0.05 U	2.10 U	3.40	0.06 U	0.18	0.05 U	3.20 U	0.03 U	570 U	0.16	0.14	4.8 U	120 U	6
Benzene	1.70	mg/Kg	0.03	0.26 U	0.02	0.02	0.01	0.26 U	0.01 U	0.21 U	0.18 U	0.03	0.00 U	0.01 U	0.32 U	0.00 U	57 U	0.024	0.015	0.48 U	12 U	0.5 U
Ethylbenzene	9,200	mg/Kg	170	0.43	0.01	0.02	0.01 U	0.28	0.01	0.21 U	0.18 U	0.01	0.02	0.01 U	0.94	0.00 U	170	0.082	0.057	0.48 U	36	0.5 U
Isopropylbenzene	1,200	mg/Kg	0.6	0.26 U	0.01 U	0.01 U	0.01 U	0.26 U	0.01 U	0.21 U	0.18 U	0.01 U	0.00 U	0.01 U	0.61	0.00 U	57 U	0.0085	0.0057	0.48 U	12 U	0.5 U
Methyl acetate	38,000	mg/Kg	0.6	0.52 U	0.01 U	0.01 U	0.01 U	0.52 U	0.01 U	0.42 U	0.36 U	0.01 U	0.01 U	0.01 U	0.63	0.01 U	110 U*	0.011 U*	0.011 U*	0.96 U*	23 U*	1 U*
Toluene	60,000	mg/Kg	100	0.33	0.01 U	0.01	0.01 U	0.26 U	0.03	0.59	0.81	0.01 U	0.03	0.01 U	1.80	0.00 U	100	0.19	0.12	0.48 U	23	0.5 U
Xylenes (Total)	700	mg/Kg	510	0.93	0.02	0.04	0.01 U	0.90	0.03	0.42 U	0.36 U	0.02	0.02	0.01 U	3.30	0.01 U	510	0.14	0.1	0.96 U	110	1 U
Semi-Volatile Organic Compounds (SVOCs)																						
2,4-Dimethylphenol	18,000	mg/Kg	30	0.27	0.09 U	0.09 U	0.09 U	0.42	0.38 U	0.42 U	0.93	0.42 U	0.38 U	0.09 U	30.00	0.08 U	8.8 U	0.14	0.16	4.4 U	4 U	4.3 U
2-Methylnaphthalene	2,100	mg/Kg	18	0.04	0.01 U	0.01	0.01 U	0.08	0.07	0.04 U	0.09 U	0.04 U	0.04 U	0.01 U	18.00	0.01 U	5.1	0.056	0.06	0.45 U	1.1	0.43 U
2-Methylphenol	31,000	mg/Kg	1.3	0.05	0.04 U	0.05 U	0.04 U	0.24	0.19 U	0.21 U	1.30	0.21 U	0.23	0.05 U	5.90 U	0.04 U	4.4 U	0.1	0.11	2.2 U	2 U	2.1 U
3+4-Methylphenol	3,400	mg/Kg	12	0.12	0.04 U	0.05 U	0.04 U	0.90	0.31	0.28	5.20	0.21 U	1.80	0.05 U	12.00	0.04 U	4.4 U	0.045 U	0.042 U	2.2 U	2 U	2.1 U
Acenaphthene	20,000	mg/Kg	3.6	0.01	0.01 U	0.01 U	0.01 U	0.04 U	0.18	0.04 U	0.09 U	0.04 U	0.04 U	0.01 U	3.60	0.01 U	0.89 U	0.0091 U	0.0085 U	0.45 U	0.4 U	0.43 U
Acenaphthylene	20,000	mg/Kg	4.6	0.01 U	0.01 U	0.01 U	0.01 U	0.04 U	0.04 U	0.04 U	0.09 U	0.04 U	0.04 U	0.01 U	4.60	0.01 U	0.89 U	0.0091 U	0.0085 U	0.45 U	0.4 U	0.43 U
Anthracene	300,000	mg/Kg	1.8	0.01 U	0.01 U	0.01 U	0.01 U	0.04 U	0.04 U	0.04 U	0.09 U	0.04 U	0.04 U	0.01 U	1.80	0.01 U	0.89 U	0.0091 U	0.0085 U	0.45 U	0.4 U	0.43 U
Fluoranthene	59,000	mg/Kg	5.1	0.01 U	0.01 U	0.01 U	0.01 U	0.04 U	0.04 U	0.04 U	0.09 U	0.04 U	0.04 U	0.01 U	5.10	0.01 U	0.89 U	0.0091 U	0.0085 U	0.45 U	0.4 U	0.43 U
Fluorene	33,000	mg/Kg	0.2	0.01 U	0.01 U	0.01 U	0.01 U	0.04 U	0.15	0.04 U	0.09 U	0.04 U	0.04 U	0.01 U	1.20 U	0.01 U	0.89 U	0.0091 U	0.0085 U	0.45 U	0.4 U	0.43 U
Naphthalene	300	mg/Kg	11	0.07	0.10	0.28	0.02	0.09	0.48	0.13	0.09 U	0.04 U	0.04 U	0.01 U	11.00	0.01 U	8.9	0.51	0.57	0.45 U	1.7	0.43 U
Phenanthrene	36,000	mg/Kg	14	0.02	0.01 U	0.01 U	0.01 U	0.04 U	0.04 U	0.04 U	0.09 U	0.04 U	0.04 U	0.01 U	14.00	0.01 U	1	0.0091 U	0.0085 U	0.45 U	0.4 U	0.43 U
Phenol	220,000	mg/Kg	3.5	0.04 U	0.04 U	0.05 U	0.04 U	0.21	0.19 U	0.21 U	3.50	0.21 U	0.77	0.05 U	5.90 U	0.04 U	4.4 U	0.045 U	0.042 U	2.2 U	2 U	2.1 U
Carcinogenic Polycyclic Aromatic Hydrocarbons (PAHs)																						
Benzo(a)anthracene	6.60	mg/Kg	1.3	0.01 U	0.01 U	0.01 U	0.01 U	0.04 U	0.04 U	0.04 U	0.09 U	0.04 U	0.04 U	0.01 U	1.30	0.01 U	0.89 U	0.0091 U	0.0085 U	0.45 U	0.4 U	0.43 U
Benzo(a)pyrene	0.70	mg/Kg	All ND	0.01 U	0.01 U	0.01 U	0.01 U	0.04 U	0.04 U	0.04 U	0.09 U	0.04 U	0.04 U	0.01 U	1.20 U	0.01 U	0.89 U	0.0091 U	0.0085 U	0.45 U	0.4 U	0.43 U
Benzo(b)fluoranthene	6.50	mg/Kg	All ND	0.01 U	0.01 U	0.01 U	0.01 U	0.04 U	0.04 U	0.04 U	0.09 U	0.04 U	0.04 U	0.01 U	1.20 U	0.01 U	0.89 U	0.0091 U	0.0085 U	0.45 U	0.4 U	0.43 U
Benzo(k)fluoranthene	66	mg/Kg	All ND	0.01 U	0.01 U	0.01 U	0.01 U	0.04 U	0.04 U	0.04 U	0.09 U	0.04 U	0.04 U	0.01 U	1.20 U	0.01 U	0.89 U	0.0091 U	0.0085 U	0.45 U	0.4 U	0.43 U
Chrysene	640	mg/Kg	1.2	0.01 U	0.01 U	0.01 U	0.01 U	0.04 U	0.04 U	0.04 U	0.09 U	0.04 U	0.04 U	0.01 U	1.20	0.01 U	0.89 U	0.0091 U	0.0085 U	0.45 U	0.4 U	0.43 U
Dibenzo(a,h)anthracene	0.70	mg/Kg	All ND	0.01 U	0.01 U	0.01 U	0.01 U	0.04 U	0.04 U	0.04 U	0.09 U	0.04 U	0.04 U	0.01 U	1.20 U	0.01 U	0.89 U	0.0091 U	0.0085 U	0.45 U	0.4 U	0.43 U
Indeno(1,2,3-cd)pyrene	6.60	mg/Kg	All ND	0.01 U	0.01 U	0.01 U	0.01 U	0.04 U	0.04 U	0.04 U	0.09 U	0.04 U	0.04 U	0.01 U	1.20 U	0.01 U	0.89 U	0.0091 U	0.0085 U	0.45 U	0.4 U	0.43 U
Total B(a)P Equivalent	0.7 #	mg/Kg	1.5	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U	0.04 U	0.05 U	0.10 U	0.05 U	0.05 U	0.01 U	1.46	0.01 U	1.03 U	0.01 U	0.01 U	0.52 U	0.46 U	0.50 U

Notes:
U = Analyte not detected, detection limit shown.
* = Lab Control Spike or Lab Control Spike Duplicate exceeds the control limits.
mg/Kg = milligrams per kilogram.
Florida DEP Direct Exposure Criteria values accessed April 2013 at:
http://www.dep.state.fl.us/waste/quick_topics/publications/wc/FinalGuidanceDocumentsFlowCharts_April2005/TechnicalReport2FinalFeb2005%28Final3-28-05%29.pdf.

= Site concentrations for carcinogenic polycyclic aromatic hydrocarbons must be converted to Benzo(a)pyrene equivalents before comparison with the appropriate direct exposure SCTL for Benzo(a)pyrene using the approach described in the February 2005 'Final Technical Report: Development of Cleanup Target Levels (CTLs) for Chapter 62-777, F.A.C.'

Light gray = Detection limit of not detected analyte exceeds direct exposure c
Dark gray = Detected analyte exceeds direct exposure criteria.

SA = Surficial Aquifer; UHG = Upper Hawthorn Group; LHG = Lower Hawthorn Group.