



ANALYTICAL RESULTS

Project: JAKE HUGGINS
Pace Project No.: 92694109

Sample: FB		Lab ID: 92694109022		Collected: 10/16/23 13:57		Received: 10/18/23 08:10		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP		Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0074	1	10/24/23 11:45	10/24/23 22:35	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	84	%	60-140		1	10/24/23 11:45	10/24/23 22:35	301-79-56	
8260 MSV		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		10/23/23 13:59	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		10/23/23 13:59	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		10/23/23 13:59	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		10/23/23 13:59	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		10/23/23 13:59	75-65-0	v2
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		10/23/23 13:59	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		10/23/23 13:59	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		10/23/23 13:59	108-20-3	
Ethanol	ND	ug/L	200	144	1		10/23/23 13:59	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		10/23/23 13:59	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		10/23/23 13:59	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		10/23/23 13:59	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		10/23/23 13:59	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		10/23/23 13:59	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		10/23/23 13:59	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		10/23/23 13:59	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		10/23/23 13:59	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		10/23/23 13:59	460-00-4	
1,2-Dichloroethane-d4 (S)	89	%	70-130		1		10/23/23 13:59	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		10/23/23 13:59	2037-26-5	

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ANALYTICAL RESULTS

Project: JAKE HUGGINS
Pace Project No.: 92694109

Sample: TB		Lab ID: 92694109023		Collected: 10/16/23 08:00		Received: 10/18/23 08:10		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		10/23/23 14:17	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		10/23/23 14:17	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		10/23/23 14:17	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		10/23/23 14:17	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		10/23/23 14:17	75-65-0	v2
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		10/23/23 14:17	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		10/23/23 14:17	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		10/23/23 14:17	108-20-3	
Ethanol	ND	ug/L	200	144	1		10/23/23 14:17	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		10/23/23 14:17	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		10/23/23 14:17	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		10/23/23 14:17	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		10/23/23 14:17	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		10/23/23 14:17	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		10/23/23 14:17	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		10/23/23 14:17	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		10/23/23 14:17	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	103	%	70-130		1		10/23/23 14:17	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	70-130		1		10/23/23 14:17	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		10/23/23 14:17	2037-26-5	

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ANALYTICAL RESULTS

Project: JAKE HUGGINS

Pace Project No.: 92694109

Sample: GAC Lab ID: 92694109024 Collected: 10/16/23 14:00 Received: 10/18/23 08:10 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0076	1	10/24/23 11:45	10/24/23 22:45	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	84	%	60-140		1	10/24/23 11:45	10/24/23 22:45	301-79-56	
8260 MSV Analytical Method: EPA 8260D Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		10/23/23 17:13	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		10/23/23 17:13	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		10/23/23 17:13	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		10/23/23 17:13	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		10/23/23 17:13	75-65-0	v2
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		10/23/23 17:13	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		10/23/23 17:13	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		10/23/23 17:13	108-20-3	
Ethanol	ND	ug/L	200	144	1		10/23/23 17:13	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		10/23/23 17:13	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		10/23/23 17:13	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		10/23/23 17:13	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		10/23/23 17:13	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		10/23/23 17:13	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		10/23/23 17:13	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		10/23/23 17:13	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		10/23/23 17:13	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		10/23/23 17:13	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		10/23/23 17:13	17060-07-0	
Toluene-d8 (S)	106	%	70-130		1		10/23/23 17:13	2037-26-5	

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ANALYTICAL RESULTS

Project: JAKE HUGGINS
Pace Project No.: 92694109

Sample: WSW-1		Lab ID: 92694109025		Collected: 10/16/23 14:15		Received: 10/18/23 08:10		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
504 GCS EDB and DBCP		Analytical Method: EPA 504.1 Preparation Method: EPA 504.1 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0055	1	10/24/23 11:48	10/24/23 16:01	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	80	%	70-130		1	10/24/23 11:48	10/24/23 16:01	301-79-56	
524.2 MSV SC List		Analytical Method: EPA 524.2 Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	0.21	1		10/20/23 17:10	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.16	1		10/20/23 17:10	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.22	1		10/20/23 17:10	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.14	1		10/20/23 17:10	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.35	1		10/20/23 17:10	91-20-3	
Toluene	ND	ug/L	0.50	0.20	1		10/20/23 17:10	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.22	1		10/20/23 17:10	1330-20-7	
m&p-Xylene	ND	ug/L	1.0	0.39	1		10/20/23 17:10	179601-23-1	
o-Xylene	ND	ug/L	0.50	0.22	1		10/20/23 17:10	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	104	%	70-130		1		10/20/23 17:10	2199-69-1	
4-Bromofluorobenzene (S)	95	%	70-130		1		10/20/23 17:10	460-00-4	
8260 MSV Low Level SC		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		10/20/23 23:15	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		10/20/23 23:15	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		10/20/23 23:15	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		10/20/23 23:15	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		10/20/23 23:15	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		10/20/23 23:15	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		10/20/23 23:15	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		10/20/23 23:15	637-92-3	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		10/20/23 23:15	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		10/20/23 23:15	17060-07-0	
Toluene-d8 (S)	107	%	70-130		1		10/20/23 23:15	2037-26-5	

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ANALYTICAL RESULTS

Project: JAKE HUGGINS
Pace Project No.: 92694109

Sample: WSW-2		Lab ID: 92694109026		Collected: 10/16/23 14:25		Received: 10/18/23 08:10		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
504 GCS EDB and DBCP		Analytical Method: EPA 504.1 Preparation Method: EPA 504.1 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.0054	1	10/24/23 11:48	10/24/23 16:12	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	86	%	70-130		1	10/24/23 11:48	10/24/23 16:12	301-79-56	
524.2 MSV SC List		Analytical Method: EPA 524.2 Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	0.21	1		10/20/23 17:36	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.16	1		10/20/23 17:36	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.22	1		10/20/23 17:36	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.14	1		10/20/23 17:36	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.35	1		10/20/23 17:36	91-20-3	
Toluene	ND	ug/L	0.50	0.20	1		10/20/23 17:36	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.22	1		10/20/23 17:36	1330-20-7	
m&p-Xylene	ND	ug/L	1.0	0.39	1		10/20/23 17:36	179601-23-1	
o-Xylene	ND	ug/L	0.50	0.22	1		10/20/23 17:36	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	103	%	70-130		1		10/20/23 17:36	2199-69-1	
4-Bromofluorobenzene (S)	93	%	70-130		1		10/20/23 17:36	460-00-4	
8260 MSV Low Level SC		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		10/22/23 19:00	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		10/22/23 19:00	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		10/22/23 19:00	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		10/22/23 19:00	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		10/22/23 19:00	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		10/22/23 19:00	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		10/22/23 19:00	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		10/22/23 19:00	637-92-3	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		10/22/23 19:00	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130		1		10/22/23 19:00	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		10/22/23 19:00	2037-26-5	

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ANALYTICAL RESULTS

Project: JAKE HUGGINS
Pace Project No.: 92694109

Sample: WSW-DUP		Lab ID: 92694109027		Collected: 10/16/23 00:00		Received: 10/18/23 08:10		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
504 GCS EDB and DBCP		Analytical Method: EPA 504.1 Preparation Method: EPA 504.1 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0055	1	10/24/23 11:48	10/24/23 16:22	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	82	%	70-130		1	10/24/23 11:48	10/24/23 16:22	301-79-56	
524.2 MSV SC List		Analytical Method: EPA 524.2 Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	0.21	1		10/20/23 18:03	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.16	1		10/20/23 18:03	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.22	1		10/20/23 18:03	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.14	1		10/20/23 18:03	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.35	1		10/20/23 18:03	91-20-3	
Toluene	ND	ug/L	0.50	0.20	1		10/20/23 18:03	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.22	1		10/20/23 18:03	1330-20-7	
m&p-Xylene	ND	ug/L	1.0	0.39	1		10/20/23 18:03	179601-23-1	
o-Xylene	ND	ug/L	0.50	0.22	1		10/20/23 18:03	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	103	%	70-130		1		10/20/23 18:03	2199-69-1	
4-Bromofluorobenzene (S)	93	%	70-130		1		10/20/23 18:03	460-00-4	
8260 MSV Low Level SC		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		10/20/23 18:42	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		10/20/23 18:42	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		10/20/23 18:42	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		10/20/23 18:42	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		10/20/23 18:42	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		10/20/23 18:42	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		10/20/23 18:42	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		10/20/23 18:42	637-92-3	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		10/20/23 18:42	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70-130		1		10/20/23 18:42	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		10/20/23 18:42	2037-26-5	

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ANALYTICAL RESULTS

Project: JAKE HUGGINS
Pace Project No.: 92694109

Sample: WSW-FB		Lab ID: 92694109028		Collected: 10/16/23 14:32		Received: 10/18/23 08:10		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
504 GCS EDB and DBCP		Analytical Method: EPA 504.1 Preparation Method: EPA 504.1 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.0055	1	10/24/23 11:48	10/24/23 16:33	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	81	%	70-130		1	10/24/23 11:48	10/24/23 16:33	301-79-56	
524.2 MSV SC List		Analytical Method: EPA 524.2 Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	0.21	1		10/20/23 14:33	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.16	1		10/20/23 14:33	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.22	1		10/20/23 14:33	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.14	1		10/20/23 14:33	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.35	1		10/20/23 14:33	91-20-3	
Toluene	ND	ug/L	0.50	0.20	1		10/20/23 14:33	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.22	1		10/20/23 14:33	1330-20-7	
m&p-Xylene	ND	ug/L	1.0	0.39	1		10/20/23 14:33	179601-23-1	
o-Xylene	ND	ug/L	0.50	0.22	1		10/20/23 14:33	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	105	%	70-130		1		10/20/23 14:33	2199-69-1	
4-Bromofluorobenzene (S)	95	%	70-130		1		10/20/23 14:33	460-00-4	
8260 MSV Low Level SC		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		10/20/23 20:49	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		10/20/23 20:49	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		10/20/23 20:49	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		10/20/23 20:49	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		10/20/23 20:49	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		10/20/23 20:49	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		10/20/23 20:49	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		10/20/23 20:49	637-92-3	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		10/20/23 20:49	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		10/20/23 20:49	17060-07-0	
Toluene-d8 (S)	108	%	70-130		1		10/20/23 20:49	2037-26-5	

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ANALYTICAL RESULTS

Project: JAKE HUGGINS

Pace Project No.: 92694109

Sample: WSW-TB		Lab ID: 92694109029		Collected: 10/16/23 08:00		Received: 10/18/23 08:10		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV SC List									
Analytical Method: EPA 524.2									
Pace Analytical Services - Charlotte									
Benzene	ND	ug/L	0.50	0.21	1		10/20/23 14:59	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.16	1		10/20/23 14:59	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.22	1		10/20/23 14:59	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.14	1		10/20/23 14:59	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.35	1		10/20/23 14:59	91-20-3	
Toluene	ND	ug/L	0.50	0.20	1		10/20/23 14:59	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.22	1		10/20/23 14:59	1330-20-7	
m&p-Xylene	ND	ug/L	1.0	0.39	1		10/20/23 14:59	179601-23-1	
o-Xylene	ND	ug/L	0.50	0.22	1		10/20/23 14:59	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	105	%	70-130		1		10/20/23 14:59	2199-69-1	
4-Bromofluorobenzene (S)	94	%	70-130		1		10/20/23 14:59	460-00-4	
8260 MSV Low Level SC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		10/20/23 21:07	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		10/20/23 21:07	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		10/20/23 21:07	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		10/20/23 21:07	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		10/20/23 21:07	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		10/20/23 21:07	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		10/20/23 21:07	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		10/20/23 21:07	637-92-3	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		10/20/23 21:07	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		10/20/23 21:07	17060-07-0	
Toluene-d8 (S)	109	%	70-130		1		10/20/23 21:07	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: JAKE HUGGINS
Pace Project No.: 92694109

QC Batch: 807849 Analysis Method: EPA 524.2
QC Batch Method: EPA 524.2 Analysis Description: 524.2 MSV
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92694109025, 92694109026, 92694109027, 92694109028, 92694109029

METHOD BLANK: 4183150 Matrix: Water
Associated Lab Samples: 92694109025, 92694109026, 92694109027, 92694109028, 92694109029

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	0.50	0.16	10/20/23 13:14	
Benzene	ug/L	ND	0.50	0.21	10/20/23 13:14	
Ethylbenzene	ug/L	ND	0.50	0.22	10/20/23 13:14	
m&p-Xylene	ug/L	ND	1.0	0.39	10/20/23 13:14	
Methyl-tert-butyl ether	ug/L	ND	0.50	0.14	10/20/23 13:14	
Naphthalene	ug/L	ND	0.50	0.35	10/20/23 13:14	
o-Xylene	ug/L	ND	0.50	0.22	10/20/23 13:14	
Toluene	ug/L	ND	0.50	0.20	10/20/23 13:14	
Xylene (Total)	ug/L	ND	0.50	0.22	10/20/23 13:14	
1,2-Dichlorobenzene-d4 (S)	%	106	70-130		10/20/23 13:14	
4-Bromofluorobenzene (S)	%	96	70-130		10/20/23 13:14	

LABORATORY CONTROL SAMPLE: 4183151

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	20	19.0	95	70-130	
Benzene	ug/L	20	17.1	85	70-130	
Ethylbenzene	ug/L	20	16.9	84	70-130	
m&p-Xylene	ug/L	40	35.0	87	70-130	
Methyl-tert-butyl ether	ug/L	20	16.4	82	70-130	
Naphthalene	ug/L	20	18.2	91	70-130	
o-Xylene	ug/L	20	16.8	84	70-130	
Toluene	ug/L	20	16.5	82	70-130	
Xylene (Total)	ug/L	60	51.8	86		
1,2-Dichlorobenzene-d4 (S)	%			111	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	

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QUALITY CONTROL DATA

Project: JAKE HUGGINS
Pace Project No.: 92694109

QC Batch:	807648	Analysis Method:	EPA 8260D
QC Batch Method:	EPA 8260D	Analysis Description:	8260 MSV Low Level SC
		Laboratory:	Pace Analytical Services - Charlotte

Associated Lab Samples: 92694109026

METHOD BLANK: 4182189 Matrix: Water

Associated Lab Samples: 92694109026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	100	51.9	10/22/23 14:48	
Diisopropyl ether	ug/L	ND	1.0	0.31	10/22/23 14:48	
Ethanol	ug/L	ND	200	72.2	10/22/23 14:48	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.2	10/22/23 14:48	
tert-Amyl Alcohol	ug/L	ND	100	36.4	10/22/23 14:48	
tert-Amylmethyl ether	ug/L	ND	10.0	2.7	10/22/23 14:48	
tert-Butyl Alcohol	ug/L	ND	100	26.8	10/22/23 14:48	
tert-Butyl Formate	ug/L	ND	50.0	29.4	10/22/23 14:48	
1,2-Dichloroethane-d4 (S)	%	104	70-130		10/22/23 14:48	
4-Bromofluorobenzene (S)	%	102	70-130		10/22/23 14:48	
Toluene-d8 (S)	%	104	70-130		10/22/23 14:48	

LABORATORY CONTROL SAMPLE: 4182190

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	400	374	93	70-130	
Diisopropyl ether	ug/L	20	20.0	100	70-130	
Ethanol	ug/L	800	817	102	70-130	
Ethyl-tert-butyl ether	ug/L	40	38.7	97	70-130	
tert-Amyl Alcohol	ug/L	400	405	101	70-130	
tert-Amylmethyl ether	ug/L	40	40.1	100	70-130	
tert-Butyl Alcohol	ug/L	200	191	96	70-130	
tert-Butyl Formate	ug/L	160	168	105	70-130	
1,2-Dichloroethane-d4 (S)	%			108	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4182191 4182192

Parameter	Units	92694014007		MS		MSD		MS		MSD		% Rec		Max	
		Result	Conc.	Spike Conc.	Conc.	Result	Conc.	Result	Conc.	Result	Conc.	% Rec	Limits	RPD	RPD
3,3-Dimethyl-1-Butanol	ug/L	ND	400	400	400	374	311	94	78	39-157	19	30			
Diisopropyl ether	ug/L	ND	20	20	20	17.2	14.3	86	72	63-144	18	30			
Ethanol	ug/L	ND	800	800	800	739	623	92	78	39-176	17	30			
Ethyl-tert-butyl ether	ug/L	ND	40	40	40	35.4	29.2	88	73	66-137	19	30			
tert-Amyl Alcohol	ug/L	ND	400	400	400	374	321	93	80	54-153	15	30			
tert-Amylmethyl ether	ug/L	ND	40	40	40	38.4	31.8	96	80	69-139	19	30			

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QUALITY CONTROL DATA

Project: JAKE HUGGINS

Pace Project No.: 92694109

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4182191 4182192												
Parameter	Units	92694014007	MS	MSD	MS	MSD	MS	MSD	% Rec	RPD	Max	Qual
		Result	Spike	Spike								
tert-Butyl Alcohol	ug/L	ND	200	200	269	213	135	107	43-188	23	30	
tert-Butyl Formate	ug/L	ND	160	160	ND	ND	10	7	10-170		30	M1
1,2-Dichloroethane-d4 (S)	%						108	109	70-130			
4-Bromofluorobenzene (S)	%						103	102	70-130			
Toluene-d8 (S)	%						96	99	70-130			

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QUALITY CONTROL DATA

Project: JAKE HUGGINS
Pace Project No.: 92694109

QC Batch:	807854	Analysis Method:	EPA 8260D
QC Batch Method:	EPA 8260D	Analysis Description:	8260 MSV Low Level SC
		Laboratory:	Pace Analytical Services - Charlotte
Associated Lab Samples:	92694109015, 92694109016, 92694109017, 92694109018, 92694109019, 92694109020, 92694109025, 92694109028, 92694109029		

METHOD BLANK: 4183185 Matrix: Water
Associated Lab Samples: 92694109015, 92694109016, 92694109017, 92694109018, 92694109019, 92694109020, 92694109025, 92694109028, 92694109029

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	1.0	0.32	10/20/23 14:09	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	51.9	10/20/23 14:09	
Benzene	ug/L	ND	1.0	0.34	10/20/23 14:09	
Diisopropyl ether	ug/L	ND	1.0	0.31	10/20/23 14:09	
Ethanol	ug/L	ND	200	72.2	10/20/23 14:09	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.2	10/20/23 14:09	
Ethylbenzene	ug/L	ND	1.0	0.30	10/20/23 14:09	
m&p-Xylene	ug/L	ND	2.0	0.71	10/20/23 14:09	
Methyl-tert-butyl ether	ug/L	ND	1.0	0.42	10/20/23 14:09	
Naphthalene	ug/L	ND	1.0	0.64	10/20/23 14:09	
o-Xylene	ug/L	ND	1.0	0.34	10/20/23 14:09	
tert-Amyl Alcohol	ug/L	ND	100	36.4	10/20/23 14:09	
tert-Amylmethyl ether	ug/L	ND	10.0	2.7	10/20/23 14:09	
tert-Butyl Alcohol	ug/L	ND	100	26.8	10/20/23 14:09	
tert-Butyl Formate	ug/L	ND	50.0	29.4	10/20/23 14:09	
Toluene	ug/L	ND	1.0	0.48	10/20/23 14:09	
Xylene (Total)	ug/L	ND	1.0	0.34	10/20/23 14:09	
1,2-Dichloroethane-d4 (S)	%	100	70-130		10/20/23 14:09	
4-Bromofluorobenzene (S)	%	96	70-130		10/20/23 14:09	
Toluene-d8 (S)	%	108	70-130		10/20/23 14:09	

LABORATORY CONTROL SAMPLE: 4183186

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	20	22.4	112	70-130	
3,3-Dimethyl-1-Butanol	ug/L	400	359	90	70-130	
Benzene	ug/L	20	21.7	108	70-130	
Diisopropyl ether	ug/L	20	18.7	93	70-130	
Ethanol	ug/L	800	875	109	70-130	
Ethyl-tert-butyl ether	ug/L	40	38.6	96	70-130	
Ethylbenzene	ug/L	20	21.4	107	70-130	
m&p-Xylene	ug/L	40	42.4	106	70-130	
Methyl-tert-butyl ether	ug/L	20	20.7	104	70-130	
Naphthalene	ug/L	20	21.6	108	70-130	
o-Xylene	ug/L	20	20.4	102	70-130	
tert-Amyl Alcohol	ug/L	400	359	90	70-130	
tert-Amylmethyl ether	ug/L	40	40.3	101	70-130	

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QUALITY CONTROL DATA

Project: JAKE HUGGINS

Pace Project No.: 92694109

LABORATORY CONTROL SAMPLE: 4183186

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butyl Alcohol	ug/L	200	184	92	70-130	
tert-Butyl Formate	ug/L	160	150	94	70-130	
Toluene	ug/L	20	20.7	103	70-130	
Xylene (Total)	ug/L	60	62.7	105	70-130	
1,2-Dichloroethane-d4 (S)	%			106	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			102	70-130	

MATRIX SPIKE SAMPLE: 4183187

Parameter	Units	92694109015 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	20	24.5	123	70-137	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	393	98	39-157	
Benzene	ug/L	ND	20	24.4	122	70-151	
Diisopropyl ether	ug/L	ND	20	20.8	104	63-144	
Ethanol	ug/L	ND	800	956	120	39-176	
Ethyl-tert-butyl ether	ug/L	ND	40	41.2	103	66-137	
Ethylbenzene	ug/L	ND	20	23.6	118	66-153	
m&p-Xylene	ug/L	ND	40	46.3	116	69-152	
Methyl-tert-butyl ether	ug/L	ND	20	21.8	109	54-156	
Naphthalene	ug/L	ND	20	22.1	111	61-148	
o-Xylene	ug/L	ND	20	22.7	114	70-148	
tert-Amyl Alcohol	ug/L	ND	400	420	105	54-153	
tert-Amylmethyl ether	ug/L	ND	40	43.4	109	69-139	
tert-Butyl Alcohol	ug/L	ND	200	236	118	43-188	
tert-Butyl Formate	ug/L	ND	160	37.0J	23	10-170	
Toluene	ug/L	ND	20	23.1	116	59-148	
Xylene (Total)	ug/L	ND	60	69.0	115	63-158	
1,2-Dichloroethane-d4 (S)	%				105	70-130	
4-Bromofluorobenzene (S)	%				98	70-130	
Toluene-d8 (S)	%				101	70-130	

SAMPLE DUPLICATE: 4183188

Parameter	Units	92694109016 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane	ug/L	ND	ND		30	
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
m&p-Xylene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	

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QUALITY CONTROL DATA

Project: JAKE HUGGINS

Pace Project No.: 92694109

SAMPLE DUPLICATE: 4183188

Parameter	Units	92694109016 Result	Dup Result	RPD	Max RPD	Qualifiers
Naphthalene	ug/L	ND	ND		30	
o-Xylene	ug/L	ND	ND		30	
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	ND	ND		30	
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	104	104			
4-Bromofluorobenzene (S)	%	96	99			
Toluene-d8 (S)	%	109	110			

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QUALITY CONTROL DATA

Project: JAKE HUGGINS

Pace Project No.: 92694109

QC Batch: 807862

Analysis Method: EPA 8260D

QC Batch Method: EPA 8260D

Analysis Description: 8260 MSV Low Level SC

Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92694109027

METHOD BLANK: 4183227

Matrix: Water

Associated Lab Samples: 92694109027

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	100	51.9	10/20/23 14:10	
Diisopropyl ether	ug/L	ND	1.0	0.31	10/20/23 14:10	
Ethanol	ug/L	ND	200	72.2	10/20/23 14:10	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.2	10/20/23 14:10	
tert-Amyl Alcohol	ug/L	ND	100	36.4	10/20/23 14:10	
tert-Amylmethyl ether	ug/L	ND	10.0	2.7	10/20/23 14:10	
tert-Butyl Alcohol	ug/L	ND	100	26.8	10/20/23 14:10	
tert-Butyl Formate	ug/L	ND	50.0	29.4	10/20/23 14:10	
1,2-Dichloroethane-d4 (S)	%	105	70-130		10/20/23 14:10	
4-Bromofluorobenzene (S)	%	100	70-130		10/20/23 14:10	
Toluene-d8 (S)	%	102	70-130		10/20/23 14:10	

LABORATORY CONTROL SAMPLE: 4183228

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	400	389	97	70-130	
Diisopropyl ether	ug/L	20	21.8	109	70-130	
Ethanol	ug/L	800	827	103	70-130	
Ethyl-tert-butyl ether	ug/L	40	41.8	105	70-130	
tert-Amyl Alcohol	ug/L	400	377	94	70-130	
tert-Amylmethyl ether	ug/L	40	41.7	104	70-130	
tert-Butyl Alcohol	ug/L	200	178	89	70-130	
tert-Butyl Formate	ug/L	160	173	108	70-130	
1,2-Dichloroethane-d4 (S)	%			106	70-130	
4-Bromofluorobenzene (S)	%			103	70-130	
Toluene-d8 (S)	%			102	70-130	

MATRIX SPIKE SAMPLE: 4183229

Parameter	Units	92694113018 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	400	509	127	39-157	
Diisopropyl ether	ug/L	ND	20	28.9	144	63-144	
Ethanol	ug/L	ND	800	1110	139	39-176	
Ethyl-tert-butyl ether	ug/L	ND	40	54.5	136	66-137	
tert-Amyl Alcohol	ug/L	ND	400	505	126	54-153	
tert-Amylmethyl ether	ug/L	ND	40	53.6	134	69-139	
tert-Butyl Alcohol	ug/L	ND	200	371	185	43-188	

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QUALITY CONTROL DATA

Project: JAKE HUGGINS

Pace Project No.: 92694109

MATRIX SPIKE SAMPLE:		4183229					
Parameter	Units	92694113018 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
tert-Butyl Formate	ug/L	ND	160	ND	5	10-170	M1
1,2-Dichloroethane-d4 (S)	%				108	70-130	
4-Bromofluorobenzene (S)	%				104	70-130	
Toluene-d8 (S)	%				103	70-130	

SAMPLE DUPLICATE: 4183230

Parameter	Units	92694113019 Result	Dup Result	RPD	Max RPD	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	ND	ND		30	
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	108	108			
4-Bromofluorobenzene (S)	%	100	98			
Toluene-d8 (S)	%	102	101			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: JAKE HUGGINS
Pace Project No.: 92694109

QC Batch:	807932	Analysis Method:	EPA 8260D
QC Batch Method:	EPA 8260D	Analysis Description:	8260 MSV SC
		Laboratory:	Pace Analytical Services - Charlotte
Associated Lab Samples:	92694109002, 92694109003, 92694109004, 92694109005, 92694109006, 92694109007, 92694109009, 92694109010, 92694109011, 92694109012, 92694109013, 92694109022, 92694109023, 92694109024		

METHOD BLANK: 4183545 Matrix: Water
Associated Lab Samples: 92694109002, 92694109003, 92694109004, 92694109005, 92694109006, 92694109007, 92694109009, 92694109010, 92694109011, 92694109012, 92694109013, 92694109022, 92694109023, 92694109024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	2.1	10/23/23 13:24	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	53.9	10/23/23 13:24	
Benzene	ug/L	ND	5.0	1.7	10/23/23 13:24	
Diisopropyl ether	ug/L	ND	5.0	3.5	10/23/23 13:24	
Ethanol	ug/L	ND	200	144	10/23/23 13:24	
Ethyl-tert-butyl ether	ug/L	ND	10.0	8.5	10/23/23 13:24	
Ethylbenzene	ug/L	ND	5.0	1.8	10/23/23 13:24	
m&p-Xylene	ug/L	ND	10.0	4.1	10/23/23 13:24	
Methyl-tert-butyl ether	ug/L	ND	5.0	3.1	10/23/23 13:24	
Naphthalene	ug/L	ND	5.0	2.1	10/23/23 13:24	
o-Xylene	ug/L	ND	5.0	2.0	10/23/23 13:24	
tert-Amyl Alcohol	ug/L	ND	100	65.6	10/23/23 13:24	
tert-Amylmethyl ether	ug/L	ND	10.0	3.0	10/23/23 13:24	
tert-Butyl Alcohol	ug/L	ND	100	91.0	10/23/23 13:24	v2
tert-Butyl Formate	ug/L	ND	50.0	24.1	10/23/23 13:24	
Toluene	ug/L	ND	5.0	2.0	10/23/23 13:24	
Xylene (Total)	ug/L	ND	5.0	5.0	10/23/23 13:24	
1,2-Dichloroethane-d4 (S)	%	90	70-130		10/23/23 13:24	
4-Bromofluorobenzene (S)	%	104	70-130		10/23/23 13:24	
Toluene-d8 (S)	%	110	70-130		10/23/23 13:24	

LABORATORY CONTROL SAMPLE: 4183546

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	20	20.6	103	70-130	
3,3-Dimethyl-1-Butanol	ug/L	400	386	96	70-130	
Benzene	ug/L	20	22.7	114	70-130	
Diisopropyl ether	ug/L	20	20.0	100	70-130	
Ethanol	ug/L	800	791	99	70-130	
Ethyl-tert-butyl ether	ug/L	40	39.7	99	70-130	
Ethylbenzene	ug/L	20	21.5	107	70-130	
m&p-Xylene	ug/L	40	43.8	110	70-130	
Methyl-tert-butyl ether	ug/L	20	20.8	104	70-130	
Naphthalene	ug/L	20	22.9	115	70-130	
o-Xylene	ug/L	20	21.0	105	70-130	
tert-Amyl Alcohol	ug/L	400	384	96	70-130	
tert-Amylmethyl ether	ug/L	40	42.6	106	70-130	

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QUALITY CONTROL DATA

Project: JAKE HUGGINS

Pace Project No.: 92694109

LABORATORY CONTROL SAMPLE: 4183546

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butyl Alcohol	ug/L	200	175	88	70-130	v3
tert-Butyl Formate	ug/L	160	175	110	70-130	
Toluene	ug/L	20	21.8	109	70-130	
Xylene (Total)	ug/L	60	64.8	108	70-130	
1,2-Dichloroethane-d4 (S)	%			100	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (S)	%			103	70-130	

MATRIX SPIKE SAMPLE: 4183547

Parameter	Units	92694109003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	20	27.2	136	70-137	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	515	129	39-157	
Benzene	ug/L	ND	20	29.0	145	70-151	
Diisopropyl ether	ug/L	ND	20	28.9	143	63-144	
Ethanol	ug/L	ND	800	1130	141	39-176	
Ethyl-tert-butyl ether	ug/L	ND	40	54.5	136	66-137	
Ethylbenzene	ug/L	ND	20	26.9	135	66-153	
m&p-Xylene	ug/L	ND	40	55.3	138	69-152	
Methyl-tert-butyl ether	ug/L	ND	20	27.5	135	54-156	
Naphthalene	ug/L	ND	20	26.9	135	61-148	
o-Xylene	ug/L	ND	20	27.0	135	70-148	
tert-Amyl Alcohol	ug/L	ND	400	515	129	54-153	
tert-Amylmethyl ether	ug/L	ND	40	54.6	137	69-139	
tert-Butyl Alcohol	ug/L	ND	200	372	186	43-188	
tert-Butyl Formate	ug/L	ND	160	ND	6	10-170	P5
Toluene	ug/L	ND	20	27.0	135	59-148	
Xylene (Total)	ug/L	ND	60	82.3	137	63-158	
1,2-Dichloroethane-d4 (S)	%				106	70-130	
4-Bromofluorobenzene (S)	%				103	70-130	
Toluene-d8 (S)	%				103	70-130	

SAMPLE DUPLICATE: 4183548

Parameter	Units	92694109004 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane	ug/L	ND	ND		30	
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
m&p-Xylene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	

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QUALITY CONTROL DATA

Project: JAKE HUGGINS

Pace Project No.: 92694109

SAMPLE DUPLICATE: 4183548

Parameter	Units	92694109004 Result	Dup Result	RPD	Max RPD	Qualifiers
Naphthalene	ug/L	ND	ND		30	
o-Xylene	ug/L	ND	ND		30	
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	ND	ND		30	
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	96	106			
4-Bromofluorobenzene (S)	%	104	100			
Toluene-d8 (S)	%	108	102			

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QUALITY CONTROL DATA

Project: JAKE HUGGINS
Pace Project No.: 92694109

QC Batch: 808416 Analysis Method: EPA 8260D
QC Batch Method: EPA 8260D Analysis Description: 8260 MSV SC
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92694109001, 92694109008, 92694109014, 92694109021

METHOD BLANK: 4185793 Matrix: Water
Associated Lab Samples: 92694109001, 92694109008, 92694109014, 92694109021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	2.1	10/24/23 11:48	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	53.9	10/24/23 11:48	
Benzene	ug/L	ND	5.0	1.7	10/24/23 11:48	
Diisopropyl ether	ug/L	ND	5.0	3.5	10/24/23 11:48	
Ethanol	ug/L	ND	200	144	10/24/23 11:48	
Ethyl-tert-butyl ether	ug/L	ND	10.0	8.5	10/24/23 11:48	
Ethylbenzene	ug/L	ND	5.0	1.8	10/24/23 11:48	
m&p-Xylene	ug/L	ND	10.0	4.1	10/24/23 11:48	
Methyl-tert-butyl ether	ug/L	ND	5.0	3.1	10/24/23 11:48	
Naphthalene	ug/L	ND	5.0	2.1	10/24/23 11:48	
o-Xylene	ug/L	ND	5.0	2.0	10/24/23 11:48	
tert-Amyl Alcohol	ug/L	ND	100	65.6	10/24/23 11:48	
tert-Amylmethyl ether	ug/L	ND	10.0	3.0	10/24/23 11:48	
tert-Butyl Alcohol	ug/L	ND	100	91.0	10/24/23 11:48	
tert-Butyl Formate	ug/L	ND	50.0	24.1	10/24/23 11:48	
Toluene	ug/L	ND	5.0	2.0	10/24/23 11:48	
Xylene (Total)	ug/L	ND	5.0	5.0	10/24/23 11:48	
1,2-Dichloroethane-d4 (S)	%	107	70-130		10/24/23 11:48	
4-Bromofluorobenzene (S)	%	100	70-130		10/24/23 11:48	
Toluene-d8 (S)	%	102	70-130		10/24/23 11:48	

LABORATORY CONTROL SAMPLE: 4185794

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	20	21.6	108	70-130	
3,3-Dimethyl-1-Butanol	ug/L	400	417	104	70-130	
Benzene	ug/L	20	22.0	110	70-130	
Diisopropyl ether	ug/L	20	21.9	110	70-130	
Ethanol	ug/L	800	911	114	70-130	
Ethyl-tert-butyl ether	ug/L	40	41.8	104	70-130	
Ethylbenzene	ug/L	20	21.1	106	70-130	
m&p-Xylene	ug/L	40	43.1	108	70-130	
Methyl-tert-butyl ether	ug/L	20	20.6	103	70-130	
Naphthalene	ug/L	20	20.8	104	70-130	
o-Xylene	ug/L	20	21.7	108	70-130	
tert-Amyl Alcohol	ug/L	400	407	102	70-130	
tert-Amylmethyl ether	ug/L	40	42.3	106	70-130	
tert-Butyl Alcohol	ug/L	200	188	94	70-130	
tert-Butyl Formate	ug/L	160	173	108	70-130	

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QUALITY CONTROL DATA

Project: JAKE HUGGINS

Pace Project No.: 92694109

LABORATORY CONTROL SAMPLE: 4185794

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene	ug/L	20	20.5	102	70-130	
Xylene (Total)	ug/L	60	64.8	108	70-130	
1,2-Dichloroethane-d4 (S)	%			105	70-130	
4-Bromofluorobenzene (S)	%			104	70-130	
Toluene-d8 (S)	%			103	70-130	

MATRIX SPIKE SAMPLE: 4185796

Parameter	Units	92694089027 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	20	25.6	128	70-137	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	490	123	39-157	
Benzene	ug/L	12.0	20	38.9	134	70-151	
Diisopropyl ether	ug/L	ND	20	27.4	134	63-144	
Ethanol	ug/L	ND	800	993	124	39-176	
Ethyl-tert-butyl ether	ug/L	ND	40	51.0	127	66-137	
Ethylbenzene	ug/L	25.3	20	50.5	126	66-153	
m&p-Xylene	ug/L	18.1	40	69.3	128	69-152	
Methyl-tert-butyl ether	ug/L	3.3J	20	28.8	127	54-156	
Naphthalene	ug/L	57.5	20	80.3	114	61-148	
o-Xylene	ug/L	2.8J	20	27.9	125	70-148	
tert-Amyl Alcohol	ug/L	ND	400	560	140	54-153	
tert-Amylmethyl ether	ug/L	ND	40	50.7	127	69-139	
tert-Butyl Alcohol	ug/L	ND	200	319	145	43-188	
tert-Butyl Formate	ug/L	ND	160	131	82	10-170	
Toluene	ug/L	ND	20	26.4	125	59-148	
Xylene (Total)	ug/L	20.9	60	97.1	127	63-158	
1,2-Dichloroethane-d4 (S)	%				106	70-130	
4-Bromofluorobenzene (S)	%				103	70-130	
Toluene-d8 (S)	%				102	70-130	

SAMPLE DUPLICATE: 4185795

Parameter	Units	92694089023 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane	ug/L	ND	ND		30	
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Benzene	ug/L	7.6	8.0	5	30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	2.0J	ND		30	
m&p-Xylene	ug/L	23.4	20.9	11	30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Naphthalene	ug/L	64.7	59.5	8	30	
o-Xylene	ug/L	36.8	35.6	4	30	

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QUALITY CONTROL DATA

Project: JAKE HUGGINS

Pace Project No.: 92694109

SAMPLE DUPLICATE: 4185795

Parameter	Units	92694089023 Result	Dup Result	RPD	Max RPD	Qualifiers
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	ND	ND		30	
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
Xylene (Total)	ug/L	60.2	56.4	7	30	
1,2-Dichloroethane-d4 (S)	%	105	101			
4-Bromofluorobenzene (S)	%	101	102			
Toluene-d8 (S)	%	103	104			

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QUALITY CONTROL DATA

Project: JAKE HUGGINS
Pace Project No.: 92694109

QC Batch: 808340 Analysis Method: EPA 504.1
QC Batch Method: EPA 504.1 Analysis Description: GCS 504 EDB DBCP
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92694109025, 92694109026, 92694109027, 92694109028

METHOD BLANK: 4185458 Matrix: Water
Associated Lab Samples: 92694109025, 92694109026, 92694109027, 92694109028

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	0.0056	10/24/23 13:43	
1-Chloro-2-bromopropane (S)	%	101	70-130		10/24/23 13:43	

LABORATORY CONTROL SAMPLE & LCSD: 4185459		4185460								
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	0.25	0.31	0.29	124	116	70-130	6	20	
1-Chloro-2-bromopropane (S)	%				109	101	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4185462				4185463								
Parameter	Units	92693873002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	0.26	0.26	0.72	0.65	271	245	65-135	10	20	M1
1-Chloro-2-bromopropane (S)	%						84	83	70-130			

SAMPLE DUPLICATE: 4185461		92693873001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	99	96			

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QUALITY CONTROL DATA

Project: JAKE HUGGINS
Pace Project No.: 92694109

QC Batch: 808108 Analysis Method: EPA 8011
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92694109001, 92694109002, 92694109003

METHOD BLANK: 4184307 Matrix: Water
Associated Lab Samples: 92694109001, 92694109002, 92694109003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	0.0074	10/23/23 19:12	
1-Chloro-2-bromopropane (S)	%	93	60-140		10/23/23 19:12	

LABORATORY CONTROL SAMPLE & LCSD: 4184308		4184309								
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	0.25	0.26	0.28	106	111	60-140	5	20	
1-Chloro-2-bromopropane (S)	%				95	98	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4184311					4184312							
Parameter	Units	92692665003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	0.25	0.25	0.24	0.24	98	96	60-140	2	20	
1-Chloro-2-bromopropane (S)	%						88	88	60-140			

SAMPLE DUPLICATE: 4184310		92692665002				Dup Result		Max RPD	Qualifiers
Parameter	Units	Result		Result		Result		RPD	
1,2-Dibromoethane (EDB)	ug/L	ND		ND		ND		20	
1-Chloro-2-bromopropane (S)	%	98		94		94			

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QUALITY CONTROL DATA

Project: JAKE HUGGINS
Pace Project No.: 92694109

QC Batch:	808337	Analysis Method:	EPA 8011
QC Batch Method:	EPA 8011	Analysis Description:	GCS 8011 EDB DBCP
		Laboratory:	Pace Analytical Services - Charlotte
Associated Lab Samples:	92694109004, 92694109005, 92694109006, 92694109007, 92694109008, 92694109009, 92694109010, 92694109011, 92694109012, 92694109013, 92694109014, 92694109015, 92694109016, 92694109017, 92694109018, 92694109019, 92694109020, 92694109021, 92694109022, 92694109024		

METHOD BLANK:	4185440	Matrix:	Water
Associated Lab Samples:	92694109004, 92694109005, 92694109006, 92694109007, 92694109008, 92694109009, 92694109010, 92694109011, 92694109012, 92694109013, 92694109014, 92694109015, 92694109016, 92694109017, 92694109018, 92694109019, 92694109020, 92694109021, 92694109022, 92694109024		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	0.0074	10/24/23 18:19	
1-Chloro-2-bromopropane (S)	%	93	60-140		10/24/23 18:19	

LABORATORY CONTROL SAMPLE & LCSD:		4185441	4185442							
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	0.25	0.25	0.25	102	99	60-140	2	20	
1-Chloro-2-bromopropane (S)	%				93	91	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:				4185444	4185445							
Parameter	Units	92694109005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	0.25	0.25	0.42	0.43	170	175	60-140	3	20	M1
1-Chloro-2-bromopropane (S)	%						86	89	60-140			

SAMPLE DUPLICATE: 4185443

Parameter	Units	92694109004 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	93	90			

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QUALIFIERS

Project: JAKE HUGGINS
Pace Project No.: 92694109

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.
A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

ANALYTE QUALIFIERS

C8	Result may be biased high due to carryover from previously analyzed sample.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
P5	The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.
v2	The continuing calibration verification was below the method acceptance limit. The analyte was not detected in the associated samples and the sensitivity of the instrument was verified with a reporting limit check standard.
v3	The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have low bias.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: JAKE HUGGINS
Pace Project No.: 92694109

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92694109025	WSW-1	EPA 504.1	808340	EPA 504.1	808449
92694109026	WSW-2	EPA 504.1	808340	EPA 504.1	808449
92694109027	WSW-DUP	EPA 504.1	808340	EPA 504.1	808449
92694109028	WSW-FB	EPA 504.1	808340	EPA 504.1	808449
92694109001	MW-1	EPA 8011	808108	EPA 8011	808209
92694109002	MW-2	EPA 8011	808108	EPA 8011	808209
92694109003	MW-3	EPA 8011	808108	EPA 8011	808209
92694109004	MW-4	EPA 8011	808337	EPA 8011	808446
92694109005	MW-5	EPA 8011	808337	EPA 8011	808446
92694109006	MW-6	EPA 8011	808337	EPA 8011	808446
92694109007	MW-7	EPA 8011	808337	EPA 8011	808446
92694109008	MW-8	EPA 8011	808337	EPA 8011	808446
92694109009	MW-9	EPA 8011	808337	EPA 8011	808446
92694109010	MW-10	EPA 8011	808337	EPA 8011	808446
92694109011	DW-1	EPA 8011	808337	EPA 8011	808446
92694109012	DW-2	EPA 8011	808337	EPA 8011	808446
92694109013	DW-3	EPA 8011	808337	EPA 8011	808446
92694109014	DW-4	EPA 8011	808337	EPA 8011	808446
92694109015	SW-1	EPA 8011	808337	EPA 8011	808446
92694109016	SW-2	EPA 8011	808337	EPA 8011	808446
92694109017	SW-3	EPA 8011	808337	EPA 8011	808446
92694109018	SW-4	EPA 8011	808337	EPA 8011	808446
92694109019	SW-5	EPA 8011	808337	EPA 8011	808446
92694109020	SW-6	EPA 8011	808337	EPA 8011	808446
92694109021	DUP	EPA 8011	808337	EPA 8011	808446
92694109022	FB	EPA 8011	808337	EPA 8011	808446
92694109024	GAC	EPA 8011	808337	EPA 8011	808446
92694109025	WSW-1	EPA 524.2	807849		
92694109026	WSW-2	EPA 524.2	807849		
92694109027	WSW-DUP	EPA 524.2	807849		
92694109028	WSW-FB	EPA 524.2	807849		
92694109029	WSW-TB	EPA 524.2	807849		
92694109015	SW-1	EPA 8260D	807854		
92694109016	SW-2	EPA 8260D	807854		
92694109017	SW-3	EPA 8260D	807854		
92694109018	SW-4	EPA 8260D	807854		
92694109019	SW-5	EPA 8260D	807854		
92694109020	SW-6	EPA 8260D	807854		
92694109025	WSW-1	EPA 8260D	807854		
92694109026	WSW-2	EPA 8260D	807648		
92694109027	WSW-DUP	EPA 8260D	807862		
92694109028	WSW-FB	EPA 8260D	807854		
92694109029	WSW-TB	EPA 8260D	807854		
92694109001	MW-1	EPA 8260D	808416		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: JAKE HUGGINS

Pace Project No.: 92694109

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92694109002	MW-2	EPA 8260D	807932		
92694109003	MW-3	EPA 8260D	807932		
92694109004	MW-4	EPA 8260D	807932		
92694109005	MW-5	EPA 8260D	807932		
92694109006	MW-6	EPA 8260D	807932		
92694109007	MW-7	EPA 8260D	807932		
92694109008	MW-8	EPA 8260D	808416		
92694109009	MW-9	EPA 8260D	807932		
92694109010	MW-10	EPA 8260D	807932		
92694109011	DW-1	EPA 8260D	807932		
92694109012	DW-2	EPA 8260D	807932		
92694109013	DW-3	EPA 8260D	807932		
92694109014	DW-4	EPA 8260D	808416		
92694109021	DUP	EPA 8260D	808416		
92694109022	FB	EPA 8260D	807932		
92694109023	TB	EPA 8260D	807932		
92694109024	GAC	EPA 8260D	807932		

REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, LLC.

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Billing Information:

Company: MEET

Address: 231 Beldy Rd

Report To: B. Shane

Copy To:

Email To: JLC@MeeticNet

Site Collection Info/Address:

Customer Project Name/Number:

Jake Higgins

State: County/City: Time Zone Collected:

SciFence [] PT [] MT [] CT [] ET

Phone:

Site/Facility ID #:

03423

Compliance Monitoring?

[] Yes [] No

Collected By (print):

Purchase Order #:

Quote #:

DW PWS ID #:

DW Location Code:

Collected By (signature):

Turnaround Date Required:

Immediately Packed on Ice:

[] Yes [] No

Sample Disposal:

Rush:

[] Same Day [] Next Day

Field Filtered (if applicable):

[] Yes [] No

[] Archive:

[] 2 Day [] 3 Day [] 4 Day [] 5 Day

Analysis:

(Expedite Charges Apply)

[] Hold:

[] Same Day [] Next Day

[] Yes [] No

[] Yes [] No

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Time	Composite End Date	Time	Res CI	# of Cms
DW-1	GW	G	10/16/23	12:30				6
DW-2			11:32					1
DW-3			12:10					1
DW-4			13:45					1
DW-1			13:28					1
DW-2			11:20					1
DW-3			10:15					1
DW-4			10:20					1
DW-5			10:25					1
DW-6			10:30					1

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

Received by/Company: (Signature)

Date/Time: 10/18 800

Relinquished by/Company: (Signature)

Date/Time: 10/18 800

Relinquished by/Company: (Signature)

Date/Time: 10/18 800

Relinquished by/Company: (Signature)

Date/Time: 10/18 800

LAB USE ONLY - Affix Workorder/Login Label Here or List Pace Workorder Number or MTIL Log-in Number Here

ALL SHADED AREAS are for LAB USE ONLY

Container Preservative Type **

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact Y N NA
Custody Signatures Present Y N NA
Collector Signatures Present Y N NA
Bottles Intact Y N NA
Correct Bottles Y N NA
Sufficient Volume Y N NA
Samples Received on Ice Y N NA
VDA - Headspace Acceptable Y N NA
USDA Regulated Soils Y N NA
Samples in Holding Time Y N NA
Residual Chlorine Present Y N NA
Cl Strips: Y N NA
Sample pH Acceptable Y N NA
pH Strips: Y N NA
Sulfide Present Y N NA
Lead Acetate Strips: Y N NA

LAB USE ONLY:
Lab Sample # / Comments:

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: 12102
Cooler 1 Temp Upon Receipt: 2.12°C
Cooler 1 Therm Corr. Factor: 0.00°C
Cooler 1 Corrected Temp: 2.12°C
Comments:

Lab Tracking #: 2910774

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Samples received via: FEDEX UPS Client Courier Page Courier

Date/Time: 10/18 800

Table #: MTIL LAB USE ONLY

Date/Time: 10/18 800

Actnum: Template: Prelogin:

Date/Time: 10/18 800

PM: PB:

Date/Time: 10/18 800

Non Conformance(s): YES / NO

Page: of:

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY - Affix Workorder/Login Label Here or List Pace Workorder Number or MTIL Log-in Number Here

ALL SHADED AREAS are for LAB USE ONLY

Company: SCDHCE		Billing Information:	
Address: 231 Decker Rd		Email To: JLCC@Mcci.Net	
Report To: B. Shone		Site Collection Info/Address:	
Copy To:		State: SC County/City: Florence Time Zone Collected: PT MT CT ET	
Customer Project Name/Number: Jake Huggins		Site/Facility ID #: 03123	
Phone:	Purchase Order #:	Compliance Monitoring?	
Email:	Quote #:	☐ Yes ☐ No	
Collected By (print): Hunter Steen	Turnaround Date Required:	DW PWS ID #:	
Collected By (signature): <i>[Signature]</i>		DW Location Code:	
Sample Disposal:	Rush:	Immediately Packed on Ice:	
☐ Dispose as appropriate ☐ Return	☐ Same Day ☐ Next Day	☐ Yes ☐ No	
☐ Archive: _____	☐ 2 Day ☐ 3 Day ☐ 4 Day ☐ 5 Day	Field Filtered (if applicable):	
☐ Hold: _____	(Expedite Charges Apply)	☐ Yes ☐ No	
* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)			
Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date Time
			Composite End Date Time
			Res CI # of Cns
1/10	GV	6	10/16/25 -
FB	1	1	13:57
TB	1	1	8:20
GC	1	1	14:00
WSTV-1	DW	6	14:15
WSTV-2	1	1	14:25
WSTV-3	1	1	14:32
WSTV-dup	DW	6	14:32
WSTV-FB	1	1	14:32
WSTV-TB	1	1	14:32
Customer Remarks / Special Conditions / Possible Hazards:			
Type of Ice Used: Wet Blue Dry None			
Packing Material Used: BB			
Radchem sample(s) screened (<500 cpm): Y N NA			
Relinquished by/Company: (Signature)		Date/Time: 10/18 800	
Relinquished by/Company: (Signature)		Date/Time: 10/18 1525	
Relinquished by/Company: (Signature)		Date/Time: 10/18 1525	

Container Preservative Type **		Lab Project Manager:	
3	3	3	3
Analyses		Lab Profile/Line:	
BTEXNM, 1,2-DCM 82600 EDB 8041 BTEXNM, 1,2-DCM 524-2 OXYS 82600 EDB 504-1		Lab Sample Receipt Checklist: Custody Seals Present/Intact Y N NA Custody Signatures Present Y N NA Collector Signatures Present Y N NA Bottles Intact Y N NA Correct Bottles Y N NA Sufficient Volume Y N NA Samples Received on Ice Y N NA VOA - Headspace Acceptable Y N NA USDA Regulated Soils Y N NA Residual Chlorine Present Y N NA Cl Strips: Y N NA Sample pH Acceptable Y N NA pH Strips: Y N NA Sulfide Present Y N NA Lead Acetate Strips: Y N NA	
Lab Sample # / Comments: 9264469		Lab Sample Temperature Info: Temp Blank Received: Y N NA Therm ID#: 421070 Cooler 1 Temp Upon Receipt: 42.6 °C Cooler 1 Therm Corr. Factor: 0.0 °C Cooler 1 Corrected Temp: 42.6 °C Comments:	

Effective Date: 11/14/2022

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project #

W0#: 92694109

PM: JWB

Due Date: 10/25/23

CLIENT: 92-MIDLAND

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	V5GU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
1																6													
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12																													

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Effective Date: 11/14/2022

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Project #

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

(2)

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	V5GU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
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pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Effective Date: 11/14/2022

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Project #

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

3

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	V5GU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
1																6													
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pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

APPENDIX C:

TAX MAP

(Not Applicable)

APPENDIX D:

SOIL BORING/FIELD SCREENING LOGS & 1903 FORMS

(Not Applicable)

APPENDIX E:
WELL COMPLETION LOGS & 1903 FORMS
(Not Applicable)

APPENDIX F:
AQUIFER EVALUATION SUMMARY FORMS, DATA, GRAPHS, EQUATIONS
(Not Applicable)

APPENDIX G:
DISPOSAL MANIFEST



October 30, 2023

Re: Treatment of Purge Water
Jake Huggins DBA Outpost at Willowcreek
Florence, South Carolina
UST Permit# 03423
MECI Project Number 22-7924D

To Whom it May Concern;

Midlands Environmental Consultants, Inc. is providing the following letter as certification that treatment of the referenced purge water complied with the conditions of "Proposed Conditions for Use of Portable Activated Carbon Units for the Treatment of Small Volumes of Petroleum Hydrocarbon Contaminated Groundwater", as described in the following:

Applicability:

Groundwater treated was obtained as a result development of wells and sampling.

Conditions:

1. The purge/bail water from all wells is mixed before usage of the Activated Carbon Unit.
2. No free-product was detected in any of the purge water drums.
3. Analytical results of from well sampling show average concentrations of petroleum hydrocarbon constituents less than 5000 parts per billion (ppb) Benzene and less than 20,000 ppb total BTEX.
4. The existing carbon pack will be replaced/reactivated every 5,000 gallons.
5. Record of usage is maintained by Contractor.
6. Any and all recommendations and conditions issued by the Manufacturer have been adhered to.
7. Any and all recommendations and conditions (even on a site by site basis) issued by the SCDHEC must be adhered to.

All purge waters were treated on-site using an up-flow treatment drum loaded with 80 pounds of activated carbon. Carbon will be loaded to a maximum of 3 pounds of total organic compounds or 5,000 gallons of development/purge water, whichever occurs first.

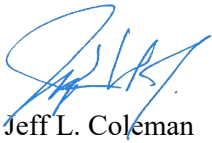
October 23, 2023

41.50 Gallons of Purge water were treated on October 16, 2023 at the referenced site.

Midlands Environmental also tracks cumulative organic compounds adsorbed on the activated carbon to ensure the capacity of carbon mass is not over-charged. This data is available upon request.

Should you have any questions or comments, please contact the undersigned.

Sincerely,
Midlands Environmental Consultants, Inc.



Jeff L. Coleman
Senior Scientist

APPENDIX H:
LOCAL ZONING REGULATIONS
(Not Applicable)

APPENDIX I:
FATE AND TRANSPORT MODELING
(Not Applicable)

APPENDIX J:
ACCESS AGREEMENTS
(Not Applicable)

APPENDIX K:
DATA VERIFICATION CHECKLIST

Contractor Checklist

Item#	Item	Yes	No	N/A
1	Are Facility Name, Permit #, and address provided?	X		
2	Is UST Owner/Operator name, address, & phone number provided?	X		
3	Is name, address, & phone number of current property owner provided?	X		
4	Is the DHEC Certified UST Site Rehabilitation Contractor's Name, Address, telephone number, and certification number provided?	X		
5	Is the name, address, telephone number, and certification number of the well driller that installed borings/monitoring wells provided?			X
6	Is the name, address, telephone number, and certification number of the certified laboratory(ies) performing analytical analyses provided?	X		
7	Has the facility history been summarized?	X		
8	Has the regional geology and hydrogeology been described?	X		
9	Are the receptor survey results provided as required?			X
10	Has current use of the site and adjacent land been described?	X		
11	Has the site-specific geology and hydrogeology been described?	X		
12	Has the primary soil type been described?	X		
13	Have field screening results been described?			X
14	Has a description of the soil sample collection and preservation been detailed?			X
15	Has the field screening methodology and procedure been detailed?			X
16	Has the monitoring well installation and development dates been provided?			X
17	Has the method of well development been detailed?			X
18	Has justification been provided for the locations of the monitoring wells?			X
19	Have the monitoring wells been labeled in accordance with the UST QAPP guidelines?	X		
20	Has the groundwater sampling methodology been detailed?	X		
21	Have the groundwater sampling dates and groundwater measurements been provided? (Table 2 & Figures 4-4A)	X		
22	Has the purging methodology been detailed?	X		
23	Has the volume of water purged from each well been provided along with measurements to verify that purging is complete? (Appendix B)	X		
24	If free-product is present, has the thickness been provided?			X
25	Does the report include a brief discussion of the assessment done and the results?	X		
26	Does the report include a brief discussion of the aquifer evaluation and results?			X
27	Does the report include a brief discussion of the fate & transport models used?			X

Item#	Item	Yes	No	N/A
28	Are the site-conceptual model tables included? (Tier 1 Risk Evaluation)			X
29	Have the exposure pathways been analyzed? (Tier 2 Risk Evaluation)			X
30	Have the SSTLs for each compound and pathway been calculated? (Tier 2 Risk Evaluation)			X
31	Have recommendations for further action been provided and explained?	X		
32	Has the soil analytical data for the site been provided in tabular format?			X
33	Has the potentiometric data for the site been provided in tabular format? (Table 2)	X		
34	Has the current and historical laboratory data been provided in tabular format? (Table 1)	X		
35	Have the aquifer characteristics been provided and summarized on the appropriate form? (Appendix F)			X
36	Have the Site conceptual model tables been included? (Tier 1 Risk Evaluation)			X
37	Has the topographic map been provided with all required elements? (Figure 1)	X		
38	Has the site base map been provided with all required elements? (Figure 2)	X		
39	Have the CoC site maps been provided? (Figure 3-3A)	X		
40	Has the site potentiometric map been provided? (Figure 4-4A)	X		
41	Have the geologic cross-sections been provided?			X
42	Have maps showing the predicted migration of the CoCs through time been provided? (Tier 2 Risk Evaluation)			X
43	Has the site survey been provided and include all necessary elements? (Appendix A)			X
44	Have the sampling logs, chain of custody forms, and the analytical data package been included with all required elements? (Appendix B)	X		
45	Is the laboratory performing the analyses properly certified?	X		
46	Has the tax map been included with all necessary elements? (Appendix C)			X
47	Have the soil boring/field screening logs been provided? (Appendix E)			X
48	Have the well completion logs and SCDHEC Form 1903 been provided? (Appendix E)			X
49	Have the aquifer evaluation forms, data, graphs, equations, etc. been provided? (Appendix F)			X
50	Have the disposal manifests been provided? (Appendix G)	X		
51	Has a copy of the local zoning regulations been provided? (Appendix H)			X
52	Has all fate and transport modeling been provided? (Appendix I)			X
53	Have copies of all access agreements obtained by the contractor been provided? (Appendix J)			X
54	Has a copy of this form been attached to the final report and are explanations for any missing or incomplete data been provided? (Appendix K)	X		

APPENDIX L:
DETAILED RECEPTOR INFORMATION

	Receptor ID: (03423-WSW01)
	Parcel ID: 00213-01-130
	Property Owner Name: Willie B Winchester Jr.
	Property Owner Address: 3101 Willow Creek Rd, Florence, SC 29505
	WSW Details: Well is inside barn building. Sample collected from spigot on water supply well. GPS: 34.096044, -79.701503

	Receptor ID: (03423-WSW02)
	Parcel ID: 00213-01-130
	Property Owner Name: Willie B Winchester Jr.
	Property Owner Address: 3101 Willow Creek Rd, Florence, SC 29505
	WSW Details: Sample collected from spigot on WSW. GPS: 34.095156, -79.700508

	Receptor ID: (03423-WSW03)
	Parcel ID: 00213-01-052
	Property Owner Name: Linda L Huggins
	Property Owner Address: 3695 Willow Creek Rd, Florence, SC 29505
	WSW Details: Well has been disconnected. Unable to sample with bailer due to metal elbow at well head. GPS: 34.096743, -79.701503

	Receptor ID: (03423-Possible WSW)
	Parcel ID: 00214-01-016
	Property Owner Name: Trent P Stallings
	Property Owner Address: 3118 Willow Creek Rd, Florence, SC 29505
	WSW Details: Possible well house attached to residence. Resident did not respond to attempts to make contact. GPS: 34.094158, -79.700555

	Receptor ID: (03423-SW01)	
	Parcel ID:	SCDOT Right of Way
	Property Owner Name:	SCDOT
	Property Owner Address:	PO Box 191, Columbia, SC 29201
SW Details: Surface water sample collected from drainage ditch. GPS: 34.095076, -79.696772		

	Receptor ID: (03423-SW02)	
	Parcel ID:	SCDOT Right of Way
	Property Owner Name:	SCDOT
	Property Owner Address:	PO Box 191, Columbia, SC 29201
SW Details: Surface water sample collected from drainage ditch. GPS: 34.095847, -79.697296		

	Receptor ID: (03423-SW03)	
	Parcel ID:	00213-01-017
	Property Owner Name:	Barbara M Williams
	Property Owner Address:	9296 Grays Highway, Ridgeland, SC 29936
SW Details: Surface water sample collected from stream. GPS: 34.094620, -79.698172		



Receptor ID: (03423-SW04)
Parcel ID: 00213-01-017
Property Owner Name: Barbara M Williams
Property Owner Address: 9296 Grays Highway, Ridgeland, SC 29936
SW Details: Surface water sample collected from stream. GPS: 34.095389, -79.698409



Receptor ID: (03423-SW05)
Parcel ID: 00213-01-017
Property Owner Name: Barbara M Williams
Property Owner Address: 9282 Grays Highway, Ridgeland, SC 29936
SW Details: Surface water sample collected from stream. GPS: 34.096050, -79.698577



Receptor ID: (03423-SW06)
Parcel ID: 00213-01-017
Property Owner Name: Barbara M Williams
Property Owner Address: 9372 Grays Highway, Ridgeland, SC 29936
SW Details: Surface water sample collected from stream. GPS: 34.096699, -79.699359

APPENDIX M:
PHOTOS



03423-DW04
Pre-Repair Photo
10/16/2023



03423-DW04
Post-Repair Photo
10/16/2023

APPENDIX N:
MANN-KENDALL STATISTICAL ANALYSES

GSI MANN-KENDALL TOOLKIT

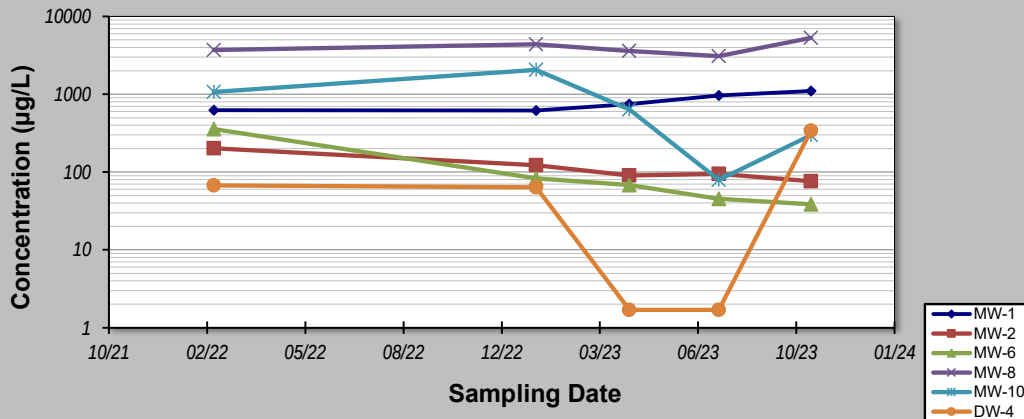
for Constituent Trend Analysis

Evaluation Date: **30-Oct-23**
 Facility Name: **Jake Huggins DBA Outpost @ Willowcreek**
 Conducted By: **Jeff Coleman**

Job ID: **UST#03423**
 Constituent: **BENZENE**
 Concentration Units: **µg/L**

Sampling Point ID: **MW-1** **MW-2** **MW-6** **MW-8** **MW-10** **DW-4**

Sampling Event	Sampling Date	BENZENE CONCENTRATION (µg/L)						
1	15-Feb-22	624	203	356	3720	1070	67.5	
2	9-Jan-23	620	122	83.3	4390	2060	63.6	
3	14-Apr-23	749	90.2	68.1	3620	634	1.7	
4	14-Jul-23	964	95.2	45.4	3110	79.3	1.7	
5	16-Oct-23	1100	76.3	38.5	5330	299	341	
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Coefficient of Variation:		0.26	0.43	1.13	0.21	0.95	1.48	
Mann-Kendall Statistic (S):		8	-8	-10	0	-6	-1	
Confidence Factor:		95.8%	95.8%	99.2%	40.8%	88.3%	50.0%	
Concentration Trend:		Increasing	Decreasing	Decreasing	Stable	Stable	No Trend	



Notes:

- At least four independent sampling events per well are required for calculating the trend. Methodology is valid for 4 to 40 samples.
- Confidence in Trend = Confidence (in percent) that constituent concentration is increasing ($S > 0$) or decreasing ($S < 0$): $> 95\%$ = Increasing or Decreasing; $\geq 90\%$ = Probably Increasing or Probably Decreasing; $< 90\%$ and $S > 0$ = No Trend; $< 90\%$, $S \leq 0$, and $COV \geq 1$ = No Trend; $< 90\%$ and $COV < 1$ = Stable.
- Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.

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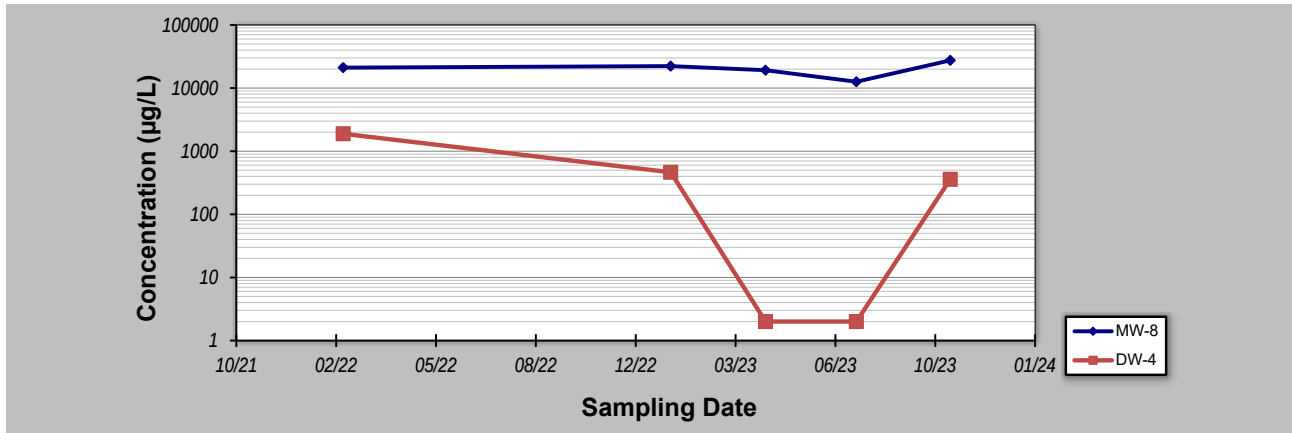
GSI MANN-KENDALL TOOLKIT

for Constituent Trend Analysis

Evaluation Date: **30-Oct-23**
 Facility Name: **Jake Huggins DBA Outpost @ Willowcreek**
 Conducted By: **Jeff Coleman**

Job ID: **UST#03423**
 Constituent: **TOLUENE**
 Concentration Units: **µg/L**

Sampling Point ID:		MW-8	DW-4					
Sampling Event	Sampling Date	TOLUENE CONCENTRATION (µg/L)						
1	15-Feb-22	21100	1890					
2	9-Jan-23	22300	464					
3	14-Apr-23	19200	2					
4	14-Jul-23	12600	2					
5	16-Oct-23	27500	359					
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Coefficient of Variation:		0.26	1.44					
Mann-Kendall Statistic (S):		0	-5					
Confidence Factor:		40.8%	82.1%					
Concentration Trend:		Stable	No Trend					



Notes:

- At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
- Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0): >95% = Increasing or Decreasing; ≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
- Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.

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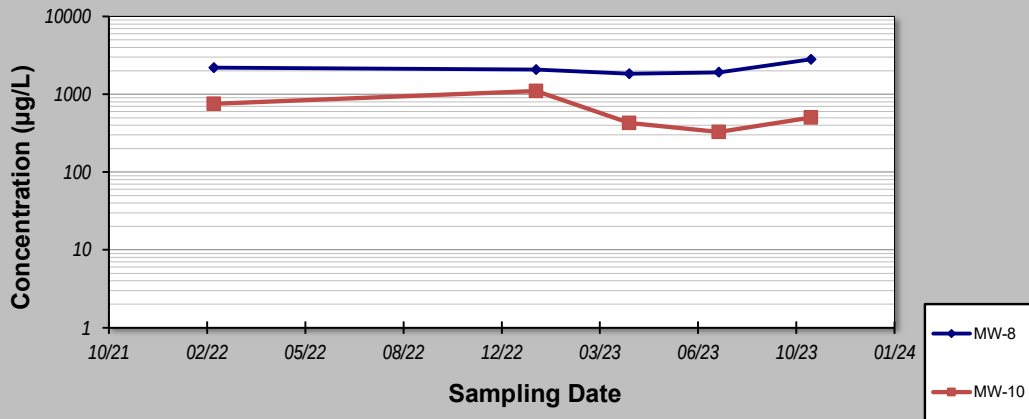
for Constituent Trend Analysis

Evaluation Date: **30-Oct-23**
 Facility Name: **Jake Huggins DBA Outpost @ Willowcreek**
 Conducted By: **Jeff Coleman**

Job ID: **UST#03423**
 Constituent: **ETHYLBENZENE**
 Concentration Units: **µg/L**

Sampling Point ID: **MW-8** **MW-10**

Sampling Event	Sampling Date	ETHYLBENZENE CONCENTRATION (µg/L)					
1	15-Feb-22	2200	753				
2	9-Jan-23	2080	1100				
3	14-Apr-23	1840	428				
4	14-Jul-23	1920	329				
5	16-Oct-23	2810	503				
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20							
Coefficient of Variation:		0.18	0.50				
Mann-Kendall Statistic (S):		0	-4				
Confidence Factor:		40.8%	75.8%				
Concentration Trend:		Stable	Stable				



Notes:

- At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
- Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0): >95% = Increasing or Decreasing; ≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
- Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.

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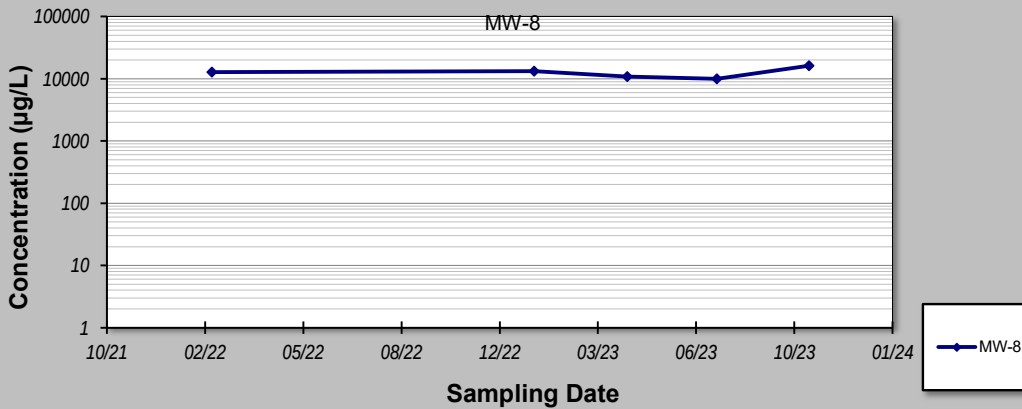
for Constituent Trend Analysis

Evaluation Date: **30-Oct-23**
 Facility Name: **Jake Huggins DBA Outpost @ Willowcreek**
 Conducted By: **Jeff Coleman**

Job ID: **UST#03423**
 Constituent: **XYLENES**
 Concentration Units: **µg/L**

Sampling Point ID: **MW-8**

Sampling Event	Sampling Date	XYLENES CONCENTRATION (µg/L)						
1	15-Feb-22	12800						
2	9-Jan-23	13300						
3	14-Apr-23	10800						
4	14-Jul-23	10000						
5	16-Oct-23	16200						
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Coefficient of Variation:		0.19						
Mann-Kendall Statistic (S):		0						
Confidence Factor:		40.8%						
Concentration Trend:		Stable						



Notes:

- At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
- Confidence in Trend = Confidence (in percent) that constituent concentration is increasing ($S > 0$) or decreasing ($S < 0$): $> 95\%$ = Increasing or Decreasing; $\geq 90\%$ = Probably Increasing or Probably Decreasing; $< 90\%$ and $S > 0$ = No Trend; $< 90\%$, $S \leq 0$, and $COV \geq 1$ = No Trend; $< 90\%$ and $COV < 1$ = Stable.
- Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.

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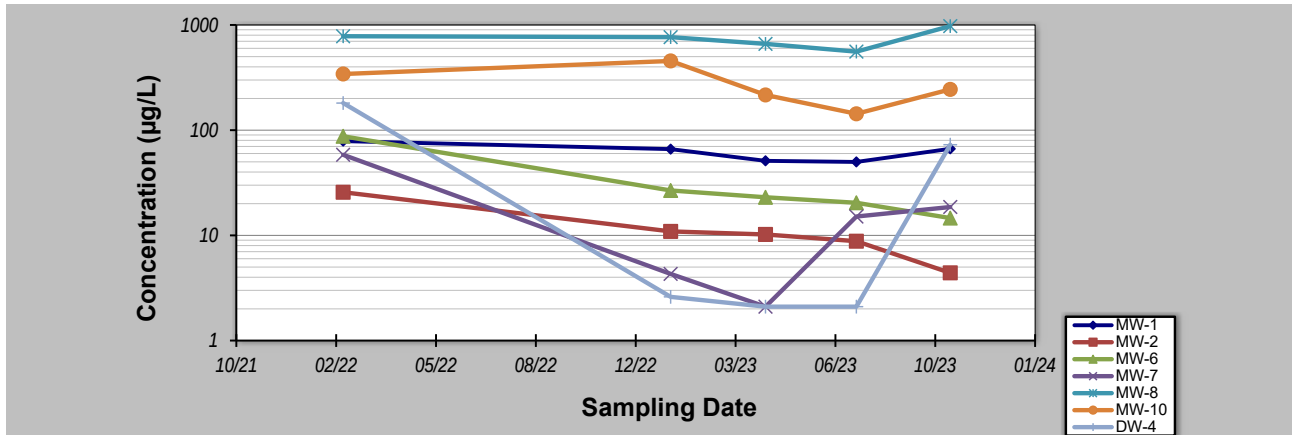
GSI MANN-KENDALL TOOLKIT

for Constituent Trend Analysis

Evaluation Date: **30-Oct-23**
 Facility Name: **Jake Huggins DBA Outpost @ Willowcreek**
 Conducted By: **Jeff Coleman**

Job ID: **UST#03423**
 Constituent: **NAPHTHALENE**
 Concentration Units: **µg/L**

Sampling Point ID:		MW-1	MW-2	MW-6	MW-7	MW-8	MW-10	DW-4
Sampling Event	Sampling Date	NAPHTHALENE CONCENTRATION (µg/L)						
1	15-Feb-22	78.7	25.7	87.5	58.3	781	342	181
2	9-Jan-23	66	10.9	26.7	4.3	766	455	2.6
3	14-Apr-23	51.1	10.2	23	2.1	661	216	2.1
4	14-Jul-23	49.9	8.8	20.4	15.1	558	143	2.1
5	16-Oct-23	66.5	4.4	14.6	18.6	975	244	72.7
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20								
Coefficient of Variation:		0.19	0.67	0.87	1.15	0.21	0.43	1.50
Mann-Kendall Statistic (S):		-4	-10	-10	0	-2	-4	-3
Confidence Factor:		75.8%	99.2%	99.2%	40.8%	59.2%	75.8%	67.5%
Concentration Trend:		Stable	Decreasing	Decreasing	No Trend	Stable	Stable	No Trend



Notes:

- At least four independent sampling events per well are required for calculating the trend. Methodology is valid for 4 to 40 samples.
- Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0): >95% = Increasing or Decreasing; ≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
- Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, Ground Water, 41(3):355-367, 2003.

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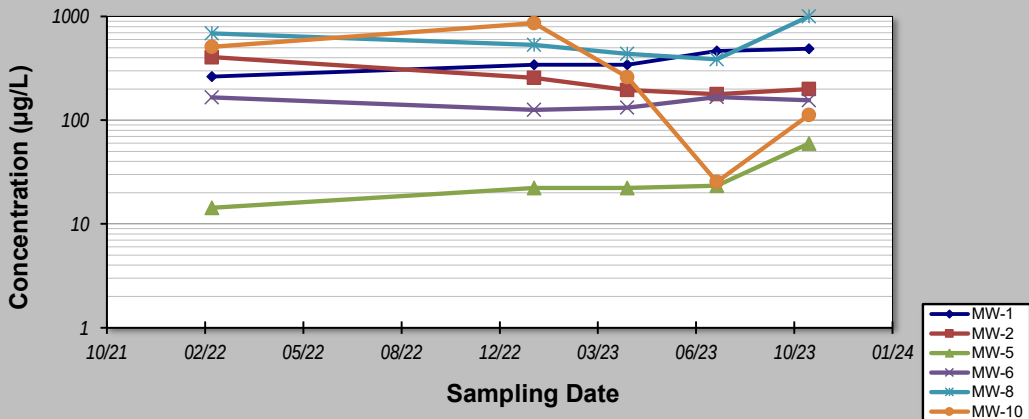
for Constituent Trend Analysis

Evaluation Date: **30-Oct-23**
 Facility Name: **Jake Huggins DBA Outpost @ Willowcreek**
 Conducted By: **Jeff Coleman**

Job ID: **UST#03423**
 Constituent: **MTBE**
 Concentration Units: **µg/L**

Sampling Point ID: **MW-1** **MW-2** **MW-5** **MW-6** **MW-8** **MW-10**

Sampling Event	Sampling Date	MTBE CONCENTRATION (µg/L)						
1	15-Feb-22	264	405	14.3	166	690	510	
2	9-Jan-23	342	256	22.2	126	531	865	
3	14-Apr-23	343	195	22.3	132	435	260	
4	14-Jul-23	465	178	23.4	167	388	25.4	
5	16-Oct-23	488	200	59.5	156	1000	112	
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Coefficient of Variation:		0.25	0.38	0.63	0.13	0.41	0.96	
Mann-Kendall Statistic (S):		10	-6	10	2	-2	-6	
Confidence Factor:		99.2%	88.3%	99.2%	59.2%	59.2%	88.3%	
Concentration Trend:		Increasing	Stable	Increasing	No Trend	Stable	Stable	



Notes:

- At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
- Confidence in Trend = Confidence (in percent) that constituent concentration is increasing ($S > 0$) or decreasing ($S < 0$): $> 95\%$ = Increasing or Decreasing; $\geq 90\%$ = Probably Increasing or Probably Decreasing; $< 90\%$ and $S > 0$ = No Trend; $< 90\%$, $S \leq 0$, and $COV \geq 1$ = No Trend; $< 90\%$ and $COV < 1$ = Stable.
- Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.

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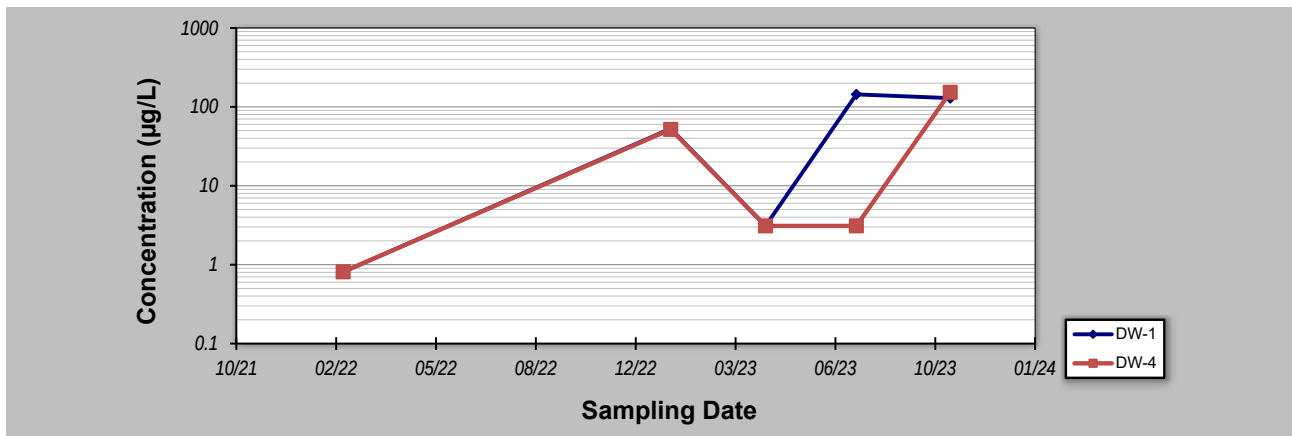
for Constituent Trend Analysis

Evaluation Date: **30-Oct-23**
 Facility Name: **Jake Huggins DBA Outpost @ Willowcreek**
 Conducted By: **Jeff Coleman**

Job ID: **UST#03423**
 Constituent: **MTBE**
 Concentration Units: **µg/L**

Sampling Point ID: **DW-1** **DW-4**

Sampling Event	Sampling Date	MTBE CONCENTRATION (µg/L)					
1	15-Feb-22	0.81	0.81				
2	9-Jan-23	52.9	51.8				
3	14-Apr-23	3.1	3.1				
4	14-Jul-23	144	3.1				
5	16-Oct-23	129	153				
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18							
19							
20							
Coefficient of Variation:		1.03	1.55				
Mann-Kendall Statistic (S):		6	5				
Confidence Factor:		88.3%	82.1%				
Concentration Trend:		No Trend	No Trend				



Notes:

- At least four independent sampling events per well are required for calculating the trend. Methodology is valid for 4 to 40 samples.
- Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0): >95% = Increasing or Decreasing; ≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
- Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.

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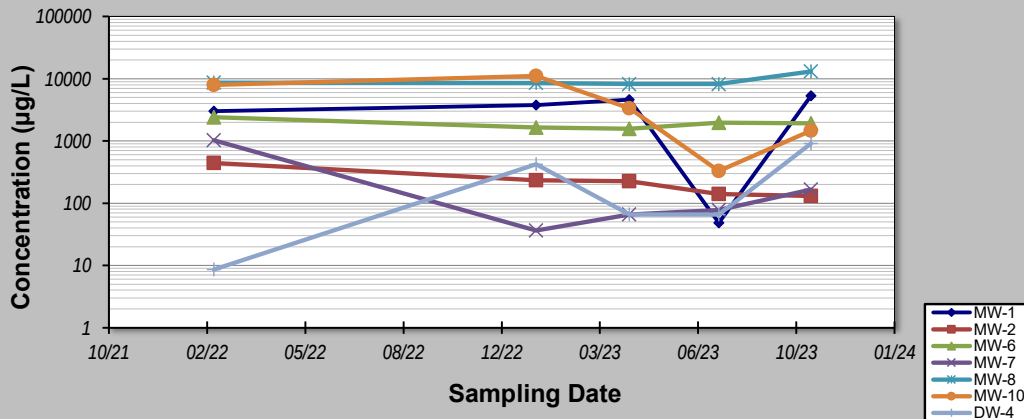
for Constituent Trend Analysis

Evaluation Date: **30-Oct-23**
 Facility Name: **Jake Huggins DBA Outpost @ Willowcreek**
 Conducted By: **Jeff Coleman**

Job ID: **UST#03423**
 Constituent: **TAA**
 Concentration Units: **µg/L**

Sampling Point ID: **MW-1** **MW-2** **MW-6** **MW-7** **MW-8** **MW-10** **DW-4**

Sampling Event	Sampling Date	TAA CONCENTRATION (µg/L)						
1	15-Feb-22	3030	442	2410	1030	8690	7950	8.6
2	9-Jan-23	3770	233	1640	36.4	8510	11100	422
3	14-Apr-23	4640	225	1570	65.6	8200	3350	65.6
4	14-Jul-23	48.3	141	1960	77.7	8200	328	65.6
5	16-Oct-23	5340	131	1930	166	13100	1460	913
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17								
18								
19								
20								
Coefficient of Variation:		0.61	0.53	0.17	1.54	0.23	0.94	1.30
Mann-Kendall Statistic (S):		4	-10	-2	2	-1	-6	5
Confidence Factor:		75.8%	99.2%	59.2%	59.2%	50.0%	88.3%	82.1%
Concentration Trend:		No Trend	Decreasing	Stable	No Trend	Stable	Stable	No Trend



Notes:

- At least four independent sampling events per well are required for calculating the trend. Methodology is valid for 4 to 40 samples.
- Confidence in Trend = Confidence (in percent) that constituent concentration is increasing ($S > 0$) or decreasing ($S < 0$): $> 95\%$ = Increasing or Decreasing; $\geq 90\%$ = Probably Increasing or Probably Decreasing; $< 90\%$ and $S > 0$ = No Trend; $< 90\%$, $S \leq 0$, and $COV \geq 1$ = No Trend; $< 90\%$ and $COV < 1$ = Stable.
- Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.

DISCLAIMER: The GSI Mann-Kendall Toolkit is available "as is". Considerable care has been exercised in preparing this software product; however, no party, including without limitation GSI Environmental Inc., makes any representation or warranty regarding the accuracy, correctness, or completeness of the information contained herein, and no such party shall be liable for any direct, indirect, consequential, incidental or other damages resulting from the use of this product or the information contained herein. Information in this publication is subject to change without notice. GSI Environmental Inc., disclaims any responsibility or obligation to update the information contained herein.

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GSI MANN-KENDALL TOOLKIT

for Constituent Trend Analysis

Evaluation Date: **30-Oct-23**
 Facility Name: **Jake Huggins DBA Outpost @ Willowcreek**
 Conducted By: **Jeff Coleman**

Job ID: **UST#03423**
 Constituent: **DIPE**
 Concentration Units: **µg/L**

Sampling Point ID:

MW-1

MW-8

MW-10

Sampling Event	Sampling Date	DIPE CONCENTRATION (µg/L)						
1	15-Feb-22	160	268	339				
2	9-Jan-23	191	239	555				
3	14-Apr-23	178	436	165				
4	14-Jul-23	268	436	17.6				
5	16-Oct-23	297	698	68.1				
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

Coefficient of Variation:

0.27

0.44

0.96

Mann-Kendall Statistic (S):

8

7

-6

Confidence Factor:

95.8%

92.1%

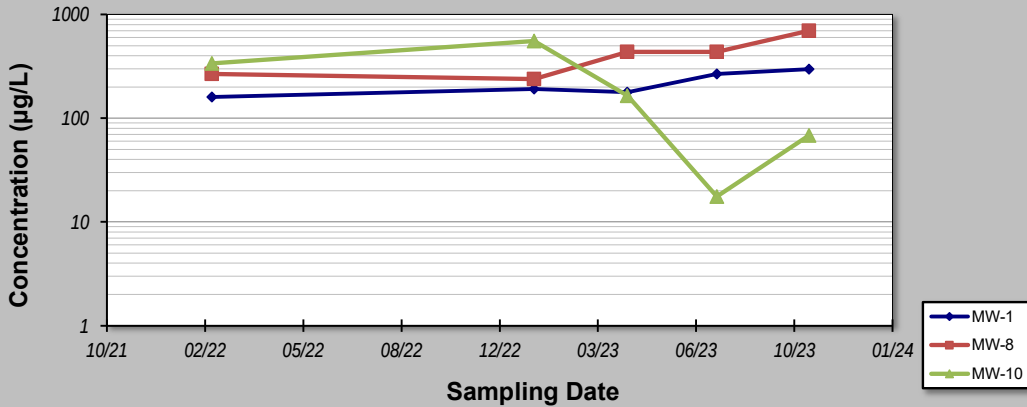
88.3%

Concentration Trend:

Increasing

Prob. Increasing

Stable



Notes:

- At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
- Confidence in Trend = Confidence (in percent) that constituent concentration is increasing ($S > 0$) or decreasing ($S < 0$): $> 95\%$ = Increasing or Decreasing; $\geq 90\%$ = Probably Increasing or Probably Decreasing; $< 90\%$ and $S > 0$ = No Trend; $< 90\%$, $S \leq 0$, and $COV \geq 1$ = No Trend; $< 90\%$ and $COV < 1$ = Stable.
- Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.

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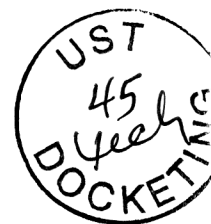
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May 3, 2024

RECEIVED
MAY 06 2024
UST DIVISION

Mr. Robert A. Dunn, Hydrogeologist
Corrective Action Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management
South Carolina Department of Health
and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201



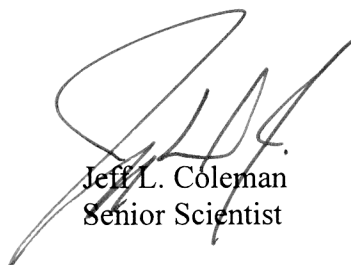
Subject: Site-Specific Work Plan
Jake Huggins DBA Outpost at Willowcreek
Florence, South Carolina
UST Permit# 03423
Certified Site Rehabilitation Contractor UCC-0009

Dear Mr. Dunn,

Midlands Environmental Consultants Inc. (MECI) is pleased to submit the attached Site-Specific Work Plan for the referenced site. MECI is making this proposal to collect current analytical data to evaluate the groundwater quality beneath the site.

If you have any question or comments, please feel free to contact us at 803-808-2043.

Sincerely,
Midlands Environmental Consultants, Inc.



Jeff L. Coleman
Senior Scientist



Site-Specific Work Plan for Approved ACQAP Underground Storage Tank Management Division

To: Mr. Robert Dunn (SCDHEC Project Manager)
From: Jeff L. Coleman (Contractor Project Manager)
Contractor: Midlands Environmental Consultants, Inc. UST Contractor Certification Number: 009

Facility Name: Jake Huggins DBA Outpost at Willowcreek, LLC. UST Permit #: 03423
Facility Address: 4925 Pamplico Highway, Florence, SC 29505
Responsible Party: BW Stokes Oil Company Phone: (843) 621-5865
RP Address: 1001 Chase Street, Florence, SC 29501
Property Owner (if different): Barbara Williams
Property Owner Address: 3309 Willow Creek Road, Florence, SC 29505
Current Use of Property: Vacant Lot/Residence

Scope of Work (Please check all that apply)

☐ IGWA ☐ Tier II ☒ Groundwater Sampling ☐ GAC
☐ Tier I ☐ Monitoring Well Installation ☐ Other _____

Analyses (Please check all that apply)

Groundwater/Surface Water:

☒ BTEXNMDCA (8260D) ☐ Lead ☐ BOD ☐ Methane
☒ Oxygenates (8260D) ☐ 8 RCRA Metals ☐ Nitrate ☐ Ethanol
☒ EDB (8011) ☐ TPH ☐ Sulfate ☐ Dissolved Iron
☐ PAH (8270E) ☐ pH ☐ Other _____

Drinking Water Supply Wells:

☒ BTEXNMDCA (524.2) ☐ Mercury (200.8 245.1 or 245.2) ☒ EDB (504.1)
☒ Oxygenates & Ethanol (8260D) ☐ RCRA Metals (200.8)

Soil:

☐ BTEXNM ☐ Lead ☐ RCRA Metals ☐ TPH-DRO (3550B/8015B) ☐ Grain Size
☐ PAH ☐ Oil & Grease (9071) ☐ TPH-GRO (5030B/8015B) ☐ TOC

Air:

☐ BTEXN

Sample Collection (Estimate the number of samples of each matrix that are expected to be collected.)

_____ Soil	_____ 2 _____	_____ Air	_____ 2 _____
_____ 14 _____	_____ 6 _____	_____ 2 _____	_____ 2 _____
_____ Monitoring Wells	_____ Surface Water	_____ Duplicate	_____ Trip Blank

Field Screening Methodology

Estimate number and total completed depth for each point, and include their proposed locations on the attached map.

of shallow points proposed: _____ Estimated Footage: _____ feet per point
of deep points proposed: _____ Estimated Footage: _____ feet per point
Field Screening Methodology: _____

Permanent Monitoring Wells

Estimate number and total completed depth for each well, and include their proposed locations on the attached map.

of shallow wells: _____ Estimated Footage: _____ feet per point
of deep wells: _____ Estimated Footage: _____ feet per point
of recovery wells: _____ Estimated Footage: _____ feet per point

Comments, if warranted:

UST Permit #: 03423 Facility Name: Jake Huggins DBA Outpost at Willowcreek

Implementation Schedule (Number of calendar days from approval)

Field Work Start-Up: 5/3/2024 Field Work Completion: 7/3/2024

Report Submittal: 8/3/2024 # of Copies Provided to Property Owners: 4

Aquifer Characterization

Pump Test: ☐ Slug Test: ☐ (Check one and provide explanation below for choice)

Investigation Derived Waste Disposal

Soil: _____ Tons Purge Water: 100.00 _____ Gallons
Drilling Fluids: _____ Gallons Free-Phase Product: _____ Gallons

Additional Details For This Scope of Work

For example, list wells to be sampled, wells to be abandoned/repared, well pads/bolts/caps to replace, details of AFVR event, etc.

-MECI proposes conducting a groundwater sampling event to collect current analytical data to evaluate the groundwater quality beneath the site.

-Sampling at the referenced site has not been completed since October of 2023.

-MECI proposes only purging wells which do not bracket the water table.

Compliance With Annual Contractor Quality Assurance Plan (ACQAP)

Yes Laboratory as indicated in ACQAP? (Yes/No) If no, indicate laboratory information below.

Name of Laboratory: _____

SCDHEC Certification Number: _____

Name of Laboratory Director: _____

N/A Well Driller as indicated in ACQAP? (Yes/No) If no, indicate driller information below.

Name of Well Driller: _____

SCLLR Certification Number: _____

N/A Other variations from ACQAP. Please describe below.

Attachments

1. Attach a copy of the relevant portion of the USGS topographic map showing the site location.
2. Prepare a site base map. This map must be accurately scaled, but does not need to be surveyed. The map must include the following:

North Arrow	Proposed monitoring well locations
Location of property lines	Legend with facility name and address, UST permit number, and bar scale
Location of buildings	Streets or highways (indicate names and numbers)
Previous soil sampling locations	Location of all present and former ASTs and USTs
Previous monitoring well locations	Location of all potential receptors
Proposed soil boring locations	
3. Assessment Component Cost Agreement, SCDHEC Form D-3664



ASSESSMENT COMPONENT COST AGREEMENT
 South Carolina Department of Health and Environmental Control
 Underground Storage Tank Management Division
 State Underground Petroleum Environmental Response Bank Account
 August 9, 2023

Facility Name: Jake Huggins DBA Outpost @ Willowcreek, LLC.

UST Permit #: 03423 **Cost Agreement #:** Proposal

ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL
A. Plan Preparation				
1.2 Site-specific Work Plan	1	each	\$183.22	\$183.22
2.2 Tax Map		each	\$85.50	\$0.00
3.2 QAPP Contractor Addendum (App B)		each	\$250.00	\$0.00
B. Survey				
1.1 Receptor Survey		each	\$673.06	\$0.00
C. Survey				
1.2 Comprehensive Survey		each	\$1,270.36	\$0.00
5.1 Ground Penetrating Radar Survey (100 x 100)		each	\$1,111.57	\$0.00
D. Mob/Demob				
1.2 Equipment		each	\$1,245.93	\$0.00
2.2 Personnel	2	each	\$516.69	\$1,033.38
3.2 Adverse Terrain Vehicle		each	\$610.75	\$0.00
E. Soil Borings				
1.1 Soil Borings (hand auger)		foot	\$21.80	\$0.00
F. Soil Borings (requiring equipment, push technology, etc) or Field Screening (including sampling and analyst)				
1.2 Standard		per foot	\$33.50	\$0.00
2.2 Fractured Rock		per foot	\$41.40	\$0.00
G.				
H. Well Abandonment				
1.2 2" diameter or less		per foot	\$3.79	\$0.00
2.2 Greater than 2" to 6" diameter		per foot	\$5.50	\$0.00
3.2 Dug/Bored well (up to 6 feet diameter)		per foot	\$18.32	\$0.00
I. Well Installation (In accordance with R.61-71)				
1.2 Water Table (hand augered)		per foot	\$31.40	\$0.00
2.B Water Table (drill rig) 2" Diameter		per foot	\$54.90	\$0.00
2.2 Single-cased 2" Diameter Monitoring Well >50ft		per foot	\$59.80	\$0.00
3.2 Telescoping		per foot	\$84.70	\$0.00
4.2 Rock Drilling		per foot	\$81.80	\$0.00
5.2 2" Rock Coring		per foot	\$88.50	\$0.00
6.2 Multi-sampling ports/screens		per foot	\$59.40	\$0.00
7.2 Recovery Well (4" diameter)		per foot	\$69.60	\$0.00
9.2 Rotasonic (2" diameter)		per foot	\$119.00	\$0.00
10.2 Re-develop Existing Well		per foot	\$13.44	\$0.00

J. Groundwater Sample Collection / Gauging Depth to Water/Product

1.2 Groundwater Purge	4	per well	\$73.29	\$293.16
2.2 Air or Vapors		sample	\$14.66	\$0.00
3.2 Water Supply Sample	2	sample	\$26.87	\$53.74
4.1A HydraSleeve		sample	\$34.20	\$0.00
4.2B No-purge Groundwater Sample/Surface water	16	sample	\$57.24	\$915.84
5.2 Gauge Well only		sample	\$8.55	\$0.00
6.2 Sample Below Product		sample	\$14.66	\$0.00
7.2 Passive Diffusion Bag		sample	\$31.75	\$0.00
8.2 Field Duplicates (MWs & WSWs) and Field Bla	4	sample	\$30.06	\$120.24
9.2 Groundwater (low flow purge)		sample	\$111.16	\$0.00
10.2 Equipment Blank		sample	\$30.06	\$0.00
11.1 Sample Product		per well	\$52.66	\$0.00

K. Laboratory Analyses-Groundwater

1.2 BTEXNM+Oxyg's+1,2 DCA+Eth(8260D)	22	per sample	\$149.02	\$3,278.44
2.2 Lead, Filtered		per sample	\$16.85	\$0.00
3.2 Rush EPA Method 8260B		per sample	\$187.62	\$0.00
4.2 Trimethal, Butyl, and Isopropyl Benzenes		per sample	\$34.20	\$0.00
5.2 PAH's		per sample	\$74.02	\$0.00
6.2 Lead		per sample	\$19.54	\$0.00
7.2 EDB by EPA 8011	21	per sample	\$55.21	\$1,159.41
8.2 EDB by EPA Method 8011 Rush		per sample	\$83.31	\$0.00
9.2 8 RCRA Metals		per sample	\$77.45	\$0.00
10.2 TPH (9070)		per sample	\$50.09	\$0.00
11.2 PH		per sample	\$6.35	\$0.00
12.2 BOD		per sample	\$24.42	\$0.00
13.2 Ethanol		per sample	\$18.08	\$0.00

K. Analyses-Drinking Water

14.2 BTEXNM+1,2 DCA (524.2)	5	per sample	\$151.52	\$757.60
15.2 7-OXYGENATES & ETHANOL (8260D)	5	per sample	\$112.07	\$560.35
16.2 EDB (504.1)	4	per sample	\$97.11	\$388.44
17.2 RCRA METALS (200.8)		per sample	\$122.15	\$0.00

K. Analyses-Soil

18.2 BTEX + Naphth.		per sample	\$78.18	\$0.00
19.2 PAH's		per sample	\$78.22	\$0.00
20.2 8 RCRA Metals		per sample	\$68.89	\$0.00
21.2 TPH-DRO (3550C/8015C)		per sample	\$48.86	\$0.00
22.2 TPH-GRO (5035B/8015C)		per sample	\$43.92	\$0.00
23.2 Grain size/hydrometer		per sample	\$127.04	\$0.00
24.2 Total Organic Carbon		per sample	\$37.38	\$0.00

K. Analyses-Air					
25.2 BTEX + Naphthalene		per sample	\$263.84		\$0.00
K. Hydrocarbon Fuel Identification					
27.1 C3-C44 Whole Oil (ASTM D3328)		per sample	\$465.93		\$0.00
28.1 Fuel Oxygenates (1624 Mod)		per sample	\$398.39		\$0.00
29.1 ALKYL Leads, EDB MMT (8080)		per sample	\$398.39		\$0.00
30.1 C8-C40 Full Scan (ASTM 5739)		per sample	\$629.64		\$0.00
31.1 Simulated Distillation (ASTM 2887)		per sample	\$398.39		\$0.00
32.1 Parent & Alk. PAH Com. (8270 SIM)		per sample	\$723.63		\$0.00
33.1 C3-C10 Piano (8260 MOD)		per sample	\$599.88		\$0.00
34.1 C10+Alkane Fingerprints		per sample	\$599.88		\$0.00
35.1 Expert Data Interpretation & Report		each	\$595.30		\$0.00
L. Aquifer Characterization					
1.2 Pumping Test		per hour	\$28.09		\$0.00
2.2 Slug Test		per test	\$233.31		\$0.00
3.2 Fractured Rock		per test	\$122.15		\$0.00
M. Free Product					
1.1 Free Product Recovery Rate Test		each	\$46.42		\$0.00
N.					
O. Risk Evaluation					
1.2 Tier I Risk Evaluation		each	\$366.45		\$0.00
2.2 Tier II Risk Evaluation		each	\$122.15		\$0.00
P. Survey					
1.1 Subsequent Survey		each	\$297.65		\$0.00
Q. Disposal (gallons or tons)					
1.2 Wastewater	100	gallon	\$1.19		\$119.00
2.2 Free Product		gallon	\$1.63		\$0.00
3.2 Soil Treatment/Disposal		ton	\$156.25		\$0.00
4.2 Drilling fluids		gallon	\$1.25		\$0.00
R. Miscellaneous (attach receipts)					
		each	\$0.00		\$0.00
		each	\$0.00		\$0.00
		each	\$0.00		\$0.00
T. Tier I Assessment (Use DHEC 3665 form)					
1.2 Southeast Region		standard	\$12,622.56		\$0.00
2.2 All Other Counties		standard	\$13,844.06		\$0.00
U. IGWA (Use DHEC 3666 form)					
1.2 Southeast Region		standard	\$4,353.67		\$0.00
2.2 All Other Counties		standard	\$4,720.01		\$0.00
22. Active Correction Action					
		PFP	Bid Cost		\$0.00

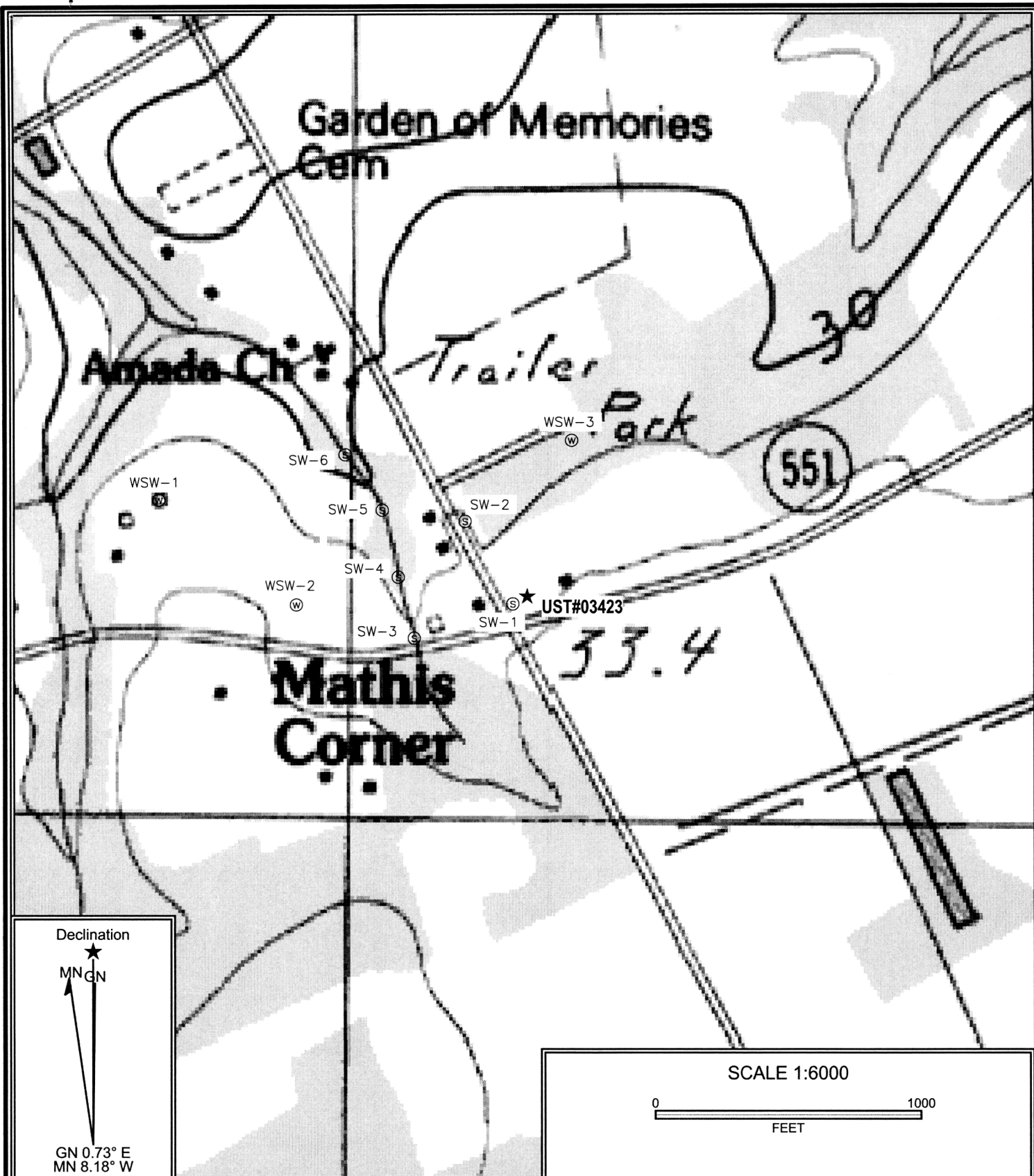
W. Aggressive Fluid & Vapor Recovery (AFVR)

1.2 8-hour Event		per event	\$1,787.40	\$0.00
2.1 24-hour Event		per event	\$4,407.78	\$0.00
3.1 48-hour Event		per event	\$7,242.29	\$0.00
4.1 96-hour Event		per event	\$14,482.28	\$0.00
5.1 Off-gas Treatment 8 hour		per event	\$141.17	\$0.00
6.2 Off-gas Treatment 24 hour		per event	\$294.30	\$0.00
7.2 Off-gas Treatment 48 hour		per event	\$386.10	\$0.00
8.1 Off-gas Treatment 96 hour		per event	\$898.84	\$0.00
9.1 Off-gas Treatment 8 hour (w/chlorinated compounds)		per event	\$464.40	\$0.00
10.1 Off-gas Treatment 24 hour (w/chlorinated compounds)		per event	\$540.00	\$0.00
11.1 Off-gas Treatment 48 hour (w/chlorinated compounds)		per event	\$1,080.00	\$0.00
12.1 Off-gas Treatment 96 hour (w/chlorinated compounds)		per event	\$2,160.00	\$0.00
13.2 AFVR Effluent Disposal(w/chlorinated compounds)		gallon	\$0.64	\$0.00
14.2 AFVR Site Reconnaissance		each	\$302.40	\$0.00
15.1 Additional Hook-ups		each	\$29.68	\$0.00
16.2 AFVR Effluent Disposal		gallon	\$0.53	\$0.00
17.2 AFVR Mobilization/Demobilization		each	\$777.60	\$0.00
18.1 Mobilization for absorbents/skimers		each	\$516.69	\$0.00
19.1 Well sock 2" ID well		each	\$36.94	\$0.00
20.1 Well sock 4" ID well		each	\$49.03	\$0.00
21.1 pad (per pad)		each	\$49.95	\$0.00
22.1 3" diameter x 10' length boom		each	\$108.00	\$0.00
23.1 5" diameter x 10' length boom		each	\$132.84	\$0.00
24.1 New FPP recovery skimmer (2" wells)		each	\$791.10	\$0.00
25.1 New FPP recovery skimmer (4" wells)		each	\$1,247.40	\$0.00
26.1 Refurbished FPP recovery skimmer (2" or 4" wells)		each	\$760.32	\$0.00
27.1 Disposal of Absorbents		pound	\$4.10	\$0.00
28.1 Disposal of product from skimmers		gallon	\$0.50	\$0.00

X. Granulated Activated Carbon (GAC) filter system installation & service:

1.2 New GAC System Installation		each	\$2,320.86	\$0.00
2.2 Refurbished GAC Sys. Install		each	\$1,099.35	\$0.00
3.2 Filter replacement/removal		each	\$427.53	\$0.00
4.2 GAC System removal, cleaning, & refurbishment		each	\$335.92	\$0.00
5.2 GAC System housing		each	\$305.38	\$0.00
6.2 In-line particulate filter		each	\$183.22	\$0.00
7.2 Additional piping & fittings		foot	\$1.84	\$0.00

Y. Well Repair					
1.2 Additional Copies of the Report Delivered	4	each	\$61.07		\$244.28
2.2 Repair 2x2 MW pad		each	\$61.07		\$0.00
3.2 Repair 4x4 MW pad		each	\$107.49		\$0.00
4.2 Replace well vault		each	\$144.14		\$0.00
5.2 Replace well cover bolts		each	\$3.18		\$0.00
6.2 Replace locking well cap & lock		each	\$18.32		\$0.00
7.2 Replace/Repair stick-up		each	\$163.68		\$0.00
8.2 Convert Flush-mount to Stick-up		each	\$183.22		\$0.00
9.2 Convert Stick-up to Flush-mount		each	\$158.79		\$0.00
10.2 Replace missing/illegible well ID plate		each	\$14.66		\$0.00
11.1 Down-hole Camera		per foot	\$29.25		\$0.00
Z. High Resolution Site Characterization					
1.1 HRSC Screening Equipment Mobilization		each	\$1,468.80		\$0.00
2.1 HRSC Drilling Category 1		per foot	\$31.32		\$0.00
3.1 HRSC Drilling Category 2		per foot	\$36.18		\$0.00
4.1 HRSC Drilling Category 3		per foot	\$29.16		\$0.00
5.1 HRSC 3-D Model		each	\$4,363.20		\$0.00
S. Report Prep & Project Management	12%	percent	\$9,107.10		\$1,092.85
TOTAL					\$10,199.95



Reference: Evergreen, South Carolina
 USGS 7.5 Min. Quad
 Contour Interval - 2 Meters

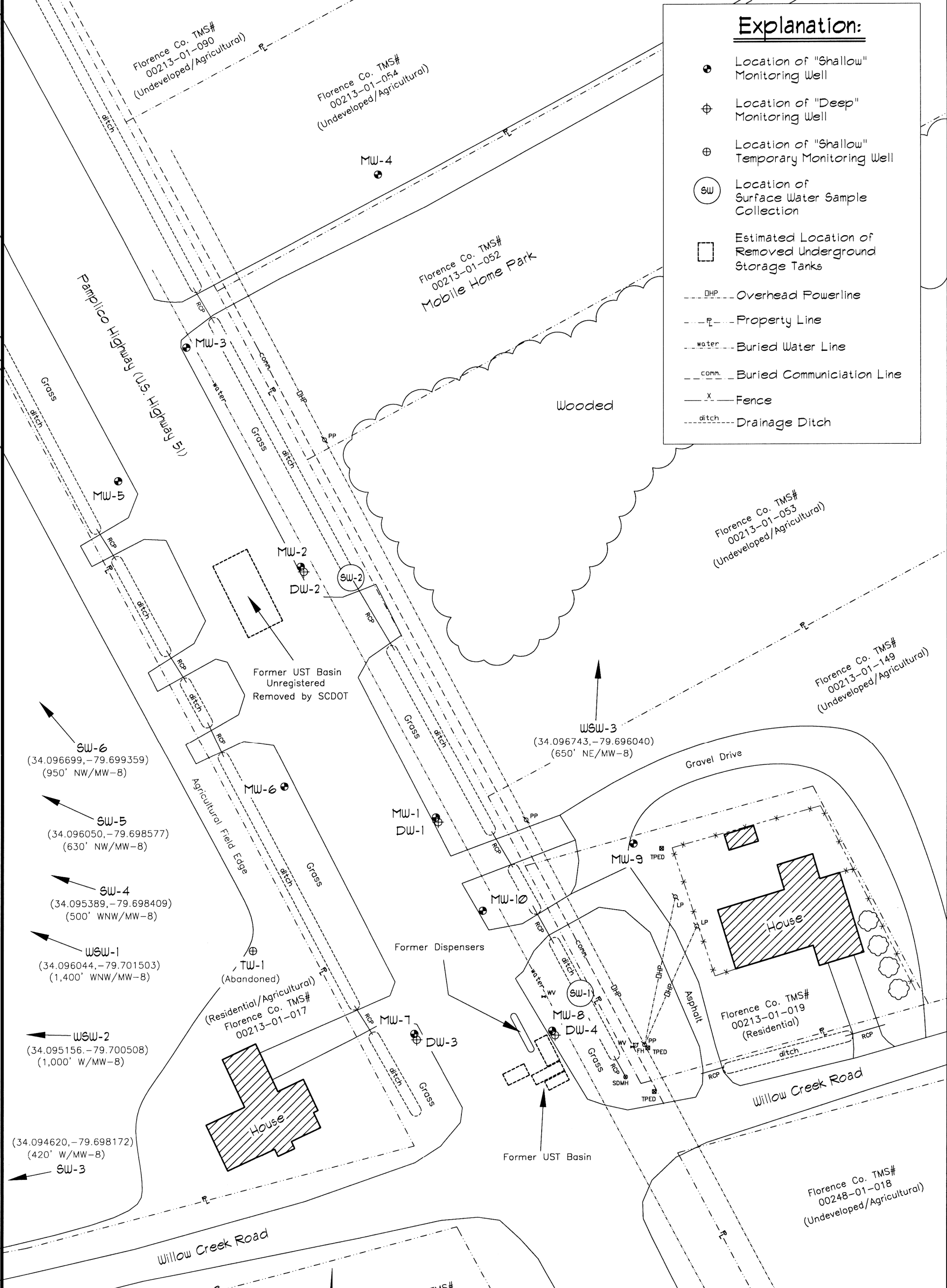
Midlands
 Environmental
 Consultants, Inc.

Site Location

Jake Huggins DBA Outpost at Willowcreek, LLC.
 4925 Pamplico Highway, Florence, SC
 UST Permit# 18419

Figure 1

MECI 22-7924D



Explanation:

- Location of "Shallow" Monitoring Well
- ⊕ Location of "Deep" Monitoring Well
- ⊕ Location of "Shallow" Temporary Monitoring Well
- ⊙ Location of Surface Water Sample Collection
- Estimated Location of Removed Underground Storage Tanks
- DHP --- Overhead Powerline
- P --- Property Line
- water --- Buried Water Line
- comm --- Buried Communication Line
- X --- Fence
- ditch --- Drainage Ditch

Site Base Map

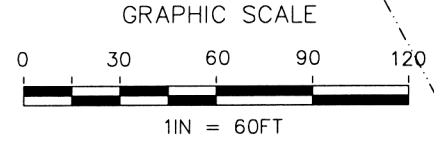
Jake Huggins DBA Outpost at Willow Creek
4925 Pamlico Highway
Florence, South Carolina
UST Permit# 03423

Midlands
Environmental
Consultants, Inc.

JOB NO. 22-7924D
DATE October 30, 2023
FIGURE

2

Drawing Based on MECI Field Notes, Florence County GIS Imagery and an RLS Survey by Construction Supports Services, dated 2/25/2022.





JUN 12 2024



B W STOKES OIL CO INC
ATTN MR BENNIE STOKES
PO BOX 1656
FLORENCE SC 29503

Re: Site-Specific Work Plan Approval & Groundwater Sampling Notice to Proceed
Jake Huggins Dba Outpost At Willowcreek; 4925 Pamplico Hwy., Florence, SC
UST Permit #03423; CA #65749
Release reported February 26, 2002
Site-Specific Work Plan (SSWP) received May 06, 2024
Florence County

Dear Mr. Stokes:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (DHEC) has reviewed and approved the referenced SSWP. All scopes of work should be conducted in compliance with the most recent revision of the Quality Assurance Program Plan (QAPP) for the UST Management Division, your contractor's ACQAP, the submitted SSWP, and all applicable regulations.

Pursuant to S.C. Code Ann. Section 44-2-40(D), "The SUPERB Account and the SUPERB Financial Responsibility Fund shall provide combined coverage for site rehabilitation and third-party claims, respectively, not to exceed one million dollars per occurrence". According to DHEC records, approximately \$109,743.30 has been expended from the SUPERB account to date. This scope of work, as recommended by your contractor, is proposed to cost approximately \$10,199.96.

The Monitoring Report and invoice should be submitted within 60 days of the date of this correspondence. If the report cannot be submitted by the required due date, an extension must be requested in writing, via mail or email, prior to the due date. DHEC will issue a Notice of Alleged Violation if the report is not submitted by the required due date. The approved costs are detailed in the enclosed Cost Agreement (CA).

In accordance with Section IV.A.4.c of the SUPERB Site Rehabilitation & Fund Access Regulation (R.61-98), the contractor shall be required to indemnify the property owner, underground storage tank owner/operator and the State of South Carolina from and against all claims, damages, losses and expenses arising out of or resulting from activity conducted by the contractor, its agents, employees or subcontractors.

Your contractor can submit an invoice for direct payment from the State Underground Petroleum Environmental Response Bank (SUPERB) Account for pre-approved costs. If the invoice is not submitted within 120 days from the date of this letter, monies allocated to pay this invoice will be uncommitted. This means that the invoice will not be processed for payment until all other committed funds are paid or monies become available.

Sections 44-2-110(4) and 44-2-130 of the SUPERB Statute state that the SUPERB Account cannot compensate any costs that are not pre-approved. If for any reason additional tasks will be completed, the additional tasks and the associated cost, must be pre-approved by the UST Management Division for the costs to be paid. DHEC reserves the authority to pay only for work properly performed and/or technically justified and will only pay rates in accordance with established criteria. Further, DHEC reserves the right to question and/or reject costs if deemed unreasonable and the right to audit project records at any time during the project or after completion of work. Reimbursement for site rehabilitation activities shall in no event exceed the actual costs incurred as required by SUPERB Site Rehabilitation and Fund Access Regulations (R.61-98 § III.3.b).

Please note that applicable South Carolina certification requirements regarding laboratory services, well installation, and report preparation must be satisfied. Any site rehabilitation activity associated with the UST release must be performed by a DHEC-certified site rehabilitation contractor as required by the SUPERB Site Rehabilitation and Fund Access Regulation, R.61-98.

DHEC grants pre-approval for transportation of virgin petroleum impacted soil and groundwater from the referenced site to a permitted treatment facility. There can be no spillage or leakage in transport. All Investigation-Derived Waste (IDW) must be properly contained and labeled prior to disposal. IDW should not be stored on-site longer than ninety days. A copy of the disposal manifest and/or acceptance letter from the receiving facility that clearly designates the quantity received must be included as an appendix to the report. If the Chemical of Concern concentrations based on laboratory analysis is below Risk-Based Screening Levels (RBSLs), please contact the Project Manager for approval to dispose of soil and/or groundwater on-site. The SUPERB Account will not reimburse for transportation or treatment of soil and/or groundwater with concentrations below RBSLs.

The contractor will be responsible for keeping and preserving suitable records of hydrological and other site assessments, site plans, contracts, accounts, invoices, or other transactions related to the cleanup and rehabilitation and the records must be accessible to the department during regular business hours. In addition, this includes all subcontractor agreements, invoices, correspondence, plans, reports, records, including electronic and paper formats. All records must be maintained for 10 years after project completion.

On all correspondence regarding this site, please reference the UST Permit number. Should you have any questions please contact me by email dunnra@dhec.sc.gov or phone (803) 898-0671.

Sincerely,



Robert A. Dunn, Hydrogeologist
Corrective Action & Field Support Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

Enc: Approved CA

Cc: Midlands Environmental Consultants, PO Box 854, Lexington, SC 29071 (w/ Enc)
Technical file (w/ Enc)

Approved Cost Agreement 65749

Facility: 03423 JAKE HUGGINS DBA OUTPOST AT WILLOWCREEK LLC

DUNNRA

PO Number:

<u>Task / Description</u>	<u>Categories</u>	<u>Item Description</u>	<u>Qty / Pct</u>	<u>Unit Price</u>	<u>Amount</u>
A PLAN PREPARATION		1.2 SITE SPECIFIC WORK PLAN	1.0000	\$183.220	183.22
D MOB/DEMOB		2.2 PERSONNEL	2.0000	\$516.690	1,033.38
J SAMPLE COLLECTION		1.2 GROUND WATER PURGE	4.0000	\$73.290	293.16
		3.2 WATER SUPPLY SAMPLE	2.0000	\$26.870	53.74
		4.2B NO-PURGE GROUNDWATER	16.0000	\$57.240	915.84
		8.2 FIELD DUPL. (MWS & WSWs) & FB	4.0000	\$30.060	120.24
K ANALYSES					
	DW DRINKING WATER	14.2 BTEXNM+1,2 DCA (524.2) WSW	5.0000	\$151.520	757.60
		15.2 OXYGENATES & ETHANOL 8260D	5.0000	\$112.070	560.35
		16.2 EDB (504.1)	4.0000	\$97.110	388.44
	GW GROUNDWATER	1.2 BTEXNM+OXYGS+1,2 DCA+ETH 8260D	22.0000	\$149.020	3,278.44
		7.2 EDB BY EPA 8011	21.0000	\$55.210	1,159.41
Q DISPOSAL		1.2 WASTEWATER	100.0000	\$1.190	119.00
S REPORT PROJECT MANAGEMENT		S REPORT PREP & PROJ. MANAGEMENT	0.1200	\$9,107.100	1,092.85
Y WELL REPAIR		1.2 ADDITIONAL COPIES OF REPORT	4.0000	\$61.070	244.28
Total Amount					10,199.95

Document Receipt Information

☒

Hard Copy

☐

CD

☐

Email

Date Received

7-16-24

Permit Number

03423

Project Manager

Robert Dunn

Name of Contractor

MECI

Description

GWM report

Docket Number

47 tech

Scanned

Verified

GROUNDWATER MONITORING REPORT

Jake Huggins DBA Outpost at Willowcreek
4925 Pamplico Highway
Florence, South Carolina
Florence County
UST Permit# 03423
CA# 65749

Prepared By:

 Midlands
Environmental
Consultants, Inc.
231 Dooley Road, Lexington, SC 29073
(803) 808-2043 fax: 808-2048

July 8, 2024

MECI Project No. 24-8374



July 8, 2024

Mr. Robert Dunn, Hydrogeologist
Corrective Action & Field Support Section
Underground Storage Tank Division
Bureau of Land and Waste Management
South Carolina Department of Environmental Services
2600 Bull Street
Columbia, South Carolina 29201

Subject: Groundwater Monitoring Report
Jake Huggins DBA Outpost at Willowcreek
4925 Pamplico Highway
Florence, South Carolina
Florence County
UST Permit# 03423; CA# 65749
MECI Project# 24-8374
Certified Site Rehabilitation Contractor UCC-0009

Dear Mr. Dunn,

On behalf of BW Stokes Oil Company, Inc., Midlands Environmental Consultants Inc. (MECI) is pleased to submit the attached Groundwater Monitoring Report for the referenced site. This report describes assessment activities conducted at the site and results of those activities in general accordance with South Carolina Department of Environmental Services (SCDES) guidelines, including adherence to the UST Division Programmatic Quality Assurance Program Plan (QAPP).

Midlands Environmental appreciates the opportunity to offer our professional environmental services to you on this project. Please feel free to contact us at 803-808-2043, if you have any immediate questions or comments.

Sincerely,
Midlands Environmental Consultants, Inc.

Jeff L. Coleman
Senior Scientist



Bryan T. Shane, P.G.
Principal Geologist

Cc: SCDOT, PO Box 191, Columbia, SC 29201
Linda T. Huggins, 3695 Willow Creek Road, Florence, SC 29505
Barbara M. Williams, 3309 Willow Creek Road, Florence, SC 29505
Willie B. Winchester Jr., 3101 Willow Creek Road, Florence, SC 29505
William L. Huggins, 621 Mallard Pond Road, Murrells Inlet, SC 29576

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APPENDIX M – MANN-KENDALL STATISTICAL ANALYSES

NOTE: ITEMS LISTED WITH AN ** BESIDE IT WERE NOT NEEDED AS A PART OF THIS SCOPE OF WORK

1.0 INTRODUCTION

i. Facility Information

Name: Jake Huggins DBA Outpost at Willowcreek
UST Permit# 03423
Address: 4925 Pamplico Highway, Florence SC 29505
Telephone #: N/A

ii. Owner/Operator Information

Name BW Stokes Oil Company, Inc.
Address P.O. Box 1656, Florence, SC 29503
Telephone # (843) 621-5865

iii. Property Owner Information

Name Barbara Williams
Tax Map #: Florence County Tax Map #: 00213-01-019
Address 3309 Willow Creek Road, Florence, SC 29505
Telephone # (843) 662-0808

iv. Contractor Information

Name: Midlands Environmental Consultants, Inc.
Certification #: 9
Address: P. O. Box 854, Lexington, SC 29072
Telephone #: (803) 808-2043

v. Well Driller Information

Name: N/A
Certification #: N/A
Address: N/A
Telephone #: N/A

vi. Laboratory Information

Name: Pace Analytical Services, LLC.
Certification #: 99006001
Address: 9800 Kinsey Ave. Suite 100, Huntersville, NC 28078
Telephone #: (704) 875-9092

vii. Facility History

Release Date:	Release #1 reported 2/26/2002
Estimated Quantity of Release:	Unknown
Other Releases at Facility:	Release #2 (NFA'd 7/28/2020)
Release Ranking:	2BB
Current Site Usage:	Residence (SCDOT Right of Way)

Tank #	Capacity/Product	In Use/Abandoned	Tank Status
1	2,000 Gal. Regular/Unleaded Gasoline	Abandoned	Removed (6/30/2016)
2	4,000 Gal. Gasoline Plus	Abandoned	Removed (6/30/2016)
3	6,000 Gal. Gasoline Super/Premium	Abandoned	Removed (6/30/2016)
4	3,000 Gal. Regular/Unleaded Gasoline	Abandoned	Removed (6/30/2016)
5	500 Gal. Kerosene	Abandoned	Removed (6/30/2016)

The following table presents previous site activities performed at the site:

Date	Assessment Type	Notes:
Pre 2008	Unknown MWI	Completed by unknown contractor. Installation of MW-1 through MW-4.
8/26/2008	Tier II Assessment	Completed by Davis & Brown. Monitoring wells MW-5, MW-6 installed. MW-5 installed as IGWA associated with second release. Analytical results from MW-1, MW-4, MW-5 and MW-6 were above RBSL for Benzene, MTBE, Naphthalene.
5/12/2009	Tier II Assessment	Completed by Davis & Brown. Installation of MW-7 through MW-22, MW-1D, and MW-2D. Multiple wells detected concentrations above RBSL's.
6/4/2015	Groundwater Sampling Event	Completed by Davis & Brown. Monitoring wells MW-14 through 20 and MW-2D reported destroyed. Multiple wells detected concentrations above RBSL's.
Circa 2016	DOT Construction	SCDOT widening destroys remaining well network.
3/7/2022	Tier II Assessment	Completed by MECI. This assessment included field screening of soil and groundwater samples, the installation of monitoring wells MW-1 thru MW-10 and DW-1 thru DW-4, sampling and chemical analysis of monitoring wells and nearby receptors and aquifer slug test.
1/9/2023	Groundwater Sampling Event	Completed by MECI.
4/14/2023	Groundwater Sampling Event	Completed by MECI.
7/14/2023	Groundwater Sampling Event	Completed by MECI.
10/16/2023	Groundwater Sampling Event	Completed by MECI.

viii. Regional Geology and Hydrogeology

The site is located in the Coastal Plain Physiographic Province, which is generally comprised of Upper Cretaceous to present aged, wedge-shaped formations that begin at the “Fall Line” and dip towards the Atlantic Ocean with ground surface elevations typically less than 300 feet. The sedimentary soils of these formations consist of unconsolidated sand, clay, gravel, marl, cemented sands, and limestone that were deposited unconformably over Mesozoic/Paleozoic age basement rock consisting of granite, schist, and gneiss similar to the rocks of the Piedmont Physiographic Province. The thickness of the Coastal Plain sediments varies from zero at the “Fall Line” to more than 4,000 feet at the southern tip of South Carolina near Hilton Head Island.

The Coastal Plain province was formed during Quaternary, Tertiary, and late Cretaceous geologic periods and can be divided generally into three subunits: Upper Coastal Plain, Middle Coastal Plain, and Lower Coastal Plain. The Lower Coastal Plain comprises approximately one-half of the entire Atlantic Coastal Plain of South Carolina and is separated from the middle coastal plain by the Surry Scarp, a seaward facing scarp with a toe elevation of 90 to 100 feet. The Middle Coastal Plain and the Upper Coastal Plain each compose approximately one fourth of the Coastal Plain

area and are separated by the Orangeburg Scarp, a seaward facing scarp with a toe elevation of 250 to 270 feet.

The Lower Coastal Plain is typically identified as the area east of the Surry Scarp below elevation 100 feet, with a vertical stratigraphic sequence overlying the basement rock consisting of unconsolidated Cretaceous, Tertiary, and Quaternary sedimentary deposits. The surface deposits of the Lower Coastal Plain were formed during the Quaternary period which was characterized by the formation of the Carolina Bays and scarps throughout the east coast due to sea level rise and fall, the formation of the barrier islands, and the formation of flood plains from major rivers. Preceding the Quaternary period, limestone was deposited in the Lower Coastal Plain.

The Middle Coastal Plain is typically identified as the area between the Orangeburg Scarp and the Surry Scarp and falls between elevation 100 feet and 270 feet. The vertical stratigraphic sequence overlying the basement rock consists of unconsolidated Cretaceous and Tertiary sedimentary deposits formed as a result of scouring from the regressive cycles of the Ocean as it retreated. During the Eocene epoch of the Tertiary period, limestone was deposited in the Middle Coastal Plain.

The Upper Coastal Plain is typically identified as the area between the “Fall Line” and the Orangeburg Scarp and falls between elevations 270 feet and 300 feet. The Upper Coastal Plain was formed during the Tertiary and late Cretaceous periods and is marked by the formation of the Sandhills dunes as a result of fluvial deposits over the Coastal Plain consisting of marine sediments, limestone, and sand.

Coastal Plain formations generally dip toward the Atlantic Ocean. Consequently, regional groundwater movement is to the southeast. On a regional scale, hydraulic gradients are relatively low. Locally, in the surficial aquifer, groundwater discharges into streams, lakes or springs where the groundwater table intersects lows occupied by these water bodies.

2.0 RECEPTOR SURVEY & SITE DATA

i. Known Potential Receptors

Receptor ID#	Notes
WSW-1	WSW-1 is located approximately 1,400' feet west-north of MW-8 at 3101 Willow Creek Road. Samples have historically been collected from the spigot on the water supply which is located inside one of the bran buildings at the property. GPS: 34.096044, -79.701503
WSW-2	WSW-2 is located approximately 1,000' feet west of MW-8 at 3119 Willow Creek Road. Samples have historically been collected from the spigot on the water supply. GPS: 34.095156, -79.700508
WSW-3	WSW-3 is located approximately 650' feet northeast of MW-8 at 4905 Legettes Road. Well Disconnected; Unable to sample with bailer due to metal elbow at well head. GPS: 34.096743, -79.696040
Possible WSW	According to Ms. Williams, there is no well on the property.
Possible WSW	According to Ms. Williams, there is no well on the property.
SW-1	Sampled collected from drainage ditch adjacent to MW-8. GPS: 34.095076, -79.696772
SW-2	Sampled collected from drainage ditch adjacent to MW-2. GPS: 34.095847, -79.697296
SW-3	Sampled collected approximately 420' west of MW-8 from a stream. GPS: 34.094620, -79.698172
SW-4	Sampled collected approximately 500' west-northwest of MW-8 from a stream. GPS: 34.095389, -79.698409
SW-5	Sampled collected approximately 630' west-northwest of MW-8 from a stream. GPS: 34.096050, -79.698577
SW-6	Sampled collected approximately 950' northwest of MW-8 from a stream. GPS: 34.096699, -79.699359

Underground Utilities
Known underground utilities at the site include buried water, gas and telecommunication lines. Utilities are buried approximately 2'-4' feet below ground surface (BGS).

ii. Receptor Survey Results

A receptor survey was not requested as part of the approved cost agreement.

iii. Site/Adjacent Land Usage (Residential, Commercial, Agricultural, Industrial, etc.)

Site	Residential
North	Residential
South	Agricultural
East	Agricultural
West	Residential
Permit #'s of UST Sites within 1,000' feet of site	N/A

iv. Site Specific Geology and Hydrogeology

The mean elevation of the property as depicted on the local USGS quadrangle (Evergreen, SC) appears to be approximately 33 meters (108 feet) above sea level. The subject site is located in the Middle Coastal Plain. According to Newell et al. (In Review), the subject site is located in the Bear Bluff Formation. The Bear Bluff Formation is a Pliocene age unit described as consisting of gray to cream, fossiliferous, coarse-grained calcareous sand and sandy limestones.

Coastal plain sediments were encountered during drilling activities conducted at the site during previous assessment activities. A generalized vertical profile to the investigated depth of 35' feet below ground surface (BGS) is as follows:

Depth (Feet BGS)	Generalized Soil Description
0.0'-6.0'	Brown/Yellow Fine SAND
6.0'-16.0'	Pink/Grey Silty Fine SAND
16.0'-34.0'	Tan, Medium SAND
34.0'-35.0'	Dark Grey, Fine Sandy CLAY

The following table presents grain size distribution results from samples analyzed for grain size during previous assessment activities:

Sample ID#	Sample Depth	% Gravel	% Coarse Sand	% Medium Sand	% Fine Sand	% Silt	% Clay
03423-SB01	8'-10'	0	0	38.0	40.2	4.2	17.6
03423-SB01	24'-26'	0	3.0	44.0	45.5	3.2	4.3
03423-SB01	32'-34'	0	4.0	3.0	3.7	49.7	39.6

On June 24, 2024, stabilized groundwater levels were measured in the monitoring well network. Depth to groundwater ranged from 3.03 feet below top of casing (BTOC) to 4.60 feet BTOC in the wells measured. The groundwater measurements are summarized in tabular form in Table 2 and presented on Figure 4/4A.

The potentiometric surface indicates that the groundwater flow beneath the site is generally to the northwest, toward drainage features associated with the Little Willow Creek. The February 2022 horizontal gradient was calculated to be approximately 0.0118 foot per foot (ft/ft). Calculated average groundwater flow velocities based on aquifer testing was determine to be approximately 97.98 feet per year (ft/yr.).

Based on comparison between the “deep” wells and the close by water table bracketing monitoring wells, the vertical gradient appears to be generally flat.

3.0 GROUNDWATER SAMPLING AND CHEMICAL ANALYSES

On June 24, 2024, MECI personnel collected groundwater samples from fourteen (14) monitoring wells, two (2) surface water locations and two (2) water supply wells at the subject site. During sampling activities, surface water location SW-3, SW-4, SW-5 and SW-6 were found to be dry and water supply well WSW-3 was unable to be sampled due to the well being inactive with no electrical supply. As approved SCDES, only monitoring wells which did not bracket the water table were to be purged prior to sample collection. Four (4) monitoring wells were purged prior to sample collection.

Prior to sampling, MECI personnel utilized an electronic water level indicator for water level measurements and an oil/water interface probe for free phase petroleum product level measurements. Where applicable, purging was completed by bailing at least five well volumes of water from the well, or until all water was evacuated from the well, whichever occurred first. Sampling/purging was completed utilizing a prepackaged, clear, disposable polyethylene bailer and nylon rope. A new set of nitrile gloves were worn at each monitoring well, and at all time samples were handled. Field measurements of pH, conductivity, dissolved oxygen, and water temperature were obtained before well sampling process. MECI utilized YSIPro20 meter for DO (mg/L) and temperature readings (°C) and YSI Pro 1030 meter for pH and conductivity (uS) readings and a MicroTPI turbidimeter for turbidity readings (NTU). The attached Monitoring Well Purge and Sampling Data Sheets present the results of the field measurements obtained. The wells were sampled in accordance with the most recent revision of SCDES’s Quality Assurance Program Plan for the Underground Storage Tank Management Division and the most recent revision of MECI’s Standard Operating Procedures.

Groundwater samples obtained were sent to Pace Analytical Services, Inc. of Huntersville, NC (SCDES Laboratory Certification #99006001) for analysis.

The following sampling matrix contains well development and requested analyses for each well:

Sample ID	Purge	No Purge	Sampled Below Product	Duplicate/Field Blank	Not Sampled	Not Located	BTEX, Naphthalene, MTBE (EPA Method 8260D)	EDB (EPA Method 8011)	1,2 DCA (EPA Method 8260D)	8 Oxygenates (EPA Method 8260D)	Total Lead (EPA Method 6010)	BTEX, Naphthalene, MTBE, 1,2 DCA (EPA Method 524.2)	EDB (EPA Method 504.1)
							Analyte Sampled						
MW-1		X					X	X	X	X			
MW-2		X					X	X	X	X			
Notes: BTEX = Benzene, Toluene, Ethylbenzene, & Total Xylenes MTBE=Methyl tertiary butyl ether 1,2 DCA = 1,2 Dichloroethane EDB = Ethylene Dibromide													

Sample ID	Purge	No Purge	Sampled Below Product	Duplicate/Field Blank	Not Sampled	Not Located	BTEX, Naphthalene, MTBE (EPA Method 8260D)	EDB (EPA Method 8011)	1,2 DCA (EPA Method 8260D)	8 Oxygenates (EPA Method 8260D)	Total Lead (EPA Method 6010)	BTEX, Naphthalene, MTBE, 1,2 DCA (EPA Method 524.2)	EDB (EPA Method 504.1)
							Analyte Sampled						
MW-3		X					X	X	X	X			
MW-4		X					X	X	X	X			
MW-5		X					X	X	X	X			
MW-6		X					X	X	X	X			
MW-7		X					X	X	X	X			
MW-8		X					X	X	X	X			
MW-9		X					X	X	X	X			
MW-10		X					X	X	X	X			
DW-1	X						X	X	X	X			
DW-2	X						X	X	X	X			
DW-3	X						X	X	X	X			
DW-4	X						X	X	X	X			
SW-1		X					X	X	X	X			
SW-2		X					X	X	X	X			
SW-3					X								
SW-4					X								
SW-5					X								
SW-6					X								
DUP-1				X			X	X	X	X			
Field Blank				X			X	X	X	X			
Trip Blank							X		X	X			
WSW-1										X		X	X
WSW-2										X		X	X
WSW-3					X								
DUP.				X						X		X	X
Field Blank				X						X		X	X
Trip Blank										X		X	
Notes: BTEX = Benzene, Toluene, Ethylbenzene, & Total Xylenes MTBE=Methyl tertiary butyl ether 1,2 DCA = 1,2 Dichloroethane EDB = Ethylene Dibromide													

The results of the laboratory analyses are summarized in Table 1 and presented in Appendix B.

Purge water produced by the purging process was treated on-site utilizing a granular activated carbon unit. A total of 33.00 gallons of purge water was disposed of in this manner. A disposal manifest for the referenced purge water is attached in Appendix G and the required post-GAC laboratory results in presented in Appendix B.

4.0 GROUNDWATER ANALYTICAL RESULTS

Free phase petroleum product was not detected in any of the monitoring wells during sampling activities. The analytical results indicate petroleum impact to the surficial aquifer (“Shallow” Zone), with the highest dissolved concentrations being detected in the area of MW-8. Of the eighteen sampling locations analyzed, eight monitoring wells (MW-1, MW-2, MW-5, MW-6, MW-8, MW-10, DW-1 and DW-4) detected petroleum constituents above Risk-Based Screening Levels (RBSL’s). Petroleum constituents detected above the established RBSL include:

Compound	RBSL (ug/l)	Wells Above RBSL
Product	0.01’	N/A
Benzene	5	MW-1, MW-2, MW-6, MW-8, MW-10 & DW-4
Toluene	1,000	MW-8
Ethylbenzene	700	MW-8
Total Xylenes	10,000	MW-8
Naphthalene	25	MW-1, MW-8 & MW-10
MTBE	40	MW-1, MW-2, MW-5, MW-6, MW-8, MW-10 & DW-1
1,2 DCA	5	N/A
EDB	0.05	N/A
TAA	240	MW-1 & MW-10
TAME	128	N/A
ETBA	NE	RBSL Not Established
TBA	1,400	N/A
TBF	NE	RBSL Not Established
DIPE	150	MW-1 & MW-6
Ethanol	10,000	N/A
ETBE	47	N/A

The analytical results from the remainder of the sampling points did not indicate petroleum impact above the RBSL. Results of the analyses for each sampling point and specific parameters are listed on Table 1 and provided in Appendix B.

5.0 HISTORICAL COC CONCENTRATION TRENDS

Fourteen monitoring wells were included in the groundwater sampling program established for the site. Six monitoring wells (MW-3, MW-4, MW-7, MW-9, DW-2 and DW-3) exhibited results below the established RBSL. Mann-Kendall statistical analyses of the Chemicals of Concern (CoC’s) with historical concentrations above the RBSL were completed utilizing the GIS Environmental Mann-Kendall Toolkit. The statistical analysis compares historical CoC results to determine if there is an increasing, decreasing, stable or not trend to the data. If the analytical results were non-detect (ND) the reporting limit was used. The analyses included analytical data for Benzene (MW-1, MW-2, MW-6, MW-8, MW-10 and DW-4), Toluene (MW-8 and DW-4), Ethylbenzene (MW-8 and MW-10), Xylenes (MW-8), Naphthalene (MW-1, MW-2, MW-6, MW-7, MW-8, MW-10 and DW-4), MTBE (MW-1, MW-2, MW-5, MW-6, MW-8, MW-10, DW-1 and DW-4), TAA (MW-1, MW-2, MW-6, MW-7, MW-8, MW-10 and DW-4) and DIPE (MW-1, MW-8 and MW-10). The statistical analyses show:

- Benzene –decreasing (MW-2 and MW-6), probably decreasing (MW-10) and no trend (MW-1, MW-8 and DW-4).

- Toluene –no trend (MW-8 and DW-4).
- Ethylbenzene – stable (MW-10) and no trend (MW-8).
- Xylenes – no trend (MW-8)
- Naphthalene – decreasing (MW-2 and MW-6), probably decreasing (MW-1), stable (MW-8 and MW-10) and no trend (MW-7 and DW-4).
- MTBE – increasing (MW-5), decreasing (MW-2), probably decreasing (MW-10) and no trend (MW-1, MW-6, MW-8, DW-1 and DW-4).
- TAA – decreasing (MW-2), probably decreasing (MW-10), stable (MW-6) and no trend (MW-1, MW-7, MW-8 and DW-4).
- DIPE – increasing (MW-8) and no trend (MW-1 and MW-10).

6.0 MONITORING SUMMARY

- Groundwater flow is primarily to the northwest, toward drainage features associated with the Little Willow Creek.
- Free phase petroleum product was not detected in any of the monitoring wells during sampling activities.
- Fourteen groundwater monitoring wells, two surface water locations and two water supply wells were sampled on June 24, 2024. Petroleum compounds were detected above RBSL's in groundwater monitoring wells MW-1, MW-2, MW-5, MW-6, MW-8, MW-10, DW-1 and DW-4. Compounds above the established RBSL's include Benzene, Toluene, Ethylbenzene, Total Xylenes, Naphthalene, MTBE, TAA and DIPE.
- The analytical results also reported petroleum constituents above the laboratory method detection limit and/or "J" values in samples collected from DW-2, WSW-1 and WSW-2; however, the concentrations did not exceed the RBSL.
- Analytical results did not indicate petroleum impact in any of the samples collected from the surface water locations or water supply wells sampled. Samples were unable to be collected from surface water locations SW-3, SW-4, SW-5 and SW-6 due to the areas being found dry and water supply well WSW-3 due to the well being inactive.
- In order to assess precision, field duplicate samples were collected and analyzed along with the reviewed batch samples. The duplicated samples were analyzed for the same parameters as the associated parent samples. Precision is determined by calculating the Relative Percent Differences (RPD) between each pair of samples. The RPD control limit for the groundwater samples is 20%. Duplicate samples were collected from the parent samples of MW-8 and WSW-2. The precision for the target analytes were met for these sample pairs and the analytical results detected the same compounds at similar concentrations. Furthermore, field blanks and trip blanks were collected and submitted during the groundwater sampling

activities. No detectable concentrations of the requested method constituents were reported in any of the field or trip blanks associated with the monitoring wells or surface water samples. Low levels of Toluene (0.56 µg/l and 0.59 µg/l) were detected in the field blank and trip blank associated with the water supply well samples; however, low levels of Toluene should not affect the data usability and these low levels are most likely due to laboratory error and/or carryover.

7.0 COMMENTS & RECOMMENDATIONS

- Since February of 2022, increasing trends in MTBE to be appear to be occurring in MW-5 and increasing trends in DIPE appear to be occurring in MW-8. Overall, the Mann-Kendall statistical analyses show a decreasing or stable trends in MW-2, MW-6 and MW-10. No trends have been established to date in MW-1, MW-7, DW-1 and DW-4.
- Data gaps currently persist horizontally north of MW-5, west of MW-5/MW-6 and south of MW-8. With the exception of the southerly direction from MW-8/DW-4, it appears these data gaps persist due to property access issues encountered at the site in 2022.
- MECI concurs with SCDES that further definition of the plume is not warranted at this time.
- MECI request the site be modeled to current site conditions and the Site-Specific Target Levels (SSTL's) be relinquished to our office. Based on the modeling, MECI will be able to better evaluate site rehabilitation needs.

8.0 QUALIFICATIONS OF REPORT

The activities and evaluative approaches used in this assessment are consistent with those normally employed in hydrogeological assessment and waste management projects of this type. Our evaluation of site conditions has been based on our understanding of the site, project information provided to us, and data obtained in our exploration. The general subsurface conditions utilized in our evaluation have been based on interpretation of subsurface data between borings. Contents of this report are intended for the sole use of BW Stokes Oil Company, Inc., SCDES and MECI under mutually agreed upon terms and conditions. If other parties wish to rely on this report, please contact MECI prior to their use of this information so that a mutual understanding and agreement of the terms and conditions of our services can be established.

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TABLES

TABLE 1 GROUNDWATER COC CONCENTRATION DATA JAKE HUGGINS JUNE 24, 2024 SAMPLING EVENT FLORENCE, SOUTH CAROLINA MECI PROJECT# 24-8374 UST PERMIT# 03423																	
Well ID#	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Naphthalene (µg/L)	MTBE (µg/L)	1, 2 DCA (µg/L)	EDB (µg/L)	TAA (µg/L)	TAME (µg/L)	ETBA (µg/L)	TBA (µg/L)	TBF (µg/L)	DIPE (µg/L)	Ethanol (µg/L)	ETBE (µg/L)
		RBSL 5	RBSL 1,000	RBSL 700	RBSL 10,000	RBSL 25	RBSL 40	RBSL 5	RBSL 0.05	RBSL 240	RBSL 128	RBSL NE	RBSL 1,400	RBSL NE	RBSL 150	RBSL 10,000	RBSL 47
03423-MW01	2/15/2022	624	19.3	158	67.9	78.7	264	<0.250	<0.00512	3030	56.9	<7.00	169	<6.90	160	<50.0	<0.720
	1/9/2023	620	16.4	74.1	16.9	66.0	342	<1.6	<0.0075	3770	60.6	<260	200 J	<147	191	<361	<16.2
	4/14/2023	749	11.5 J	39.7	<25.0	51.1	343	<10.3	<0.0073	4640	59.9	<270	<455	<120	178	<720	<42.3
	7/14/2023	964	10.4 J	23.8 J	<25.0	49.9	465	<10.3	<0.0075	4830	78.2	<270	<455	<120	268	<720	<42.3
	10/16/2023	1100	<20.1	<18.4	<50.0	66.5	488	<20.6	<0.0074	5340	82.9 J	<539	<910	<241	297	<1440	<84.6
	6/24/2024	695	<10.0	10.2 J	<25.0	44.0	306	<10.3	<0.0078	3560	59.3	<270	<455	<120	176	<720	<42.3
03423-MW02	2/15/2022	203	<0.250	0.522 J	1.34	25.7	405	<0.250	<0.00515	442	26.9	<7.00	83.3	<6.90	78.2	<50.0	<0.720
	1/9/2023	122	<0.97	<0.61	<0.68	10.9	256	<0.64	<0.0074	233	14.6 J	<104	<53.6	<58.8	44.4	<144	<6.5
	4/14/2023	90.2	<4.0	<3.7	<10.0	10.2	195	<4.1	<0.0074	225	10.5 J	<108	<182	<48.2	33.0	<288	<16.9
	7/14/2023	95.2	<4.0	<3.7	<10.0	8.8 J	178	<4.1	<0.0077	141 J	9.0 J	<108	<182	<48.2	36.2	<288	<16.9
	10/16/2023	76.3	<4.0	<3.7	<10.0	4.4 J	200	<4.1	<0.0075	<131	8.7 J	<108	<182	<48.2	30.8	<288	<16.9
	6/24/2024	23.5	<2.0	<1.8	<5.0	<2.1	122	<2.1	<0.0077	<65.6	5.3 J	<53.9	<91.0	<24.1	26.4	<144	<8.5
03423-MW03	2/15/2022	<0.270	3.15	0.279 J	<0.230	<2.40	1.95 J	<0.250	<0.00486	<8.60	<0.780	<7.00	<6.90	<6.90	0.893 J	<50.0	<0.720
	1/9/2023	<0.34	<0.48	<0.30	<0.34	<0.64	1.1	<0.32	<0.0076	<36.4	<2.7	<51.9	<26.8	<29.4	0.61 J	<72.2	<3.2
	4/14/2023	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0075	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	7/14/2023	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0077	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	10/16/2023	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0075	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	6/24/2024	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0078	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
03423-MW04	2/15/2022	<0.270	<0.250	0.252 J	1.91	<2.40	<0.810	<0.250	<0.00509	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
	1/9/2023	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0075	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	4/14/2023	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0074	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	7/14/2023	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0074	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	10/16/2023	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0076	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	6/24/2024	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0081	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
03423-MW05	2/15/2022	<0.270	<0.250	<0.200	<0.230	<2.40	14.3	<0.250	<0.00509	<8.60	<0.780	<7.00	<6.90	<6.90	3.06 J	<50.0	<0.720
	1/9/2023	<0.34	<0.48	<0.30	<0.34	<0.64	22.2	<0.32	<0.0075	<36.4	<2.7	<51.9	<26.8	<29.4	3.8	<72.2	<3.2
	4/14/2023	<1.7	<2.0	<1.8	<5.0	<2.1	22.3	<2.1	<0.0073	<65.6	<3.0	<53.9	<91.0	<24.1	4.1 J	<144	<8.5
	7/14/2023	<1.7	<2.0	<1.8	<5.0	<2.1	23.4	<2.1	<0.0074	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	10/16/2023	<1.7	<2.0	<1.8	<5.0	2.9 J	59.5	<2.1	<0.0072	<65.6	<3.0	<53.9	<91.0	<24.1	8.5	<144	<8.5
	6/24/2024	<1.7	<2.0	<1.8	<5.0	<2.1	45.6	<2.1	<0.0075	<65.6	<3.0	<53.9	<91.0	<24.1	5.4	<144	<8.5
03423-MW06	2/15/2022	356	30.1	134	11.6	87.5	166	<1.25	<0.00497	2410	46.4	<35.0	86.6 J	<34.5	122	<250	<3.60
	1/9/2023	83.3	4.6	4.5	3.3	26.7	126	<0.32	<0.0076	1640	29.6	<51.9	52.4 J	<29.4	88.1	<72.2	<3.2
	4/14/2023	68.1	2.9 J	3.3 J	<5.0	23.0	132	<2.1	<0.0072	1570	26.1	<53.9	<91.0	<24.1	80.1	<144	<8.5
	7/14/2023	45.4	4.1 J	6.0	<5.0	20.4	167	<2.1	<0.0073	1960	34.7	<53.9	<91.0	<24.1	117	<144	<8.5
	10/16/2023	38.5	2.6 J	<1.8	<5.0	14.6	156	<2.1	<0.0075	1930	28.6	<53.9	<91.0	<24.1	111	<144	<8.5
	6/24/2024	17.3	4.8 J	<3.7	<10.0	11.2	241	<4.1	<0.0073	<131	40.2	<108	<182	<48.2	151	<288	<16.9

TABLE 1 GROUNDWATER COC CONCENTRATION DATA JAKE HUGGINS JUNE 24, 2024 SAMPLING EVENT FLORENCE, SOUTH CAROLINA MECI PROJECT# 24-8374 UST PERMIT# 03423																	
Well ID#	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Naphthalene (µg/L)	MTBE (µg/L)	1, 2 DCA (µg/L)	EDB (µg/L)	TAA (µg/L)	TAME (µg/L)	ETBA (µg/L)	TBA (µg/L)	TBF (µg/L)	DIPE (µg/L)	Ethanol (µg/L)	ETBE (µg/L)
		RBSL 5	RBSL 1,000	RBSL 700	RBSL 10,000	RBSL 25	RBSL 40	RBSL 5	RBSL 0.05	RBSL 240	RBSL 128	RBSL NE	RBSL 1,400	RBSL NE	RBSL 150	RBSL 10,000	RBSL 47
03423-MW07	2/15/2022	37.2	0.699 J	82.1	3.95	58.3	15.8	<0.250	<0.00492	1030	4.67	<7.00	31.3 J	<6.90	20.3	<50.0	<0.720
	1/9/2023	<0.34	<0.48	1.8	<0.34	4.3	1.4	<0.32	<0.0075	<36.4	<2.7	<51.9	<26.8	<29.4	1.6	<72.2	<3.2
	4/14/2023	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0074	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	7/14/2023	<1.7	<2.0	4.4 J	<5.0	15.1	3.6 J	<2.1	<0.0074	77.7 J	<3.0	<53.9	<91.0	<24.1	4.2 J	<144	<8.5
	10/16/2023	<1.7	<2.0	14.0	<5.0	18.6	4.7 J	<2.1	<0.0075	166	<3.0	<53.9	<91.0	<24.1	6.0	<144	<8.5
	6/24/2024	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0075	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
03423-MW08	2/15/2022	3720	21100	2200	12800	781	690	<12.5	0.121	8690	127	<350	370 J	<345	268 J	<2500	<36.0
	1/9/2023	4390	22300	2080	13300	766	531	<40.2	<0.0075	8510 J	<332	<6490	<3350	<3680	239	<9020	<405
	4/14/2023	3620	19200	1840	10800	661	435 J	<258	<0.0074	<8200	<380	<6740	<11400	<3010	<436	<18000	<1060
	7/14/2023	3110	12600	1920	10000	558 J	<388	<258	<0.0073	<8200	<380	<6740	<11400	<3010	<436	<18000	<1060
	10/16/2023	5330	27500	2810	16200	975 J	1000 J	<412	<0.0075	<13100	<608	<10800	<18200	<4820	<698	<28800	<1690
	6/24/2024	4760	25300	2570	13400	778 J	696 J	<412	<0.0074	<13100	<608	<10800	<18200	<4820	<698	<28800	<1690
03423-MW09	2/15/2022	0.278 J	3.89	4.80	27.4	<2.40	<0.810	<0.250	<0.00494	77.4	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
	1/9/2023	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0077	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	4/14/2023	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0070	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	7/14/2023	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0074	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	10/16/2023	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0074	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	6/24/2024	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0074	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
03423-MW10	2/15/2022	1070	297	753	2380	342	510	<12.5	<0.00507	7950	120	<350	<345	<345	339 J	<2500	<36.0
	1/9/2023	2060	439	1100	2640	455	865	<4.0	<0.0077	11100	168	<649	535 J	<368	555	<902	<40.5
	4/14/2023	634	49.9	428	308	216	260	<10.3	<0.0075	3350	56.9	<270	<455	<120	165	<720	<42.3
	7/14/2023	79.3	15.1 J	329	116	143	25.4	<10.3	<0.0075	<328	<15.2	<270	<455	<120	17.6 J	<720	<42.3
	10/16/2023	299	83.8	503	747	244	112	<10.3	<0.0074	1460	22.5 J	<270	<455	<120	68.1	<720	<42.3
	6/24/2024	227	66.5	465	789	256	110	<10.3	<0.0074	1350	<15.2	<270	<455	<120	75.3	<720	<42.3
03423-DW01	2/15/2022	<0.270	<0.250	<0.200	<0.230	<2.40	<0.810	<0.250	<0.00529	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
	1/9/2023	<0.34	<0.48	<0.30	<0.34	<0.64	52.9	<0.32	<0.0076	<36.4	4.2 J	<51.9	<26.8	<29.4	15.2	<72.2	<3.2
	4/14/2023	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0072	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	7/14/2023	3.4 J	<2.0	<1.8	<5.0	<2.1	144	<2.1	<0.0075	<65.6	9.6 J	<53.9	<91.0	<24.1	40.5	<144	<8.5
	10/16/2023	<1.7	<2.0	<1.8	<5.0	<2.1	129	<2.1	<0.0073	<65.6	7.3 J	<53.9	<91.0	<24.1	34.2	<144	<8.5
	6/24/2024	<1.7	<2.0	<1.8	<5.0	<2.1	73.2	<2.1	<0.0073	<65.6	<3.0	<53.9	<91.0	<24.1	22.0	<144	<8.5
03423-DW02	2/15/2022	<0.270	<0.250	<0.200	<0.230	<2.40	7.40	<0.250	<0.00510	<8.60	<0.780	<7.00	<6.90	<6.90	2.61 J	<50.0	<0.720
	1/9/2023	<0.34	<0.48	<0.30	<0.34	<0.64	6.1	<0.32	<0.0076	<36.4	<2.7	<51.9	<26.8	<29.4	2.0	<72.2	<3.2
	4/14/2023	<1.7	<2.0	<1.8	<5.0	<2.1	5.2	<2.1	<0.0073	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	7/14/2023	<1.7	<2.0	<1.8	<5.0	<2.1	19.9	<2.1	<0.0074	<65.6	<3.0	<53.9	<91.0	<24.1	3.7 J	<144	<8.5
	10/16/2023	<1.7	<2.0	<1.8	<5.0	<2.1	36.2	<2.1	<0.0076	<65.6	<3.0	<53.9	<91.0	<24.1	5.6	<144	<8.5
	6/24/2024	<1.7	<2.0	<1.8	<5.0	<2.1	24.0	<2.1	<0.0072	<65.6	<3.0	<53.9	<91.0	<24.1	3.8 J	<144	<8.5
03423-DW03	2/15/2022	<0.270	<0.250	<0.200	<0.230	<2.40	<0.810	<0.250	<0.00485	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
	1/9/2023	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0077	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	4/14/2023	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0074	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	7/14/2023	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0076	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	10/16/2023	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0075	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	6/24/2024	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0074	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
03423-DW04	2/15/2022	67.5	1890	611	4230	181	<0.810	<0.250	<0.00489	<8.60	<0.780	<7.00	<6.90	<6.90	1.69 J	<50.0	<0.720
	1/9/2023	63.6	464	20.1	291	<2.6	51.8	<1.3	<0.0077	422	<10.6	<208	<107	<118	21.2	<289	<13.0
	4/14/2023	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0074	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	7/14/2023	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0074	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	10/16/2023	341	359	98.9	1630	72.7	153	<8.2	<0.0075	913	20.9 J	<216	<364	<96.4	54.4	<576	<33.8
	6/24/2024	6.0	30.8	3.5 J	24.4	3.8 J	11.5	<2.1	<0.0074	<65.6	<3.0	<53.9	<91.0	<24.1	5.0 J	<144	<8.5
03423-TW01*	2/28/2022	<0.270	<0.250	<0.200	<0.230	<2.40	<0.810	<0.250	<0.00636	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720

TABLE 1 GROUNDWATER COC CONCENTRATION DATA JAKE HUGGINS JUNE 24, 2024 SAMPLING EVENT FLORENCE, SOUTH CAROLINA MECI PROJECT# 24-8374 UST PERMIT# 03423																	
Well ID#	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Naphthalene (µg/L)	MTBE (µg/L)	1, 2 DCA (µg/L)	EDB (µg/L)	TAA (µg/L)	TAME (µg/L)	ETBA (µg/L)	TBA (µg/L)	TBF (µg/L)	DIPE (µg/L)	Ethanol (µg/L)	ETBE (µg/L)
		RBSL 5	RBSL 1,000	RBSL 700	RBSL 10,000	RBSL 25	RBSL 40	RBSL 5	RBSL 0.05	RBSL 240	RBSL 128	RBSL NE	RBSL 1,400	RBSL NE	RBSL 150	RBSL 10,000	RBSL 47
03423-SW01	2/15/2022	<0.270	<0.250	<0.200	<0.230	<2.40	<0.810	<0.250	<0.00503	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
	1/9/2023	<0.34	<0.48	<0.30	0.43 J	<0.64	<0.42	<0.32	<0.0077	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	4/14/2023	<0.34	0.98 J	<0.30	<0.34	<0.64	0.68 J	<0.32	<0.0078	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	7/14/2023	<0.34	0.52 J	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0075	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	10/16/2023	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0075	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	6/24/2024	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0075	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
03423-SW02	2/15/2022	<0.270	<0.250	<0.200	<0.230	<2.40	0.832 J	<0.250	<0.00494	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
	1/9/2023	<0.34	<0.48	<0.30	<0.34	<0.64	1.2	<0.32	<0.0077	<36.4	<2.7	<51.9	<26.8	<29.4	0.49 J	<72.2	<3.2
	4/14/2023	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0073	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	7/14/2023	<0.34	<0.48	<0.30	<0.34	<0.64	0.63 J	<0.32	<0.0075	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	10/16/2023	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0075	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	6/24/2024	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0074	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
03423-SW03	2/15/2022	<0.270	<0.250	<0.200	<0.230	<2.40	<0.810	<0.250	<0.00497	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
	1/9/2023	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0077	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	4/14/2023	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0076	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	7/14/2023	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0077	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	10/16/2023	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0075	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	6/24/2024	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
03423-SW04	2/28/2022	<0.270	15.9	0.228 J	<0.230	<2.40	<0.810	<0.250	<0.00492	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
	1/9/2023	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0080	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	4/14/2023	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0074	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	7/14/2023	<0.34	0.49 J	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0076	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	10/16/2023	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0074	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	6/24/2024	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
03423-SW05	2/28/2022	<0.270	<0.250	<0.200	<0.230	<2.40	<0.810	<0.250	<0.00503	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
	1/9/2023	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0079	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	4/14/2023	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0074	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	7/14/2023	<0.34	0.63 J	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0079	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	10/16/2023	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0075	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	6/24/2024	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
03423-SW06	2/28/2022	<0.270	<0.250	<0.200	<0.230	<2.40	<0.810	<0.250	<0.00507	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
	1/9/2023	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0076	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	4/14/2023	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0073	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	7/14/2023	<0.34	0.64 J	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0076	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	10/16/2023	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0076	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	6/24/2024	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
03423-WSW01	2/15/2022	<0.0820	<0.0860	<0.0990	<0.0860	<0.430	<0.0930	<0.0860	<0.00513	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
	1/9/2023	<0.21	<0.20	<0.22	<0.22	<0.35	<0.14	<0.16	<0.0056	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	4/14/2023	<0.21	<0.20	<0.22	<0.22	<0.35	<0.14	<0.16	<0.0055	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	7/14/2023	<0.21	0.46 J	<0.22	<0.22	<0.35	<0.14	<0.16	<0.0055	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	10/16/2023	<0.21	<0.20	<0.22	<0.22	<0.35	<0.14	<0.16	<0.0055	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	6/24/2024	<0.21	0.48 J	<0.22	<0.22	<0.35	<0.14	<0.16	<0.0060	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
03423-WSW02	2/15/2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	1/9/2023	<0.21	<0.20	<0.22	<0.22	<0.35	<0.14	<0.16	<0.0056	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	4/14/2023	<0.21	<0.20	<0.22	<0.22	<0.35	<0.14	<0.16	<0.0056	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	7/14/2023	<0.21	0.45 J	<0.22	<0.22	<0.35	<0.14	<0.16	<0.0055	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	10/16/2023	<0.21	<0.20	<0.22	<0.22	<0.35	<0.14	<0.16	<0.0054	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	6/24/2024	<0.21	0.63	<0.22	<0.22	<0.35	<0.14	<0.16	<0.0061	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2

TABLE 1 GROUNDWATER COC CONCENTRATION DATA JAKE HUGGINS JUNE 24, 2024 SAMPLING EVENT FLORENCE, SOUTH CAROLINA MECI PROJECT# 24-8374 UST PERMIT# 03423																	
Well ID#	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Naphthalene (µg/L)	MTBE (µg/L)	1, 2 DCA (µg/L)	EDB (µg/L)	TAA (µg/L)	TAME (µg/L)	ETBA (µg/L)	TBA (µg/L)	TBF (µg/L)	DIPE (µg/L)	Ethanol (µg/L)	ETBE (µg/L)
		RBSL 5	RBSL 1,000	RBSL 700	RBSL 10,000	RBSL 25	RBSL 40	RBSL 5	RBSL 0.05	RBSL 240	RBSL 128	RBSL NE	RBSL 1,400	RBSL NE	RBSL 150	RBSL 10,000	RBSL 47
03423-WSW03	2/15/2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	1/9/2023	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	4/14/2023	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	7/14/2023	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/16/2023	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	6/24/2024	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
DUP-1 (MW10)	2/15/2022	1090	359	783	2440	325	496	<2.50	<0.00499	7770	129	<70.0	298 J	<69.0	343	<500	<7.20
DUP. (WSW01)	2/15/2022	<0.0820	<0.0860	<0.0990	<0.0860	<0.430	<0.0930	<0.0860	<0.00501	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
DUP-1 (TW01)	2/28/2022	<0.270	<0.250	<0.200	<0.230	<2.40	<0.810	<0.250	<0.00581	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
DUP-1 (MW01)	1/9/2023	736	19.2	93.2	21.4	78.8	429	<1.6	<0.0075	4900	64.8	<260	258 J	<147	240	<361	<16.2
DUP. (WSW01)	1/9/2023	<0.21	<0.20	<0.22	<0.22	<0.35	<0.14	<0.16	<0.0057	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
DUP. (MW08)	4/14/2023	4400	21900	2110	13000	765	614 J	<258	<0.0075	<8200	<380	<6740	<11400	<3010	<436	<18000	<1060
DUP. (WSW01)	4/14/2023	<0.21	0.21 J	<0.22	<0.22	<0.35	<0.14	<0.16	<0.0056	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
DUP. (MW08)	7/14/2023	3350	12500	1810	9530	670	<388	<258	<0.0074	<8200	<380	<6740	<11400	<3010	<436	<18000	<1060
DUP. (WSW01)	7/14/2023	<0.21	<0.20	<0.22	<0.22	<0.35	<0.14	<0.16	<0.0055	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
DUP.(MW08)	10/16/2023	4670	23400	2430	14000	679 J	834 J	<412	<0.0075	<13100	<608	<10800	<18200	<4820	<698	<28800	<1690
DUP.(WSW01)	10/16/2023	<0.21	<0.20	<0.22	<0.22	<0.35	<0.14	<0.16	<0.0055	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
DUP-1(MW08)	6/24/2024	4520	22800	2650	12900	891 J	740 J	<412	<0.0073	<13100	<608	<10800	<18200	<4820	<698	<28800	<1690
DUP.(WSW02)	6/24/2024	<0.21	0.50 J	<0.22	<0.22	<0.35	<0.14	<0.16	<0.0059	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
Field Blank	2/15/2022	<0.270	<0.250	<0.200	<0.230	<2.40	<0.810	<0.250	<0.00501	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
	2/15/2022	<0.0820	<0.0860	<0.0990	<0.0860	<0.430	<0.0930	<0.0860	<0.00499	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
	2/28/2022	<0.270	<0.250	<0.200	<0.230	<2.40	<0.810	<0.250	<0.00501	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
	1/9/2023	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0077	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	1/9/2023	<0.21	<0.20	<0.22	<0.22	<0.35	<0.14	<0.16	<0.0057	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	4/14/2023	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0075	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	4/14/2023	<0.21	<0.20	<0.22	<0.22	<0.35	<0.14	<0.16	<0.0056	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	7/14/2023	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0075	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	7/14/2023	<0.21	0.25 J	<0.22	<0.22	<0.35	<0.14	<0.16	<0.0053	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	10/16/2023	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0074	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	10/16/2023	<0.21	<0.20	<0.22	<0.22	<0.35	<0.14	<0.16	<0.0055	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	6/24/2024	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0074	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	6/24/2024	<0.21	0.56	<0.22	<0.22	<0.35	<0.14	<0.16	<0.0061	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	6/24/2024	<0.21	0.59	<0.22	<0.22	<0.35	<0.14	<0.16	<0.0061	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
Trip Blank	2/15/2022	<0.270	<0.250	<0.200	<0.230	<2.40	<0.810	<0.250	NT	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
	2/15/2022	<0.0820	<0.0860	<0.0990	<0.0860	<0.430	<0.0930	<0.0860	NT	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
	2/28/2022	<0.270	<0.250	<0.200	<0.230	<2.40	<0.810	<0.250	NT	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
	2/28/2022	<0.270	<0.250	<0.200	<0.230	<2.40	<0.810	<0.250	NT	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
	1/9/2023	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	NT	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	1/9/2023	<0.21	<0.20	<0.22	<0.22	<0.35	<0.14	<0.16	NT	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	4/14/2023	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	NT	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	4/14/2023	<0.21	<0.20	<0.22	<0.22	<0.35	<0.14	<0.16	NT	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	7/14/2023	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	NT	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	7/14/2023	<0.21	0.50 J	<0.22	<0.22	<0.35	<0.14	<0.16	NT	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	10/16/2023	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	NT	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	10/16/2023	<0.21	<0.20	<0.22	<0.22	<0.35	<0.14	<0.16	NT	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	6/24/2024	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	NT	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	6/24/2024	<0.21	0.59	<0.22	<0.22	<0.35	<0.14	<0.16	NT	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
Notes:		1. BDL = Below Practical Quantitative Limits 2. ug/l = micrograms per liter 3. mg/l = milligrams per liter 4. MTBE = Methyl-Tertiary-Butyl Ether 5. See Appendix for Laboratory Detection Limits 6. NL = Not Located 7. DRY = Well was Dry at the time of Sampling				8. NT = Not Tested 9. EDB = Ethylene Dibromide 10. 1,2 DCA = 1,2-Dichloroethane 11. FPP = Free Phase Petroleum Product 12. * = Wells Have Been Abandoned 13. "J" Values used in Total BTEX Calculations 14. B = Detected in Method Blank				15. "J" values report concentrations above the method detection limits (MDL) and below actual reporting limit (RL). 16. S = MS/MSD Failure 17. P = The RPD between the two columns exceeds 40%. 18. DIPE = Diisopropyl Ether 19. ETBE = Ethyl ter-butyl Ether 20. TAA = tert-Amyl Alcohol				21. TAME = tert-Amyl Methyl Ether 22. TBA = ter-Butyl Alcohol 23. TBF = tert-Butyl Formate 24. TAME = tert-Amyl Methyl Ether 25. * = TW-1 was a temporary well and has been abandoned. 26. NS = Not Sampled 27. Bolded data is above the RBSL (Risk-Based Screening Level)			

TABLE 2
POTENTIOMETRIC DATA
JAKE HUGGINS
JUNE 24, 2024 SAMPLING EVENT
FLORENCE, SOUTH CAROLINA
MECI PROJECT# 24-8374
UST PERMIT# 03423

Well Number	Sample Date	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	TOC Elevation	Groundwater Elevation
03423-MW01	2/15/2022	3-13	***	2.67	***	98.72	96.05
	1/9/2023		***	3.48	***	98.72	95.24
	4/14/2023		***	3.41	***	98.72	95.31
	7/14/2023		***	3.02	***	98.72	95.70
	10/16/2023		***	3.46	***	98.72	95.26
	6/24/2024		***	3.03	***	98.72	95.69
03423-MW02	2/15/2022	3-13	***	2.64	***	96.40	93.76
	1/9/2023		***	3.25	***	96.40	93.15
	4/14/2023		***	3.23	***	96.40	93.17
	7/14/2023		***	3.04	***	96.40	93.36
	10/16/2023		***	3.28	***	96.40	93.12
	6/24/2024		***	3.02	***	96.40	93.38
03423-MW03	2/15/2022	3-13	***	2.42	***	94.95	92.53
	1/9/2023		***	3.15	***	94.95	91.80
	4/14/2023		***	3.06	***	94.95	91.89
	7/14/2023		***	3.29	***	94.95	91.66
	10/16/2023		***	3.62	***	94.95	91.33
	6/24/2024		***	3.62	***	94.95	91.33
03423-MW04	2/15/2022	3-13	***	2.61	***	94.88	92.27
	1/9/2023		***	3.45	***	94.88	91.43
	4/14/2023		***	3.39	***	94.88	91.49
	7/14/2023		***	3.63	***	94.88	91.25
	10/16/2023		***	4.53	***	94.88	90.35
	6/24/2024		***	4.10	***	94.88	90.78
03423-MW05	2/15/2022	3-13	***	2.46	***	94.88	92.42
	1/9/2023		***	3.16	***	94.88	91.72
	4/14/2023		***	3.07	***	94.88	91.81
	7/14/2023		***	3.47	***	94.88	91.41
	10/16/2023		***	5.43	***	94.88	89.45
	6/24/2024		***	3.61	***	94.88	91.27
03423-MW06	2/15/2022	3-13	***	2.83	***	97.86	95.03
	1/9/2023		***	3.50	***	97.86	94.36
	4/14/2023		***	3.32	***	97.86	94.54
	7/14/2023		***	3.07	***	97.86	94.79
	10/16/2023		***	3.24	***	97.86	94.62
	6/24/2024		***	3.05	***	97.86	94.81
03423-MW07	2/15/2022	3-13	***	2.91	***	100.29	97.38
	1/9/2023		***	3.98	***	100.29	96.31
	4/14/2023		***	3.78	***	100.29	96.51
	7/14/2023		***	3.54	***	100.29	96.75
	10/16/2023		***	4.44	***	100.29	95.85
	6/24/2024		***	3.95	***	100.29	96.34

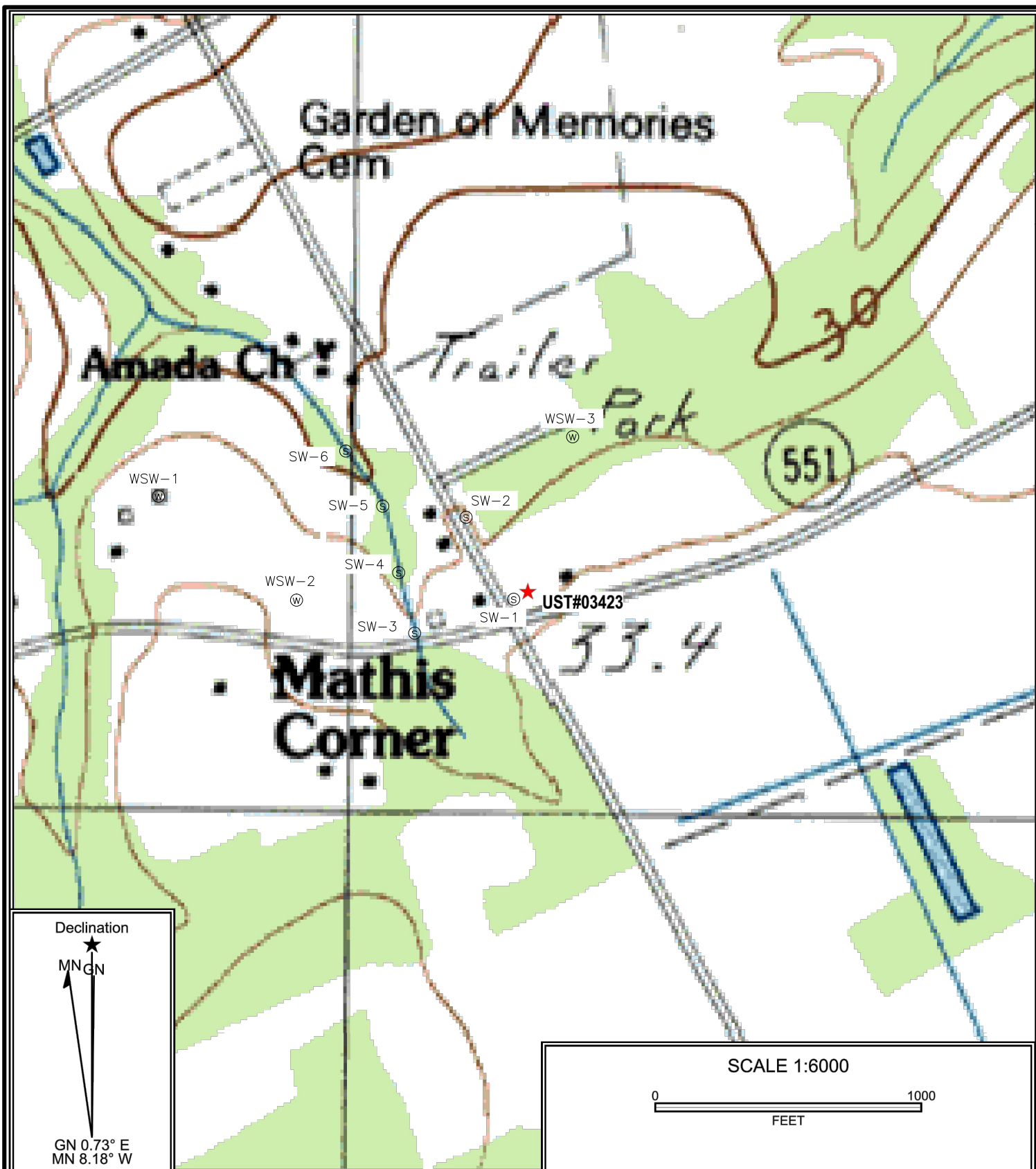
**TABLE 2
POTENTIOMETRIC DATA
JAKE HUGGINS
JUNE 24, 2024 SAMPLING EVENT
FLORENCE, SOUTH CAROLINA
MECI PROJECT# 24-8374
UST PERMIT# 03423**

Well Number	Sample Date	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	TOC Elevation	Groundwater Elevation
03423-MW08	2/15/2022	3-13	***	3.76	***	100.92	97.16
	1/9/2023		***	4.38	***	100.92	96.54
	4/14/2023		***	4.13	***	100.92	96.79
	7/14/2023		***	3.90	***	100.92	97.02
	10/16/2023		***	4.46	***	100.92	96.46
	6/24/2024		***	4.07	***	100.92	96.85
03423-MW09	2/15/2022	3-13	***	3.97	***	100.92	96.95
	1/9/2023		***	3.27	***	100.92	97.65
	4/14/2023		***	3.19	***	100.92	97.73
	7/14/2023		***	4.22	***	100.92	96.70
	10/16/2023		***	5.21	***	100.92	95.71
	6/24/2024		***	4.60	***	100.92	96.32
03423-MW10	2/15/2022	3-13	***	2.93	***	99.69	96.76
	1/9/2023		***	3.68	***	99.69	96.01
	4/14/2023		***	3.56	***	99.69	96.13
	7/14/2023		***	3.17	***	99.69	96.52
	10/16/2023		***	4.07	***	99.69	95.62
	6/24/2024		***	3.06	***	99.69	96.63
03423-DW01	2/15/2022	20-25	***	2.54	***	98.57	96.03
	1/9/2023		***	3.22	***	98.57	95.35
	4/14/2023		***	3.17	***	98.57	95.40
	7/14/2023		***	3.13	***	98.57	95.44
	10/16/2023		***	3.84	***	98.57	94.73
	6/24/2024		***	3.60	***	98.57	94.97
03423-DW02	2/15/2022	20-25	***	2.51	***	96.48	93.97
	1/9/2023		***	3.01	***	96.48	93.47
	4/14/2023		***	3.03	***	96.48	93.45
	7/14/2023		***	3.53	***	96.48	92.95
	10/16/2023		***	3.75	***	96.48	92.73
	6/24/2024		***	3.65	***	96.48	92.83
03423-DW03	2/15/2022	20-25	***	2.92	***	100.05	97.13
	1/9/2023		***	3.53	***	100.05	96.52
	4/14/2023		***	3.41	***	100.05	96.64
	7/14/2023		***	3.14	***	100.05	96.91
	10/16/2023		***	4.14	***	100.05	95.91
	6/24/2024		***	3.51	***	100.05	96.54
03423-DW04	2/15/2022	20-25	***	3.86	***	101.03	97.17
	1/9/2023		***	4.41	***	101.03	96.62
	4/14/2023		***	4.36	***	101.03	96.67
	7/14/2023		***	4.22	***	101.03	96.81
	10/16/2023		***	5.25	***	101.03	95.78
	6/24/2024		***	4.50	***	101.03	96.53

Notes:

1. Elevations are NAV88.
2. Groundwater depths were measured from the top of the PVC riser pipe.
3. NM = Not Measured
4. DRY = Well Gauged DRY
5. TD = Total Depth
6. * = Groundwater elevation corrected for the presence of free product using a specific gravity of 0.85.

FIGURES



Reference: Evergreen, South Carolina
USGS 7.5 Min. Quad
Contour Interval - 2 Meters

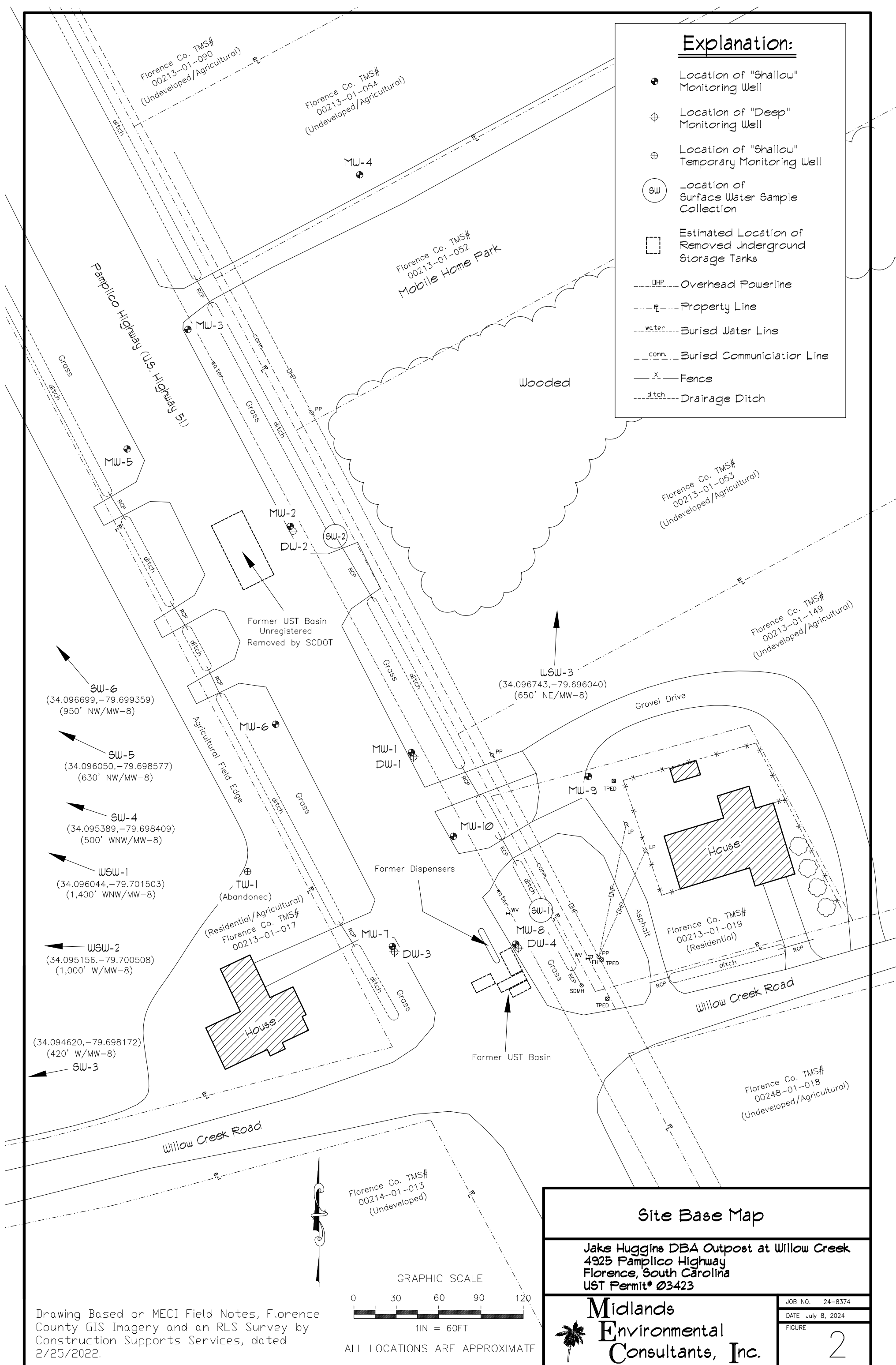
Midlands
Environmental
Consultants, Inc.

Site Location

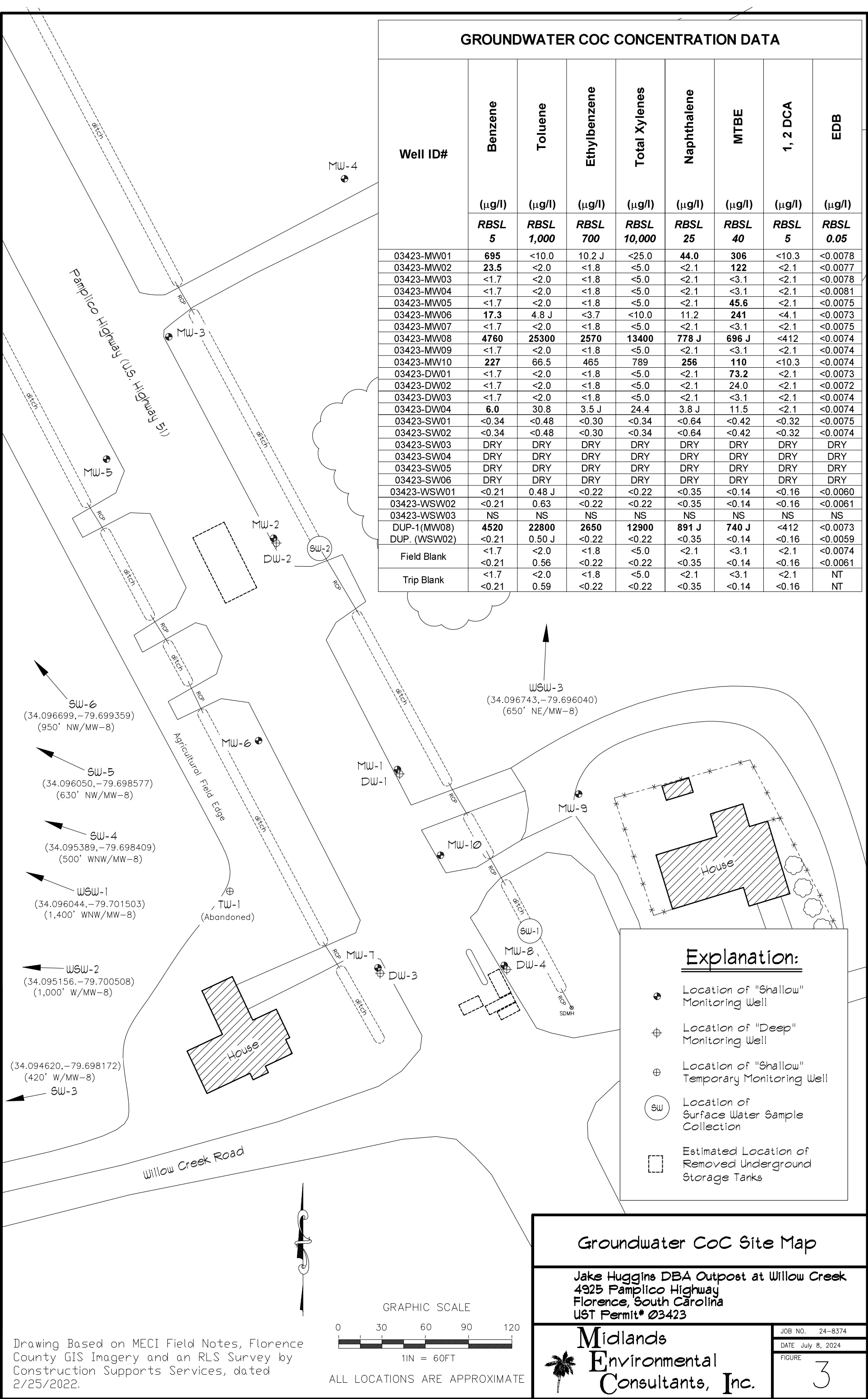
Jake Huggins DBA Outpost at Willowcreek, LLC.
4925 Pamplico Highway, Florence, SC
UST Permit# 18419

Figure 1

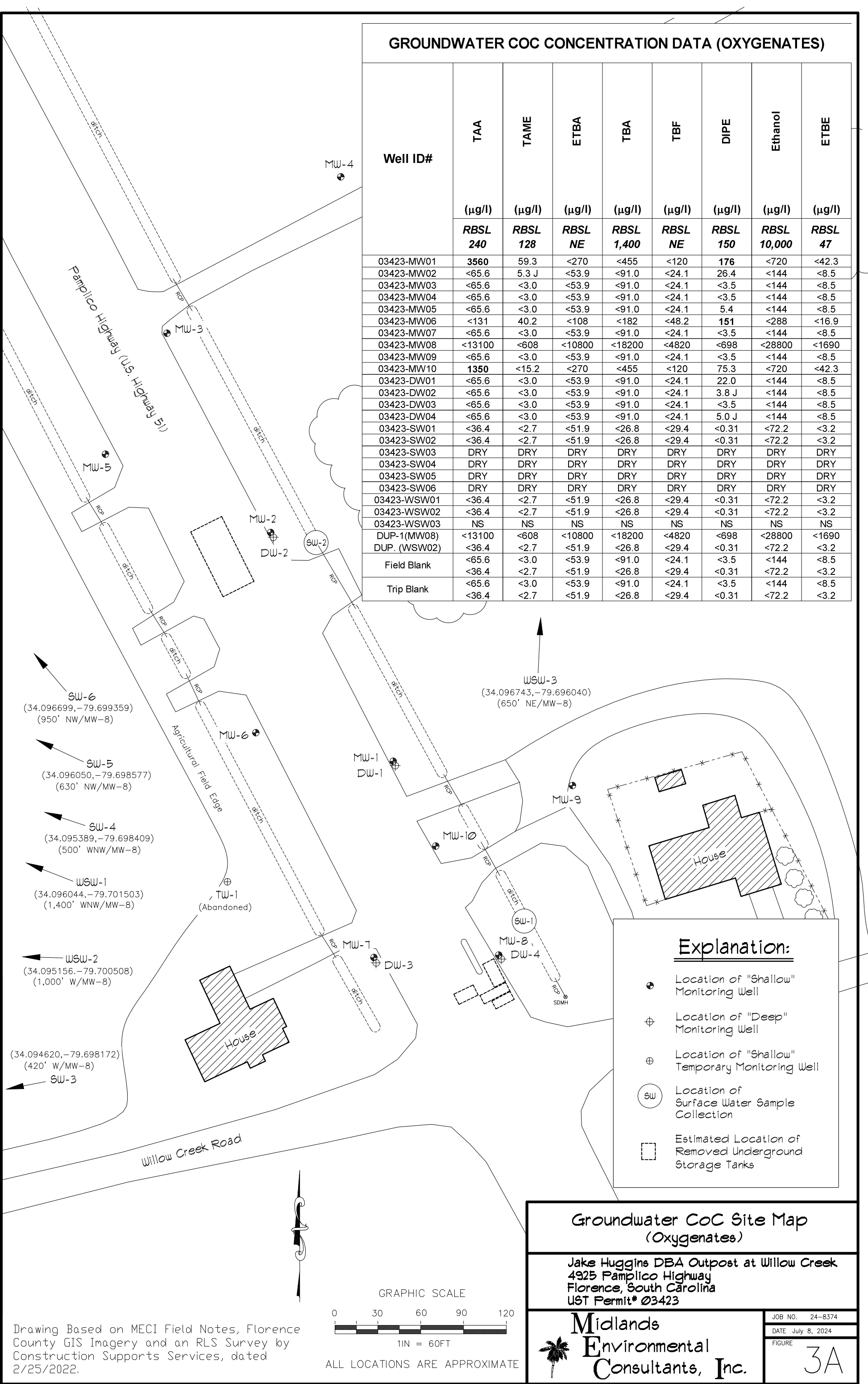
MECI# 24-8374



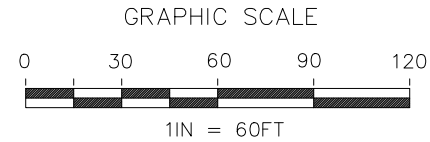
GROUNDWATER COC CONCENTRATION DATA								
Well ID#	Benzene	Toluene	Ethylbenzene	Total Xylenes	Naphthalene	MTBE	1, 2 DCA	EDB
	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)
	RBSL 5	RBSL 1,000	RBSL 700	RBSL 10,000	RBSL 25	RBSL 40	RBSL 5	RBSL 0.05
03423-MW01	695	<10.0	10.2 J	<25.0	44.0	306	<10.3	<0.0078
03423-MW02	23.5	<2.0	<1.8	<5.0	<2.1	122	<2.1	<0.0077
03423-MW03	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0078
03423-MW04	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0081
03423-MW05	<1.7	<2.0	<1.8	<5.0	<2.1	45.6	<2.1	<0.0075
03423-MW06	17.3	4.8 J	<3.7	<10.0	11.2	241	<4.1	<0.0073
03423-MW07	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0075
03423-MW08	4760	25300	2570	13400	778 J	696 J	<412	<0.0074
03423-MW09	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0074
03423-MW10	227	66.5	465	789	256	110	<10.3	<0.0074
03423-DW01	<1.7	<2.0	<1.8	<5.0	<2.1	73.2	<2.1	<0.0073
03423-DW02	<1.7	<2.0	<1.8	<5.0	<2.1	24.0	<2.1	<0.0072
03423-DW03	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0074
03423-DW04	6.0	30.8	3.5 J	24.4	3.8 J	11.5	<2.1	<0.0074
03423-SW01	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0075
03423-SW02	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0074
03423-SW03	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
03423-SW04	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
03423-SW05	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
03423-SW06	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
03423-WSW01	<0.21	0.48 J	<0.22	<0.22	<0.35	<0.14	<0.16	<0.0060
03423-WSW02	<0.21	0.63	<0.22	<0.22	<0.35	<0.14	<0.16	<0.0061
03423-WSW03	NS	NS	NS	NS	NS	NS	NS	NS
DUP-1 (MW08)	4520	22800	2650	12900	891 J	740 J	<412	<0.0073
DUP. (WSW02)	<0.21	0.50 J	<0.22	<0.22	<0.35	<0.14	<0.16	<0.0059
Field Blank	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0074
Trip Blank	<0.21	0.56	<0.22	<0.22	<0.35	<0.14	<0.16	<0.0061
	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	NT
	<0.21	0.59	<0.22	<0.22	<0.35	<0.14	<0.16	NT



GROUNDWATER COC CONCENTRATION DATA (OXYGENATES)								
Well ID#	TAA	TAME	ETBA	TBA	TBF	DIPE	Ethanol	ETBE
	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)
	RBSL 240	RBSL 128	RBSL NE	RBSL 1,400	RBSL NE	RBSL 150	RBSL 10,000	RBSL 47
03423-MW01	3560	59.3	<270	<455	<120	176	<720	<42.3
03423-MW02	<65.6	5.3 J	<53.9	<91.0	<24.1	26.4	<144	<8.5
03423-MW03	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
03423-MW04	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
03423-MW05	<65.6	<3.0	<53.9	<91.0	<24.1	5.4	<144	<8.5
03423-MW06	<131	40.2	<108	<182	<48.2	151	<288	<16.9
03423-MW07	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
03423-MW08	<13100	<608	<10800	<18200	<4820	<698	<28800	<1690
03423-MW09	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
03423-MW10	1350	<15.2	<270	<455	<120	75.3	<720	<42.3
03423-DW01	<65.6	<3.0	<53.9	<91.0	<24.1	22.0	<144	<8.5
03423-DW02	<65.6	<3.0	<53.9	<91.0	<24.1	3.8 J	<144	<8.5
03423-DW03	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
03423-DW04	<65.6	<3.0	<53.9	<91.0	<24.1	5.0 J	<144	<8.5
03423-SW01	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
03423-SW02	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
03423-SW03	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
03423-SW04	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
03423-SW05	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
03423-SW06	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
03423-WSW01	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
03423-WSW02	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
03423-WSW03	NS	NS	NS	NS	NS	NS	NS	NS
DUP-1(MW08)	<13100	<608	<10800	<18200	<4820	<698	<28800	<1690
DUP. (WSW02)	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
Field Blank	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
Trip Blank	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2



Drawing Based on MECI Field Notes, Florence County GIS Imagery and an RLS Survey by Construction Supports Services, dated 2/25/2022.



ALL LOCATIONS ARE APPROXIMATE

Groundwater CoC Site Map
(Oxygenates)

Jake Huggins DBA Outpost at Willow Creek
4925 Pamplico Highway
Florence, South Carolina
UST Permit# 03423

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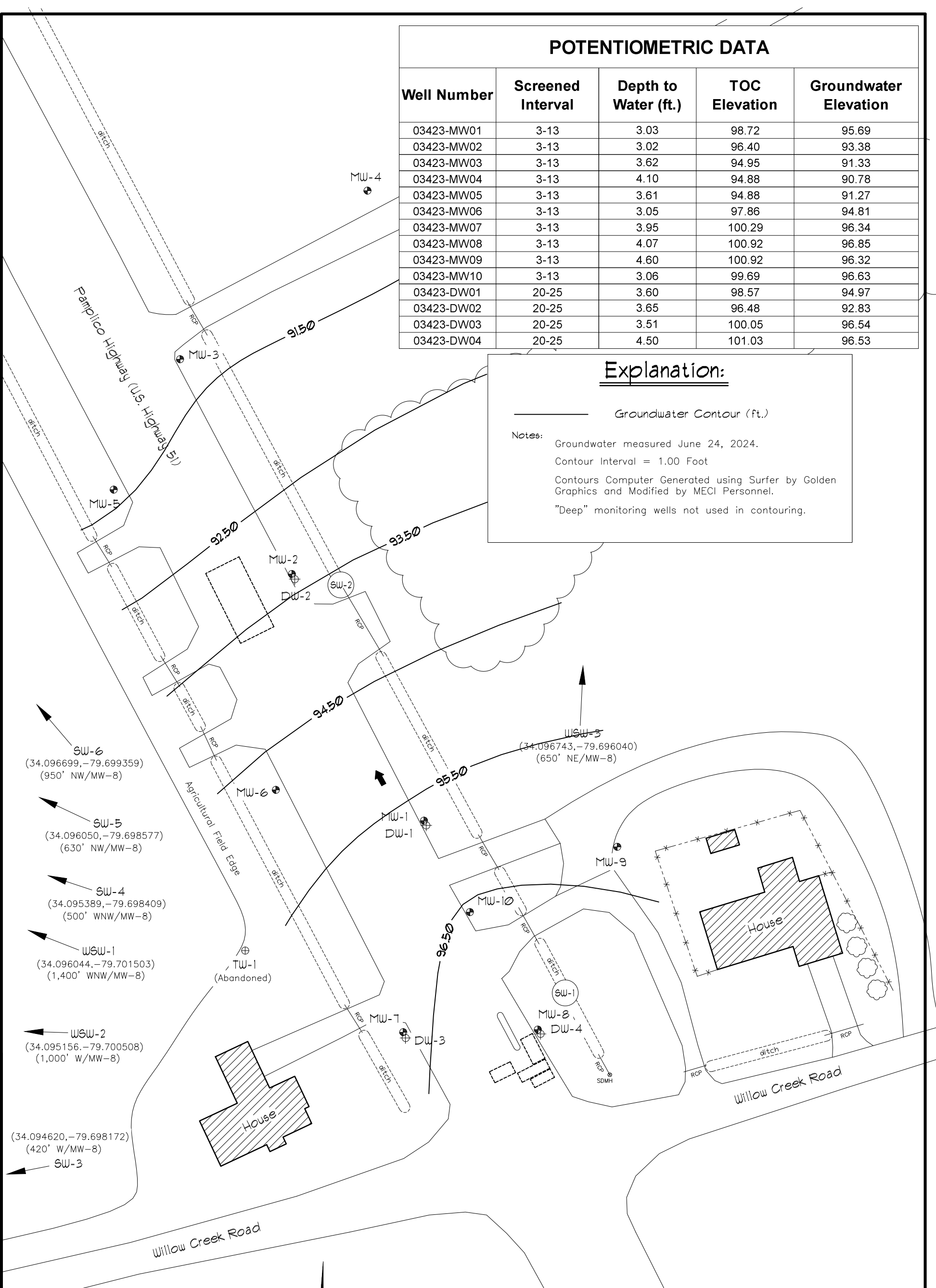
JOB NO. 24-8374
DATE July 8, 2024
FIGURE 3A

POTENTIOMETRIC DATA				
Well Number	Screened Interval	Depth to Water (ft.)	TOC Elevation	Groundwater Elevation
03423-MW01	3-13	3.03	98.72	95.69
03423-MW02	3-13	3.02	96.40	93.38
03423-MW03	3-13	3.62	94.95	91.33
03423-MW04	3-13	4.10	94.88	90.78
03423-MW05	3-13	3.61	94.88	91.27
03423-MW06	3-13	3.05	97.86	94.81
03423-MW07	3-13	3.95	100.29	96.34
03423-MW08	3-13	4.07	100.92	96.85
03423-MW09	3-13	4.60	100.92	96.32
03423-MW10	3-13	3.06	99.69	96.63
03423-DW01	20-25	3.60	98.57	94.97
03423-DW02	20-25	3.65	96.48	92.83
03423-DW03	20-25	3.51	100.05	96.54
03423-DW04	20-25	4.50	101.03	96.53

Explanation:

Groundwater Contour (ft.)

Notes:
Groundwater measured June 24, 2024.
Contour Interval = 1.00 Foot
Contours Computer Generated using Surfer by Golden Graphics and Modified by MECI Personnel.
"Deep" monitoring wells not used in contouring.



Potentiometric Data Site Map
(Groundwater Contour/"Shallow" Zone)

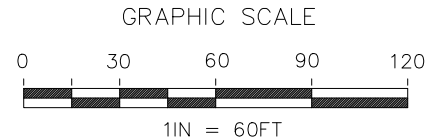
Jake Huggins DBA Outpost at Willow Creek
4925 Pamplico Highway
Florence, South Carolina
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Consultants, Inc.

JOB NO. 24-8374
DATE July 8, 2024
FIGURE

4

Drawing Based on MECI Field Notes, Florence County GIS Imagery and an RLS Survey by Construction Supports Services, dated 2/25/2022.



POTENTIOMETRIC DATA				
Well Number	Screened Interval	Depth to Water (ft.)	TOC Elevation	Groundwater Elevation
03423-MW01	3-13	3.03	98.72	95.69
03423-MW02	3-13	3.02	96.40	93.38
03423-MW03	3-13	3.62	94.95	91.33
03423-MW04	3-13	4.10	94.88	90.78
03423-MW05	3-13	3.61	94.88	91.27
03423-MW06	3-13	3.05	97.86	94.81
03423-MW07	3-13	3.95	100.29	96.34
03423-MW08	3-13	4.07	100.92	96.85
03423-MW09	3-13	4.60	100.92	96.32
03423-MW10	3-13	3.06	99.69	96.63
03423-DW01	20-25	3.60	98.57	94.97
03423-DW02	20-25	3.65	96.48	92.83
03423-DW03	20-25	3.51	100.05	96.54
03423-DW04	20-25	4.50	101.03	96.53

Explanation:

Groundwater Contour (ft.)

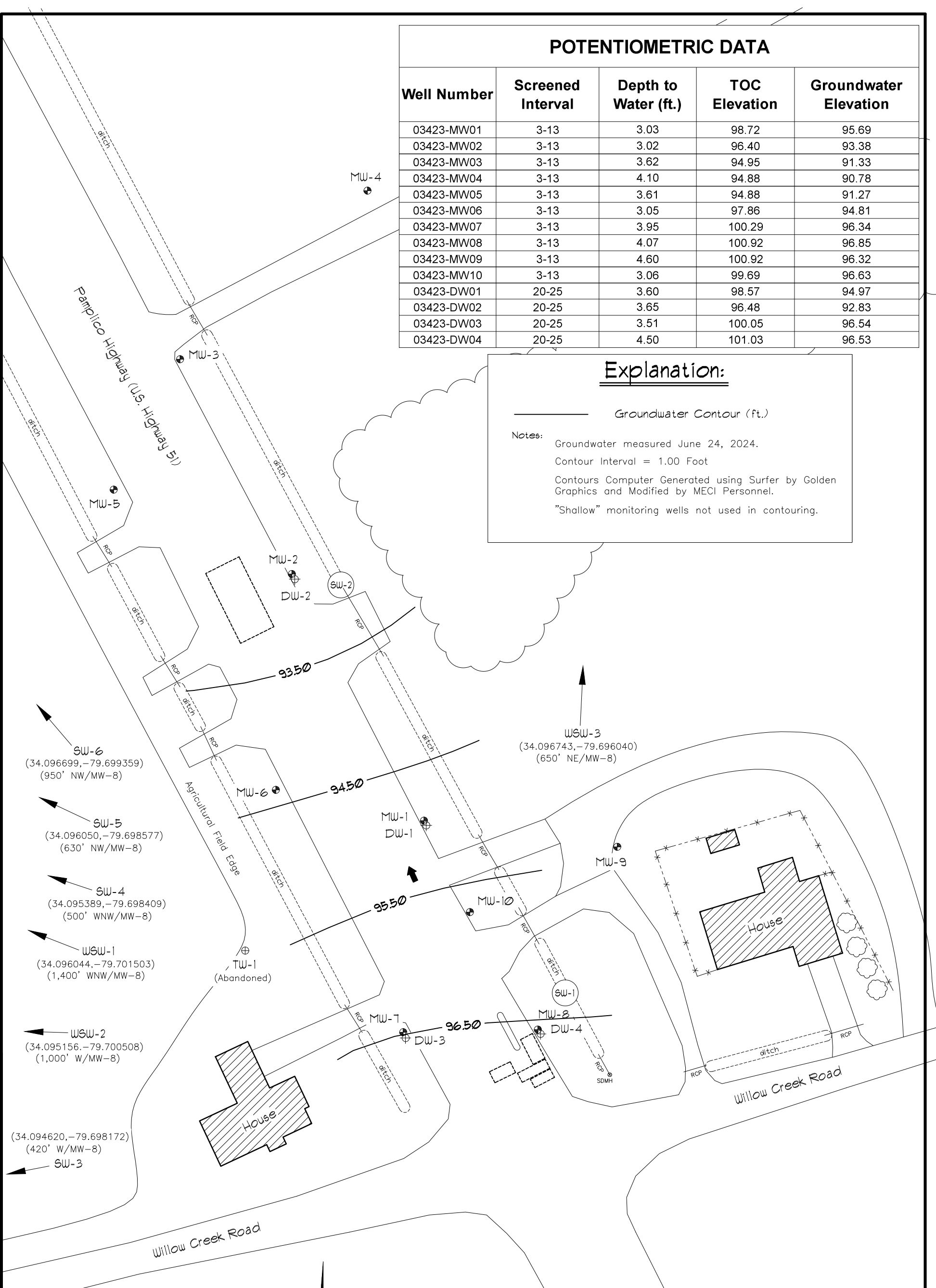
Notes:

Groundwater measured June 24, 2024.

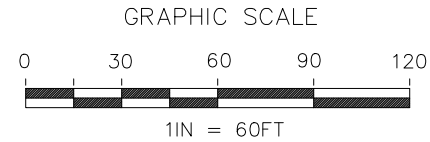
Contour Interval = 1.00 Foot

Contours Computer Generated using Surfer by Golden Graphics and Modified by MECI Personnel.

"Shallow" monitoring wells not used in contouring.



Drawing Based on MECI Field Notes, Florence County GIS Imagery and an RLS Survey by Construction Supports Services, dated 2/25/2022.



ALL LOCATIONS ARE APPROXIMATE

Potentiometric Data Site Map
(Groundwater Contour/"Deep" Zone)

Jake Huggins DBA Outpost at Willow Creek
4925 Pamplico Highway
Florence, South Carolina
UST Permit# 03423

Midlands
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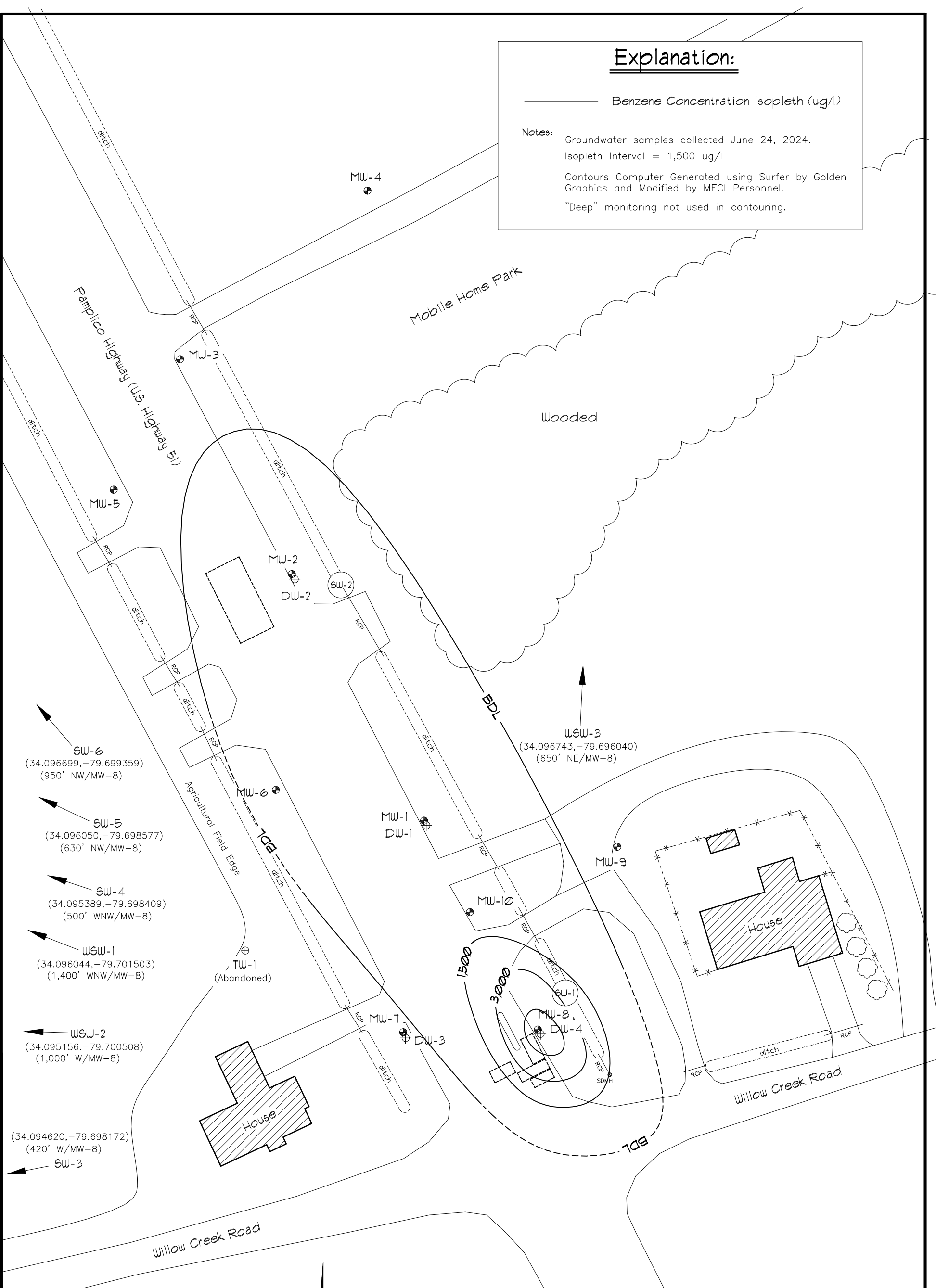
JOB NO. 24-8374
DATE July 8, 2024
FIGURE

4A

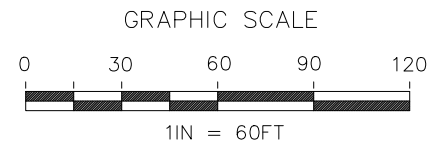
Explanation:

Benzene Concentration Isopleth (ug/l)

Notes: Groundwater samples collected June 24, 2024.
Isopleth Interval = 1,500 ug/l
Contours Computer Generated using Surfer by Golden Graphics and Modified by MECI Personnel.
"Deep" monitoring not used in contouring.



Drawing Based on MECI Field Notes, Florence County GIS Imagery and an RLS Survey by Construction Supports Services, dated 2/25/2022.



ALL LOCATIONS ARE APPROXIMATE

Benzene Isopleth - "Shallow" Zone

Jake Huggins DBA Outpost at Willow Creek
4925 Pamplico Highway
Florence, South Carolina
UST Permit# 03423

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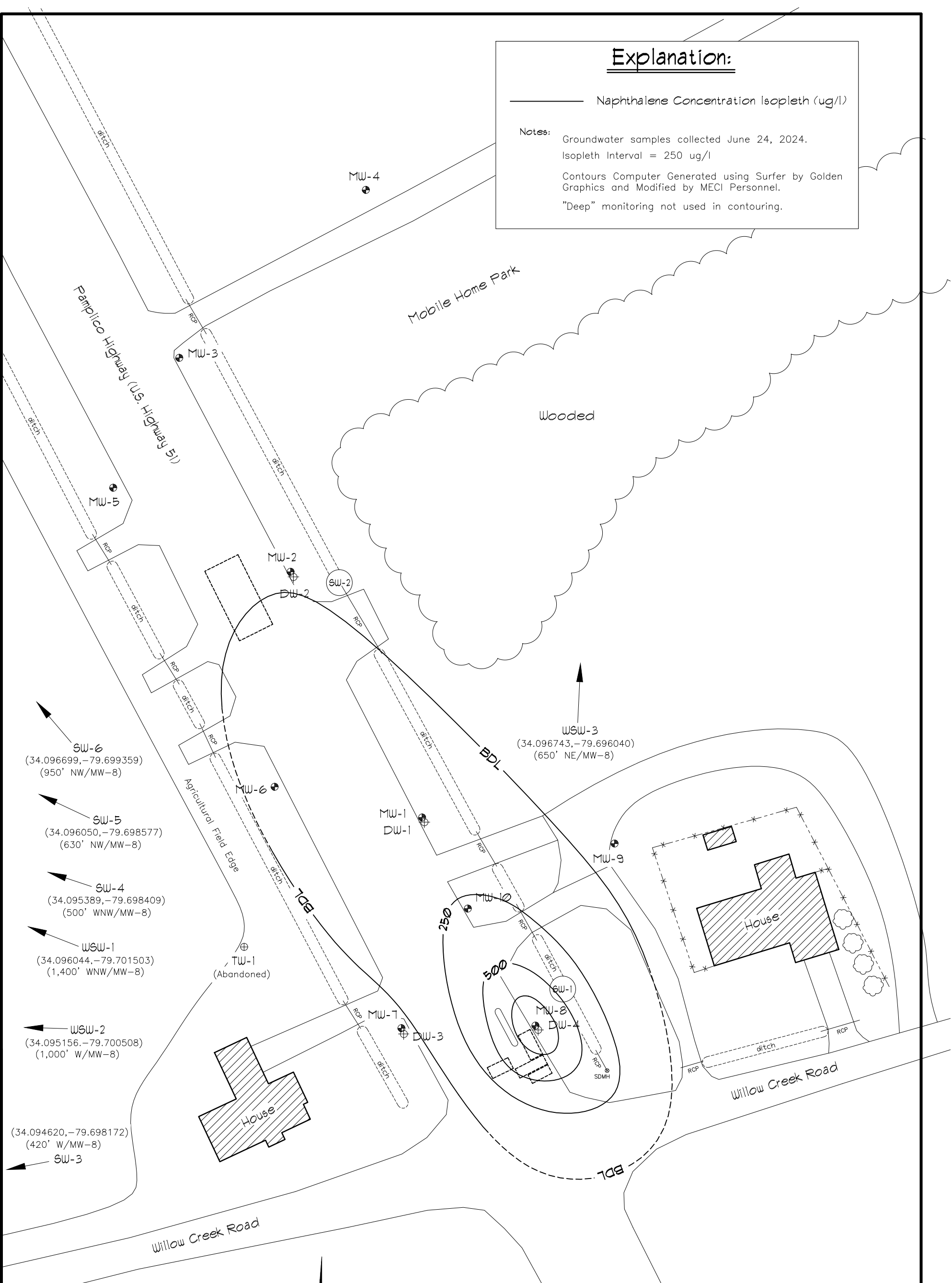
JOB NO. 24-8374
DATE July 8, 2024
FIGURE

5

Explanation:

Naphthalene Concentration Isopleth (ug/l)

Notes: Groundwater samples collected June 24, 2024.
Isopleth Interval = 250 ug/l
Contours Computer Generated using Surfer by Golden Graphics and Modified by MECI Personnel.
"Deep" monitoring not used in contouring.



Naphthalene Isopleth - "Shallow" Zone

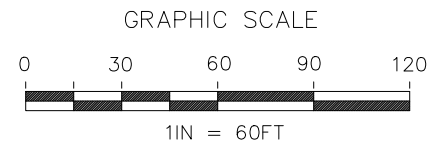
Jake Huggins DBA Outpost at Willow Creek
4925 Pamplico Highway
Florence, South Carolina
UST Permit# 03423

Midlands
Environmental
Consultants, Inc.

JOB NO. 24-8374
DATE July 8, 2024
FIGURE

5A

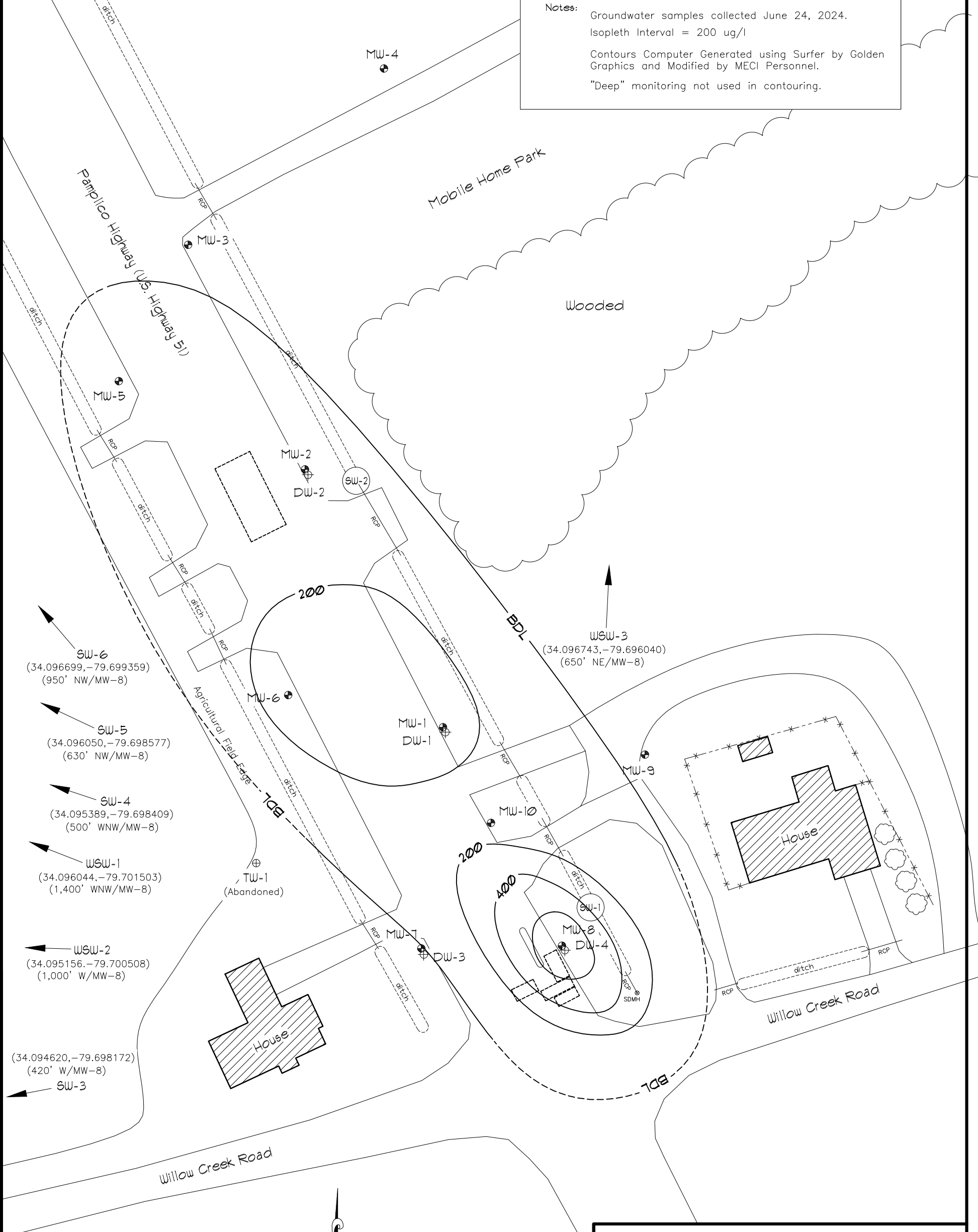
Drawing Based on MECI Field Notes, Florence County GIS Imagery and an RLS Survey by Construction Supports Services, dated 2/25/2022.



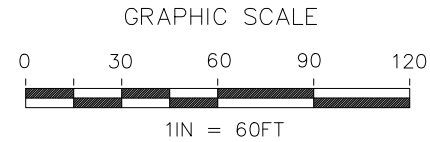
Explanation:

MTBE Concentration Isopleth (ug/l)

Notes: Groundwater samples collected June 24, 2024.
Isopleth Interval = 200 ug/l
Contours Computer Generated using Surfer by Golden Graphics and Modified by MECI Personnel.
"Deep" monitoring not used in contouring.



Drawing Based on MECI Field Notes, Florence County GIS Imagery and an RLS Survey by Construction Supports Services, dated 2/25/2022.



ALL LOCATIONS ARE APPROXIMATE

MTBE Isopleth - "Shallow" Zone

Jake Huggins DBA Outpost at Willow Creek
4925 Pamlico Highway
Florence, South Carolina
UST Permit# 03423

Midlands
Environmental
Consultants, Inc.

JOB NO. 24-8374
DATE July 8, 2024
FIGURE

5B

APPENDIX A:

SITE SURVEY

(Not Applicable)

APPENDIX B:

SAMPLING LOGS, LABORATORY DATA SHEETS, & CHAIN-OF-CUSTODY FORMS

Monitoring Well Purge And Sampling Data

Field Personnel: T.D. McGinnis
Sampling Date(s): 06/24/24
Sampling Case#: 2

Job Name: Julie Higgins
Job Number: 24-6374

Calibration Data for:
Calibration Successful? Yes or No (Please Circle)
pH: Yes No
Conductivity: Yes No
Dissolved Oxygen: Yes No
Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height *(feet)	Gallons Purged		Notes
								product	initial H ₂ O	final H ₂ O			**calc.	actual	
MW-01	Initial	12:22	4.61	89.7	27.2	2.41	10.88				3-13				Slight odor
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling														
MW-02	Initial	11:07	4.81	105.3	25.9	2.61	9.10				3-13				No odor
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling														
MW-03	Initial	10:30	5.89	995.1	26.8	2.34	11.1				3-13				No odor
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling														
MW-04	Initial	10:48	5.25	133.1	24.7	1.70	14.11				3-13				No odor
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling														

* = (Depth of Well) - (Depth to Water) = Water Height

One Well Volume = x.047 for 1" wells * x.163 for 2" wells, or * x.66 for 4" wells, 1.469 for 6" wells

** = One Well Volume x 5 = Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	Ph/Conductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251

Monitoring Well Purge And Sampling Data

Field Personnel: TD, DG, MN
Sampling Date(s): 06/24/24
Sampling Case#: 2

Job Name: Jake Huggins
Job Number: 24-6374

Calibration Data for :

Calibration Successful? Yes or No (Please Circle)
pH: Yes No
Conductivity: Yes No
Dissolved Oxygen: Yes No
Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height *(feet)	Gallons Purged		Notes
								product	initial H ₂ O	final H ₂ O			**calc.	actual	
MW-05	Initial	10:45	4.80	86.1	27.9	2.57	9.21				3-13				no odor
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling														
MW-6	Initial	10:50	4.86	84.6	27.4	3.25	9.78				3-13				slight odor
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling														
MW-7	Initial	11:18	4.50	80.1	26.5	1.89	13.12				3-13				no odor
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling														
MW-8	Initial	12:25	5.87	197.4	28.9	1.70	13.20				3-13				D&P-1 odor
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling														

*= (Depth of Well) - (Depth to Water) = Water Height

One Well Volume = x.047 for 1" wells * x .163 for 2" wells, or * x .66 for 4" wells, 1.469 for 6" wells

**= One Well Volume x 5 = Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	PH/Conductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251

Monitoring Well Purge And Sampling Data

Field Personnel: TD, DG, MN
Sampling Date(s): 06/24/24
Sampling Case#: 2

Job Name: Julie Higgins
Job Number: 24-6374

Calibration Data for :
Calibration Successful? Yes or No (Please Circle)
pH: Yes No
Conductivity: Yes No
Dissolved Oxygen: Yes No
Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height *(feet)	Gallons Purged		Notes
								product	initial H ₂ O	final H ₂ O			**calc.	actual	
MW-9	Initial	12:30	5.67	130.8	24.2	2.45	2.72				3-13		✓		No odor
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling												✓		
MW-6	Initial	12:35	6.11	95.7	20.9	1.75	10.09				3-13				Slushy odor
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling														
DW-1	Initial	12:07	5.95	108.2	28.3	2.46	9.22				20-25				No odor
	1st	12:12	5.71	107.6	26.2	2.44	11.80								
	2nd	12:17	5.46	107.6	28.1	2.38	15.16								
	3rd														
	4th														
	5th	13:05													
	Sampling		5.47	108.3	28.2	2.46	14.88						17.45	8 gal	
PW-2	Initial	11:11	5.23	92.8	24.5	3.42	9.14				20-25				No odor
	1st	11:16	5.64	91.9	25.1	3.40	12.70								
	2nd	11:21	5.70	88.1	24.7	3.36	14.80								
	3rd														
	4th														
	5th														
	Sampling	13:23	5.25	92.8	24.7	3.43	14.71						17.45	9 gal	

*= (Depth of Well) - (Depth to Water) = Water Height

One Well Volume = x.047 for 1" wells * x .163 for 2" wells, or * x .66 for 4" wells, 1.469 for 6" wells

**= One Well Volume x 5 = Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	PhConductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251

Field Personnel: TD, DG, MN
Sampling Date(s): 06/24/24
Sampling Case#: 2

Job Name: Julie Higgins
Job Number: 24-6374

Monitoring Well Purge And Sampling Data

Calibration Data for :
Calibration Successful? Yes or No (Please Circle)
pH: Yes No
Conductivity: Yes No
Dissolved Oxygen: Yes No
Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height *(feet)	Gallons Purged		Notes
								product	initial H ₂ O	final H ₂ O			**calc.	actual	
DW-3	Initial	10:58	5.81	114.0	24.6	2.43	12.41								
	1st	11:05	6.02	116.7	23.0	2.17	10.10								
	2nd	11:10	5.47	112.2	22.2	2.11	22.82								
	3rd														
	4th														
	5th														
	Sampling	13:20	5.82	114.4	22.2	2.43	22.12								
DW-4	Initial	12:06	4.84	105.8	27.5	2.81	9.81								
	1st	12:10	4.99	101.3	27.1	2.85	12.13								
	2nd	12:15	4.88	98.9	27.0	2.44	4.49								
	3rd														
	4th														
	5th														
	Sampling	13:27	4.86	105.8	27.1	2.82	14.45								
SW-1	Initial	12:45	Sampled from ditch					(34.095876, -79.696772)							
SW-2	2nd	12:48	Sampled from ditch					(34.095847, -79.697212)							
SW-3	3rd														
	4th														
	5th														
	Sampling							(34.094642, -79.698172)							
SW-4	Initial							(34.096050, -79.698577)							
	1st														
SW-5	2nd							(34.096050, -79.698577)							
	3rd														
SW-6	4th														
	5th														
	Sampling							(34.096699, -79.699359)							

*= (Depth of Well) - (Depth to Water = Water Height

One Well Volume = 0.47 ft³

**= One Well Volume = 0.47 ft³

* = (Depth of Well) - (Depth to Water) = Water Height

One Well Volume = x.047 for 1" wells * x.163 for 2" wells, or * x.66 for 4" wells, 1.469 for 6" wells

** = One Well Volume x 5 = Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	PhConductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251

Monitoring Well Purge And Sampling Data

Field Personnel: JD, DG, MN
Sampling Date(s): 06/24/24
Sampling Case#: 2

Job Name: Julie Harris
Job Number: 24-6374

Calibration Data for :

Calibration Successful? Yes or No (Please Circle)
pH: Yes No
Conductivity: Yes No
Dissolved Oxygen: Yes No
Turbidity: Conductivity

Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height *(feet)	Gallons Purged		Notes
								product	initial H ₂ O	final H ₂ O			**calc.	actual	
WSW-1	Initial	13:10		Collected from							34.09	60.44	-29.70	503	
	1st			Right on well											
	2nd														
	3rd														
	4th	13:00		collected from split							31.01	willow creek			
WSW-2	5th			at well											
	Sampling														
	Initial														
	1st														
	2nd														
WSW-3	3rd														
	4th														
	5th														
	Sampling														
	Initial														
WSW-4	1st														
	2nd														
	3rd														
	4th														
	5th														
WSW-5	Sampling														
	Initial	13:15													
	1st														
	2nd														
	3rd	13:00													
WSW-6	4th														
	5th														
	Sampling	0800													
	Initial														
	1st														
WSW-7	2nd														
	3rd														
	4th														
	5th														
	Sampling														
WSW-8	Initial	12:25													
	1st														
	2nd														
	3rd	13:30													
	4th														
WSW-9	5th														
	Sampling	0800													
	Initial														
	1st														
	2nd														
WSW-10	3rd														
	4th														
	5th														
	Sampling														
	Initial														

*= (Depth of Well) - (Depth to Water) = Water Height

One Well Volume = x.047 for 1" wells * x .163 for 2" wells, or * x .66 for 4" wells, 1.469 for 6" wells

**= One Well Volume x 5 = Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	Ph/Conductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251

Monitoring Well Purge And Sampling Data

Field Personnel: D. D. G. / MN
Sampling Date(s): 06/24/24
Sampling Case#: 2

Job Name: Julie Hugin's
Job Number: 24-6374

Calibration Data for :
Calibration Successful? Yes or No (Please Circle)
pH: Yes No
Conductivity: Yes No
Dissolved Oxygen: Yes No
Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height *(feet)	Gallons Purged		Notes
								product	initial H ₂ O	final H ₂ O			**calc.	actual	
Ctc	Initial														
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling														
	Initial														
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling														
	Initial														
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling														
	Initial														
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling														

*= (Depth of Well) - (Depth to Water = Water Height

One Well Volume = x.047 for 1" wells * x .163 for 2" wells, or * x .66 for 4" wells, 1.469 for 6" wells

**= One Well Volume x 5 = Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	PhiConductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251



July 03, 2024

Mr. Bryan Shane, P.G.
Midlands Environmental
PO Box 854
Lexington, SC 29071

RE: Project: JAKE HUGGIN'S
Pace Project No.: 92738733

Dear Mr. Shane, P.G.:

Enclosed are the analytical results for sample(s) received by the laboratory on June 26, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Charlotte

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in cursive script, appearing to read "Jonathan Biddix".

Jonathan W Biddix
jonathan.biddix@pacelabs.com
704-977-0978
Project Manager

Enclosures

cc: Mr. Jeff Coleman, Midlands Environmental



REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, LLC.



CERTIFICATIONS

Project: JAKE HUGGIN'S

Pace Project No.: 92738733

Pace Analytical Services Charlotte

South Carolina Laboratory ID: 99006

9800 Kincey Ave. Ste 100, Huntersville, NC 28078

North Carolina Drinking Water Certification #: 37706

North Carolina Field Services Certification #: 5342

North Carolina Wastewater Certification #: 12

South Carolina Laboratory ID: 99006

South Carolina Certification #: 99006001

South Carolina Drinking Water Cert. #: 99006003

Florida/NELAP Certification #: E87627

Kentucky UST Certification #: 84

Louisiana DoH Drinking Water #: LA029

Virginia/VELAP Certification #: 460221

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: JAKE HUGGIN'S

Pace Project No.: 92738733

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92738733001	MW-1	Water	06/24/24 12:22	06/26/24 09:51
92738733002	MW-2	Water	06/24/24 11:07	06/26/24 09:51
92738733003	MW-3	Water	06/24/24 10:30	06/26/24 09:51
92738733004	MW-4	Water	06/24/24 10:28	06/26/24 09:51
92738733005	MW-5	Water	06/24/24 10:48	06/26/24 09:51
92738733006	MW-6	Water	06/24/24 10:50	06/26/24 09:51
92738733007	MW-7	Water	06/24/24 11:18	06/26/24 09:51
92738733008	MW-8	Water	06/24/24 12:25	06/26/24 09:51
92738733009	MW-9	Water	06/24/24 12:30	06/26/24 09:51
92738733010	MW-10	Water	06/24/24 12:23	06/26/24 09:51
92738733011	DW-1	Water	06/24/24 13:05	06/26/24 09:51
92738733012	DW-2	Water	06/24/24 13:23	06/26/24 09:51
92738733013	DW-3	Water	06/24/24 13:20	06/26/24 09:51
92738733014	DW-4	Water	06/24/24 13:27	06/26/24 09:51
92738733015	SW-1	Water	06/24/24 12:45	06/26/24 09:51
92738733016	SW-2	Water	06/24/24 12:48	06/26/24 09:51
92738733017	DUP-1	Water	06/24/24 00:00	06/26/24 09:51
92738733018	FB	Water	06/24/24 13:30	06/26/24 09:51
92738733019	GAC	Water	06/24/24 13:32	06/26/24 09:51
92738733020	TB	Water	06/24/24 08:00	06/26/24 09:51
92738733021	WSW-1	Water	06/24/24 13:10	06/26/24 09:51
92738733022	WSW-2	Water	06/24/24 13:00	06/26/24 09:51
92738733023	WSW-DUP	Water	06/24/24 00:00	06/26/24 09:51
92738733024	WSW-FB	Water	06/24/24 13:15	06/26/24 09:51
92738733025	WSW-TB	Water	06/24/24 08:00	06/26/24 09:51

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SAMPLE ANALYTE COUNT

Project: JAKE HUGGIN'S

Pace Project No.: 92738733

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92738733001	MW-1	EPA 8011	HH	2	PASI-C
		EPA 8260D	SAS	20	PASI-C
92738733002	MW-2	EPA 8011	HH	2	PASI-C
		EPA 8260D	JJK	20	PASI-C
92738733003	MW-3	EPA 8011	HH	2	PASI-C
		EPA 8260D	GAW	20	PASI-C
92738733004	MW-4	EPA 8011	HH	2	PASI-C
		EPA 8260D	GAW	20	PASI-C
92738733005	MW-5	EPA 8011	HH	2	PASI-C
		EPA 8260D	GAW	20	PASI-C
92738733006	MW-6	EPA 8011	HH	2	PASI-C
		EPA 8260D	TMK	20	PASI-C
92738733007	MW-7	EPA 8011	HH	2	PASI-C
		EPA 8260D	SAS	20	PASI-C
92738733008	MW-8	EPA 8011	HH	2	PASI-C
		EPA 8260D	SAS	20	PASI-C
92738733009	MW-9	EPA 8011	HH	2	PASI-C
		EPA 8260D	SAS	20	PASI-C
92738733010	MW-10	EPA 8011	HH	2	PASI-C
		EPA 8260D	SAS	20	PASI-C
92738733011	DW-1	EPA 8011	HH	2	PASI-C
		EPA 8260D	SAS	20	PASI-C
92738733012	DW-2	EPA 8011	HH	2	PASI-C
		EPA 8260D	SAS	20	PASI-C
92738733013	DW-3	EPA 8011	HH	2	PASI-C
		EPA 8260D	SAS	20	PASI-C
92738733014	DW-4	EPA 8011	HH	2	PASI-C
		EPA 8260D	TMK	20	PASI-C
92738733015	SW-1	EPA 8011	HH	2	PASI-C
		EPA 8260D	TMK	20	PASI-C
92738733016	SW-2	EPA 8011	HH	2	PASI-C
		EPA 8260D	TMK	20	PASI-C
92738733017	DUP-1	EPA 8011	HH	2	PASI-C
		EPA 8260D	TMK	20	PASI-C
92738733018	FB	EPA 8011	HH	2	PASI-C
		EPA 8260D	SAS	20	PASI-C
92738733019	GAC	EPA 8011	HH	2	PASI-C

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SAMPLE ANALYTE COUNT

Project: JAKE HUGGIN'S

Pace Project No.: 92738733

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92738733020	TB	EPA 8260D	SAS	20	PASI-C
		EPA 8260D	SAS	20	PASI-C
92738733021	WSW-1	EPA 504.1	HH	2	PASI-C
		EPA 524.2	JN	11	PASI-C
92738733022	WSW-2	EPA 8260D	TMK	11	PASI-C
		EPA 504.1	HH	2	PASI-C
		EPA 524.2	JN	11	PASI-C
		EPA 8260D	TMK	11	PASI-C
92738733023	WSW-DUP	EPA 504.1	HH	2	PASI-C
		EPA 524.2	JN	11	PASI-C
		EPA 8260D	TMK	11	PASI-C
92738733024	WSW-FB	EPA 504.1	HH	2	PASI-C
		EPA 524.2	JN	11	PASI-C
		EPA 8260D	TMK	11	PASI-C
92738733025	WSW-TB	EPA 524.2	JN	11	PASI-C
		EPA 8260D	TMK	11	PASI-C

PASI-C = Pace Analytical Services - Charlotte

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ANALYTICAL RESULTS

Project: JAKE HUGGIN'S
Pace Project No.: 92738733

Sample: MW-1		Lab ID: 92738733001		Collected: 06/24/24 12:22		Received: 06/26/24 09:51		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
Pace Analytical Services - Charlotte									
1,2-Dibromoethane (EDB)	ND	ug/L	0.021	0.0078	1	06/28/24 13:21	06/28/24 20:56	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	101	%	60-140		1	06/28/24 13:21	06/28/24 20:56	301-79-56	
8260 MSV									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	3560	ug/L	500	328	5		07/02/24 15:58	75-85-4	
tert-Amylmethyl ether	59.3	ug/L	50.0	15.2	5		07/02/24 15:58	994-05-8	
Benzene	695	ug/L	25.0	8.7	5		07/02/24 15:58	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	500	270	5		07/02/24 15:58	624-95-3	
tert-Butyl Alcohol	ND	ug/L	500	455	5		07/02/24 15:58	75-65-0	
tert-Butyl Formate	ND	ug/L	250	120	5		07/02/24 15:58	762-75-4	
1,2-Dichloroethane	ND	ug/L	25.0	10.3	5		07/02/24 15:58	107-06-2	v1
Diisopropyl ether	176	ug/L	25.0	17.4	5		07/02/24 15:58	108-20-3	
Ethanol	ND	ug/L	1000	720	5		07/02/24 15:58	64-17-5	
Ethylbenzene	10.2J	ug/L	25.0	9.2	5		07/02/24 15:58	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	50.0	42.3	5		07/02/24 15:58	637-92-3	
Methyl-tert-butyl ether	306	ug/L	25.0	15.5	5		07/02/24 15:58	1634-04-4	
Naphthalene	44.0	ug/L	25.0	10.4	5		07/02/24 15:58	91-20-3	v3
Toluene	ND	ug/L	25.0	10.0	5		07/02/24 15:58	108-88-3	
Xylene (Total)	ND	ug/L	25.0	25.0	5		07/02/24 15:58	1330-20-7	
m&p-Xylene	ND	ug/L	50.0	20.6	5		07/02/24 15:58	179601-23-1	
o-Xylene	ND	ug/L	25.0	10.2	5		07/02/24 15:58	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		5		07/02/24 15:58	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		5		07/02/24 15:58	17060-07-0	
Toluene-d8 (S)	99	%	70-130		5		07/02/24 15:58	2037-26-5	

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ANALYTICAL RESULTS

Project: JAKE HUGGIN'S

Pace Project No.: 92738733

Sample: MW-2		Lab ID: 92738733002		Collected: 06/24/24 11:07		Received: 06/26/24 09:51		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
Pace Analytical Services - Charlotte									
1,2-Dibromoethane (EDB)	ND	ug/L	0.021	0.0077	1	06/28/24 13:21	06/28/24 21:07	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	100	%	60-140		1	06/28/24 13:21	06/28/24 21:07	301-79-56	
8260 MSV									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		07/03/24 15:01	75-85-4	
tert-Amylmethyl ether	5.3J	ug/L	10.0	3.0	1		07/03/24 15:01	994-05-8	
Benzene	23.5	ug/L	5.0	1.7	1		07/03/24 15:01	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		07/03/24 15:01	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		07/03/24 15:01	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		07/03/24 15:01	762-75-4	v2
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		07/03/24 15:01	107-06-2	
Diisopropyl ether	26.4	ug/L	5.0	3.5	1		07/03/24 15:01	108-20-3	
Ethanol	ND	ug/L	200	144	1		07/03/24 15:01	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		07/03/24 15:01	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		07/03/24 15:01	637-92-3	
Methyl-tert-butyl ether	122	ug/L	5.0	3.1	1		07/03/24 15:01	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		07/03/24 15:01	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		07/03/24 15:01	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		07/03/24 15:01	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		07/03/24 15:01	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		07/03/24 15:01	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		07/03/24 15:01	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		07/03/24 15:01	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		07/03/24 15:01	2037-26-5	

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ANALYTICAL RESULTS

Project: JAKE HUGGIN'S
Pace Project No.: 92738733

Sample: MW-3		Lab ID: 92738733003		Collected: 06/24/24 10:30		Received: 06/26/24 09:51		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP		Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.021	0.0078	1	06/28/24 13:21	06/28/24 21:18	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	97	%	60-140		1	06/28/24 13:21	06/28/24 21:18	301-79-56	
8260 MSV		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		06/27/24 21:31	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		06/27/24 21:31	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		06/27/24 21:31	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		06/27/24 21:31	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		06/27/24 21:31	75-65-0	v3
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		06/27/24 21:31	762-75-4	v3
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		06/27/24 21:31	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		06/27/24 21:31	108-20-3	
Ethanol	ND	ug/L	200	144	1		06/27/24 21:31	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		06/27/24 21:31	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		06/27/24 21:31	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		06/27/24 21:31	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		06/27/24 21:31	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		06/27/24 21:31	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		06/27/24 21:31	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		06/27/24 21:31	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		06/27/24 21:31	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		06/27/24 21:31	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		06/27/24 21:31	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		06/27/24 21:31	2037-26-5	

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ANALYTICAL RESULTS

Project: JAKE HUGGIN'S

Pace Project No.: 92738733

Sample: MW-4		Lab ID: 92738733004		Collected: 06/24/24 10:28		Received: 06/26/24 09:51		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
Pace Analytical Services - Charlotte									
1,2-Dibromoethane (EDB)	ND	ug/L	0.022	0.0081	1	06/28/24 13:21	06/28/24 21:28	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	107	%	60-140		1	06/28/24 13:21	06/28/24 21:28	301-79-56	
8260 MSV									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		06/27/24 21:49	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		06/27/24 21:49	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		06/27/24 21:49	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		06/27/24 21:49	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		06/27/24 21:49	75-65-0	v2
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		06/27/24 21:49	762-75-4	v2
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		06/27/24 21:49	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		06/27/24 21:49	108-20-3	
Ethanol	ND	ug/L	200	144	1		06/27/24 21:49	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		06/27/24 21:49	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		06/27/24 21:49	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		06/27/24 21:49	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		06/27/24 21:49	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		06/27/24 21:49	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		06/27/24 21:49	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		06/27/24 21:49	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		06/27/24 21:49	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		06/27/24 21:49	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130		1		06/27/24 21:49	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		06/27/24 21:49	2037-26-5	

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ANALYTICAL RESULTS

Project: JAKE HUGGIN'S

Pace Project No.: 92738733

Sample: MW-5		Lab ID: 92738733005		Collected: 06/24/24 10:48		Received: 06/26/24 09:51		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP		Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0075	1	07/01/24 08:38	07/01/24 13:45	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	106	%	60-140		1	07/01/24 08:38	07/01/24 13:45	301-79-56	
8260 MSV		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		06/27/24 22:07	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		06/27/24 22:07	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		06/27/24 22:07	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		06/27/24 22:07	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		06/27/24 22:07	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		06/27/24 22:07	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		06/27/24 22:07	107-06-2	
Diisopropyl ether	5.4	ug/L	5.0	3.5	1		06/27/24 22:07	108-20-3	
Ethanol	ND	ug/L	200	144	1		06/27/24 22:07	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		06/27/24 22:07	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		06/27/24 22:07	637-92-3	
Methyl-tert-butyl ether	45.6	ug/L	5.0	3.1	1		06/27/24 22:07	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		06/27/24 22:07	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		06/27/24 22:07	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		06/27/24 22:07	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		06/27/24 22:07	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		06/27/24 22:07	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		06/27/24 22:07	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		06/27/24 22:07	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		06/27/24 22:07	2037-26-5	

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ANALYTICAL RESULTS

Project: JAKE HUGGIN'S
Pace Project No.: 92738733

Sample: MW-6		Lab ID: 92738733006		Collected: 06/24/24 10:50		Received: 06/26/24 09:51		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
Pace Analytical Services - Charlotte									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0073	1	07/01/24 08:38	07/01/24 14:07	106-93-4	M1,R1
Surrogates									
1-Chloro-2-bromopropane (S)	113	%	60-140		1	07/01/24 08:38	07/01/24 14:07	301-79-56	
8260 MSV									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	200	131	2		07/01/24 18:48	75-85-4	
tert-Amylmethyl ether	40.2	ug/L	20.0	6.1	2		07/01/24 18:48	994-05-8	
Benzene	17.3	ug/L	10.0	3.5	2		07/01/24 18:48	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	200	108	2		07/01/24 18:48	624-95-3	
tert-Butyl Alcohol	ND	ug/L	200	182	2		07/01/24 18:48	75-65-0	
tert-Butyl Formate	ND	ug/L	100	48.2	2		07/01/24 18:48	762-75-4	
1,2-Dichloroethane	ND	ug/L	10.0	4.1	2		07/01/24 18:48	107-06-2	
Diisopropyl ether	151	ug/L	10.0	7.0	2		07/01/24 18:48	108-20-3	
Ethanol	ND	ug/L	400	288	2		07/01/24 18:48	64-17-5	
Ethylbenzene	ND	ug/L	10.0	3.7	2		07/01/24 18:48	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	20.0	16.9	2		07/01/24 18:48	637-92-3	
Methyl-tert-butyl ether	241	ug/L	10.0	6.2	2		07/01/24 18:48	1634-04-4	
Naphthalene	11.2	ug/L	10.0	4.2	2		07/01/24 18:48	91-20-3	
Toluene	4.8J	ug/L	10.0	4.0	2		07/01/24 18:48	108-88-3	
Xylene (Total)	ND	ug/L	10.0	10.0	2		07/01/24 18:48	1330-20-7	
m&p-Xylene	ND	ug/L	20.0	8.2	2		07/01/24 18:48	179601-23-1	
o-Xylene	ND	ug/L	10.0	4.1	2		07/01/24 18:48	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		2		07/01/24 18:48	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		2		07/01/24 18:48	17060-07-0	
Toluene-d8 (S)	101	%	70-130		2		07/01/24 18:48	2037-26-5	

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ANALYTICAL RESULTS

Project: JAKE HUGGIN'S

Pace Project No.: 92738733

Sample: MW-7		Lab ID: 92738733007		Collected: 06/24/24 11:18		Received: 06/26/24 09:51		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
Pace Analytical Services - Charlotte									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0075	1	07/01/24 08:38	07/01/24 14:39	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	95	%	60-140		1	07/01/24 08:38	07/01/24 14:39	301-79-56	
8260 MSV									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		06/27/24 21:56	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		06/27/24 21:56	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		06/27/24 21:56	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		06/27/24 21:56	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		06/27/24 21:56	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		06/27/24 21:56	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		06/27/24 21:56	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		06/27/24 21:56	108-20-3	
Ethanol	ND	ug/L	200	144	1		06/27/24 21:56	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		06/27/24 21:56	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		06/27/24 21:56	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		06/27/24 21:56	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		06/27/24 21:56	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		06/27/24 21:56	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		06/27/24 21:56	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		06/27/24 21:56	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		06/27/24 21:56	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		06/27/24 21:56	460-00-4	
1,2-Dichloroethane-d4 (S)	86	%	70-130		1		06/27/24 21:56	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		06/27/24 21:56	2037-26-5	

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ANALYTICAL RESULTS

Project: JAKE HUGGIN'S

Pace Project No.: 92738733

Sample: MW-8		Lab ID: 92738733008		Collected: 06/24/24 12:25		Received: 06/26/24 09:51		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
Pace Analytical Services - Charlotte									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0074	1	07/01/24 08:38	07/01/24 14:50	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	102	%	60-140		1	07/01/24 08:38	07/01/24 14:50	301-79-56	
8260 MSV									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	20000	13100	200		06/27/24 23:29	75-85-4	
tert-Amylmethyl ether	ND	ug/L	2000	608	200		06/27/24 23:29	994-05-8	
Benzene	4760	ug/L	1000	348	200		06/27/24 23:29	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	20000	10800	200		06/27/24 23:29	624-95-3	
tert-Butyl Alcohol	ND	ug/L	20000	18200	200		06/27/24 23:29	75-65-0	
tert-Butyl Formate	ND	ug/L	10000	4820	200		06/27/24 23:29	762-75-4	
1,2-Dichloroethane	ND	ug/L	1000	412	200		06/27/24 23:29	107-06-2	
Diisopropyl ether	ND	ug/L	1000	698	200		06/27/24 23:29	108-20-3	
Ethanol	ND	ug/L	40000	28800	200		06/27/24 23:29	64-17-5	
Ethylbenzene	2570	ug/L	1000	368	200		06/27/24 23:29	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	2000	1690	200		06/27/24 23:29	637-92-3	
Methyl-tert-butyl ether	696J	ug/L	1000	620	200		06/27/24 23:29	1634-04-4	
Naphthalene	778J	ug/L	1000	418	200		06/27/24 23:29	91-20-3	
Toluene	25300	ug/L	1000	402	200		06/27/24 23:29	108-88-3	
Xylene (Total)	13400	ug/L	1000	1000	200		06/27/24 23:29	1330-20-7	
m&p-Xylene	8490	ug/L	2000	822	200		06/27/24 23:29	179601-23-1	
o-Xylene	4870	ug/L	1000	408	200		06/27/24 23:29	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		200		06/27/24 23:29	460-00-4	
1,2-Dichloroethane-d4 (S)	82	%	70-130		200		06/27/24 23:29	17060-07-0	
Toluene-d8 (S)	99	%	70-130		200		06/27/24 23:29	2037-26-5	

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ANALYTICAL RESULTS

Project: JAKE HUGGIN'S
Pace Project No.: 92738733

Sample: MW-9		Lab ID: 92738733009		Collected: 06/24/24 12:30		Received: 06/26/24 09:51		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP		Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0074	1	07/01/24 08:38	07/01/24 15:01	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	94	%	60-140		1	07/01/24 08:38	07/01/24 15:01	301-79-56	
8260 MSV		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		06/27/24 21:01	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		06/27/24 21:01	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		06/27/24 21:01	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		06/27/24 21:01	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		06/27/24 21:01	75-65-0	v3
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		06/27/24 21:01	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		06/27/24 21:01	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		06/27/24 21:01	108-20-3	
Ethanol	ND	ug/L	200	144	1		06/27/24 21:01	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		06/27/24 21:01	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		06/27/24 21:01	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		06/27/24 21:01	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		06/27/24 21:01	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		06/27/24 21:01	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		06/27/24 21:01	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		06/27/24 21:01	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		06/27/24 21:01	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		06/27/24 21:01	460-00-4	
1,2-Dichloroethane-d4 (S)	85	%	70-130		1		06/27/24 21:01	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		06/27/24 21:01	2037-26-5	

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ANALYTICAL RESULTS

Project: JAKE HUGGIN'S
Pace Project No.: 92738733

Sample: MW-10		Lab ID: 92738733010		Collected: 06/24/24 12:23		Received: 06/26/24 09:51		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP		Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0074	1	07/01/24 08:38	07/01/24 15:12	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	95	%	60-140		1	07/01/24 08:38	07/01/24 15:12	301-79-56	
8260 MSV		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	1350	ug/L	500	328	5		06/27/24 23:48	75-85-4	
tert-Amylmethyl ether	ND	ug/L	50.0	15.2	5		06/27/24 23:48	994-05-8	
Benzene	227	ug/L	25.0	8.7	5		06/27/24 23:48	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	500	270	5		06/27/24 23:48	624-95-3	
tert-Butyl Alcohol	ND	ug/L	500	455	5		06/27/24 23:48	75-65-0	
tert-Butyl Formate	ND	ug/L	250	120	5		06/27/24 23:48	762-75-4	
1,2-Dichloroethane	ND	ug/L	25.0	10.3	5		06/27/24 23:48	107-06-2	
Diisopropyl ether	75.3	ug/L	25.0	17.4	5		06/27/24 23:48	108-20-3	
Ethanol	ND	ug/L	1000	720	5		06/27/24 23:48	64-17-5	
Ethylbenzene	465	ug/L	25.0	9.2	5		06/27/24 23:48	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	50.0	42.3	5		06/27/24 23:48	637-92-3	
Methyl-tert-butyl ether	110	ug/L	25.0	15.5	5		06/27/24 23:48	1634-04-4	
Naphthalene	256	ug/L	25.0	10.4	5		06/27/24 23:48	91-20-3	
Toluene	66.5	ug/L	25.0	10.0	5		06/27/24 23:48	108-88-3	
Xylene (Total)	789	ug/L	25.0	25.0	5		06/27/24 23:48	1330-20-7	
m&p-Xylene	530	ug/L	50.0	20.6	5		06/27/24 23:48	179601-23-1	
o-Xylene	260	ug/L	25.0	10.2	5		06/27/24 23:48	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		5		06/27/24 23:48	460-00-4	
1,2-Dichloroethane-d4 (S)	82	%	70-130		5		06/27/24 23:48	17060-07-0	
Toluene-d8 (S)	100	%	70-130		5		06/27/24 23:48	2037-26-5	

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ANALYTICAL RESULTS

Project: JAKE HUGGIN'S
Pace Project No.: 92738733

Sample: DW-1		Lab ID: 92738733011		Collected: 06/24/24 13:05		Received: 06/26/24 09:51		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
Pace Analytical Services - Charlotte									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.0073	1	07/01/24 08:38	07/01/24 15:23	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	91	%	60-140		1	07/01/24 08:38	07/01/24 15:23	301-79-56	
8260 MSV									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		06/27/24 22:15	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		06/27/24 22:15	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		06/27/24 22:15	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		06/27/24 22:15	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		06/27/24 22:15	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		06/27/24 22:15	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		06/27/24 22:15	107-06-2	
Diisopropyl ether	22.0	ug/L	5.0	3.5	1		06/27/24 22:15	108-20-3	
Ethanol	ND	ug/L	200	144	1		06/27/24 22:15	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		06/27/24 22:15	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		06/27/24 22:15	637-92-3	
Methyl-tert-butyl ether	73.2	ug/L	5.0	3.1	1		06/27/24 22:15	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		06/27/24 22:15	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		06/27/24 22:15	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		06/27/24 22:15	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		06/27/24 22:15	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		06/27/24 22:15	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		1		06/27/24 22:15	460-00-4	
1,2-Dichloroethane-d4 (S)	86	%	70-130		1		06/27/24 22:15	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		06/27/24 22:15	2037-26-5	

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ANALYTICAL RESULTS

Project: JAKE HUGGIN'S

Pace Project No.: 92738733

Sample: DW-2		Lab ID: 92738733012		Collected: 06/24/24 13:23		Received: 06/26/24 09:51		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
Pace Analytical Services - Charlotte									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.0072	1	07/01/24 08:38	07/01/24 15:34	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	102	%	60-140		1	07/01/24 08:38	07/01/24 15:34	301-79-56	
8260 MSV									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		06/27/24 22:33	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		06/27/24 22:33	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		06/27/24 22:33	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		06/27/24 22:33	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		06/27/24 22:33	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		06/27/24 22:33	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		06/27/24 22:33	107-06-2	
Diisopropyl ether	3.8J	ug/L	5.0	3.5	1		06/27/24 22:33	108-20-3	
Ethanol	ND	ug/L	200	144	1		06/27/24 22:33	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		06/27/24 22:33	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		06/27/24 22:33	637-92-3	
Methyl-tert-butyl ether	24.0	ug/L	5.0	3.1	1		06/27/24 22:33	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		06/27/24 22:33	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		06/27/24 22:33	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		06/27/24 22:33	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		06/27/24 22:33	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		06/27/24 22:33	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		06/27/24 22:33	460-00-4	
1,2-Dichloroethane-d4 (S)	85	%	70-130		1		06/27/24 22:33	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		06/27/24 22:33	2037-26-5	

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ANALYTICAL RESULTS

Project: JAKE HUGGIN'S
Pace Project No.: 92738733

Sample: DW-3		Lab ID: 92738733013		Collected: 06/24/24 13:20		Received: 06/26/24 09:51		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
Pace Analytical Services - Charlotte									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0074	1	07/01/24 08:38	07/01/24 15:45	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	92	%	60-140		1	07/01/24 08:38	07/01/24 15:45	301-79-56	
8260 MSV									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		06/27/24 21:19	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		06/27/24 21:19	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		06/27/24 21:19	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		06/27/24 21:19	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		06/27/24 21:19	75-65-0	v2
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		06/27/24 21:19	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		06/27/24 21:19	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		06/27/24 21:19	108-20-3	
Ethanol	ND	ug/L	200	144	1		06/27/24 21:19	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		06/27/24 21:19	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		06/27/24 21:19	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		06/27/24 21:19	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		06/27/24 21:19	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		06/27/24 21:19	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		06/27/24 21:19	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		06/27/24 21:19	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		06/27/24 21:19	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		06/27/24 21:19	460-00-4	
1,2-Dichloroethane-d4 (S)	84	%	70-130		1		06/27/24 21:19	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		06/27/24 21:19	2037-26-5	

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ANALYTICAL RESULTS

Project: JAKE HUGGIN'S

Pace Project No.: 92738733

Sample: DW-4		Lab ID: 92738733014		Collected: 06/24/24 13:27		Received: 06/26/24 09:51		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
Pace Analytical Services - Charlotte									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0074	1	07/01/24 08:38	07/01/24 15:55	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	96	%	60-140		1	07/01/24 08:38	07/01/24 15:55	301-79-56	
8260 MSV									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		07/01/24 18:30	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		07/01/24 18:30	994-05-8	
Benzene	6.0	ug/L	5.0	1.7	1		07/01/24 18:30	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		07/01/24 18:30	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		07/01/24 18:30	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		07/01/24 18:30	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		07/01/24 18:30	107-06-2	
Diisopropyl ether	5.0J	ug/L	5.0	3.5	1		07/01/24 18:30	108-20-3	
Ethanol	ND	ug/L	200	144	1		07/01/24 18:30	64-17-5	
Ethylbenzene	3.5J	ug/L	5.0	1.8	1		07/01/24 18:30	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		07/01/24 18:30	637-92-3	
Methyl-tert-butyl ether	11.5	ug/L	5.0	3.1	1		07/01/24 18:30	1634-04-4	
Naphthalene	3.8J	ug/L	5.0	2.1	1		07/01/24 18:30	91-20-3	C8
Toluene	30.8	ug/L	5.0	2.0	1		07/01/24 18:30	108-88-3	
Xylene (Total)	24.4	ug/L	5.0	5.0	1		07/01/24 18:30	1330-20-7	
m&p-Xylene	15.5	ug/L	10.0	4.1	1		07/01/24 18:30	179601-23-1	
o-Xylene	8.9	ug/L	5.0	2.0	1		07/01/24 18:30	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		07/01/24 18:30	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		07/01/24 18:30	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		07/01/24 18:30	2037-26-5	

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ANALYTICAL RESULTS

Project: JAKE HUGGIN'S
Pace Project No.: 92738733

Sample: SW-1 Lab ID: 92738733015 Collected: 06/24/24 12:45 Received: 06/26/24 09:51 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0075	1	07/01/24 08:38	07/01/24 16:06	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	134	%	60-140		1	07/01/24 08:38	07/01/24 16:06	301-79-56	
8260 MSV Low Level SC Analytical Method: EPA 8260D Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		07/01/24 21:16	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		07/01/24 21:16	994-05-8	
Benzene	ND	ug/L	1.0	0.34	1		07/01/24 21:16	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		07/01/24 21:16	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		07/01/24 21:16	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		07/01/24 21:16	762-75-4	P5
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		07/01/24 21:16	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		07/01/24 21:16	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		07/01/24 21:16	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		07/01/24 21:16	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		07/01/24 21:16	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.42	1		07/01/24 21:16	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		07/01/24 21:16	91-20-3	
Toluene	ND	ug/L	1.0	0.48	1		07/01/24 21:16	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.34	1		07/01/24 21:16	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.71	1		07/01/24 21:16	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.34	1		07/01/24 21:16	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		07/01/24 21:16	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		07/01/24 21:16	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		07/01/24 21:16	2037-26-5	

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ANALYTICAL RESULTS

Project: JAKE HUGGIN'S

Pace Project No.: 92738733

Sample: SW-2		Lab ID: 92738733016		Collected: 06/24/24 12:48		Received: 06/26/24 09:51		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP		Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0074	1	07/01/24 08:38	07/01/24 16:17	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	90	%	60-140		1	07/01/24 08:38	07/01/24 16:17	301-79-56	
8260 MSV Low Level SC		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		07/01/24 21:34	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		07/01/24 21:34	994-05-8	
Benzene	ND	ug/L	1.0	0.34	1		07/01/24 21:34	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		07/01/24 21:34	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		07/01/24 21:34	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		07/01/24 21:34	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		07/01/24 21:34	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		07/01/24 21:34	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		07/01/24 21:34	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		07/01/24 21:34	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		07/01/24 21:34	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.42	1		07/01/24 21:34	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		07/01/24 21:34	91-20-3	
Toluene	ND	ug/L	1.0	0.48	1		07/01/24 21:34	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.34	1		07/01/24 21:34	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.71	1		07/01/24 21:34	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.34	1		07/01/24 21:34	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		07/01/24 21:34	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		07/01/24 21:34	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		07/01/24 21:34	2037-26-5	

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ANALYTICAL RESULTS

Project: JAKE HUGGIN'S
Pace Project No.: 92738733

Sample: DUP-1		Lab ID: 92738733017		Collected: 06/24/24 00:00		Received: 06/26/24 09:51		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
Pace Analytical Services - Charlotte									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0073	1	07/01/24 08:38	07/01/24 16:28	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	113	%	60-140		1	07/01/24 08:38	07/01/24 16:28	301-79-56	
8260 MSV									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	20000	13100	200		07/01/24 19:07	75-85-4	
tert-Amylmethyl ether	ND	ug/L	2000	608	200		07/01/24 19:07	994-05-8	
Benzene	4520	ug/L	1000	348	200		07/01/24 19:07	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	20000	10800	200		07/01/24 19:07	624-95-3	
tert-Butyl Alcohol	ND	ug/L	20000	18200	200		07/01/24 19:07	75-65-0	
tert-Butyl Formate	ND	ug/L	10000	4820	200		07/01/24 19:07	762-75-4	
1,2-Dichloroethane	ND	ug/L	1000	412	200		07/01/24 19:07	107-06-2	
Diisopropyl ether	ND	ug/L	1000	698	200		07/01/24 19:07	108-20-3	
Ethanol	ND	ug/L	40000	28800	200		07/01/24 19:07	64-17-5	
Ethylbenzene	2650	ug/L	1000	368	200		07/01/24 19:07	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	2000	1690	200		07/01/24 19:07	637-92-3	
Methyl-tert-butyl ether	740J	ug/L	1000	620	200		07/01/24 19:07	1634-04-4	
Naphthalene	891J	ug/L	1000	418	200		07/01/24 19:07	91-20-3	
Toluene	22800	ug/L	1000	402	200		07/01/24 19:07	108-88-3	
Xylene (Total)	12900	ug/L	1000	1000	200		07/01/24 19:07	1330-20-7	
m&p-Xylene	8160	ug/L	2000	822	200		07/01/24 19:07	179601-23-1	
o-Xylene	4710	ug/L	1000	408	200		07/01/24 19:07	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		200		07/01/24 19:07	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130		200		07/01/24 19:07	17060-07-0	
Toluene-d8 (S)	100	%	70-130		200		07/01/24 19:07	2037-26-5	

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ANALYTICAL RESULTS

Project: JAKE HUGGIN'S

Pace Project No.: 92738733

Sample: FB		Lab ID: 92738733018		Collected: 06/24/24 13:30		Received: 06/26/24 09:51		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP		Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0074	1	07/01/24 08:38	07/01/24 16:39	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	100	%	60-140		1	07/01/24 08:38	07/01/24 16:39	301-79-56	
8260 MSV		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		06/27/24 20:23	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		06/27/24 20:23	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		06/27/24 20:23	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		06/27/24 20:23	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		06/27/24 20:23	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		06/27/24 20:23	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		06/27/24 20:23	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		06/27/24 20:23	108-20-3	
Ethanol	ND	ug/L	200	144	1		06/27/24 20:23	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		06/27/24 20:23	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		06/27/24 20:23	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		06/27/24 20:23	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		06/27/24 20:23	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		06/27/24 20:23	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		06/27/24 20:23	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		06/27/24 20:23	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		06/27/24 20:23	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		06/27/24 20:23	460-00-4	
1,2-Dichloroethane-d4 (S)	85	%	70-130		1		06/27/24 20:23	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		06/27/24 20:23	2037-26-5	

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ANALYTICAL RESULTS

Project: JAKE HUGGIN'S

Pace Project No.: 92738733

Sample: GAC Lab ID: 92738733019 Collected: 06/24/24 13:32 Received: 06/26/24 09:51 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0075	1	07/01/24 08:38	07/01/24 16:50	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	96	%	60-140		1	07/01/24 08:38	07/01/24 16:50	301-79-56	
8260 MSV Analytical Method: EPA 8260D Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		06/27/24 21:38	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		06/27/24 21:38	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		06/27/24 21:38	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		06/27/24 21:38	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		06/27/24 21:38	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		06/27/24 21:38	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		06/27/24 21:38	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		06/27/24 21:38	108-20-3	
Ethanol	ND	ug/L	200	144	1		06/27/24 21:38	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		06/27/24 21:38	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		06/27/24 21:38	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		06/27/24 21:38	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		06/27/24 21:38	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		06/27/24 21:38	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		06/27/24 21:38	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		06/27/24 21:38	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		06/27/24 21:38	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		1		06/27/24 21:38	460-00-4	
1,2-Dichloroethane-d4 (S)	85	%	70-130		1		06/27/24 21:38	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		06/27/24 21:38	2037-26-5	

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ANALYTICAL RESULTS

Project: JAKE HUGGIN'S

Pace Project No.: 92738733

Sample: TB		Lab ID: 92738733020		Collected: 06/24/24 08:00		Received: 06/26/24 09:51		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		06/27/24 20:42	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		06/27/24 20:42	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		06/27/24 20:42	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		06/27/24 20:42	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		06/27/24 20:42	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		06/27/24 20:42	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		06/27/24 20:42	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		06/27/24 20:42	108-20-3	
Ethanol	ND	ug/L	200	144	1		06/27/24 20:42	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		06/27/24 20:42	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		06/27/24 20:42	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		06/27/24 20:42	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		06/27/24 20:42	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		06/27/24 20:42	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		06/27/24 20:42	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		06/27/24 20:42	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		06/27/24 20:42	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		06/27/24 20:42	460-00-4	
1,2-Dichloroethane-d4 (S)	86	%	70-130		1		06/27/24 20:42	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		06/27/24 20:42	2037-26-5	

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ANALYTICAL RESULTS

Project: JAKE HUGGIN'S
Pace Project No.: 92738733

Sample: WSW-1 Lab ID: 92738733021 Collected: 06/24/24 13:10 Received: 06/26/24 09:51 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
504 GCS EDB and DBCP									
Analytical Method: EPA 504.1 Preparation Method: EPA 504.1									
Pace Analytical Services - Charlotte									
1,2-Dibromoethane (EDB)	ND	ug/L	0.021	0.0060	1	07/01/24 14:23	07/01/24 23:30	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	110	%	70-130		1	07/01/24 14:23	07/01/24 23:30	301-79-56	
524.2 MSV SC List									
Analytical Method: EPA 524.2									
Pace Analytical Services - Charlotte									
Benzene	ND	ug/L	0.50	0.21	1		07/02/24 20:11	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.16	1		07/02/24 20:11	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.22	1		07/02/24 20:11	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.14	1		07/02/24 20:11	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.35	1		07/02/24 20:11	91-20-3	
Toluene	0.48J	ug/L	0.50	0.20	1		07/02/24 20:11	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.22	1		07/02/24 20:11	1330-20-7	
m&p-Xylene	ND	ug/L	1.0	0.39	1		07/02/24 20:11	179601-23-1	
o-Xylene	ND	ug/L	0.50	0.22	1		07/02/24 20:11	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	91	%	70-130		1		07/02/24 20:11	2199-69-1	
4-Bromofluorobenzene (S)	92	%	70-130		1		07/02/24 20:11	460-00-4	
8260 MSV Low Level SC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		07/01/24 21:53	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		07/01/24 21:53	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		07/01/24 21:53	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		07/01/24 21:53	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		07/01/24 21:53	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		07/01/24 21:53	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		07/01/24 21:53	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		07/01/24 21:53	637-92-3	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		07/01/24 21:53	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		07/01/24 21:53	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		07/01/24 21:53	2037-26-5	

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ANALYTICAL RESULTS

Project: JAKE HUGGIN'S

Pace Project No.: 92738733

Sample: WSW-2		Lab ID: 92738733022		Collected: 06/24/24 13:00		Received: 06/26/24 09:51		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
504 GCS EDB and DBCP		Analytical Method: EPA 504.1 Preparation Method: EPA 504.1 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.022	0.0061	1	07/01/24 14:23	07/02/24 00:02	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	105	%	70-130		1	07/01/24 14:23	07/02/24 00:02	301-79-56	
524.2 MSV SC List		Analytical Method: EPA 524.2 Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	0.21	1		07/02/24 19:45	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.16	1		07/02/24 19:45	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.22	1		07/02/24 19:45	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.14	1		07/02/24 19:45	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.35	1		07/02/24 19:45	91-20-3	
Toluene	0.63	ug/L	0.50	0.20	1		07/02/24 19:45	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.22	1		07/02/24 19:45	1330-20-7	
m&p-Xylene	ND	ug/L	1.0	0.39	1		07/02/24 19:45	179601-23-1	
o-Xylene	ND	ug/L	0.50	0.22	1		07/02/24 19:45	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	115	%	70-130		1		07/02/24 19:45	2199-69-1	
4-Bromofluorobenzene (S)	113	%	70-130		1		07/02/24 19:45	460-00-4	
8260 MSV Low Level SC		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		07/01/24 22:11	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		07/01/24 22:11	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		07/01/24 22:11	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		07/01/24 22:11	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		07/01/24 22:11	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		07/01/24 22:11	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		07/01/24 22:11	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		07/01/24 22:11	637-92-3	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		07/01/24 22:11	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		07/01/24 22:11	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		07/01/24 22:11	2037-26-5	

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ANALYTICAL RESULTS

Project: JAKE HUGGIN'S
Pace Project No.: 92738733

Sample: WSW-DUP Lab ID: 92738733023 Collected: 06/24/24 00:00 Received: 06/26/24 09:51 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
504 GCS EDB and DBCP Analytical Method: EPA 504.1 Preparation Method: EPA 504.1 Pace Analytical Services - Charlotte									
1,2-Dibromoethane (EDB)	ND	ug/L	0.021	0.0059	1	07/01/24 14:23	07/02/24 00:24	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	97	%	70-130		1	07/01/24 14:23	07/02/24 00:24	301-79-56	
524.2 MSV SC List Analytical Method: EPA 524.2 Pace Analytical Services - Charlotte									
Benzene	ND	ug/L	0.50	0.21	1		07/02/24 19:19	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.16	1		07/02/24 19:19	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.22	1		07/02/24 19:19	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.14	1		07/02/24 19:19	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.35	1		07/02/24 19:19	91-20-3	
Toluene	0.50J	ug/L	0.50	0.20	1		07/02/24 19:19	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.22	1		07/02/24 19:19	1330-20-7	
m&p-Xylene	ND	ug/L	1.0	0.39	1		07/02/24 19:19	179601-23-1	
o-Xylene	ND	ug/L	0.50	0.22	1		07/02/24 19:19	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	116	%	70-130		1		07/02/24 19:19	2199-69-1	
4-Bromofluorobenzene (S)	113	%	70-130		1		07/02/24 19:19	460-00-4	
8260 MSV Low Level SC Analytical Method: EPA 8260D Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		07/01/24 22:29	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		07/01/24 22:29	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		07/01/24 22:29	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		07/01/24 22:29	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		07/01/24 22:29	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		07/01/24 22:29	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		07/01/24 22:29	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		07/01/24 22:29	637-92-3	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		07/01/24 22:29	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		07/01/24 22:29	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		07/01/24 22:29	2037-26-5	

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ANALYTICAL RESULTS

Project: JAKE HUGGIN'S
Pace Project No.: 92738733

Sample: WSW-FB		Lab ID: 92738733024		Collected: 06/24/24 13:15		Received: 06/26/24 09:51		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
504 GCS EDB and DBCP		Analytical Method: EPA 504.1 Preparation Method: EPA 504.1 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.022	0.0061	1	07/01/24 14:23	07/02/24 00:34	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	98	%	70-130		1	07/01/24 14:23	07/02/24 00:34	301-79-56	
524.2 MSV SC List		Analytical Method: EPA 524.2 Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	0.21	1		07/02/24 14:58	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.16	1		07/02/24 14:58	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.22	1		07/02/24 14:58	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.14	1		07/02/24 14:58	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.35	1		07/02/24 14:58	91-20-3	
Toluene	0.56	ug/L	0.50	0.20	1		07/02/24 14:58	108-88-3	C0
Xylene (Total)	ND	ug/L	0.50	0.22	1		07/02/24 14:58	1330-20-7	
m&p-Xylene	ND	ug/L	1.0	0.39	1		07/02/24 14:58	179601-23-1	
o-Xylene	ND	ug/L	0.50	0.22	1		07/02/24 14:58	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	96	%	70-130		1		07/02/24 14:58	2199-69-1	
4-Bromofluorobenzene (S)	97	%	70-130		1		07/02/24 14:58	460-00-4	
8260 MSV Low Level SC		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		07/01/24 20:39	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		07/01/24 20:39	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		07/01/24 20:39	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		07/01/24 20:39	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		07/01/24 20:39	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		07/01/24 20:39	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		07/01/24 20:39	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		07/01/24 20:39	637-92-3	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		07/01/24 20:39	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		07/01/24 20:39	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		07/01/24 20:39	2037-26-5	

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ANALYTICAL RESULTS

Project: JAKE HUGGIN'S

Pace Project No.: 92738733

Sample: WSW-TB		Lab ID: 92738733025		Collected: 06/24/24 08:00		Received: 06/26/24 09:51		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV SC List									
Analytical Method: EPA 524.2									
Pace Analytical Services - Charlotte									
Benzene	ND	ug/L	0.50	0.21	1		07/02/24 14:31	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.16	1		07/02/24 14:31	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.22	1		07/02/24 14:31	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.14	1		07/02/24 14:31	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.35	1		07/02/24 14:31	91-20-3	
Toluene	0.59	ug/L	0.50	0.20	1		07/02/24 14:31	108-88-3	C0
Xylene (Total)	ND	ug/L	0.50	0.22	1		07/02/24 14:31	1330-20-7	
m&p-Xylene	ND	ug/L	1.0	0.39	1		07/02/24 14:31	179601-23-1	
o-Xylene	ND	ug/L	0.50	0.22	1		07/02/24 14:31	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	96	%	70-130		1		07/02/24 14:31	2199-69-1	
4-Bromofluorobenzene (S)	97	%	70-130		1		07/02/24 14:31	460-00-4	
8260 MSV Low Level SC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		07/01/24 20:58	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		07/01/24 20:58	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		07/01/24 20:58	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		07/01/24 20:58	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		07/01/24 20:58	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		07/01/24 20:58	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		07/01/24 20:58	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		07/01/24 20:58	637-92-3	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		07/01/24 20:58	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		07/01/24 20:58	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		07/01/24 20:58	2037-26-5	

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QUALITY CONTROL DATA

Project: JAKE HUGGIN'S
Pace Project No.: 92738733

QC Batch: 865630 Analysis Method: EPA 524.2
QC Batch Method: EPA 524.2 Analysis Description: 524.2 MSV
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92738733021, 92738733022, 92738733023, 92738733024, 92738733025

METHOD BLANK: 4462353 Matrix: Water
Associated Lab Samples: 92738733021, 92738733022, 92738733023, 92738733024, 92738733025

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	0.50	0.16	07/02/24 14:05	
Benzene	ug/L	ND	0.50	0.21	07/02/24 14:05	
Ethylbenzene	ug/L	ND	0.50	0.22	07/02/24 14:05	
m&p-Xylene	ug/L	ND	1.0	0.39	07/02/24 14:05	
Methyl-tert-butyl ether	ug/L	ND	0.50	0.14	07/02/24 14:05	
Naphthalene	ug/L	ND	0.50	0.35	07/02/24 14:05	
o-Xylene	ug/L	ND	0.50	0.22	07/02/24 14:05	
Toluene	ug/L	ND	0.50	0.20	07/02/24 14:05	
Xylene (Total)	ug/L	ND	0.50	0.22	07/02/24 14:05	
1,2-Dichlorobenzene-d4 (S)	%	105	70-130		07/02/24 14:05	
4-Bromofluorobenzene (S)	%	117	70-130		07/02/24 14:05	

LABORATORY CONTROL SAMPLE: 4462354

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	20	23.9	120	70-130	
Benzene	ug/L	20	23.2	116	70-130	
Ethylbenzene	ug/L	20	23.8	119	70-130	
m&p-Xylene	ug/L	40	47.8	120	70-130	
Methyl-tert-butyl ether	ug/L	20	22.1	110	70-130	
Naphthalene	ug/L	20	20.2	101	70-130	
o-Xylene	ug/L	20	24.3	122	70-130	
Toluene	ug/L	20	22.2	111	70-130	
Xylene (Total)	ug/L	60	72.2	120		
1,2-Dichlorobenzene-d4 (S)	%			102	70-130	
4-Bromofluorobenzene (S)	%			105	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: JAKE HUGGIN'S

Pace Project No.: 92738733

QC Batch:	864846	Analysis Method:	EPA 8260D
QC Batch Method:	EPA 8260D	Analysis Description:	8260 MSV Low Level SC
		Laboratory:	Pace Analytical Services - Charlotte

Associated Lab Samples: 92738733015, 92738733016, 92738733021, 92738733022, 92738733023, 92738733024, 92738733025

METHOD BLANK: 4458765

Matrix: Water

Associated Lab Samples: 92738733015, 92738733016, 92738733021, 92738733022, 92738733023, 92738733024, 92738733025

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	1.0	0.32	07/01/24 14:30	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	51.9	07/01/24 14:30	
Benzene	ug/L	ND	1.0	0.34	07/01/24 14:30	
Diisopropyl ether	ug/L	ND	1.0	0.31	07/01/24 14:30	
Ethanol	ug/L	ND	200	72.2	07/01/24 14:30	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.2	07/01/24 14:30	
Ethylbenzene	ug/L	ND	1.0	0.30	07/01/24 14:30	
m&p-Xylene	ug/L	ND	2.0	0.71	07/01/24 14:30	
Methyl-tert-butyl ether	ug/L	ND	1.0	0.42	07/01/24 14:30	
Naphthalene	ug/L	ND	1.0	0.64	07/01/24 14:30	
o-Xylene	ug/L	ND	1.0	0.34	07/01/24 14:30	
tert-Amyl Alcohol	ug/L	ND	100	36.4	07/01/24 14:30	
tert-Amylmethyl ether	ug/L	ND	10.0	2.7	07/01/24 14:30	
tert-Butyl Alcohol	ug/L	ND	100	26.8	07/01/24 14:30	
tert-Butyl Formate	ug/L	ND	50.0	29.4	07/01/24 14:30	
Toluene	ug/L	ND	1.0	0.48	07/01/24 14:30	
Xylene (Total)	ug/L	ND	1.0	0.34	07/01/24 14:30	
1,2-Dichloroethane-d4 (S)	%	103	70-130		07/01/24 14:30	
4-Bromofluorobenzene (S)	%	101	70-130		07/01/24 14:30	
Toluene-d8 (S)	%	99	70-130		07/01/24 14:30	

LABORATORY CONTROL SAMPLE: 4458766

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	20	19.9	99	70-130	
3,3-Dimethyl-1-Butanol	ug/L	400	427	107	70-130	
Benzene	ug/L	20	19.4	97	70-130	
Diisopropyl ether	ug/L	20	19.3	96	70-130	
Ethanol	ug/L	800	977	122	70-130	
Ethyl-tert-butyl ether	ug/L	40	40.0	100	70-130	
Ethylbenzene	ug/L	20	21.5	108	70-130	
m&p-Xylene	ug/L	40	43.1	108	70-130	
Methyl-tert-butyl ether	ug/L	20	19.6	98	70-130	
Naphthalene	ug/L	20	20.9	105	70-130	
o-Xylene	ug/L	20	21.1	105	70-130	
tert-Amyl Alcohol	ug/L	400	415	104	70-130	
tert-Amylmethyl ether	ug/L	40	41.0	103	70-130	
tert-Butyl Alcohol	ug/L	200	202	101	70-130	
tert-Butyl Formate	ug/L	160	175	109	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: JAKE HUGGIN'S
Pace Project No.: 92738733

LABORATORY CONTROL SAMPLE: 4458766

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene	ug/L	20	20.2	101	70-130	
Xylene (Total)	ug/L	60	64.1	107	70-130	
1,2-Dichloroethane-d4 (S)	%			95	70-130	
4-Bromofluorobenzene (S)	%			103	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE SAMPLE: 4458767

Parameter	Units	92738733015 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	20	22.1	111	70-137	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	427	107	39-157	
Benzene	ug/L	ND	20	24.4	122	70-151	
Diisopropyl ether	ug/L	ND	20	22.7	112	63-144	
Ethanol	ug/L	ND	800	971	121	39-176	
Ethyl-tert-butyl ether	ug/L	ND	40	44.8	112	66-137	
Ethylbenzene	ug/L	ND	20	24.6	123	66-153	
m&p-Xylene	ug/L	ND	40	52.4	131	69-152	
Methyl-tert-butyl ether	ug/L	ND	20	23.0	115	54-156	
Naphthalene	ug/L	ND	20	26.9	134	61-148	
o-Xylene	ug/L	ND	20	25.9	130	70-148	
tert-Amyl Alcohol	ug/L	ND	400	432	108	54-153	
tert-Amylmethyl ether	ug/L	ND	40	44.3	111	69-139	
tert-Butyl Alcohol	ug/L	ND	200	307	154	43-188	
tert-Butyl Formate	ug/L	ND	160	ND	8	10-170	P5
Toluene	ug/L	ND	20	26.8	133	59-148	
Xylene (Total)	ug/L	ND	60	78.3	131	63-158	
1,2-Dichloroethane-d4 (S)	%				100	70-130	
4-Bromofluorobenzene (S)	%				101	70-130	
Toluene-d8 (S)	%				99	70-130	

SAMPLE DUPLICATE: 4458768

Parameter	Units	92738733016 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane	ug/L	ND	ND		30	
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
m&p-Xylene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30	
o-Xylene	ug/L	ND	ND		30	

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QUALITY CONTROL DATA

Project: JAKE HUGGIN'S

Pace Project No.: 92738733

SAMPLE DUPLICATE: 4458768

Parameter	Units	92738733016 Result	Dup Result	RPD	Max RPD	Qualifiers
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	ND	ND		30	
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	103	98			
4-Bromofluorobenzene (S)	%	102	103			
Toluene-d8 (S)	%	100	100			

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QUALITY CONTROL DATA

Project: JAKE HUGGIN'S
Pace Project No.: 92738733

QC Batch: 864608 Analysis Method: EPA 8260D
QC Batch Method: EPA 8260D Analysis Description: 8260 MSV SC
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92738733003, 92738733004, 92738733005

METHOD BLANK: 4457469 Matrix: Water

Associated Lab Samples: 92738733003, 92738733004, 92738733005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	2.1	06/27/24 13:06	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	53.9	06/27/24 13:06	
Benzene	ug/L	ND	5.0	1.7	06/27/24 13:06	
Diisopropyl ether	ug/L	ND	5.0	3.5	06/27/24 13:06	
Ethanol	ug/L	ND	200	144	06/27/24 13:06	
Ethyl-tert-butyl ether	ug/L	ND	10.0	8.5	06/27/24 13:06	
Ethylbenzene	ug/L	ND	5.0	1.8	06/27/24 13:06	
m&p-Xylene	ug/L	ND	10.0	4.1	06/27/24 13:06	
Methyl-tert-butyl ether	ug/L	ND	5.0	3.1	06/27/24 13:06	
Naphthalene	ug/L	ND	5.0	2.1	06/27/24 13:06	
o-Xylene	ug/L	ND	5.0	2.0	06/27/24 13:06	
tert-Amyl Alcohol	ug/L	ND	100	65.6	06/27/24 13:06	
tert-Amylmethyl ether	ug/L	ND	10.0	3.0	06/27/24 13:06	
tert-Butyl Alcohol	ug/L	ND	100	91.0	06/27/24 13:06	
tert-Butyl Formate	ug/L	ND	50.0	24.1	06/27/24 13:06	
Toluene	ug/L	ND	5.0	2.0	06/27/24 13:06	
Xylene (Total)	ug/L	ND	5.0	5.0	06/27/24 13:06	
1,2-Dichloroethane-d4 (S)	%	95	70-130		06/27/24 13:06	
4-Bromofluorobenzene (S)	%	104	70-130		06/27/24 13:06	
Toluene-d8 (S)	%	85	70-130		06/27/24 13:06	

LABORATORY CONTROL SAMPLE: 4457470

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	20	20.9	104	70-130	
3,3-Dimethyl-1-Butanol	ug/L	400	409	102	70-130	
Benzene	ug/L	20	21.8	109	70-130	
Diisopropyl ether	ug/L	20	20.5	102	70-130	
Ethanol	ug/L	800	765	96	70-130	
Ethyl-tert-butyl ether	ug/L	40	39.7	99	70-130	
Ethylbenzene	ug/L	20	21.7	108	70-130	
m&p-Xylene	ug/L	40	43.3	108	70-130	
Methyl-tert-butyl ether	ug/L	20	19.9	99	70-130	
Naphthalene	ug/L	20	16.8	84	70-130	
o-Xylene	ug/L	20	22.1	111	70-130	
tert-Amyl Alcohol	ug/L	400	397	99	70-130	
tert-Amylmethyl ether	ug/L	40	42.0	105	70-130	
tert-Butyl Alcohol	ug/L	200	193	96	70-130	
tert-Butyl Formate	ug/L	160	173	108	70-130	

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QUALITY CONTROL DATA

Project: JAKE HUGGIN'S
Pace Project No.: 92738733

LABORATORY CONTROL SAMPLE: 4457470

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene	ug/L	20	22.1	111	70-130	
Xylene (Total)	ug/L	60	65.4	109	70-130	
1,2-Dichloroethane-d4 (S)	%			91	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE SAMPLE: 4457471

Parameter	Units	92738733003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	20	18.4	92	70-137	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	446	112	39-157	
Benzene	ug/L	ND	20	20.2	101	70-151	
Diisopropyl ether	ug/L	ND	20	17.9	90	63-144	
Ethanol	ug/L	ND	800	789	99	39-176	
Ethyl-tert-butyl ether	ug/L	ND	40	36.8	92	66-137	
Ethylbenzene	ug/L	ND	20	21.4	107	66-153	
m&p-Xylene	ug/L	ND	40	44.0	110	69-152	
Methyl-tert-butyl ether	ug/L	ND	20	18.4	92	54-156	
Naphthalene	ug/L	ND	20	22.5	112	61-148	
o-Xylene	ug/L	ND	20	21.8	109	70-148	
tert-Amyl Alcohol	ug/L	ND	400	456	114	54-153	
tert-Amylmethyl ether	ug/L	ND	40	40.1	100	69-139	
tert-Butyl Alcohol	ug/L	ND	200	275	138	43-188 v3	
tert-Butyl Formate	ug/L	ND	160	ND	10	10-170 v3	
Toluene	ug/L	ND	20	19.5	98	59-148	
Xylene (Total)	ug/L	ND	60	65.8	110	63-158	
1,2-Dichloroethane-d4 (S)	%				90	70-130	
4-Bromofluorobenzene (S)	%				102	70-130	
Toluene-d8 (S)	%				94	70-130	

SAMPLE DUPLICATE: 4457472

Parameter	Units	92738733004 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane	ug/L	ND	ND		30	
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
m&p-Xylene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30	
o-Xylene	ug/L	ND	ND		30	

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QUALITY CONTROL DATA

Project: JAKE HUGGIN'S

Pace Project No.: 92738733

SAMPLE DUPLICATE: 4457472

Parameter	Units	92738733004 Result	Dup Result	RPD	Max RPD	Qualifiers
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	ND	ND		30	
tert-Butyl Alcohol	ug/L	ND	ND		30 v2	
tert-Butyl Formate	ug/L	ND	ND		30 v2	
Toluene	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	97	92			
4-Bromofluorobenzene (S)	%	99	98			
Toluene-d8 (S)	%	101	100			

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QUALITY CONTROL DATA

Project: JAKE HUGGIN'S
Pace Project No.: 92738733

QC Batch:	864609	Analysis Method:	EPA 8260D
QC Batch Method:	EPA 8260D	Analysis Description:	8260 MSV SC
		Laboratory:	Pace Analytical Services - Charlotte
Associated Lab Samples:	92738733007, 92738733008, 92738733009, 92738733010, 92738733011, 92738733012, 92738733013, 92738733018, 92738733019, 92738733020		

METHOD BLANK: 4457475 Matrix: Water
Associated Lab Samples: 92738733007, 92738733008, 92738733009, 92738733010, 92738733011, 92738733012, 92738733013, 92738733018, 92738733019, 92738733020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	2.1	06/27/24 14:48	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	53.9	06/27/24 14:48	
Benzene	ug/L	ND	5.0	1.7	06/27/24 14:48	
Diisopropyl ether	ug/L	ND	5.0	3.5	06/27/24 14:48	
Ethanol	ug/L	ND	200	144	06/27/24 14:48	
Ethyl-tert-butyl ether	ug/L	ND	10.0	8.5	06/27/24 14:48	
Ethylbenzene	ug/L	ND	5.0	1.8	06/27/24 14:48	
m&p-Xylene	ug/L	ND	10.0	4.1	06/27/24 14:48	
Methyl-tert-butyl ether	ug/L	ND	5.0	3.1	06/27/24 14:48	
Naphthalene	ug/L	ND	5.0	2.1	06/27/24 14:48	
o-Xylene	ug/L	ND	5.0	2.0	06/27/24 14:48	
tert-Amyl Alcohol	ug/L	ND	100	65.6	06/27/24 14:48	
tert-Amylmethyl ether	ug/L	ND	10.0	3.0	06/27/24 14:48	
tert-Butyl Alcohol	ug/L	ND	100	91.0	06/27/24 14:48	
tert-Butyl Formate	ug/L	ND	50.0	24.1	06/27/24 14:48	
Toluene	ug/L	ND	5.0	2.0	06/27/24 14:48	
Xylene (Total)	ug/L	ND	5.0	5.0	06/27/24 14:48	
1,2-Dichloroethane-d4 (S)	%	85	70-130		06/27/24 14:48	
4-Bromofluorobenzene (S)	%	95	70-130		06/27/24 14:48	
Toluene-d8 (S)	%	100	70-130		06/27/24 14:48	

LABORATORY CONTROL SAMPLE: 4457476

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	20	16.7	83	70-130	
3,3-Dimethyl-1-Butanol	ug/L	400	426	106	70-130	
Benzene	ug/L	20	20.7	104	70-130	
Diisopropyl ether	ug/L	20	20.3	102	70-130	
Ethanol	ug/L	800	707	88	70-130	
Ethyl-tert-butyl ether	ug/L	40	38.6	96	70-130	
Ethylbenzene	ug/L	20	19.9	99	70-130	
m&p-Xylene	ug/L	40	40.1	100	70-130	
Methyl-tert-butyl ether	ug/L	20	19.1	96	70-130	
Naphthalene	ug/L	20	22.5	112	70-130	
o-Xylene	ug/L	20	20.9	105	70-130	
tert-Amyl Alcohol	ug/L	400	399	100	70-130	
tert-Amylmethyl ether	ug/L	40	37.9	95	70-130	

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QUALITY CONTROL DATA

Project: JAKE HUGGIN'S

Pace Project No.: 92738733

LABORATORY CONTROL SAMPLE: 4457476

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butyl Alcohol	ug/L	200	176	88	70-130	
tert-Butyl Formate	ug/L	160	141	88	70-130	
Toluene	ug/L	20	19.9	99	70-130	
Xylene (Total)	ug/L	60	61.0	102	70-130	
1,2-Dichloroethane-d4 (S)	%			84	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE SAMPLE: 4457477

Parameter	Units	92738733009 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	20	21.8	109	70-137	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	559	140	39-157	
Benzene	ug/L	ND	20	27.7	138	70-151	
Diisopropyl ether	ug/L	ND	20	27.0	135	63-144	
Ethanol	ug/L	ND	800	929	116	39-176	
Ethyl-tert-butyl ether	ug/L	ND	40	50.7	127	66-137	
Ethylbenzene	ug/L	ND	20	26.3	131	66-153	
m&p-Xylene	ug/L	ND	40	52.7	132	69-152	
Methyl-tert-butyl ether	ug/L	ND	20	25.2	126	54-156	
Naphthalene	ug/L	ND	20	26.7	133	61-148	
o-Xylene	ug/L	ND	20	27.1	136	70-148	
tert-Amyl Alcohol	ug/L	ND	400	511	128	54-153	
tert-Amylmethyl ether	ug/L	ND	40	49.0	123	69-139	
tert-Butyl Alcohol	ug/L	ND	200	242	121	43-188 v3	
tert-Butyl Formate	ug/L	ND	160	149	93	10-170	
Toluene	ug/L	ND	20	26.0	130	59-148	
Xylene (Total)	ug/L	ND	60	79.9	133	63-158	
1,2-Dichloroethane-d4 (S)	%				82	70-130	
4-Bromofluorobenzene (S)	%				98	70-130	
Toluene-d8 (S)	%				99	70-130	

SAMPLE DUPLICATE: 4457478

Parameter	Units	92738733013 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane	ug/L	ND	ND		30	
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
m&p-Xylene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	

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QUALITY CONTROL DATA

Project: JAKE HUGGIN'S

Pace Project No.: 92738733

SAMPLE DUPLICATE: 4457478

Parameter	Units	92738733013 Result	Dup Result	RPD	Max RPD	Qualifiers
Naphthalene	ug/L	ND	ND		30	
o-Xylene	ug/L	ND	ND		30	
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	ND	ND		30	
tert-Butyl Alcohol	ug/L	ND	ND		30 v2	
tert-Butyl Formate	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	84	83			
4-Bromofluorobenzene (S)	%	95	96			
Toluene-d8 (S)	%	99	101			

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QUALITY CONTROL DATA

Project: JAKE HUGGIN'S
Pace Project No.: 92738733

QC Batch: 865020 Analysis Method: EPA 8260D
QC Batch Method: EPA 8260D Analysis Description: 8260 MSV SC
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92738733006, 92738733014, 92738733017

METHOD BLANK: 4459846 Matrix: Water
Associated Lab Samples: 92738733006, 92738733014, 92738733017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	2.1	07/01/24 14:12	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	53.9	07/01/24 14:12	
Benzene	ug/L	ND	5.0	1.7	07/01/24 14:12	
Diisopropyl ether	ug/L	ND	5.0	3.5	07/01/24 14:12	
Ethanol	ug/L	ND	200	144	07/01/24 14:12	
Ethyl-tert-butyl ether	ug/L	ND	10.0	8.5	07/01/24 14:12	
Ethylbenzene	ug/L	ND	5.0	1.8	07/01/24 14:12	
m&p-Xylene	ug/L	ND	10.0	4.1	07/01/24 14:12	
Methyl-tert-butyl ether	ug/L	ND	5.0	3.1	07/01/24 14:12	
Naphthalene	ug/L	ND	5.0	2.1	07/01/24 14:12	
o-Xylene	ug/L	ND	5.0	2.0	07/01/24 14:12	
tert-Amyl Alcohol	ug/L	ND	100	65.6	07/01/24 14:12	
tert-Amylmethyl ether	ug/L	ND	10.0	3.0	07/01/24 14:12	
tert-Butyl Alcohol	ug/L	ND	100	91.0	07/01/24 14:12	
tert-Butyl Formate	ug/L	ND	50.0	24.1	07/01/24 14:12	
Toluene	ug/L	ND	5.0	2.0	07/01/24 14:12	
Xylene (Total)	ug/L	ND	5.0	5.0	07/01/24 14:12	
1,2-Dichloroethane-d4 (S)	%	102	70-130		07/01/24 14:12	
4-Bromofluorobenzene (S)	%	101	70-130		07/01/24 14:12	
Toluene-d8 (S)	%	99	70-130		07/01/24 14:12	

METHOD BLANK: 4464723 Matrix: Water
Associated Lab Samples: 92738733006, 92738733014, 92738733017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	2.1	07/03/24 13:24	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	53.9	07/03/24 13:24	
Benzene	ug/L	ND	5.0	1.7	07/03/24 13:24	
Diisopropyl ether	ug/L	ND	5.0	3.5	07/03/24 13:24	
Ethanol	ug/L	ND	200	144	07/03/24 13:24	
Ethyl-tert-butyl ether	ug/L	ND	10.0	8.5	07/03/24 13:24	
Ethylbenzene	ug/L	ND	5.0	1.8	07/03/24 13:24	
m&p-Xylene	ug/L	ND	10.0	4.1	07/03/24 13:24	
Methyl-tert-butyl ether	ug/L	ND	5.0	3.1	07/03/24 13:24	
Naphthalene	ug/L	ND	5.0	2.1	07/03/24 13:24	
o-Xylene	ug/L	ND	5.0	2.0	07/03/24 13:24	
tert-Amyl Alcohol	ug/L	ND	100	65.6	07/03/24 13:24	
tert-Amylmethyl ether	ug/L	ND	10.0	3.0	07/03/24 13:24	

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QUALITY CONTROL DATA

Project: JAKE HUGGIN'S
Pace Project No.: 92738733

METHOD BLANK: 4464723 Matrix: Water

Associated Lab Samples: 92738733006, 92738733014, 92738733017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
tert-Butyl Alcohol	ug/L	ND	100	91.0	07/03/24 13:24	
tert-Butyl Formate	ug/L	ND	50.0	24.1	07/03/24 13:24	
Toluene	ug/L	ND	5.0	2.0	07/03/24 13:24	
Xylene (Total)	ug/L	ND	5.0	5.0	07/03/24 13:24	
1,2-Dichloroethane-d4 (S)	%	100	70-130		07/03/24 13:24	
4-Bromofluorobenzene (S)	%	98	70-130		07/03/24 13:24	
Toluene-d8 (S)	%	100	70-130		07/03/24 13:24	

METHOD BLANK: 4464735 Matrix: Water

Associated Lab Samples: 92738733006, 92738733014, 92738733017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	2.1	07/02/24 15:51	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	53.9	07/02/24 15:51	
Benzene	ug/L	ND	5.0	1.7	07/02/24 15:51	
Diisopropyl ether	ug/L	ND	5.0	3.5	07/02/24 15:51	
Ethanol	ug/L	ND	200	144	07/02/24 15:51	
Ethyl-tert-butyl ether	ug/L	ND	10.0	8.5	07/02/24 15:51	
Ethylbenzene	ug/L	ND	5.0	1.8	07/02/24 15:51	
m&p-Xylene	ug/L	ND	10.0	4.1	07/02/24 15:51	
Methyl-tert-butyl ether	ug/L	ND	5.0	3.1	07/02/24 15:51	
Naphthalene	ug/L	ND	5.0	2.1	07/02/24 15:51	
o-Xylene	ug/L	ND	5.0	2.0	07/02/24 15:51	
tert-Amyl Alcohol	ug/L	ND	100	65.6	07/02/24 15:51	
tert-Amylmethyl ether	ug/L	ND	10.0	3.0	07/02/24 15:51	
tert-Butyl Alcohol	ug/L	ND	100	91.0	07/02/24 15:51	
tert-Butyl Formate	ug/L	ND	50.0	24.1	07/02/24 15:51	
Toluene	ug/L	ND	5.0	2.0	07/02/24 15:51	
Xylene (Total)	ug/L	ND	5.0	5.0	07/02/24 15:51	
1,2-Dichloroethane-d4 (S)	%	100	70-130		07/02/24 15:51	
4-Bromofluorobenzene (S)	%	100	70-130		07/02/24 15:51	
Toluene-d8 (S)	%	100	70-130		07/02/24 15:51	

LABORATORY CONTROL SAMPLE: 4459847

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	20	20.9	105	70-130	
3,3-Dimethyl-1-Butanol	ug/L	400	407	102	70-130	
Benzene	ug/L	20	20.5	103	70-130	
Diisopropyl ether	ug/L	20	20.2	101	70-130	
Ethanol	ug/L	800	969	121	70-130	
Ethyl-tert-butyl ether	ug/L	40	40.7	102	70-130	

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QUALITY CONTROL DATA

Project: JAKE HUGGIN'S

Pace Project No.: 92738733

LABORATORY CONTROL SAMPLE: 4459847

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Ethylbenzene	ug/L	20	21.4	107	70-130	
m&p-Xylene	ug/L	40	42.7	107	70-130	
Methyl-tert-butyl ether	ug/L	20	19.9	99	70-130	
Naphthalene	ug/L	20	19.9	99	70-130	
o-Xylene	ug/L	20	21.1	106	70-130	
tert-Amyl Alcohol	ug/L	400	405	101	70-130	
tert-Amylmethyl ether	ug/L	40	41.4	104	70-130	
tert-Butyl Alcohol	ug/L	200	199	99	70-130	
tert-Butyl Formate	ug/L	160	177	111	70-130	
Toluene	ug/L	20	21.3	106	70-130	
Xylene (Total)	ug/L	60	63.8	106	70-130	
1,2-Dichloroethane-d4 (S)	%			103	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			100	70-130	

LABORATORY CONTROL SAMPLE: 4464724

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	20	20.3	101	70-130	
3,3-Dimethyl-1-Butanol	ug/L	400	393	98	70-130	
Benzene	ug/L	20	20.5	102	70-130	
Diisopropyl ether	ug/L	20	20.4	102	70-130	
Ethanol	ug/L	800	850	106	70-130	
Ethyl-tert-butyl ether	ug/L	40	40.8	102	70-130	
Ethylbenzene	ug/L	20	21.4	107	70-130	
m&p-Xylene	ug/L	40	43.3	108	70-130	
Methyl-tert-butyl ether	ug/L	20	20.5	102	70-130	
Naphthalene	ug/L	20	20.3	102	70-130	
o-Xylene	ug/L	20	21.2	106	70-130	
tert-Amyl Alcohol	ug/L	400	400	100	70-130	
tert-Amylmethyl ether	ug/L	40	39.6	99	70-130	
tert-Butyl Alcohol	ug/L	200	185	93	70-130	
tert-Butyl Formate	ug/L	160	170	107	70-130	
Toluene	ug/L	20	20.5	102	70-130	
Xylene (Total)	ug/L	60	64.5	108	70-130	
1,2-Dichloroethane-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			98	70-130	

LABORATORY CONTROL SAMPLE: 4464736

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	20	20.4	102	70-130	
3,3-Dimethyl-1-Butanol	ug/L	400	364	91	70-130	

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QUALITY CONTROL DATA

Project: JAKE HUGGIN'S

Pace Project No.: 92738733

LABORATORY CONTROL SAMPLE: 4464736

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	20.7	103	70-130	
Diisopropyl ether	ug/L	20	20.1	101	70-130	
Ethanol	ug/L	800	915	114	70-130	
Ethyl-tert-butyl ether	ug/L	40	41.1	103	70-130	
Ethylbenzene	ug/L	20	20.0	100	70-130	
m&p-Xylene	ug/L	40	40.4	101	70-130	
Methyl-tert-butyl ether	ug/L	20	20.1	101	70-130	
Naphthalene	ug/L	20	17.2	86	70-130	
o-Xylene	ug/L	20	19.9	99	70-130	
tert-Amyl Alcohol	ug/L	400	374	94	70-130	
tert-Amylmethyl ether	ug/L	40	40.6	101	70-130	
tert-Butyl Alcohol	ug/L	200	177	89	70-130	
tert-Butyl Formate	ug/L	160	172	108	70-130	
Toluene	ug/L	20	20.3	101	70-130	
Xylene (Total)	ug/L	60	60.3	101	70-130	
1,2-Dichloroethane-d4 (S)	%			95	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE SAMPLE: 4459848

Parameter	Units	92738886003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	20	ND	17	70-137	M1
3,3-Dimethyl-1-Butanol	ug/L	ND	400	ND	0	39-157	M1
Benzene	ug/L	7580	20	7540	-155	70-151	M1
Diisopropyl ether	ug/L	ND	20	ND	98	63-144	
Ethanol	ug/L	ND	800	ND	20	39-176	M1
Ethyl-tert-butyl ether	ug/L	ND	40	ND	55	66-137	M1
Ethylbenzene	ug/L	2640	20	2620	-87	66-153	M1
m&p-Xylene	ug/L	11200	40	10900	-619	69-152	M1
Methyl-tert-butyl ether	ug/L	3830	20	3720	-555	54-156	M1
Naphthalene	ug/L	622J	20	620J	-6	61-148	M1
o-Xylene	ug/L	5460	20	5380	-368	70-148	M1
tert-Amyl Alcohol	ug/L	14900	400	15400	126	54-153	
tert-Amylmethyl ether	ug/L	ND	40	426J	121	69-139	
tert-Butyl Alcohol	ug/L	ND	200	ND	477	43-188	M1,v2
tert-Butyl Formate	ug/L	ND	160	ND	50	10-170	P5,v2
Toluene	ug/L	20800	20	20900	789	59-148	M1
Xylene (Total)	ug/L	16600	60	16300	-535	63-158	MS
1,2-Dichloroethane-d4 (S)	%				90	70-130	
4-Bromofluorobenzene (S)	%				97	70-130	
Toluene-d8 (S)	%				99	70-130	

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QUALITY CONTROL DATA

Project: JAKE HUGGIN'S

Pace Project No.: 92738733

SAMPLE DUPLICATE: 4459849

Parameter	Units	92738886004 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane	ug/L	ND	ND		30	
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Benzene	ug/L	149	202	30	30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	5.9J		30	
m&p-Xylene	ug/L	25.4	45.4	56	30	D6
Methyl-tert-butyl ether	ug/L	8.2J	10.1		30	
Naphthalene	ug/L	ND	4.4J		30	
o-Xylene	ug/L	6.5J	12.9		30	
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	ND	ND		30	
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
Toluene	ug/L	14.6	25.6	55	30	D6
Xylene (Total)	ug/L	31.9	58.2	58	30	
1,2-Dichloroethane-d4 (S)	%	100	100			
4-Bromofluorobenzene (S)	%	101	101			
Toluene-d8 (S)	%	100	99			

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QUALITY CONTROL DATA

Project: JAKE HUGGIN'S

Pace Project No.: 92738733

QC Batch: 865393

Analysis Method: EPA 8260D

QC Batch Method: EPA 8260D

Analysis Description: 8260 MSV SC

Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92738733001

METHOD BLANK: 4461357

Matrix: Water

Associated Lab Samples: 92738733001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	2.1	07/02/24 10:38	v1
3,3-Dimethyl-1-Butanol	ug/L	ND	100	53.9	07/02/24 10:38	
Benzene	ug/L	ND	5.0	1.7	07/02/24 10:38	
Diisopropyl ether	ug/L	ND	5.0	3.5	07/02/24 10:38	
Ethanol	ug/L	ND	200	144	07/02/24 10:38	
Ethyl-tert-butyl ether	ug/L	ND	10.0	8.5	07/02/24 10:38	
Ethylbenzene	ug/L	ND	5.0	1.8	07/02/24 10:38	
m&p-Xylene	ug/L	ND	10.0	4.1	07/02/24 10:38	
Methyl-tert-butyl ether	ug/L	ND	5.0	3.1	07/02/24 10:38	
Naphthalene	ug/L	ND	5.0	2.1	07/02/24 10:38	v2
o-Xylene	ug/L	ND	5.0	2.0	07/02/24 10:38	
tert-Amyl Alcohol	ug/L	ND	100	65.6	07/02/24 10:38	
tert-Amylmethyl ether	ug/L	ND	10.0	3.0	07/02/24 10:38	
tert-Butyl Alcohol	ug/L	ND	100	91.0	07/02/24 10:38	
tert-Butyl Formate	ug/L	ND	50.0	24.1	07/02/24 10:38	
Toluene	ug/L	ND	5.0	2.0	07/02/24 10:38	
Xylene (Total)	ug/L	ND	5.0	5.0	07/02/24 10:38	
1,2-Dichloroethane-d4 (S)	%	102	70-130		07/02/24 10:38	
4-Bromofluorobenzene (S)	%	105	70-130		07/02/24 10:38	
Toluene-d8 (S)	%	103	70-130		07/02/24 10:38	

LABORATORY CONTROL SAMPLE: 4461358

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	20	24.4	122	70-130	v1
3,3-Dimethyl-1-Butanol	ug/L	400	318	80	70-130	
Benzene	ug/L	20	20.7	104	70-130	
Diisopropyl ether	ug/L	20	19.4	97	70-130	
Ethanol	ug/L	800	832	104	70-130	
Ethyl-tert-butyl ether	ug/L	40	43.1	108	70-130	
Ethylbenzene	ug/L	20	16.8	84	70-130	
m&p-Xylene	ug/L	40	34.6	87	70-130	
Methyl-tert-butyl ether	ug/L	20	20.5	103	70-130	
Naphthalene	ug/L	20	14.6	73	70-130	v3
o-Xylene	ug/L	20	17.6	88	70-130	
tert-Amyl Alcohol	ug/L	400	389	97	70-130	
tert-Amylmethyl ether	ug/L	40	41.5	104	70-130	
tert-Butyl Alcohol	ug/L	200	162	81	70-130	
tert-Butyl Formate	ug/L	160	200	125	70-130	

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QUALITY CONTROL DATA

Project: JAKE HUGGIN'S

Pace Project No.: 92738733

LABORATORY CONTROL SAMPLE: 4461358

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene	ug/L	20	19.4	97	70-130	
Xylene (Total)	ug/L	60	52.3	87	70-130	
1,2-Dichloroethane-d4 (S)	%			107	70-130	
4-Bromofluorobenzene (S)	%			107	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE SAMPLE: 4461359

Parameter	Units	92738886022 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	20	25.7	129	70-137	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	487	122	39-157	
Benzene	ug/L	ND	20	24.7	123	70-151	
Diisopropyl ether	ug/L	ND	20	33.2	166	63-144	M1,v1
Ethanol	ug/L	ND	800	1290	161	39-176	v1
Ethyl-tert-butyl ether	ug/L	ND	40	54.1	135	66-137	
Ethylbenzene	ug/L	ND	20	23.0	115	66-153	
m&p-Xylene	ug/L	ND	40	45.7	114	69-152	
Methyl-tert-butyl ether	ug/L	ND	20	24.7	124	54-156	
Naphthalene	ug/L	ND	20	23.6	111	61-148	v3
o-Xylene	ug/L	9.3	20	31.5	111	70-148	
tert-Amyl Alcohol	ug/L	ND	400	473	118	54-153	
tert-Amylmethyl ether	ug/L	ND	40	45.4	114	69-139	
tert-Butyl Alcohol	ug/L	ND	200	239	120	43-188	
tert-Butyl Formate	ug/L	ND	160	176	110	10-170	
Toluene	ug/L	ND	20	22.9	115	59-148	
Xylene (Total)	ug/L	9.3	60	77.2	113	63-158	
1,2-Dichloroethane-d4 (S)	%				114	70-130	
4-Bromofluorobenzene (S)	%				103	70-130	
Toluene-d8 (S)	%				102	70-130	

SAMPLE DUPLICATE: 4461360

Parameter	Units	92738886021 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane	ug/L	ND	ND		30	
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	ND	ND		30	v1
Ethanol	ug/L	ND	ND		30	v1
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
m&p-Xylene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30	v2
o-Xylene	ug/L	ND	ND		30	

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QUALITY CONTROL DATA

Project: JAKE HUGGIN'S

Pace Project No.: 92738733

SAMPLE DUPLICATE: 4461360

Parameter	Units	92738886021 Result	Dup Result	RPD	Max RPD	Qualifiers
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	ND	ND		30	
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	102	118			
4-Bromofluorobenzene (S)	%	105	100			
Toluene-d8 (S)	%	102	104			

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QUALITY CONTROL DATA

Project: JAKE HUGGIN'S

Pace Project No.: 92738733

QC Batch: 865899

Analysis Method: EPA 8260D

QC Batch Method: EPA 8260D

Analysis Description: 8260 MSV SC

Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92738733002

METHOD BLANK: 4463712

Matrix: Water

Associated Lab Samples: 92738733002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	2.1	07/03/24 14:25	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	53.9	07/03/24 14:25	
Benzene	ug/L	ND	5.0	1.7	07/03/24 14:25	
Diisopropyl ether	ug/L	ND	5.0	3.5	07/03/24 14:25	
Ethanol	ug/L	ND	200	144	07/03/24 14:25	
Ethyl-tert-butyl ether	ug/L	ND	10.0	8.5	07/03/24 14:25	
Ethylbenzene	ug/L	ND	5.0	1.8	07/03/24 14:25	
m&p-Xylene	ug/L	ND	10.0	4.1	07/03/24 14:25	
Methyl-tert-butyl ether	ug/L	ND	5.0	3.1	07/03/24 14:25	
Naphthalene	ug/L	ND	5.0	2.1	07/03/24 14:25	
o-Xylene	ug/L	ND	5.0	2.0	07/03/24 14:25	
tert-Amyl Alcohol	ug/L	ND	100	65.6	07/03/24 14:25	
tert-Amylmethyl ether	ug/L	ND	10.0	3.0	07/03/24 14:25	
tert-Butyl Alcohol	ug/L	ND	100	91.0	07/03/24 14:25	
tert-Butyl Formate	ug/L	ND	50.0	24.1	07/03/24 14:25	v2
Toluene	ug/L	ND	5.0	2.0	07/03/24 14:25	
Xylene (Total)	ug/L	ND	5.0	5.0	07/03/24 14:25	
1,2-Dichloroethane-d4 (S)	%	99	70-130		07/03/24 14:25	
4-Bromofluorobenzene (S)	%	98	70-130		07/03/24 14:25	
Toluene-d8 (S)	%	101	70-130		07/03/24 14:25	

LABORATORY CONTROL SAMPLE: 4463713

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	20	19.6	98	70-130	
3,3-Dimethyl-1-Butanol	ug/L	400	346	86	70-130	
Benzene	ug/L	20	20.4	102	70-130	
Diisopropyl ether	ug/L	20	20.1	101	70-130	
Ethanol	ug/L	800	824	103	70-130	
Ethyl-tert-butyl ether	ug/L	40	37.4	94	70-130	
Ethylbenzene	ug/L	20	20.3	102	70-130	
m&p-Xylene	ug/L	40	40.4	101	70-130	
Methyl-tert-butyl ether	ug/L	20	19.0	95	70-130	
Naphthalene	ug/L	20	17.5	88	70-130	
o-Xylene	ug/L	20	19.8	99	70-130	
tert-Amyl Alcohol	ug/L	400	359	90	70-130	
tert-Amylmethyl ether	ug/L	40	36.9	92	70-130	
tert-Butyl Alcohol	ug/L	200	184	92	70-130	
tert-Butyl Formate	ug/L	160	116	73	70-130 v3	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: JAKE HUGGIN'S

Pace Project No.: 92738733

LABORATORY CONTROL SAMPLE: 4463713

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene	ug/L	20	20.2	101	70-130	
Xylene (Total)	ug/L	60	60.2	100	70-130	
1,2-Dichloroethane-d4 (S)	%			98	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4463958 4463959

Parameter	Units	92738733002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane	ug/L	ND	20	20	21.6	20.6	108	103	70-137	5	30	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	400	400	382	100	96	39-157	4	30	
Benzene	ug/L	23.5	20	20	43.5	49.3	100	129	70-151	12	30	
Diisopropyl ether	ug/L	26.4	20	20	49.1	48.4	114	110	63-144	2	30	
Ethanol	ug/L	ND	800	800	929	901	116	113	39-176	3	30	
Ethyl-tert-butyl ether	ug/L	ND	40	40	40.8	39.9	102	100	66-137	2	30	
Ethylbenzene	ug/L	ND	20	20	22.5	22.1	112	110	66-153	2	30	
m&p-Xylene	ug/L	ND	40	40	45.2	44.2	113	110	69-152	2	30	
Methyl-tert-butyl ether	ug/L	122	20	20	148	147	129	123	54-156	1	30	
Naphthalene	ug/L	ND	20	20	20.6	20.5	97	97	61-148	0	30	
o-Xylene	ug/L	ND	20	20	22.0	21.6	109	108	70-148	1	30	
tert-Amyl Alcohol	ug/L	ND	400	400	466	448	108	103	54-153	4	30	
tert-Amylmethyl ether	ug/L	5.3J	40	40	47.1	46.0	104	102	69-139	2	30	
tert-Butyl Alcohol	ug/L	ND	200	200	236	231	108	105	43-188	2	30	
tert-Butyl Formate	ug/L	ND	160	160	55.7	41.7J	35	26	10-170		30	v3
Toluene	ug/L	ND	20	20	22.5	21.9	112	110	59-148	2	30	
Xylene (Total)	ug/L	ND	60	60	67.1	65.8	112	110	63-158	2	30	
1,2-Dichloroethane-d4 (S)	%						97	94	70-130			
4-Bromofluorobenzene (S)	%						101	101	70-130			
Toluene-d8 (S)	%						100	100	70-130			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: JAKE HUGGIN'S
Pace Project No.: 92738733

QC Batch: 865263 Analysis Method: EPA 504.1
QC Batch Method: EPA 504.1 Analysis Description: GCS 504 EDB DBCP
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92738733021, 92738733022, 92738733023, 92738733024

METHOD BLANK: 4460652 Matrix: Water
Associated Lab Samples: 92738733021, 92738733022, 92738733023, 92738733024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	0.0057	07/01/24 22:58	
1-Chloro-2-bromopropane (S)	%	80	70-130		07/01/24 22:58	

LABORATORY CONTROL SAMPLE & LCSD: 4460653		4460654								
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	0.26	0.20	0.26	77	100	70-130	25	20	R1
1-Chloro-2-bromopropane (S)	%				86	103	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:				4460655	4460656							
Parameter	Units	92738733021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	0.26	0.26	0.30	0.31	115	120	65-135	4	20	
1-Chloro-2-bromopropane (S)	%						107	111	70-130			

SAMPLE DUPLICATE: 4460657		92738733022 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	105	110			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: JAKE HUGGIN'S

Pace Project No.: 92738733

QC Batch: 864940

Analysis Method: EPA 8011

QC Batch Method: EPA 8011

Analysis Description: GCS 8011 EDB DBCP

Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92738733001, 92738733002, 92738733003, 92738733004

METHOD BLANK: 4459323

Matrix: Water

Associated Lab Samples: 92738733001, 92738733002, 92738733003, 92738733004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.022	0.0083	06/28/24 16:59	
1-Chloro-2-bromopropane (S)	%	104	60-140		06/28/24 16:59	

LABORATORY CONTROL SAMPLE & LCSD: 4459324

4459420

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	0.26	0.23	0.26	87	98	60-140	11	20	
1-Chloro-2-bromopropane (S)	%				102	103	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4459326

4459327

Parameter	Units	92738731017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	0.27	0.27	0.28	0.27	105	101	60-140	4	20	
1-Chloro-2-bromopropane (S)	%						103	99	60-140			

SAMPLE DUPLICATE: 4459325

Parameter	Units	92738731015 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	105	99			

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QUALITY CONTROL DATA

Project: JAKE HUGGIN'S

Pace Project No.: 92738733

QC Batch:	865207	Analysis Method:	EPA 8011
QC Batch Method:	EPA 8011	Analysis Description:	GCS 8011 EDB DBCP
		Laboratory:	Pace Analytical Services - Charlotte
Associated Lab Samples:	92738733005, 92738733006, 92738733007, 92738733008, 92738733009, 92738733010, 92738733011, 92738733012, 92738733013, 92738733014, 92738733015, 92738733016, 92738733017, 92738733018, 92738733019		

METHOD BLANK:	4460572	Matrix:	Water
Associated Lab Samples:	92738733005, 92738733006, 92738733007, 92738733008, 92738733009, 92738733010, 92738733011, 92738733012, 92738733013, 92738733014, 92738733015, 92738733016, 92738733017, 92738733018, 92738733019		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	0.0074	07/01/24 13:13	
1-Chloro-2-bromopropane (S)	%	100	60-140		07/01/24 13:13	

LABORATORY CONTROL SAMPLE & LCSD:		4460573	4460574							
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	0.25	0.33	0.30	135	121	60-140	11	20	
1-Chloro-2-bromopropane (S)	%				122	110	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		4460576	4460577									
Parameter	Units	92738733006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	0.25	0.25	0.39	0.32	157	127	60-140	21	20	M1,R1
1-Chloro-2-bromopropane (S)	%						132	105	60-140			

SAMPLE DUPLICATE: 4460575						
		92738733005	Dup		Max	
Parameter	Units	Result	Result	RPD	RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	106	106			

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QUALIFIERS

Project: JAKE HUGGIN'S
Pace Project No.: 92738733

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.
A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

ANALYTE QUALIFIERS

C0	Result confirmed by second analysis.
C8	Result may be biased high due to carryover from previously analyzed sample.
D6	The precision between the sample and sample duplicate exceeded laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
MS	Analyte recovery in the matrix spike was outside QC limits for one or more of the constituent analytes used in the calculated result.
P5	The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.
R1	RPD value was outside control limits.
v1	The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the associated samples may have a high bias.
v2	The continuing calibration verification was below the method acceptance limit. The analyte was not detected in the associated samples and the sensitivity of the instrument was verified with a reporting limit check standard.
v3	The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have low bias.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: JAKE HUGGIN'S
Pace Project No.: 92738733

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92738733021	WSW-1	EPA 504.1	865263	EPA 504.1	865373
92738733022	WSW-2	EPA 504.1	865263	EPA 504.1	865373
92738733023	WSW-DUP	EPA 504.1	865263	EPA 504.1	865373
92738733024	WSW-FB	EPA 504.1	865263	EPA 504.1	865373
92738733001	MW-1	EPA 8011	864940	EPA 8011	864971
92738733002	MW-2	EPA 8011	864940	EPA 8011	864971
92738733003	MW-3	EPA 8011	864940	EPA 8011	864971
92738733004	MW-4	EPA 8011	864940	EPA 8011	864971
92738733005	MW-5	EPA 8011	865207	EPA 8011	865233
92738733006	MW-6	EPA 8011	865207	EPA 8011	865233
92738733007	MW-7	EPA 8011	865207	EPA 8011	865233
92738733008	MW-8	EPA 8011	865207	EPA 8011	865233
92738733009	MW-9	EPA 8011	865207	EPA 8011	865233
92738733010	MW-10	EPA 8011	865207	EPA 8011	865233
92738733011	DW-1	EPA 8011	865207	EPA 8011	865233
92738733012	DW-2	EPA 8011	865207	EPA 8011	865233
92738733013	DW-3	EPA 8011	865207	EPA 8011	865233
92738733014	DW-4	EPA 8011	865207	EPA 8011	865233
92738733015	SW-1	EPA 8011	865207	EPA 8011	865233
92738733016	SW-2	EPA 8011	865207	EPA 8011	865233
92738733017	DUP-1	EPA 8011	865207	EPA 8011	865233
92738733018	FB	EPA 8011	865207	EPA 8011	865233
92738733019	GAC	EPA 8011	865207	EPA 8011	865233
92738733021	WSW-1	EPA 524.2	865630		
92738733022	WSW-2	EPA 524.2	865630		
92738733023	WSW-DUP	EPA 524.2	865630		
92738733024	WSW-FB	EPA 524.2	865630		
92738733025	WSW-TB	EPA 524.2	865630		
92738733015	SW-1	EPA 8260D	864846		
92738733016	SW-2	EPA 8260D	864846		
92738733021	WSW-1	EPA 8260D	864846		
92738733022	WSW-2	EPA 8260D	864846		
92738733023	WSW-DUP	EPA 8260D	864846		
92738733024	WSW-FB	EPA 8260D	864846		
92738733025	WSW-TB	EPA 8260D	864846		
92738733001	MW-1	EPA 8260D	865393		
92738733002	MW-2	EPA 8260D	865899		
92738733003	MW-3	EPA 8260D	864608		
92738733004	MW-4	EPA 8260D	864608		
92738733005	MW-5	EPA 8260D	864608		
92738733006	MW-6	EPA 8260D	865020		
92738733007	MW-7	EPA 8260D	864609		
92738733008	MW-8	EPA 8260D	864609		
92738733009	MW-9	EPA 8260D	864609		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: JAKE HUGGIN'S

Pace Project No.: 92738733

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92738733010	MW-10	EPA 8260D	864609		
92738733011	DW-1	EPA 8260D	864609		
92738733012	DW-2	EPA 8260D	864609		
92738733013	DW-3	EPA 8260D	864609		
92738733014	DW-4	EPA 8260D	865020		
92738733017	DUP-1	EPA 8260D	865020		
92738733018	FB	EPA 8260D	864609		
92738733019	GAC	EPA 8260D	864609		
92738733020	TB	EPA 8260D	864609		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY

MO#: 92738733

OR



A 92738733

Container Preservative Type **

Lab Project Manager:

Billing Information:

Company: MECT

Address: 231 Doolley Rd.

Report To: B. Shobe

Email To: JLC@meinc.net

Copy To:

Site Collection Info/Address: 4415 Penn Plz Hwy

Customer Project Name/Number: Jake Higgins

State: SC County/City: Florence Time Zone Collected: PT MT CT ET

Phone: 3423

Site/Facility ID #: 3423

Collected By (print): Troy Douglas

Purchase Order #: 3423

Collected By (signature): Troy Douglas

Turnaround Date Required:

Sample Disposal: [] Same Day [] Next Day [] 2 Day [] 3 Day [] 4 Day [] 5 Day

Rush: [] Yes [] No

[] Archive: [] Hold:

Field Filtered (if applicable): [] Yes [] No

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Time	Composite End Date	Time	Res CI	# of Ctns
MW-1	GW	G	6/24	12:22				6
MW-2				11:07				1
MW-3				10:30				1
MW-4				10:28				1
MW-5				10:48				1
MW-6				10:50				1
MW-7				11:18				1
MW-8				12:25				1
MW-9				12:30				1
MW-10				12:23				1

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Sample Temperature Info: Temp Blank Received: Y N NA Therm ID#: 221070 Cooler 1 Temp Upon Receipt: 02 oC Cooler 1 Therm Corr. Factor: 0 oC Cooler 1 Corrected Temp: 0.2 oC

Relinquished by/Company: (Signature) [Signature]

Date/Time: 6/26/24 (9:51)

Date/Time: 6/26/24 10:51

Table #: MTL LAB USE ONLY

Relinquished by/Company: (Signature) [Signature]

Date/Time: 6/26/24 15:32

Date/Time: 6/26/24 15:32

Actnum: HHL/Pace

Relinquished by/Company: (Signature)

Date/Time:

Date/Time:

Non Conformance(s): YES / NO Page: 3 of 3

Analyses: Bxnm-1-20C4, 0xys 82600 EDB 8011

Lab Profile/Line:

Lab Sample Receipt Checklist: Custody Seals Present/Intact Y N NA Custody Signatures Present Y N NA Collector Signatures Present Y N NA Bottles Intact Y N NA Correct Bottles Y N NA Sufficient Volume Y N NA Samples Received on Ice Y N NA VOA - Headspace Acceptable Y N NA USDA Regulated Solids Y N NA Residual Chlorine Present Y N NA Cl Strips: Acceptable Y N NA Sample pH Acceptable Y N NA pH Strips: Sulfide Present Y N NA Lead Acetate Strips: Y N NA

LAB USE ONLY: Lab Sample # / Comments: 221070 6/27/24

Slight Odor MW No Odor MW-2 No Odor MW-3 No Odor MW-4 No Odor MW-5 Slight Odor MW-6 No Odor MW-7 No Odor MW-8 No Odor MW-9 No Odor MW-10 Slight Odor

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: MECI		Billing Information:						
Address: 231 231 Dooley Rd.		Email To: JLC@mecl.net						
Report To: B. Shano		Site Collection Info/Address: 4925 Park Place Hwy						
Copy To:		State: SC / Florence County/City: [] PT [] MT [] CT [] ET						
Customer Project Name/Number: Take Huggins		Time Zone Collected:						
Phone:	Site/Facility ID #:	Compliance Monitoring?						
Email:	3423	[] Yes [] No						
Collected By (print): Troy Douglas	Purchase Order #:	DW PWS ID #:						
Collected By (signature): Troy Douglas	Quote #:	DW Location Code:						
Sample Disposal:	Turnaround Date Required:	Immediately Packed on Ice:						
[] Dispose as appropriate [] Return	Rush:	[] Yes [] No						
[] Archive: _____	[] Same Day [] Next Day	Field Filtered (if applicable):						
[] Hold: _____	[] 2 Day [] 3 Day [] 4 Day [] 5 Day	[] Yes [] No						
* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)		Analysis: _____						
Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res CI	# of Ctns
			Date	Time	Date	Time		
DW-1	GW	G	6/24	13:05				6
DW-2				13:23				1
DW-3				13:20				1
DW-4				13:27				1
SW-1				12:45				1
SW-2				12:48				1
Bug-1				13:30				1
FB				13:32				1
GAC								1
TB				8:00				2
Customer Remarks / Special Conditions / Possible Hazards:								
Packing Material Used:								
Radchem sample(s) screened (<500 cpm): Y N NA								
Relinquished by/Company: (Signature)		Date/Time:		Received by/Company: (Signature)				
Relinquished by/Company: (Signature)		6/26/24 (9:51)		Received by/Company: (Signature)				
Relinquished by/Company: (Signature)		6/26/24 1532		Received by/Company: (Signature)				

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number on
MTIL Log-in Number Here

ALL SHADED AREAS are for LAB USE ONLY

Container Preservative Type **						Lab Project Manager:
** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____						
Analyses						Lab Profile/Line:
						Lab Sample Receipt Checklist:
						Custody Seals Present/Intact Y N NA
						Custody Signatures Present Y N NA
						Collector Signatures Present Y N NA
						Bottles Intact Y N NA
						Correct Bottles Y N NA
						Sufficient Volume Y N NA
						VOA - Headspace Acceptable Y N NA
						USDA Regulated Soils Y N NA
						Samples in Holding Time Y N NA
						Residual Chlorine Present Y N NA
						Cl Strips: Y N NA
						Sample pH Acceptable Y N NA
						pH Strips: Y N NA
						Sulfide Present Y N NA
						Lead Acetate Strips: Y N NA
LAB USE ONLY:						
Lab Sample # / Comments: 92749713						
SHORT HOLDS PRESENT (<72 hours):	Y	N	N/A			No Odor O11
Lab Tracking #: 2924502						No Odor O15
						No Odor O13
						No Odor O19
						Lbl O16
						Lbl O17
						Odor O18
						O14
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DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project #

WO#: 92738733

PM: JWB

Due Date: 07/03/24

CLIENT: 92-MIDLAND

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☒ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client: MECT Profile/EZ (Circle one) Notes

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic Zn Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9H-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
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pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.



DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project #

WO#: 92738733

PM: JWB

Due Date: 07/03/24

CLIENT: 92-MIDLAND

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☒ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐Client MECA Profile/EZ (Circle one) _____ Notes _____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic 2N Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
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pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.



DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project #

WO#: 92738733

PM: JWb

Due Date: 07/03/24

CLIENT: 92-MIDLAND

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☒ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐Client MECI Profile/EZ (Circle one) _____ Notes _____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)		BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic Zn Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
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pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

APPENDIX C:

TAX MAP

(Not Applicable)

APPENDIX D:

SOIL BORING/FIELD SCREENING LOGS & 1903 FORMS

(Not Applicable)

APPENDIX E:
WELL COMPLETION LOGS & 1903 FORMS
(Not Applicable)

APPENDIX F:
AQUIFER EVALUATION SUMMARY FORMS, DATA, GRAPHS, EQUATIONS
(Not Applicable)

APPENDIX G:
DISPOSAL MANIFEST



July 8, 2024

Re: Treatment of Purge Water
Jake Huggins DBA Outpost at Willowcreek
Florence, South Carolina
UST Permit# 03423
MECI Project# 24-8374

To Whom it May Concern;

Midlands Environmental Consultants, Inc. is providing the following letter as certification that treatment of the referenced purge water complied with the conditions of "Proposed Conditions for Use of Portable Activated Carbon Units for the Treatment of Small Volumes of Petroleum Hydrocarbon Contaminated Groundwater", as described in the following:

Applicability:

Groundwater treated was obtained as a result development of wells and sampling.

Conditions:

1. The purge/bail water from all wells is mixed before usage of the Activated Carbon Unit.
2. No free-product was detected in any of the purge water drums.
3. Analytical results of from well sampling show average concentrations of petroleum hydrocarbon constituents less than 5000 parts per billion (ppb) Benzene and less than 20,000 ppb total BTEX.
4. The existing carbon pack will be replaced/reactivated every 5,000 gallons.
5. Record of usage is maintained by Contractor.
6. Any and all recommendations and conditions issued by the Manufacturer have been adhered to.
7. Any and all recommendations and conditions (even on a site by site basis) issued by the SCDHEC must be adhered to.

All purge waters were treated on-site using an up-flow treatment drum loaded with 80 pounds of activated carbon. Carbon will be loaded to a maximum of 3 pounds of total organic compounds or 5,000 gallons of development/purge water, whichever occurs first.

July 8, 2024

33.00 Gallons of Purge water were treated on June 24, 2024 at the referenced site.

Midlands Environmental also tracks cumulative organic compounds adsorbed on the activated carbon to ensure the capacity of carbon mass is not over-charged. This data is available upon request.

Should you have any questions or comments, please contact the undersigned.

Sincerely,
Midlands Environmental Consultants, Inc.



Jeff L. Coleman
Senior Scientist

APPENDIX H:
LOCAL ZONING REGULATIONS
(Not Applicable)

APPENDIX I:
FATE AND TRANSPORT MODELING
(Not Applicable)

APPENDIX J:
ACCESS AGREEMENTS
(Not Applicable)

APPENDIX K:
DATA VERIFICATION CHECKLIST

Contractor Checklist

Item#	Item	Yes	No	N/A
1	Are Facility Name, Permit #, and address provided?	X		
2	Is UST Owner/Operator name, address, & phone number provided?	X		
3	Is name, address, & phone number of current property owner provided?	X		
4	Is the DHEC Certified UST Site Rehabilitation Contractor's Name, Address, telephone number, and certification number provided?	X		
5	Is the name, address, telephone number, and certification number of the well driller that installed borings/monitoring wells provided?			X
6	Is the name, address, telephone number, and certification number of the certified laboratory(ies) performing analytical analyses provided?	X		
7	Has the facility history been summarized?	X		
8	Has the regional geology and hydrogeology been described?	X		
9	Are the receptor survey results provided as required?			X
10	Has current use of the site and adjacent land been described?	X		
11	Has the site-specific geology and hydrogeology been described?	X		
12	Has the primary soil type been described?	X		
13	Have field screening results been described?			X
14	Has a description of the soil sample collection and preservation been detailed?			X
15	Has the field screening methodology and procedure been detailed?			X
16	Has the monitoring well installation and development dates been provided?			X
17	Has the method of well development been detailed?			X
18	Has justification been provided for the locations of the monitoring wells?			X
19	Have the monitoring wells been labeled in accordance with the UST QAPP guidelines?	X		
20	Has the groundwater sampling methodology been detailed?	X		
21	Have the groundwater sampling dates and groundwater measurements been provided? (Table 2 & Figures 4-4A)	X		
22	Has the purging methodology been detailed?	X		
23	Has the volume of water purged from each well been provided along with measurements to verify that purging is complete? (Appendix B)	X		
24	If free-product is present, has the thickness been provided?			X
25	Does the report include a brief discussion of the assessment done and the results?	X		
26	Does the report include a brief discussion of the aquifer evaluation and results?			X
27	Does the report include a brief discussion of the fate & transport models used?			X

Item#	Item	Yes	No	N/A
28	Are the site-conceptual model tables included? (Tier 1 Risk Evaluation)			X
29	Have the exposure pathways been analyzed? (Tier 2 Risk Evaluation)			X
30	Have the SSTLs for each compound and pathway been calculated? (Tier 2 Risk Evaluation)			X
31	Have recommendations for further action been provided and explained?	X		
32	Has the soil analytical data for the site been provided in tabular format?			X
33	Has the potentiometric data for the site been provided in tabular format? (Table 2)	X		
34	Has the current and historical laboratory data been provided in tabular format? (Table 1)	X		
35	Have the aquifer characteristics been provided and summarized on the appropriate form? (Appendix F)			X
36	Have the Site conceptual model tables been included? (Tier 1 Risk Evaluation)			X
37	Has the topographic map been provided with all required elements? (Figure 1)	X		
38	Has the site base map been provided with all required elements? (Figure 2)	X		
39	Have the CoC site maps been provided? (Figure 3-3A)	X		
40	Has the site potentiometric map been provided? (Figure 4-4A)	X		
41	Have the geologic cross-sections been provided?			X
42	Have maps showing the predicted migration of the CoCs through time been provided? (Tier 2 Risk Evaluation)			X
43	Has the site survey been provided and include all necessary elements? (Appendix A)			X
44	Have the sampling logs, chain of custody forms, and the analytical data package been included with all required elements? (Appendix B)	X		
45	Is the laboratory performing the analyses properly certified?	X		
46	Has the tax map been included with all necessary elements? (Appendix C)			X
47	Have the soil boring/field screening logs been provided? (Appendix E)			X
48	Have the well completion logs and SCDES Form 1903 been provided? (Appendix E)			X
49	Have the aquifer evaluation forms, data, graphs, equations, etc. been provided? (Appendix F)			X
50	Have the disposal manifests been provided? (Appendix G)	X		
51	Has a copy of the local zoning regulations been provided? (Appendix H)			X
52	Has all fate and transport modeling been provided? (Appendix I)			X
53	Have copies of all access agreements obtained by the contractor been provided? (Appendix J)			X
54	Has a copy of this form been attached to the final report and are explanations for any missing or incomplete data been provided? (Appendix K)	X		

APPENDIX L:
DETAILED RECEPTOR INFORMATION

	Receptor ID: (03423-WSW01)
	Parcel ID: 00213-01-130
	Property Owner Name: Willie B Winchester Jr.
	Property Owner Address: 3101 Willow Creek Rd, Florence, SC 29505
	WSW Details: Well is inside barn building. Sample collected from spigot on water supply well. GPS: 34.096044, -79.701503

	Receptor ID: (03423-WSW02)
	Parcel ID: 00213-01-130
	Property Owner Name: Willie B Winchester Jr.
	Property Owner Address: 3101 Willow Creek Rd, Florence, SC 29505
	WSW Details: Sample collected from spigot on WSW. GPS: 34.095156, -79.700508

	Receptor ID: (03423-WSW03)
	Parcel ID: 00213-01-052
	Property Owner Name: Linda L Huggins
	Property Owner Address: 3695 Willow Creek Rd, Florence, SC 29505
	WSW Details: Well has been disconnected. Unable to sample with bailer due to metal elbow at well head. GPS: 34.096743, -79.701503

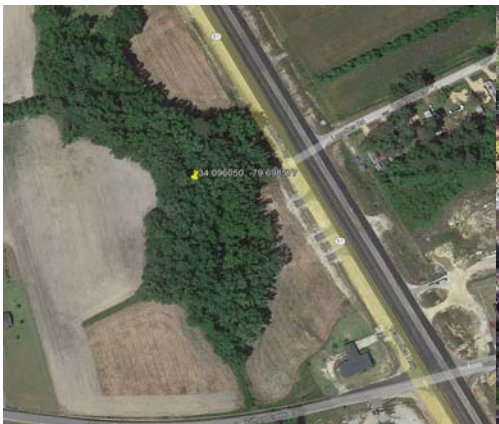
	Receptor ID: (03423-Possible WSW)
	Parcel ID: 00214-01-016
	Property Owner Name: Trent P Stallings
	Property Owner Address: 3118 Willow Creek Rd, Florence, SC 29505
	WSW Details: Possible well house attached to residence. Resident did not respond to attempts to make contact. GPS: 34.094158, -79.700555

	Receptor ID: (03423-SW01)	
	Parcel ID:	SCDOT Right of Way
	Property Owner Name:	SCDOT
	Property Owner Address:	PO Box 191, Columbia, SC 29201
SW Details: Surface water sample collected from drainage ditch. GPS: 34.095076, -79.696772		

	Receptor ID: (03423-SW02)	
	Parcel ID:	SCDOT Right of Way
	Property Owner Name:	SCDOT
	Property Owner Address:	PO Box 191, Columbia, SC 29201
SW Details: Surface water sample collected from drainage ditch. GPS: 34.095847, -79.697296		

	Receptor ID: (03423-SW03)	
	Parcel ID:	00213-01-017
	Property Owner Name:	Barbara M Williams
	Property Owner Address:	9296 Grays Highway, Ridgeland, SC 29936
SW Details: Surface water sample collected from stream. GPS: 34.094620, -79.698172		

		Receptor ID: (03423-SW04)
		Parcel ID: 00213-01-017
		Property Owner Name: Barbara M Williams
		Property Owner Address: 9296 Grays Highway, Ridgeland, SC 29936
		SW Details: Surface water sample collected from stream. GPS: 34.095389, -79.698409

		Receptor ID: (03423-SW05)
		Parcel ID: 00213-01-017
		Property Owner Name: Barbara M Williams
		Property Owner Address: 9282 Grays Highway, Ridgeland, SC 29936
		SW Details: Surface water sample collected from stream. GPS: 34.096050, -79.698577

		Receptor ID: (03423-SW06)
		Parcel ID: 00213-01-017
		Property Owner Name: Barbara M Williams
		Property Owner Address: 9372 Grays Highway, Ridgeland, SC 29936
		SW Details: Surface water sample collected from stream. GPS: 34.096699, -79.699359

APPENDIX M:
MANN-KENDALL STATISTICAL ANALYSES

GSI MANN-KENDALL TOOLKIT

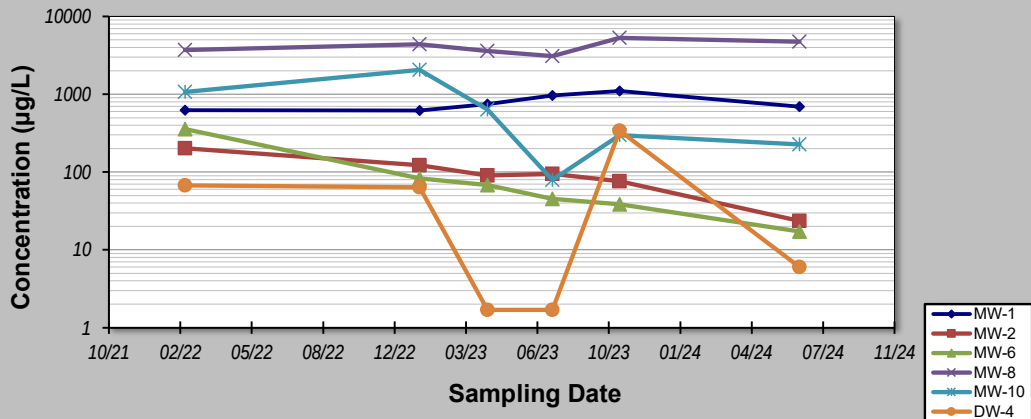
for Constituent Trend Analysis

Evaluation Date: **8-Jul-24**
 Facility Name: **Jake Huggins DBA Outpost @ Willowcreek**
 Conducted By: **Jeff Coleman**

Job ID: **UST#03423**
 Constituent: **BENZENE**
 Concentration Units: **µg/L**

Sampling Point ID: **MW-1** **MW-2** **MW-6** **MW-8** **MW-10** **DW-4**

Sampling Event	Sampling Date	BENZENE CONCENTRATION (µg/L)						
1	15-Feb-22	624	203	356	3720	1070	67.5	
2	9-Jan-23	620	122	83.3	4390	2060	63.6	
3	14-Apr-23	749	90.2	68.1	3620	634	1.7	
4	14-Jul-23	964	95.2	45.4	3110	79.3	1.7	
5	16-Oct-23	1100	76.3	38.5	5330	299	341	
6	24-Jun-24	695	23.5	17.3	4760	227	6	
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Coefficient of Variation:		0.25	0.58	1.25	0.20	1.02	1.64	
Mann-Kendall Statistic (S):		7	-13	-15	3	-9	-2	
Confidence Factor:		86.4%	99.2%	99.9%	64.0%	93.2%	57.0%	
Concentration Trend:		No Trend	Decreasing	Decreasing	No Trend	Prob. Decreasing	No Trend	



Notes:

- At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
- Confidence in Trend = Confidence (in percent) that constituent concentration is increasing ($S > 0$) or decreasing ($S < 0$): $> 95\%$ = Increasing or Decreasing; $\geq 90\%$ = Probably Increasing or Probably Decreasing; $< 90\%$ and $S > 0$ = No Trend; $< 90\%$, $S \leq 0$, and $COV \geq 1$ = No Trend; $< 90\%$ and $COV < 1$ = Stable.
- Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.

DISCLAIMER: The GSI Mann-Kendall Toolkit is available "as is". Considerable care has been exercised in preparing this software product; however, no party, including without limitation GSI Environmental Inc., makes any representation or warranty regarding the accuracy, correctness, or completeness of the information contained herein, and no such party shall be liable for any direct, indirect, consequential, incidental or other damages resulting from the use of this product or the information contained herein. Information in this publication is subject to change without notice. GSI Environmental Inc., disclaims any responsibility or obligation to update the information contained herein.

GSI Environmental Inc., www.gsi-net.com

GSI MANN-KENDALL TOOLKIT

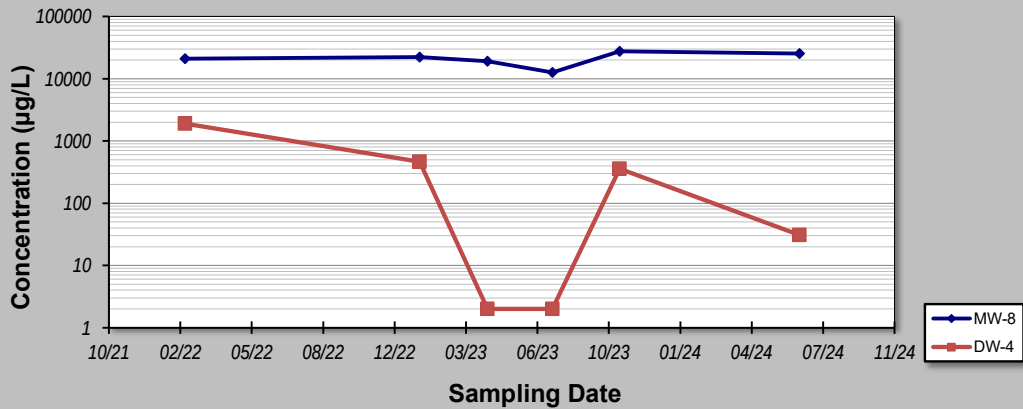
for Constituent Trend Analysis

Evaluation Date: **24-Jun-24**
 Facility Name: **Jake Huggins DBA Outpost @ Willowcreek**
 Conducted By: **Jeff Coleman**

Job ID: **UST#03423**
 Constituent: **TOLUENE**
 Concentration Units: **µg/L**

Sampling Point ID: **MW-8** **DW-4**

Sampling Event	Sampling Date	TOLUENE CONCENTRATION (µg/L)						
1	15-Feb-22	21100	1890					
2	9-Jan-23	22300	464					
3	14-Apr-23	19200	2					
4	14-Jul-23	12600	2					
5	16-Oct-23	27500	359					
6	24-Jun-24	25300	30.8					
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19								
20								
Coefficient of Variation:		0.24	1.59					
Mann-Kendall Statistic (S):		3	-6					
Confidence Factor:		64.0%	81.5%					
Concentration Trend:		No Trend	No Trend					



Notes:

- At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
- Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0): >95% = Increasing or Decreasing; ≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
- Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.

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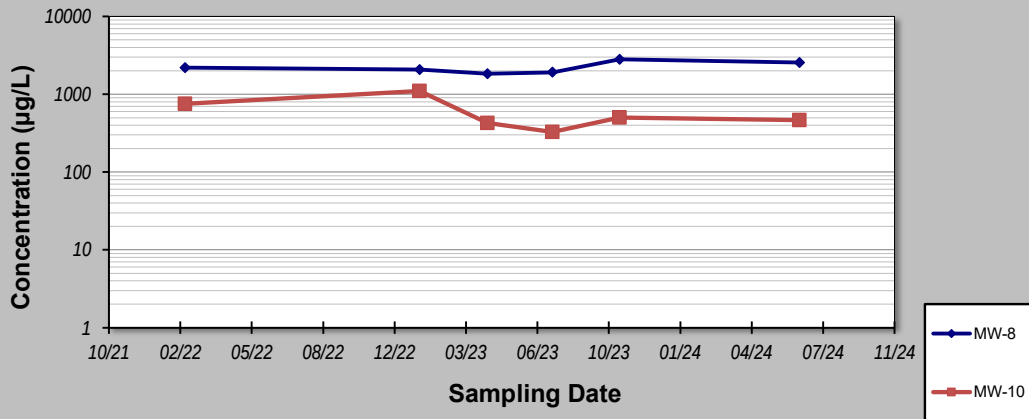
for Constituent Trend Analysis

Evaluation Date: **30-Oct-23**
 Facility Name: **Jake Huggins DBA Outpost @ Willowcreek**
 Conducted By: **Jeff Coleman**

Job ID: **UST#03423**
 Constituent: **ETHYLBENZENE**
 Concentration Units: **µg/L**

Sampling Point ID: **MW-8** **MW-10**

Sampling Event	Sampling Date	ETHYLBENZENE CONCENTRATION (µg/L)						
1	15-Feb-22	2200	753					
2	9-Jan-23	2080	1100					
3	14-Apr-23	1840	428					
4	14-Jul-23	1920	329					
5	16-Oct-23	2810	503					
6	24-Jun-24	2570	465					
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20								
Coefficient of Variation:		0.17	0.48					
Mann-Kendall Statistic (S):		3	-5					
Confidence Factor:		64.0%	76.5%					
Concentration Trend:		No Trend	Stable					



Notes:

- At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
- Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0): >95% = Increasing or Decreasing; ≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
- Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.

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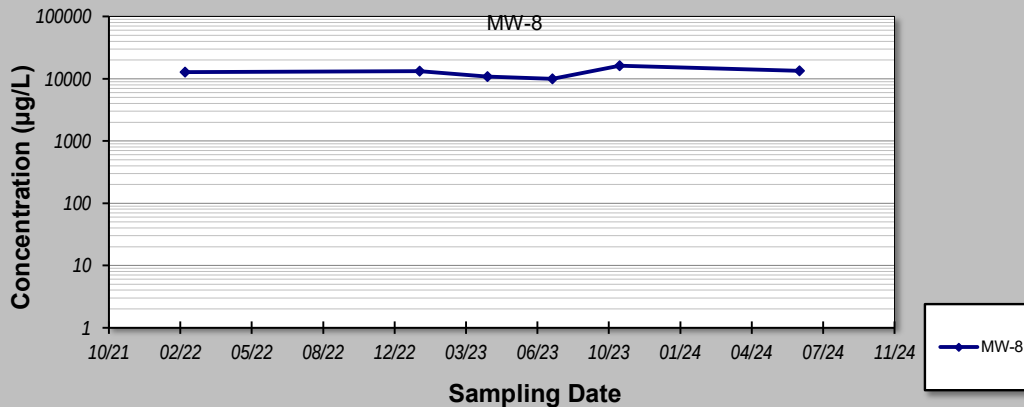
for Constituent Trend Analysis

Evaluation Date: **24-Jun-24**
 Facility Name: **Jake Huggins DBA Outpost @ Willowcreek**
 Conducted By: **Jeff Coleman**

Job ID: **UST#03423**
 Constituent: **XYLENES**
 Concentration Units: **µg/L**

Sampling Point ID: **MW-8**

Sampling Event	Sampling Date	XYLENES CONCENTRATION (µg/L)						
1	15-Feb-22	12800						
2	9-Jan-23	13300						
3	14-Apr-23	10800						
4	14-Jul-23	10000						
5	16-Oct-23	16200						
6	24-Jun-24	13400						
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20								
Coefficient of Variation:		0.17						
Mann-Kendall Statistic (S):		3						
Confidence Factor:		64.0%						
Concentration Trend:		No Trend						



Notes:

- At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
- Confidence in Trend = Confidence (in percent) that constituent concentration is increasing ($S > 0$) or decreasing ($S < 0$): $> 95\%$ = Increasing or Decreasing; $\geq 90\%$ = Probably Increasing or Probably Decreasing; $< 90\%$ and $S > 0$ = No Trend; $< 90\%$, $S \leq 0$, and $COV \geq 1$ = No Trend; $< 90\%$ and $COV < 1$ = Stable.
- Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.

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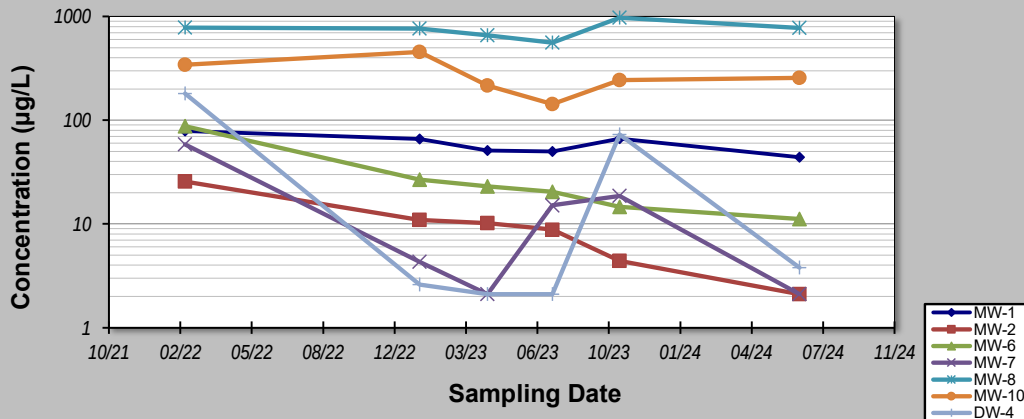
for Constituent Trend Analysis

Evaluation Date: **24-Jun-24**
 Facility Name: **Jake Huggins DBA Outpost @ Willowcreek**
 Conducted By: **Jeff Coleman**

Job ID: **UST#03423**
 Constituent: **NAPHTHALENE**
 Concentration Units: **µg/L**

Sampling Point ID: **MW-1** **MW-2** **MW-6** **MW-7** **MW-8** **MW-10** **DW-4**

Sampling Event	Sampling Date	NAPHTHALENE CONCENTRATION (µg/L)						
1	15-Feb-22	78.7	25.7	87.5	58.3	781	342	181
2	9-Jan-23	66	10.9	26.7	4.3	766	455	2.6
3	14-Apr-23	51.1	10.2	23	2.1	661	216	2.1
4	14-Jul-23	49.9	8.8	20.4	15.1	558	143	2.1
5	16-Oct-23	66.5	4.4	14.6	18.6	975	244	72.7
6	24-Jun-24	44	2.1	11.2	2.1	778	256	3.8
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20								
Coefficient of Variation:		0.22	0.80	0.93	1.29	0.19	0.39	1.65
Mann-Kendall Statistic (S):		-9	-15	-15	-4	-1	-3	-2
Confidence Factor:		93.2%	99.9%	99.9%	70.3%	50.0%	64.0%	57.0%
Concentration Trend:		Prob. Decreasing	Decreasing	Decreasing	No Trend	Stable	Stable	No Trend



Notes:

- At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
- Confidence in Trend = Confidence (in percent) that constituent concentration is increasing ($S > 0$) or decreasing ($S < 0$): $> 95\%$ = Increasing or Decreasing; $\geq 90\%$ = Probably Increasing or Probably Decreasing; $< 90\%$ and $S > 0$ = No Trend; $< 90\%$, $S \leq 0$, and $COV \geq 1$ = No Trend; $< 90\%$ and $COV < 1$ = Stable.
- Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.

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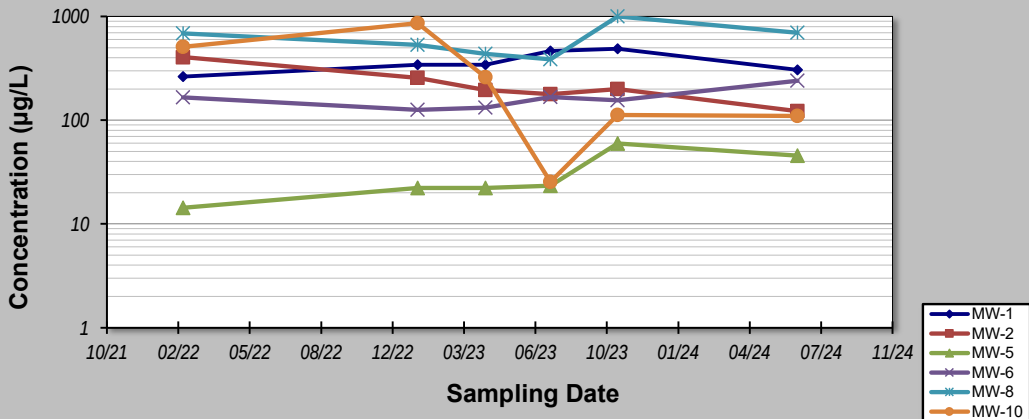
for Constituent Trend Analysis

Evaluation Date: **24-Jun-24**
 Facility Name: **Jake Huggins DBA Outpost @ Willowcreek**
 Conducted By: **Jeff Coleman**

Job ID: **UST#03423**
 Constituent: **MTBE**
 Concentration Units: **µg/L**

Sampling Point ID: **MW-1** **MW-2** **MW-5** **MW-6** **MW-8** **MW-10**

Sampling Event	Sampling Date	MTBE CONCENTRATION (µg/L)						
1	15-Feb-22	264	405	14.3	166	690	510	
2	9-Jan-23	342	256	22.2	126	531	865	
3	14-Apr-23	343	195	22.3	132	435	260	
4	14-Jul-23	465	178	23.4	167	388	25.4	
5	16-Oct-23	488	200	59.5	156	1000	112	
6	24-Jun-24	306	122	45.6	241	696	110	
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20								
Coefficient of Variation:		0.24	0.43	0.56	0.25	0.36	1.02	
Mann-Kendall Statistic (S):		7	-11	13	7	1	-9	
Confidence Factor:		86.4%	97.2%	99.2%	86.4%	50.0%	93.2%	
Concentration Trend:		No Trend	Decreasing	Increasing	No Trend	No Trend	Prob. Decreasing	



Notes:

- At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
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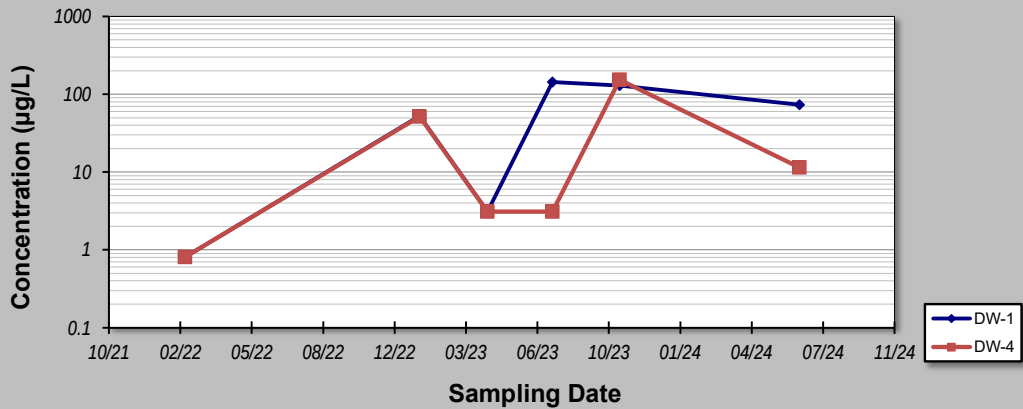
for Constituent Trend Analysis

Evaluation Date: **24-Jun-24**
 Facility Name: **Jake Huggins DBA Outpost @ Willowcreek**
 Conducted By: **Jeff Coleman**

Job ID: **UST#03423**
 Constituent: **MTBE**
 Concentration Units: **µg/L**

Sampling Point ID: **DW-1** **DW-4**

Sampling Event	Sampling Date	MTBE CONCENTRATION (µg/L)							
1	15-Feb-22	0.81	0.81						
2	9-Jan-23	52.9	51.8						
3	14-Apr-23	3.1	3.1						
4	14-Jul-23	144	3.1						
5	16-Oct-23	129	153						
6	24-Jun-24	73.2	11.5						
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14									
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19									
20									
Coefficient of Variation:		0.90	1.61						
Mann-Kendall Statistic (S):		7	6						
Confidence Factor:		86.4%	81.5%						
Concentration Trend:		No Trend	No Trend						



Notes:

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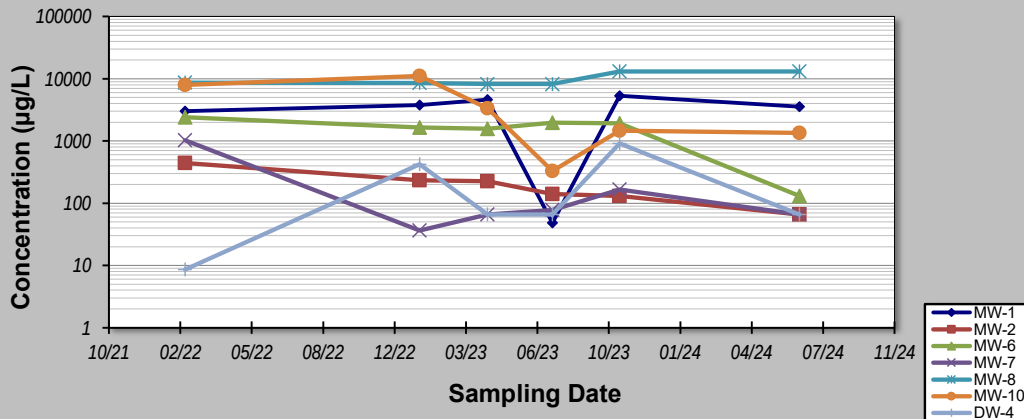
for Constituent Trend Analysis

Evaluation Date: **24-Jun-24**
 Facility Name: **Jake Huggins DBA Outpost @ Willowcreek**
 Conducted By: **Jeff Coleman**

Job ID: **UST#03423**
 Constituent: **TAA**
 Concentration Units: **µg/L**

Sampling Point ID: **MW-1** **MW-2** **MW-6** **MW-7** **MW-8** **MW-10** **DW-4**

Sampling Event	Sampling Date	TAA CONCENTRATION (µg/L)						
1	15-Feb-22	3030	442	2410	1030	8690	7950	8.6
2	9-Jan-23	3770	233	1640	36.4	8510	11100	422
3	14-Apr-23	4640	225	1570	65.6	8200	3350	65.6
4	14-Jul-23	48.3	141	1960	77.7	8200	328	65.6
5	16-Oct-23	5340	131	1930	166	13100	1460	913
6	24-Jun-24	3560	65.6	131	65.6	13100	1350	65.6
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18								
19								
20								
Coefficient of Variation:		0.54	0.64	0.49	1.62	0.24	1.01	1.38
Mann-Kendall Statistic (S):		3	-15	-7	0	3	-9	4
Confidence Factor:		64.0%	99.9%	86.4%	39.3%	64.0%	93.2%	70.3%
Concentration Trend:		No Trend	Decreasing	Stable	No Trend	No Trend	Prob. Decreasing	No Trend



Notes:

- At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
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for Constituent Trend Analysis

Evaluation Date: **24-Jun-24**
 Facility Name: **Jake Huggins DBA Outpost @ Willowcreek**
 Conducted By: **Jeff Coleman**

Job ID: **UST#03423**
 Constituent: **DIPE**
 Concentration Units: **µg/L**

Sampling Point ID:

MW-1

MW-8

MW-10

Sampling Event	Sampling Date	DIPE CONCENTRATION (µg/L)						
1	15-Feb-22	160	268	339				
2	9-Jan-23	191	239	555				
3	14-Apr-23	178	436	165				
4	14-Jul-23	268	436	17.6				
5	16-Oct-23	297	698	68.1				
6	24-Jun-24	176	698	75.3				
7								
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16								
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18								
19								
20								

Coefficient of Variation:

0.27

0.43

1.01

Mann-Kendall Statistic (S):

5

11

-7

Confidence Factor:

76.5%

97.2%

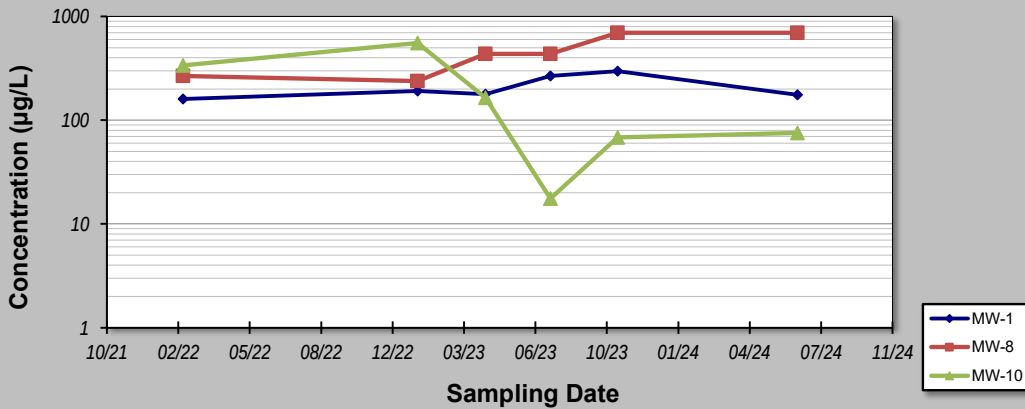
86.4%

Concentration Trend:

No Trend

Increasing

No Trend

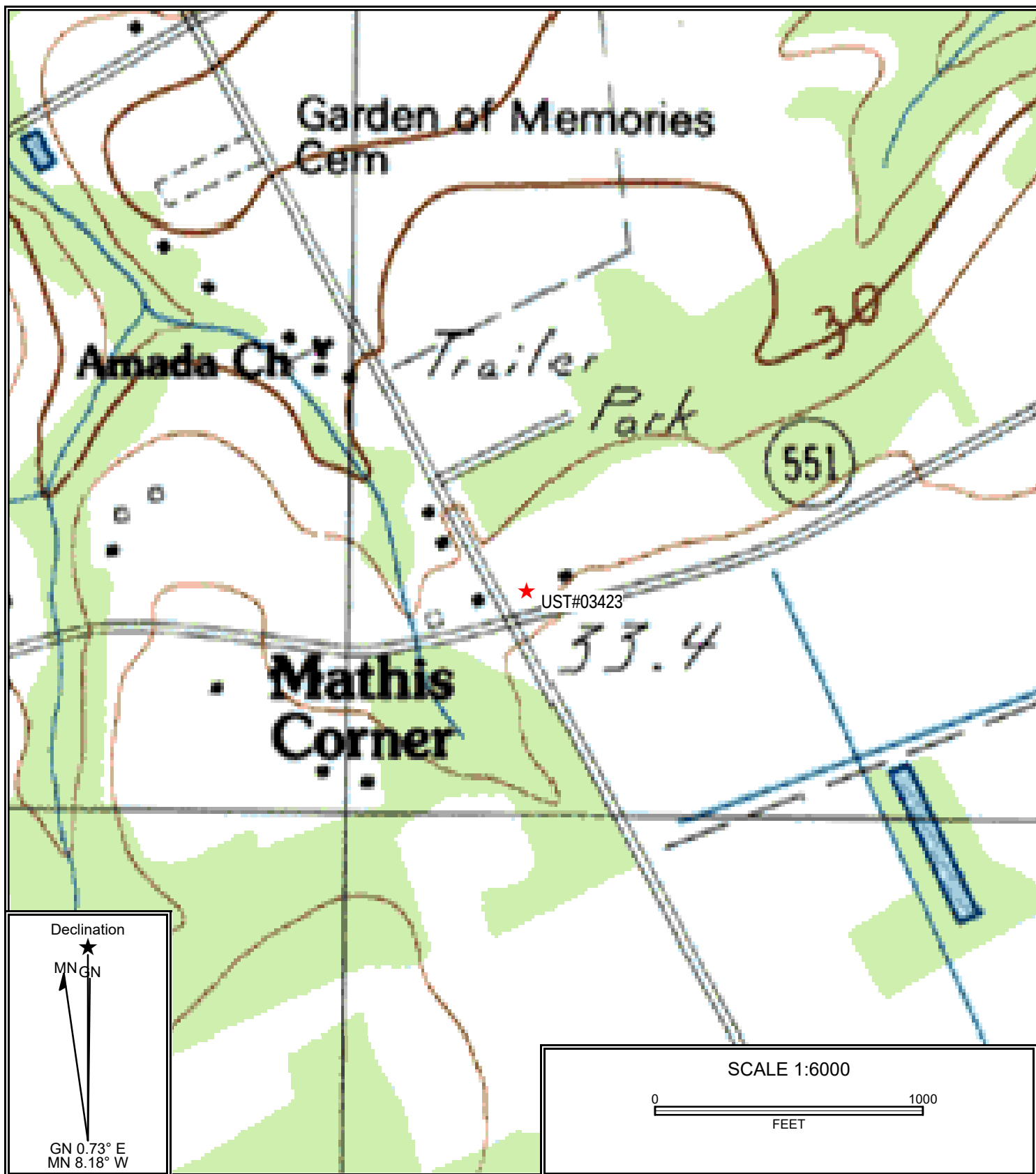


Notes:

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December 10, 2024

RECEIVED
DEC 13 2024
UST DIVISION

Mr. Robert A. Dunn, Hydrogeologist
Corrective Action Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management
South Carolina Department of Environmental Services
2600 Bull Street
Columbia, South Carolina 29201

Subject: Site-Specific Work Plan
Jake Huggins DBA Outpost at Willowcreek
Florence, South Carolina
UST Permit# 03423
Certified Site Rehabilitation Contractor UCC-0009



Dear Mr. Dunn,

Midlands Environmental Consultants Inc. (MECI) is pleased to submit the attached Site-Specific Work Plan for the referenced site. MECI is making this proposal to collect current analytical data to evaluate the groundwater quality beneath the site.

If you have any question or comments, please feel free to contact us at 803-808-2043.

Sincerely,
Midlands Environmental Consultants, Inc.



Jeff L. Coleman
Senior Scientist



Site-Specific Work Plan for Approved ACQAP Underground Storage Tank Management Division

To: Mr. Robert Dunn (SCDHEC Project Manager)
From: Jeff L. Coleman (Contractor Project Manager)
Contractor: Midlands Environmental Consultants, Inc. UST Contractor Certification Number: 009

Facility Name: Jake Huggins DBA Outpost at Willowcreek, LLC. UST Permit #: 03423
Facility Address: 4925 Pamplico Highway, Florence, SC 29505
Responsible Party: BW Stokes Oil Company Phone: (843) 621-5865
RP Address: 1001 Chase Street, Florence, SC 29501
Property Owner (if different): Barbara Williams
Property Owner Address: 3309 Willow Creek Road, Florence, SC 29505
Current Use of Property: Vacant Lot/Residence

Scope of Work (Please check all that apply)

☐ IGWA ☐ Tier II ☒ Groundwater Sampling ☐ GAC
☐ Tier I ☐ Monitoring Well Installation ☐ Other _____

Analyses (Please check all that apply)

Groundwater/Surface Water:

☒ BTEXNMDCA (8260D)	☐ Lead	☐ BOD	☐ Methane
☒ Oxygenates (8260D)	☐ 8 RCRA Metals	☐ Nitrate	☐ Ethanol
☒ EDB (8011)	☐ TPH	☐ Sulfate	☐ Dissolved Iron
☐ PAH (8270E)	☐ pH	☐ Other _____	

Drinking Water Supply Wells:

☒ BTEXNMDCA (524.2) ☐ Mercury (200.8 245.1 or 245.2) ☒ EDB (504.1)
☒ Oxygenates & Ethanol (8260D) ☐ RCRA Metals (200.8)

Soil:

☐ BTEXNM	☐ Lead	☐ RCRA Metals	☐ TPH-DRO (3550B/8015B)	☐ Grain Size
☐ PAH	☐ Oil & Grease (9071)	☐ TPH-GRO (5030B/8015B)	☐ TOC	

Air:

☐ BTEXN

Sample Collection (Estimate the number of samples of each matrix that are expected to be collected.)

_____ Soil	_____ 3 Water Supply Wells	_____ Air	_____ 2 Field Blank
_____ 14 Monitoring Wells	_____ 6 Surface Water	_____ 2 Duplicate	_____ 2 Trip Blank

Field Screening Methodology

Estimate number and total completed depth for each point, and include their proposed locations on the attached map.

of shallow points proposed: _____ Estimated Footage: _____ feet per point
of deep points proposed: _____ Estimated Footage: _____ feet per point

Field Screening Methodology: _____

Permanent Monitoring Wells

Estimate number and total completed depth for each well, and include their proposed locations on the attached map.

of shallow wells: _____ Estimated Footage: _____ feet per point
of deep wells: _____ Estimated Footage: _____ feet per point
of recovery wells: _____ Estimated Footage: _____ feet per point

Comments, if warranted:

Facility Name: Jake Huggins DBA Outpost at Willowcreek

Field Work Start-Up: 1/10/2025

Field Work Completion: 3/10/2025

Report Submittal: 4/10/2025

of Copies Provided to Property Owners:

Pump Test: ☐ Slug Test: ☐ (Check one and provide explanation below for choice)

Soil: _____ Tons

Purge Water: 200.0

Gallons

Drilling Fluids: _____ Gallons

Free-Phase Product: _____ Gallons

For example, list wells to be sampled, wells to be abandoned/repared, well pads/bolts/caps to replace, details of AFVR event, etc.

-MECI proposes conducting a groundwater sampling event to collect current analytical data to evaluate the groundwater quality beneath the site.

-Sampling at the referenced site has not been completed since June of 2024.

- MECI proposes purging all wells prior to collecting samples.

-MECI will attempt to sample 3 water supply wells and 6 surface water locations.

Yes Laboratory as indicated in ACQAP? (Yes/No)

If no, indicate laboratory information below.

Name of Laboratory:

SCDHEC Certification Number:

Name of Laboratory Director:

N/A Well Driller as indicated in ACQAP? (Yes/No)

If no, indicate driller information below.

Name of Well Driller:

SCLLR Certification Number:

N/A Other variations from ACQAP. Please describe below.

1. Attach a copy of the relevant portion of the USGS topographic map showing the site location.

2. Prepare a site base map. This map must be accurately scaled, but does not need to be surveyed. The map must include the following:

North Arrow

Proposed monitoring well locations

Location of property lines

Legend with facility name and address, UST permit number, and bar scale

Location of buildings

Streets or highways (indicate names and numbers)

Previous soil sampling locations

Location of all present and former ASTs and USTs

Previous monitoring well locations

Location of all potential receptors

Proposed soil boring locations

3. Assessment Component Cost Agreement, SCDHEC Form D-3664



ASSESSMENT COMPONENT COST AGREEMENT
 South Carolina Department of Health and Environmental Control
 Underground Storage Tank Management Division
 State Underground Petroleum Environmental Response Bank Account
 August 9, 2023

Facility Name: Jake Huggins DBA Outpost @ Willowcreek, LLC.

UST Permit #: 03423 Cost Agreement #: Proposal

ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL
A. Plan Preparation				
1.2 Site-specific Work Plan	1	each	\$183.22	\$183.22
2.2 Tax Map		each	\$85.50	\$0.00
3.2 QAPP Contractor Addendum (App B)		each	\$250.00	\$0.00
B. Survey				
1.1 Receptor Survey		each	\$673.06	\$0.00
C. Survey				
1.2 Comprehensive Survey		each	\$1,270.36	\$0.00
5.1 Ground Penetrating Radar Survey (100 x 100)		each	\$1,111.57	\$0.00
D. Mob/Demob				
1.2 Equipment		each	\$1,245.93	\$0.00
2.2 Personnel	2	each	\$516.69	\$1,033.38
3.2 Adverse Terrain Vehicle		each	\$610.75	\$0.00
E. Soil Borings				
1.1 Soil Borings (hand auger)		foot	\$21.80	\$0.00
F. Soil Borings (requiring equipment, push technology, etc) or Field Screening (including sampling and analyst)				
1.2 Standard		per foot	\$33.50	\$0.00
2.2 Fractured Rock		per foot	\$41.40	\$0.00
G.				
H. Well Abandonment				
1.2 2" diameter or less		per foot	\$3.79	\$0.00
2.2 Greater than 2" to 6" diameter		per foot	\$5.50	\$0.00
3.2 Dug/Bored well (up to 6 feet diameter)		per foot	\$18.32	\$0.00
I. Well Installation (In accordance with R.61-71)				
1.2 Water Table (hand augered)		per foot	\$31.40	\$0.00
2.B Water Table (drill rig) 2" Diameter		per foot	\$54.90	\$0.00
2.2 Single-cased 2" Diameter Monitoring Well >50ft		per foot	\$59.80	\$0.00
3.2 Telescoping		per foot	\$84.70	\$0.00
4.2 Rock Drilling		per foot	\$81.80	\$0.00
5.2 2" Rock Coring		per foot	\$88.50	\$0.00
6.2 Multi-sampling ports/screens		per foot	\$59.40	\$0.00
7.2 Recovery Well (4" diameter)		per foot	\$69.60	\$0.00
9.2 Rotasonic (2" diameter)		per foot	\$119.00	\$0.00
10.2 Re-develop Existing Well		per foot	\$13.44	\$0.00

J. Groundwater Sample Collection / Gauging Depth to Water/Product

1.2 Groundwater Purge	14	per well	\$73.29	\$1,026.06
2.2 Air or Vapors		sample	\$14.66	\$0.00
3.2 Water Supply Sample	3	sample	\$26.87	\$80.61
4.1A HydraSleeve		sample	\$34.20	\$0.00
4.2B No-purge Groundwater Sample/Surface water	6	sample	\$57.24	\$343.44
5.2 Gauge Well only		sample	\$8.55	\$0.00
6.2 Sample Below Product		sample	\$14.66	\$0.00
7.2 Passive Diffusion Bag		sample	\$31.75	\$0.00
8.2 Field Duplicates (MWs & WSWs) and Field Bla	4	sample	\$30.06	\$120.24
9.2 Groundwater (low flow purge)		sample	\$111.16	\$0.00
10.2 Equipment Blank		sample	\$30.06	\$0.00
11.1 Sample Product		per well	\$52.66	\$0.00

K. Laboratory Analyses-Groundwater

1.2 BTEXNM+Oxyg's+1,2 DCA+Eth(8260D)	22	per sample	\$149.02	\$3,278.44
2.2 Lead, Filtered		per sample	\$16.85	\$0.00
3.2 Rush EPA Method 8260B		per sample	\$187.62	\$0.00
4.2 Trimethal, Butyl, and Isopropyl Benzenes		per sample	\$34.20	\$0.00
5.2 PAH's		per sample	\$74.02	\$0.00
6.2 Lead		per sample	\$19.54	\$0.00
7.2 EDB by EPA 8011	21	per sample	\$55.21	\$1,159.41
8.2 EDB by EPA Method 8011 Rush		per sample	\$83.31	\$0.00
9.2 8 RCRA Metals		per sample	\$77.45	\$0.00
10.2 TPH (9070)		per sample	\$50.09	\$0.00
11.2 PH		per sample	\$6.35	\$0.00
12.2 BOD		per sample	\$24.42	\$0.00
13.2 Ethanol		per sample	\$18.08	\$0.00

K. Analyses-Drinking Water

14.2 BTEXNM+1,2 DCA (524.2)	6	per sample	\$151.52	\$909.12
15.2 7-OXYGENATES & ETHANOL (8260D)	6	per sample	\$112.07	\$672.42
16.2 EDB (504.1)	5	per sample	\$97.11	\$485.55
17.2 RCRA METALS (200.8)		per sample	\$122.15	\$0.00

K. Analyses-Soil

18.2 BTEX + Naphth.		per sample	\$78.18	\$0.00
19.2 PAH's		per sample	\$78.22	\$0.00
20.2 8 RCRA Metals		per sample	\$68.89	\$0.00
21.2 TPH-DRO (3550C/8015C)		per sample	\$48.86	\$0.00
22.2 TPH-GRO (5035B/8015C)		per sample	\$43.92	\$0.00
23.2 Grain size/hydrometer		per sample	\$127.04	\$0.00
24.2 Total Organic Carbon		per sample	\$37.38	\$0.00

K. Analyses-Air					
25.2 BTEX + Naphthalene		per sample	\$263.84		\$0.00
K. Hydrocarbon Fuel Identification					
27.1 C3-C44 Whole Oil (ASTM D3328)		per sample	\$465.93		\$0.00
28.1 Fuel Oxygenates (1624 Mod)		per sample	\$398.39		\$0.00
29.1 ALKYL Leads, EDB MMT (8080)		per sample	\$398.39		\$0.00
30.1 C8-C40 Full Scan (ASTM 5739)		per sample	\$629.64		\$0.00
31.1 Simulated Distillation (ASTM 2887)		per sample	\$398.39		\$0.00
32.1 Parent & Alk. PAH Com. (8270 SIM)		per sample	\$723.63		\$0.00
33.1 C3-C10 Piano (8260 MOD)		per sample	\$599.88		\$0.00
34.1 C10+Alkane Fingerprints		per sample	\$599.88		\$0.00
35.1 Expert Data Interpretation & Report		each	\$595.30		\$0.00
L. Aquifer Characterization					
1.2 Pumping Test		per hour	\$28.09		\$0.00
2.2 Slug Test		per test	\$233.31		\$0.00
3.2 Fractured Rock		per test	\$122.15		\$0.00
M. Free Product					
1.1 Free Product Recovery Rate Test		each	\$46.42		\$0.00
N.					
O. Risk Evaluation					
1.2 Tier I Risk Evaluation		each	\$366.45		\$0.00
2.2 Tier II Risk Evaluation		each	\$122.15		\$0.00
P. Survey					
1.1 Subsequent Survey		each	\$297.65		\$0.00
Q. Disposal (gallons or tons)					
1.2 Wastewater	200	gallon	\$1.19		\$238.00
2.2 Free Product		gallon	\$1.63		\$0.00
3.2 Soil Treatment/Disposal		ton	\$156.25		\$0.00
4.2 Drilling fluids		gallon	\$1.25		\$0.00
R. Miscellaneous (attach receipts)					
		each	\$0.00		\$0.00
		each	\$0.00		\$0.00
		each	\$0.00		\$0.00
T. Tier I Assessment (Use DHEC 3665 form)					
1.2 Southeast Region		standard	\$12,622.56		\$0.00
2.2 All Other Counties		standard	\$13,844.06		\$0.00
U. IGWA (Use DHEC 3666 form)					
1.2 Southeast Region		standard	\$4,353.67		\$0.00
2.2 All Other Counties		standard	\$4,720.01		\$0.00
22. Active Correction Action					
		PFP	Bid Cost		\$0.00

W. Aggressive Fluid & Vapor Recovery (AFVR)					
1.2 8-hour Event		per event	\$1,787.40		\$0.00
2.1 24-hour Event		per event	\$4,407.78		\$0.00
3.1 48-hour Event		per event	\$7,242.29		\$0.00
4.1 96-hour Event		per event	\$14,482.28		\$0.00
5.1 Off-gas Treatment 8 hour		per event	\$141.17		\$0.00
6.2 Off-gas Treatment 24 hour		per event	\$294.30		\$0.00
7.2 Off-gas Treatment 48 hour		per event	\$386.10		\$0.00
8.1 Off-gas Treatment 96 hour		per event	\$898.84		\$0.00
9.1 Off-gas Treatment 8 hour (w/chlorinated compounds)		per event	\$464.40		\$0.00
10.1 Off-gas Treatment 24 hour (w/chlorinated compounds)		per event	\$540.00		\$0.00
11.1 Off-gas Treatment 48 hour (w/chlorinated compounds)		per event	\$1,080.00		\$0.00
12.1 Off-gas Treatment 96 hour (w/chlorinated compounds)		per event	\$2,160.00		\$0.00
13.2 AFVR Effluent Disposal(w/chlorinated compounds)		gallon	\$0.64		\$0.00
14.2 AFVR Site Reconnaissance		each	\$302.40		\$0.00
15.1 Additional Hook-ups		each	\$29.68		\$0.00
16.2 AFVR Effluent Disposal		gallon	\$0.53		\$0.00
17.2 AFVR Mobilization/Demobilization		each	\$777.60		\$0.00
18.1 Mobilization for absorbents/skimers		each	\$516.69		\$0.00
19.1 Well sock 2" ID well		each	\$36.94		\$0.00
20.1 Well sock 4" ID well		each	\$49.03		\$0.00
21.1 pad (per pad)		each	\$49.95		\$0.00
22.1 3" diameter x 10' length boom		each	\$108.00		\$0.00
23.1 5" diameter x 10' length boom		each	\$132.84		\$0.00
24.1 New FPP recovery skimmer (2" wells)		each	\$791.10		\$0.00
25.1 New FPP recovery skimmer (4" wells)		each	\$1,247.40		\$0.00
26.1 Refurbished FPP recovery skimmer (2" or 4" wells)		each	\$760.32		\$0.00
27.1 Disposal of Absorbents		pound	\$4.10		\$0.00
28.1 Disposal of product from skimmers		gallon	\$0.50		\$0.00
X. Granulated Activated Carbon (GAC) filter system installation & service:					
1.2 New GAC System Installation		each	\$2,320.86		\$0.00
2.2 Refurbished GAC Sys. Install		each	\$1,099.35		\$0.00
3.2 Filter replacement/removal		each	\$427.53		\$0.00
4.2 GAC System removal, cleaning, & refurbishment		each	\$335.92		\$0.00
5.2 GAC System housing		each	\$305.38		\$0.00
6.2 In-line particulate filter		each	\$183.22		\$0.00
7.2 Additional piping & fittings		foot	\$1.84		\$0.00

Y. Well Repair					
1.2 Additional Copies of the Report Delivered		each	\$61.07		\$0.00
2.2 Repair 2x2 MW pad		each	\$61.07		\$0.00
3.2 Repair 4x4 MW pad		each	\$107.49		\$0.00
4.2 Replace well vault		each	\$144.14		\$0.00
5.2 Replace well cover bolts		each	\$3.18		\$0.00
6.2 Replace locking well cap & lock		each	\$18.32		\$0.00
7.2 Replace/Repair stick-up		each	\$163.68		\$0.00
8.2 Convert Flush-mount to Stick-up		each	\$183.22		\$0.00
9.2 Convert Stick-up to Flush-mount		each	\$158.79		\$0.00
10.2 Replace missing/illegible well ID plate		each	\$14.66		\$0.00
11.1 Down-hole Camera		per foot	\$29.25		\$0.00
Z. High Resolution Site Characterization					
1.1 HRSC Screening Equipment Mobilization		each	\$1,468.80		\$0.00
2.1 HRSC Drilling Category 1		per foot	\$31.32		\$0.00
3.1 HRSC Drilling Category 2		per foot	\$36.18		\$0.00
4.1 HRSC Drilling Category 3		per foot	\$29.16		\$0.00
5.1 HRSC 3-D Model		each	\$4,363.20		\$0.00
S. Report Prep & Project Management	12%	percent	\$9,529.89		\$1,143.59
TOTAL					\$10,673.48

Garden of Memories
Cem

Amado Ch

Trailer

Pack

WSW-3

SW-6

WSW-1

SW-5

SW-2

WSW-2

SW-4

SW-3

SW-1

UST#03423

Mathis
Corner

551

33.4

Declination

MN GN

GN 0.73° E
MN 8.18° W

SCALE 1:6000

0 1000
FEET

Reference: Evergreen, South Carolina
USGS 7.5 Min. Quad
Contour Interval - 2 Meters

Midlands
Environmental
Consultants, Inc.

Site Location

Jake Huggins DBA Outpost at Willowcreek, LLC.
4925 Pamlico Highway, Florence, SC
UST Permit# 18419

Figure 1

MECI# 24-8374

Explanation:

- Location of "Shallow" Monitoring Well
- Location of "Deep" Monitoring Well
- Location of "Shallow" Temporary Monitoring Well

SW Location of Surface Water Sample Collection

Estimated Location of Removed Underground Storage Tanks

DHP Overhead Powerline

Property Line

water Buried Water Line

comm. Buried Communication Line

X Fence

ditch Drainage Ditch

Florence Co. TMS#
00213-01-090
(Undeveloped/Agricultural)

Florence Co. TMS#
00213-01-054
(Undeveloped/Agricultural)

Florence Co. TMS#
00213-01-052
Mobile Home Park

Florence Co. TMS#
00213-01-053
(Undeveloped/Agricultural)

Florence Co. TMS#
00213-01-149
(Undeveloped/Agricultural)

Florence Co. TMS#
00213-01-019
(Residential)

Florence Co. TMS#
00248-01-018
(Undeveloped/Agricultural)

Florence Co. TMS#
00214-01-013
(Undeveloped)

Site Base Map

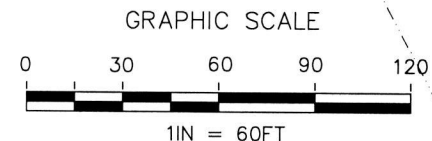
Jake Huggins DBA Outpost at Willow Creek
4925 Pamplico Highway
Florence, South Carolina
UST Permit# 03423

Midlands
Environmental
Consultants, Inc.

JOB NO. 24-8374
DATE July 8, 2024
FIGURE

2

Drawing Based on MECI Field Notes, Florence County GIS Imagery and an RLS Survey by Construction Supports Services, dated 2/25/2022.



ALL LOCATIONS ARE APPROXIMATE



SC DEPARTMENT of
**ENVIRONMENTAL
SERVICES**

Robert A. Dunn
Corrective Action & Field Support Section
Underground Storage Tank Management Division
2600 Bull Street
Columbia, SC 29201

B W STOKES OIL CO INC
ATTN MR BENNIE STOKES
PO BOX 1656
FLORENCE SC 29503

MAR 17 2025

Re: Site-Specific Work Plan Approval & Groundwater Sampling Notice to Proceed
Jake Huggins Dba Outpost At Willowcreek; 4925 Pamplico Hwy., Florence, SC
UST Permit #03423; CA #69734
Release reported February 26, 2002
Site-Specific Work Plan (SSWP) received December 13, 2024
Florence County



Dear Mr. Stokes:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Environmental Services (SCDES) has reviewed and approved the referenced SSWP. All scopes of work should be conducted in compliance with your contractor's ACQAP, the submitted SSWP, and all applicable regulations.

Pursuant to S.C. Code Ann. Section 44-2-40(D), "The SUPERB Account and the SUPERB Financial Responsibility Fund shall provide combined coverage for site rehabilitation and third-party claims, respectively, not to exceed one million dollars per occurrence". According to SCDES records, approximately \$118,059.02 has been expended from the SUPERB account to date. This scope of work, as recommended by your contractor, is anticipated to cost approximately \$10,673.48.

The Monitoring Report and invoice should be submitted within 60 days of the date of this correspondence. If the report cannot be submitted as required, an extension request must be submitted in writing prior to the due date. The Department will issue a Notice of Alleged Violation if the report or an extension request is not submitted by the required due date. The approved costs are detailed in the enclosed Cost Agreement (CA).

The contractor must provide notification to the UST Project Manager via email 4 days prior to initiation of any site rehabilitation activities. If there are any changes to the schedule, the UST Project Manager must be contacted within 24 hours of those changes.

In accordance with Section IV.A.4.c of the SUPERB Site Rehabilitation & Fund Access Regulation (R.61-98), the contractor shall be required to indemnify the property owner, underground storage tank owner/operator and the State of South Carolina from and against all claims, damages, losses and expenses arising out of or resulting from activity conducted by the contractor, its agents, employees or subcontractors.

Your contractor can submit an invoice for direct payment from the State Underground Petroleum Environmental Response Bank (SUPERB) Account for pre-approved costs. If the invoice is not submitted within 120 days from the date of this letter, monies allocated to pay this invoice will be uncommitted. This means that the invoice will not be processed for payment until all other committed funds are paid or monies become available.

Sections 44-2-110(4) and 44-2-130 of the SUPERB Statute state that the SUPERB Account cannot compensate any costs that are not pre-approved. If for any reason additional tasks will be completed, the additional tasks and the associated cost, must be pre-approved by the UST Management Division for the costs to be paid. SCDES reserves the authority to pay only for work properly performed and/or technically justified and will only pay rates in accordance with established criteria. Further, SCDES reserves the right to question and/or reject costs if deemed unreasonable and the right to audit project records at any time during the project or after completion of work. Reimbursement for site rehabilitation activities shall in no event exceed the actual costs incurred as required by SUPERB Site Rehabilitation and Fund Access Regulations (R.61-98 § III.3.b).

Please note that applicable South Carolina certification requirements regarding laboratory services, well installation, and report preparation must be satisfied. Any site rehabilitation activity associated with the UST release must be performed by a SCDES-certified site rehabilitation contractor as required by the SUPERB Site Rehabilitation and Fund Access Regulation, R.61-98.

SCDES grants pre-approval for transportation of virgin petroleum impacted soil and groundwater from the referenced site to a permitted treatment facility. There can be no spillage or leakage in transport. All Investigation-Derived Waste (IDW) must be properly contained and labeled prior to disposal. IDW should not be stored on-site longer than ninety days. A copy of the disposal manifest and/or acceptance letter from the receiving facility that clearly designates the quantity received must be included as an appendix to the report. If the Chemical of Concern concentrations based on laboratory analysis is below Risk-Based Screening Levels (RBSLs), please contact the Project Manager for approval to dispose of soil and/or groundwater on-site. The SUPERB Account will not reimburse for transportation or treatment of soil and/or groundwater with concentrations below RBSLs.

The contractor will be responsible for keeping and preserving suitable records of hydrological and other site assessments, site plans, contracts, accounts, invoices, or other transactions related to the cleanup and rehabilitation and the records must be accessible to the department during regular business hours. In addition, this includes all subcontractor agreements, invoices, correspondence, plans, reports, records, including electronic and paper formats. All records must be maintained for 10 years after project completion.

UST #03423; SSWP Approval & Groundwater Sampling Notice to Proceed
Page 3

On all correspondence regarding this site, please reference the UST Permit number. Should you have any questions please contact me by email Robert.Dunn@des.sc.gov or phone (803) 898-0671.

Sincerely,

A handwritten signature in black ink, appearing to be 'RD', with a long horizontal flourish extending to the right.

Robert A. Dunn
Hydrogeologist III

Enc: Approved CA

Cc: Midlands Environmental Consultants, PO Box 854, Lexington, SC 29071 (w/ Enc)
Technical file (w/ Enc)

Approved Cost Agreement 69734

Facility: 03423 JAKE HUGGINS DBA OUTPOST AT WILLOWCREEK LLC

DUNNRA

PO Number:

<u>Task / Description</u>	<u>Categories</u>	<u>Item Description</u>	<u>Qty / Pct</u>	<u>Unit Price</u>	<u>Amount</u>
A PLAN PREPARATION					
		1.2 SITE SPECIFIC WORK PLAN	1.0000	\$183.220	183.22
D MOB/DEMOB					
		2.2 PERSONNEL	2.0000	\$516.690	1,033.38
J SAMPLE COLLECTION					
		1.2 GROUND WATER PURGE	14.0000	\$73.290	1,026.06
		3.2 WATER SUPPLY SAMPLE	3.0000	\$26.870	80.61
		4.2B NO-PURGE GROUNDWATER	6.0000	\$57.240	343.44
		8.2 FIELD DUPL. (MWS & WWS) & FB	4.0000	\$30.060	120.24
K ANALYSES					
	DW DRINKING WATER	14.2 BTEXNM+1,2 DCA (524.2) WSW	6.0000	\$151.520	909.12
		15.2 OXYGENATES & ETHANOL 8260D	6.0000	\$112.070	672.42
		16.2 EDB (504.1)	5.0000	\$97.110	485.55
	GW GROUNDWATER	1.2 BTEXNM+OXYGS+1,2 DCA+ETH 8260D	22.0000	\$149.020	3,278.44
		7.2 EDB BY EPA 8011	21.0000	\$55.210	1,159.41
Q DISPOSAL					
		1.2 WASTEWATER	200.0000	\$1.190	238.00
S REPORT PROJECT MANAGEMENT					
		S REPORT PREP & PROJ. MANAGEMENT	0.1200	\$9,529.890	1,143.59
Total Amount					10,673.48

Robert A. Dunn

From: jlc@meci.net
Sent: Thursday, April 10, 2025 8:30 AM
To: Robert A. Dunn
Cc: Stephanie M. Briney
Subject: UST#03423/CA#69734-Addendum
Attachments: 69734_Addendum.xlsx



Robert,

Please find the attached addendum for the above referenced site. Let me know if you have any questions or concerns.

Thanks,



Jeff L. Coleman
Senior Scientist/Managing Principal
Midlands Environmental Consultants, Inc.
(office) 803-808-2043 Ext. 2
(cell) 803-446-0365
jlc@meci.net

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.



ASSESSMENT COMPONENT COST AGREEMENT
 South Carolina Department of Health and Environmental Control
 Underground Storage Tank Management Division
 State Underground Petroleum Environmental Response Bank Account
 August 9, 2023

Facility Name: Jake Huggins BDA Outposy @ Willowcreek

UST Permit #: 3423

Cost Agreement #: 69734

ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL
A. Plan Preparation				
1.2 Site-specific Work Plan		each	\$183.22	\$0.00
2.2 Tax Map		each	\$85.50	\$0.00
3.2 QAPP Contractor Addendum (App B)		each	\$250.00	\$0.00
B. Survey				
1.1 Receptor Survey		each	\$673.06	\$0.00
C. Survey				
1.2 Comprehensive Survey		each	\$1,270.36	\$0.00
5.1 Ground Penetrating Radar Survey (100 x 100)		each	\$1,111.57	\$0.00
D. Mob/Demob				
1.2 Equipment		each	\$1,245.93	\$0.00
2.2 Personnel		each	\$516.69	\$0.00
3.2 Adverse Terrain Vehicle		each	\$610.75	\$0.00
E. Soil Borings				
1.1 Soil Borings (hand auger)		foot	\$21.80	\$0.00
F. Soil Borings (requiring equipment, push technology, etc) or Field Screening (including sampling and analyst)				
1.2 Standard		per foot	\$33.50	\$0.00
2.2 Fractured Rock		per foot	\$41.40	\$0.00
G.				

H. Well Abandonment				
1.2 2" diameter or less		per foot	\$3.79	\$0.00
2.2 Greater than 2" to 6" diameter		per foot	\$5.50	\$0.00
3.2 Dug/Bored well (up to 6 feet diameter)		per foot	\$18.32	\$0.00
I. Well Installation (In accordance with R.61-71)				
1.2 Water Table (hand augered)		per foot	\$31.40	\$0.00
2.B Water Table (drill rig) 2" Diameter		per foot	\$54.90	\$0.00
2.2 Single-cased 2" Diameter Monitoring Well >50ft		per foot	\$59.80	\$0.00
3.2 Telescoping		per foot	\$84.70	\$0.00
4.2 Rock Drilling		per foot	\$81.80	\$0.00
5.2 2" Rock Coring		per foot	\$88.50	\$0.00
6.2 Multi-sampling ports/screens		per foot	\$59.40	\$0.00
7.2 Recovery Well (4" diameter)		per foot	\$69.60	\$0.00
9.2 Rotasonic (2" diameter)		per foot	\$119.00	\$0.00
10.2 Re-develop Existing Well		per foot	\$13.44	\$0.00

J. Groundwater Sample Collection / Gauging Depth to Water/Product				
1.2 Groundwater Purge		per well	\$73.29	\$0.00
2.2 Air or Vapors		sample	\$14.66	\$0.00
3.2 Water Supply Sample	-1	sample	\$26.87	(\$26.87)
4.1A HydraSleeve		sample	\$34.20	\$0.00
4.2B No-purge Groundwater Sample/Surface water		sample	\$57.24	\$0.00
5.2 Gauge Well only		sample	\$8.55	\$0.00
6.2 Sample Below Product		sample	\$14.66	\$0.00
7.2 Passive Diffusion Bag		sample	\$31.75	\$0.00
8.2 Field Duplicates (MWs & WSWs) and Field Blanks		sample	\$30.06	\$0.00
9.2 Groundwater (low flow purge)		sample	\$111.16	\$0.00
10.2 Equipment Blank		sample	\$30.06	\$0.00
11.1 Sample Product		per well	\$52.66	\$0.00

K. Laboratory Analyses-Groundwater				
1.2 BTEXNM+Oxyg's+1,2 DCA+Eth(8260D)	1	per sample	\$149.02	\$149.02
2.2 Lead, Filtered		per sample	\$16.85	\$0.00
3.2 Rush EPA Method 8260B		per sample	\$187.62	\$0.00
4.2 Trimethal, Butyl, and Isopropyl Benzenes		per sample	\$34.20	\$0.00
5.2 PAH's		per sample	\$74.02	\$0.00
6.2 Lead		per sample	\$19.54	\$0.00

Addendum

Previously Approved: \$10,673.48

Increase: (\$384.60)

New Approved Total: \$10,288.87

Project Manager: _____

Section Manager: _____

Finance: _____

Date: _____

of pages

From: _____

UST/SCDHEC

fax # () _____

Phone # () _____

The SCDHEC reserves the authority to pay only for work properly performed and/or technically justified and will only pay rates in accordance with established criteria.

7.2 EDB by EPA 8011	1	per sample	\$55.21	\$55.21
8.2 EDB by EPA Method 8011 Rush		per sample	\$83.31	\$0.00
9.2 8 RCRA Metals		per sample	\$77.45	\$0.00
10.2 TPH (9070)		per sample	\$50.09	\$0.00
11.2 PH		per sample	\$6.35	\$0.00
12.2 BOD		per sample	\$24.42	\$0.00
13.2 Ethanol		per sample	\$18.08	\$0.00
K. Analyses-Drinking Water				
14.2 BTEXNM+1,2 DCA (524.2)	-1	per sample	\$151.52	(\$151.52)
15.2 7-OXYGENATES & ETHANOL (8260D)	-1	per sample	\$112.07	(\$112.07)
16.2 EDB (504.1)	-1	per sample	\$97.11	(\$97.11)
17.2 RCRA METALS (200.8)		per sample	\$122.15	\$0.00
K. Analyses-Soil				
18.2 BTEX + Naphth.		per sample	\$78.18	\$0.00
19.2 PAH's		per sample	\$78.22	\$0.00
20.2 8 RCRA Metals		per sample	\$68.89	\$0.00
21.2 TPH-DRO (3550C/8015C)		per sample	\$48.86	\$0.00
22.2 TPH-GRO (5035B/8015C)		per sample	\$43.92	\$0.00
23.2 Grain size/hydrometer		per sample	\$127.04	\$0.00
24.2 Total Organic Carbon		per sample	\$37.38	\$0.00
K. Analyses-Air				
25.2 BTEX + Naphthalene		per sample	\$263.84	\$0.00
K. Hydrocarbon Fuel Identification				
27.1 C3-C44 Whole Oil (ASTM D3328)		per sample	\$465.93	\$0.00
28.1 Fuel Oxygenates (1624 Mod)		per sample	\$398.39	\$0.00
29.1 ALKYL Leads, EDB MMT (8080)		per sample	\$398.39	\$0.00
30.1 C8-C40 Full Scan (ASTM 5739)		per sample	\$629.64	\$0.00
31.1 Simulated Distillation (ASTM 2887)		per sample	\$398.39	\$0.00
32.1 Parent & Alk. PAH Com. (8270 SIM)		per sample	\$723.63	\$0.00
33.1 C3-C10 Piano (8260 MOD)		per sample	\$599.88	\$0.00
34.1 C10+Alkane Fingerprints		per sample	\$599.88	\$0.00
35.1 Expert Data Interpretation & Report		each	\$595.30	\$0.00
L. Aquifer Characterization				
1.2 Pumping Test		per hour	\$28.09	\$0.00
2.2 Slug Test		per test	\$233.31	\$0.00
3.2 Fractured Rock		per test	\$122.15	\$0.00
M. Free Product				
1.1 Free Product Recovery Rate Test		each	\$46.42	\$0.00
N.				
O. Risk Evaluation				
1.2 Tier I Risk Evaluation		each	\$366.45	\$0.00
2.2 Tier II Risk Evaluation		each	\$122.15	\$0.00
P. Survey				
1.1 Subsequent Survey		each	\$297.65	\$0.00
Q. Disposal (gallons or tons)				
1.2 Wastewater	-134.5	gallon	\$1.19	(\$160.06)
2.2 Free Product		gallon	\$1.63	\$0.00
3.2 Soil Treatment/Disposal		ton	\$156.25	\$0.00
4.2 Drilling fluids		gallon	\$1.25	\$0.00
R. Miscellaneous (attach receipts)				
		each	\$0.00	\$0.00
		each	\$0.00	\$0.00
		each	\$0.00	\$0.00
T. Tier I Assessment (Use DHEC 3665 form)				
1.2 Southeast Region		standard	\$12,622.56	\$0.00
2.2 All Other Counties		standard	\$13,844.06	\$0.00
U. IGWA (Use DHEC 3666 form)				
1.2 Southeast Region		standard	\$4,353.67	\$0.00
2.2 All Other Counties		standard	\$4,720.01	\$0.00
22. Active Correction Action				
		PFP	Bid Cost	\$0.00
W. Aggressive Fluid & Vapor Recovery (AFVR)				
1.2 8-hour Event		per event	\$1,787.40	\$0.00
2.1 24-hour Event		per event	\$4,407.78	\$0.00
3.1 48-hour Event		per event	\$7,242.29	\$0.00
4.1 96-hour Event		per event	\$14,482.28	\$0.00
5.1 Off-gas Treatment 8 hour		per event	\$141.17	\$0.00
6.2 Off-gas Treatment 24 hour		per event	\$294.30	\$0.00
7.2 Off-gas Treatment 48 hour		per event	\$386.10	\$0.00
8.1 Off-gas Treatment 96 hour		per event	\$898.84	\$0.00
9.1 Off-gas Treatment 8 hour (w/chlorinated compounds)		per event	\$464.40	\$0.00

10.1 Off-gas Treatment 24 hour (w/chlorinated compounds)		per event	\$540.00	\$0.00
11.1 Off-gas Treatment 48 hour (w/chlorinated compounds)		per event	\$1,080.00	\$0.00
12.1 Off-gas Treatment 96 hour (w/chlorinated compounds)		per event	\$2,160.00	\$0.00
13.2 AFVR Effluent Disposal(w/chlorinated compounds)		gallon	\$0.64	\$0.00
14.2 AFVR Site Reconnaissance		each	\$302.40	\$0.00
15.1 Additional Hook-ups		each	\$29.68	\$0.00
16.2 AFVR Effluent Disposal		gallon	\$0.53	\$0.00
17.2 AFVR Mobilization/Demobilization		each	\$777.60	\$0.00
18.1 Mobilization for absorbents/skimers		each	\$516.69	\$0.00
19.1 Well sock 2" ID well		each	\$36.94	\$0.00
20.1 Well sock 4" ID well		each	\$49.03	\$0.00
21.1 pad (per pad)		each	\$49.95	\$0.00
22.1 3" diameter x 10' length boom		each	\$108.00	\$0.00
23.1 5" diameter x 10' length boom		each	\$132.84	\$0.00
24.1 New FPP recovery skimmer (2" wells)		each	\$791.10	\$0.00
25.1 New FPP recovery skimmer (4" wells)		each	\$1,247.40	\$0.00
26.1 Refurbished FPP recovery skimmer (2" or 4" wells)		each	\$760.32	\$0.00
27.1 Disposal of Absorbents		pound	\$4.10	\$0.00
28.1 Disposal of product from skimmers		gallon	\$0.50	\$0.00
X. Granulated Activated Carbon (GAC) filter system installation & service:				
1.2 New GAC System Installation		each	\$2,320.86	\$0.00
2.2 Refurbished GAC Sys. Install		each	\$1,099.35	\$0.00
3.2 Filter replacement/removal		each	\$427.53	\$0.00
4.2 GAC System removal, cleaning, & refurbishment		each	\$335.92	\$0.00
5.2 GAC System housing		each	\$305.38	\$0.00
6.2 In-line particulate filter		each	\$183.22	\$0.00
7.2 Additional piping & fittings		foot	\$1.84	\$0.00
Y. Well Repair				
1.2 Additional Copies of the Report Delivered		each	\$61.07	\$0.00
2.2 Repair 2x2 MW pad		each	\$61.07	\$0.00
3.2 Repair 4x4 MW pad		each	\$107.49	\$0.00
4.2 Replace well vault		each	\$144.14	\$0.00
5.2 Replace well cover bolts		each	\$3.18	\$0.00
6.2 Replace locking well cap & lock		each	\$18.32	\$0.00
7.2 Replace/Repair stick-up		each	\$163.68	\$0.00
8.2 Convert Flush-mount to Stick-up		each	\$183.22	\$0.00
9.2 Convert Stick-up to Flush-mount		each	\$158.79	\$0.00
10.2 Replace missing/illegible well ID plate		each	\$14.66	\$0.00
11.1 Down-hole Camera		per foot	\$29.25	\$0.00
Z. High Resolution Site Characterization				
1.1 HRSC Screening Equipment Mobilization		each	\$1,468.80	\$0.00
2.1 HRSC Drilling Category 1		per foot	\$31.32	\$0.00
3.1 HRSC Drilling Category 2		per foot	\$36.18	\$0.00
4.1 HRSC Drilling Category 3		per foot	\$29.16	\$0.00
5.1 HRSC 3-D Model		each	\$4,363.20	\$0.00
S. Report Prep & Project Management	12%	percent	(\$343.40)	(\$41.21)
TOTAL				(\$384.60)

Document Receipt Information

☒ Hard Copy

☒ CD

☐ Email

Date Received 4-23-25

Permit Number 03423

Project Manager Robert Dunn

Name of Contractor MECI

Description GWM

Docket Number 51 dec

Scanned _____

Verified _____

GROUNDWATER MONITORING REPORT

Jake Huggins DBA Outpost at Willowcreek
4925 Pamplico Highway
Florence, South Carolina
Florence County
UST Permit# 03423
CA# 69734

Prepared By:

 Midlands
Environmental
Consultants, Inc.
231 Dooley Road, Lexington, SC 29073
(803) 808-2043 fax: 808-2048

April 9, 2025

MECI Project No. 25-8491



Midlands Environmental Consultants, Inc.

April 9, 2025

Mr. Robert Dunn, Hydrogeologist
Corrective Action & Field Support Section
Underground Storage Tank Division
Bureau of Land and Waste Management
South Carolina Department of Environmental Services
2600 Bull Street
Columbia, South Carolina 29201

Subject: Groundwater Monitoring Report
Jake Huggins DBA Outpost at Willowcreek
4925 Pamplico Highway
Florence, South Carolina
Florence County
UST Permit# 03423; CA# 69734
MECI Project# 25-8491
Certified Site Rehabilitation Contractor UCC-0009



COPY

RECEIVED

APR 23 2025

UST DIVISION

Dear Mr. Dunn,

On behalf of BW Stokes Oil Company, Inc., Midlands Environmental Consultants Inc. (MECI) is pleased to submit the attached Groundwater Monitoring Report for the referenced site. This report describes assessment activities conducted at the site and results of those activities in general accordance with South Carolina Department of Environmental Services (SCDES) guidelines, including adherence to the UST Division Programmatic Quality Assurance Program Plan (QAPP).

Midlands Environmental appreciates the opportunity to offer our professional environmental services to you on this project. Please feel free to contact us at 803-808-2043, if you have any immediate questions or comments.

Sincerely,
Midlands Environmental Consultants, Inc.



Jeff L. Coleman
Senior Scientist



Bryan T. Shane, P.G.
Principal Geologist

Cc: SCDOT, PO Box 191, Columbia, SC 29201
Linda T. Huggins, 3695 Willow Creek Road, Florence, SC 29505
Barbara M. Williams, 3309 Willow Creek Road, Florence, SC 29505
Willie B. Winchester Jr., 3101 Willow Creek Road, Florence, SC 29505
William L. Huggins, 621 Mallard Pond Road, Murrells Inlet, SC 29576

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**APPENDIX H – LOCAL ZONING REGULATIONS

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**APPENDIX J – ACCESS AGREEMENTS

APPENDIX K – DATA VERIFICATION CHECKLIST

APPENDIX L – DETAILED RECEPTOR INFORMATION

APPENDIX M – MANN-KENDALL STATISTICAL ANALYSES

NOTE: ITEMS LISTED WITH AN ** BESIDE IT WERE NOT NEEDED AS A PART OF THIS SCOPE OF WORK

1.0 INTRODUCTION

i. Facility Information

Name: Jake Huggins DBA Outpost at Willowcreek
UST Permit# 03423
Address: 4925 Pamplico Highway, Florence SC 29505
Telephone #: N/A

ii. Owner/Operator Information

Name BW Stokes Oil Company, Inc.
Address P.O. Box 1656, Florence, SC 29503
Telephone # (843) 621-5865

iii. Property Owner Information

Name Barbara Williams
Tax Map #: Florence County Tax Map #: 00213-01-019
Address 3309 Willow Creek Road, Florence, SC 29505
Telephone # (843) 662-0808

iv. Contractor Information

Name: Midlands Environmental Consultants, Inc.
Certification #: 9
Address: P. O. Box 854, Lexington, SC 29072
Telephone #: (803) 808-2043

v. Well Driller Information

Name: N/A
Certification #: N/A
Address: N/A
Telephone #: N/A

vi. Laboratory Information

Name: Pace Analytical Services, LLC.
Certification #: 99006001
Address: 9800 Kinney Ave. Suite 100, Huntersville, NC 28078
Telephone #: (704) 875-9092

vii. Facility History

Release Date:		Release #1 reported 2/26/2002	
Estimated Quantity of Release:		Unknown	
Other Releases at Facility:		Release #2 (NFA'd 7/28/2020)	
Release Ranking:		2BB	
Current Site Usage:		Residence (SCDOT Right of Way)	
Tank #	Capacity/Product	In Use/Abandoned	Tank Status
1	2,000 Gal. Regular/Unleaded Gasoline	Abandoned	Removed (6/30/2016)
2	4,000 Gal. Gasoline Plus	Abandoned	Removed (6/30/2016)
3	6,000 Gal. Gasoline Super/Premium	Abandoned	Removed (6/30/2016)
4	3,000 Gal. Regular/Unleaded Gasoline	Abandoned	Removed (6/30/2016)
5	500 Gal. Kerosene	Abandoned	Removed (6/30/2016)

The following table presents previous site activities performed at the site:

Date	Assessment Type	Notes:
Pre 2008	Unknown MWI	Completed by unknown contractor. Installation of MW-1 through MW-4.
8/26/2008	Tier II Assessment	Completed by Davis & Brown. Monitoring wells MW-5, MW-6 installed. MW-5 installed as IGWA associated with second release. Analytical results from MW-1, MW-4, MW-5 and MW-6 were above RBSL for Benzene, MTBE, Naphthalene.
5/12/2009	Tier II Assessment	Completed by Davis & Brown. Installation of MW-7 through MW-22, MW-1D, and MW-2D. Multiple wells detected concentrations above RBSL's.
6/4/2015	Groundwater Sampling Event	Completed by Davis & Brown. Monitoring wells MW-14 through 20 and MW-2D reported destroyed. Multiple wells detected concentrations above RBSL's.
Circa 2016	DOT Construction	SCDOT widening destroys remaining well network.
3/7/2022	Tier II Assessment	Completed by MECI. This assessment included field screening of soil and groundwater samples, the installation of monitoring wells MW-1 thru MW-10 and DW-1 thru DW-4, sampling and chemical analysis of monitoring wells and nearby receptors and aquifer slug test.
1/9/2023	Groundwater Sampling Event	Completed by MECI.
4/14/2023	Groundwater Sampling Event	Completed by MECI.
7/14/2023	Groundwater Sampling Event	Completed by MECI.
10/16/2023	Groundwater Sampling Event	Completed by MECI.
6/24/2024	Groundwater Sampling Event	Completed by MECI.

viii. Regional Geology and Hydrogeology

The site is located in the Coastal Plain Physiographic Province, which is generally comprised of Upper Cretaceous to present aged, wedge-shaped formations that begin at the “Fall Line” and dip towards the Atlantic Ocean with ground surface elevations typically less than 300 feet. The sedimentary soils of these formations consist of unconsolidated sand, clay, gravel, marl, cemented sands, and limestone that were deposited unconformably over Mesozoic/Paleozoic age basement rock consisting of granite, schist, and gneiss similar to the rocks of the Piedmont Physiographic Province. The thickness of the Coastal Plain sediments varies from zero at the “Fall Line” to more than 4,000 feet at the southern tip of South Carolina near Hilton Head Island.

The Coastal Plain province was formed during Quaternary, Tertiary, and late Cretaceous geologic periods and can be divided generally into three subunits: Upper Coastal Plain, Middle Coastal Plain, and Lower Coastal Plain. The Lower Coastal Plain comprises approximately one-half of the entire Atlantic Coastal Plain of South Carolina and is separated from the middle coastal plain by the Surry Scarp, a seaward facing scarp with a toe elevation of 90 to 100 feet. The Middle Coastal Plain and the Upper Coastal Plain each compose approximately one fourth of the Coastal Plain area and are separated by the Orangeburg Scarp, a seaward facing scarp with a toe elevation of 250 to 270 feet.

The Lower Coastal Plain is typically identified as the area east of the Surry Scarp below elevation 100 feet, with a vertical stratigraphic sequence overlying the basement rock consisting of unconsolidated Cretaceous, Tertiary, and Quaternary sedimentary deposits. The surface deposits of the Lower Coastal Plain were formed during the Quaternary period which was characterized by

the formation of the Carolina Bays and scarps throughout the east coast due to sea level rise and fall, the formation of the barrier islands, and the formation of flood plains from major rivers. Preceding the Quaternary period, limestone was deposited in the Lower Coastal Plain.

The Middle Coastal Plain is typically identified as the area between the Orangeburg Scarp and the Surry Scarp and falls between elevation 100 feet and 270 feet. The vertical stratigraphic sequence overlying the basement rock consists of unconsolidated Cretaceous and Tertiary sedimentary deposits formed as a result of scouring from the regressive cycles of the Ocean as it retreated. During the Eocene epoch of the Tertiary period, limestone was deposited in the Middle Coastal Plain.

The Upper Coastal Plain is typically identified as the area between the “Fall Line” and the Orangeburg Scarp and falls between elevations 270 feet and 300 feet. The Upper Coastal Plain was formed during the Tertiary and late Cretaceous periods and is marked by the formation of the Sandhills dunes as a result of fluvial deposits over the Coastal Plain consisting of marine sediments, limestone, and sand.

Coastal Plain formations generally dip toward the Atlantic Ocean. Consequently, regional groundwater movement is to the southeast. On a regional scale, hydraulic gradients are relatively low. Locally, in the surficial aquifer, groundwater discharges into streams, lakes or springs where the groundwater table intersects lows occupied by these water bodies.

2.0 RECEPTOR SURVEY & SITE DATA

i. Known Potential Receptors

Receptor ID#	Notes
WSW-1	WSW-1 is located approximately 1,400' feet west-north of MW-8 at 3101 Willow Creek Road. Samples have historically been collected from the spigot on the water supply which is located inside one of the bran buildings at the property. GPS: 34.096044, -79.701503
WSW-2	WSW-2 is located approximately 1,000' feet west of MW-8 at 3119 Willow Creek Road. Samples have historically been collected from the spigot on the water supply. GPS: 34.095156, -79.700508
WSW-3	WSW-3 is located approximately 650' feet northeast of MW-8 at 4905 Legettes Road. Well Disconnected; Unable to sample with bailer due to metal elbow at well head. GPS: 34.096743, -79.696040
Possible WSW	According to Ms. Williams, there is no well on the property.
Possible WSW	According to Ms. Williams, there is no well on the property.
SW-1	Sampled collected from drainage ditch adjacent to MW-8. GPS: 34.095076, -79.696772
SW-2	Sampled collected from drainage ditch adjacent to MW-2. GPS: 34.095847, -79.697296
SW-3	Sampled collected approximately 420' west of MW-8 from a stream. GPS: 34.094620, -79.698172
SW-4	Sampled collected approximately 500' west-northwest of MW-8 from a stream. GPS: 34.095389, -79.698409
SW-5	Sampled collected approximately 630' west-northwest of MW-8 from a stream. GPS: 34.096050, -79.698577
SW-6	Sampled collected approximately 950' northwest of MW-8 from a stream. GPS: 34.096699, -79.699359
Underground Utilities	
Known underground utilities at the site include buried water, gas and telecommunication lines. Utilities are buried approximately 2'-4' feet below ground surface (BGS).	

ii. Receptor Survey Results

A receptor survey was not requested as part of the approved cost agreement.

iii. Site/Adjacent Land Usage (Residential, Commercial, Agricultural, Industrial, etc.)

Site	Residential
North	Residential
South	Agricultural
East	Agricultural
West	Residential
Permit #'s of UST Sites within 1,000' feet of site	N/A

iv. Site Specific Geology and Hydrogeology

The mean elevation of the property as depicted on the local USGS quadrangle (Evergreen, SC) appears to be approximately 33 meters (108 feet) above sea level. The subject site is located in the Middle Coastal Plain. According to Newell et al. (In Review), the subject site is located in the Bear Bluff Formation. The Bear Bluff Formation is a Pliocene age unit described as consisting of gray to cream, fossiliferous, coarse-grained calcareous sand and sandy limestones.

Coastal plain sediments were encountered during drilling activities conducted at the site during previous assessment activities. A generalized vertical profile to the investigated depth of 35' feet below ground surface (BGS) is as follows:

Depth (Feet BGS)	Generalized Soil Description
0.0'-6.0'	Brown/Yellow Fine SAND
6.0'-16.0'	Pink/Grey Silty Fine SAND
16.0'-34.0'	Tan, Medium SAND
34.0'-35.0'	Dark Grey, Fine Sandy CLAY

The following table presents grain size distribution results from samples analyzed for grain size during previous assessment activities:

Sample ID#	Sample Depth	% Gravel	% Coarse Sand	% Medium Sand	% Fine Sand	% Silt	% Clay
03423-SB01	8'-10'	0	0	38.0	40.2	4.2	17.6
03423-SB01	24'-26'	0	3.0	44.0	45.5	3.2	4.3
03423-SB01	32'-34'	0	4.0	3.0	3.7	49.7	39.6

On March 28, 2025, stabilized groundwater levels were measured in the monitoring well network. Depth to groundwater ranged from 1.99 feet below top of casing (BTOC) to 3.48 feet BTOC in the wells measured. The groundwater measurements are summarized in tabular form in Table 2 and presented on Figure 4/4A.

The potentiometric surface indicates that the groundwater flow beneath the site is generally to the northwest, toward drainage features associated with the Little Willow Creek. The February 2022 horizontal gradient was calculated to be approximately 0.0118 foot per foot (ft/ft). Calculated average

groundwater flow velocities based on aquifer testing was determine to be approximately 97.98 feet per year (ft/yr.).

Based on comparison between the “deep” wells and the close by water table bracketing monitoring wells, the vertical gradient appears to be generally flat.

3.0 GROUNDWATER SAMPLING AND CHEMICAL ANALYSES

On March 28, 2025, MECI personnel collected groundwater samples from fourteen (14) monitoring wells, six (6) surface water locations and two (2) water supply wells at the subject site. During sampling activities, water supply well WSW-3 was unable to be sampled due to the well being inactive with no electrical supply. As approved SCDES, all monitoring wells were to be purged prior to sample collection. Fourteen (14) monitoring wells were purged prior to sample collection.

Prior to sampling, MECI personnel utilized an electronic water level indicator for water level measurements and an oil/water interface probe for free phase petroleum product level measurements. Where applicable, purging was completed by bailing at least five well volumes of water from the well, or until all water was evacuated from the well, whichever occurred first. Sampling/purging was completed utilizing a prepackaged, clear, disposable polyethylene bailer and nylon rope. A new set of nitrile gloves were worn at each monitoring well, and at all time samples were handled. Field measurements of pH, conductivity, dissolved oxygen, and water temperature were obtained before well sampling process. MECI utilized YSIPro20 meter for DO (mg/L) and temperature readings (°C) and YSI Pro 1030 meter for pH and conductivity (uS) readings and a MicroTPI turbidimeter for turbidity readings (NTU). The attached Monitoring Well Purge and Sampling Data Sheets present the results of the field measurements obtained. The wells were sampled in accordance with the most recent revision of SCDES’s Quality Assurance Program Plan for the Underground Storage Tank Management Division and the most recent revision of MECI’s Standard Operating Procedures.

Groundwater samples obtained were sent to Pace Analytical Services, Inc. of Huntersville, NC (SCDES Laboratory Certification #99006001) for analysis.

The following sampling matrix contains well development and requested analyses for each well:

Sample ID	Purge	No Purge	Sampled Below Product	Duplicate/Field Blank	Not Sampled	Not Located	BTEX, Naphthalene, MTBE (EPA Method 8260D)	EDB (EPA Method 8011)	1,2 DCA (EPA Method 8260D)	8 Oxygenates (EPA Method 8260D)	Total Lead (EPA Method 6010)	BTEX, Naphthalene, MTBE, 1,2 DCA (EPA Method 524.2)	EDB (EPA Method 504.1)
							Analyte Sampled						
MW-1	X						X	X	X	X			
MW-2	X						X	X	X	X			
MW-3	X						X	X	X	X			
MW-4	X						X	X	X	X			
MW-5	X						X	X	X	X			
MW-6	X						X	X	X	X			
Notes: BTEX = Benzene, Toluene, Ethylbenzene, & Total Xylenes MTBE=Methyl tertiary butyl ether 1,2 DCA = 1,2 Dichloroethane EDB = Ethylene Dibromide													

Sample ID	Purge	No Purge	Sampled Below Product	Duplicate/Field Blank	Not Sampled	Not Located	BTEX, Naphthalene, MTBE (EPA Method 8260D)	EDB (EPA Method 8011)	1,2 DCA (EPA Method 8260D)	8 Oxygenates (EPA Method 8260D)	Total Lead (EPA Method 6010)	BTEX, Naphthalene, MTBE, 1,2 DCA (EPA Method 524.2)	EDB (EPA Method 504.1)
							Analyte Sampled						
MW-7	X						X	X	X	X			
MW-8	X						X	X	X	X			
MW-9	X						X	X	X	X			
MW-10	X						X	X	X	X			
DW-1	X						X	X	X	X			
DW-2	X						X	X	X	X			
DW-3	X						X	X	X	X			
DW-4	X						X	X	X	X			
SW-1		X					X	X	X	X			
SW-2		X					X	X	X	X			
SW-3		X					X	X	X	X			
SW-4		X					X	X	X	X			
SW-5		X					X	X	X	X			
SW-6		X					X	X	X	X			
DUP-1				X			X	X	X	X			
Field Blank				X			X	X	X	X			
Trip Blank							X		X	X			
WSW-1										X		X	X
WSW-2										X		X	X
WSW-3					X								
DUP.				X						X		X	X
Field Blank				X						X		X	X
Trip Blank										X		X	
Notes: BTEX = Benzene, Toluene, Ethylbenzene, & Total Xylenes MTBE=Methyl tertiary butyl ether 1,2 DCA = 1,2 Dichloroethane EDB = Ethylene Dibromide													

The results of the laboratory analyses are summarized in Table 1 and presented in Appendix B.

Purge water produced by the purging process was treated on-site utilizing a granular activated carbon unit. A total of 65.50 gallons of purge water was disposed of in this manner. A disposal manifest for the referenced purge water is attached in Appendix G and the required post-GAC laboratory results in presented in Appendix B.

4.0 GROUNDWATER ANALYTICAL RESULTS

Free phase petroleum product was not detected in any of the monitoring wells during sampling activities. The analytical results indicate petroleum impact to the surficial aquifer (“Shallow” Zone), with the highest dissolved concentrations being detected in the area of MW-8. Of the twenty-two sampling locations analyzed, six monitoring wells (MW-1, MW-2, MW-5, MW-6, MW-8 and MW-

10) detected petroleum constituents above Risk-Based Screening Levels (RBSL's). Petroleum constituents detected above the established RBSL include:

Compound	RBSL (ug/l)	Wells Above RBSL
Product	0.01'	N/A
Benzene	5	MW-1, MW-2, MW-6, MW-8 & MW-10
Toluene	1,000	MW-8
Ethylbenzene	700	MW-8
Total Xylenes	10,000	MW-8
Naphthalene	25	MW-1, MW-8 & MW-10
MTBE	40	MW-1, MW-2, MW-5, MW-6, MW-8, MW-10
1,2 DCA	5	N/A
EDB	0.05	N/A
TAA	240	MW-1, MW-6 & MW-10
TAME	128	N/A
ETBA	NE	RBSL Not Established
TBA	1,400	N/A
TBF	NE	RBSL Not Established
DIPE	150	MW-6 & MW-10
Ethanol	10,000	N/A
ETBE	47	N/A

The analytical results from the remainder of the sampling points did not indicate petroleum impact above the RBSL. Results of the analyses for each sampling point and specific parameters are listed on Table 1 and provided in Appendix B.

5.0 HISTORICAL COC CONCENTRATION TRENDS

Fourteen monitoring wells were included in the groundwater sampling program established for the site. Five monitoring wells (MW-3, MW-4, MW-9, DW-2 and DW-3) have historically exhibited results below the established RBSL. Mann-Kendall statistical analyses of the Chemicals of Concern (CoC's) with historical concentrations above the RBSL were completed utilizing the GIS Environmental Mann-Kendall Toolkit. The statistical analysis compares historical CoC results to determine if there is an increasing, decreasing, stable or not trend to the data. If the analytical results were non-detect (ND) the reporting limit was used. The analyses included analytical data for Benzene (MW-1, MW-2, MW-6, MW-8, MW-10 and DW-4), Toluene (MW-8 and DW-4), Ethylbenzene (MW-8 and MW-10), Xylenes (MW-8), Naphthalene (MW-1, MW-2, MW-6, MW-7, MW-8, MW-10 and DW-4), MTBE (MW-1, MW-2, MW-5, MW-6, MW-8, MW-10, DW-1 and DW-4), TAA (MW-1, MW-2, MW-6, MW-7, MW-8, MW-10 and DW-4) and DIPE (MW-1, MW-6, MW-8 and MW-10).

The statistical analyses show:

- Benzene –decreasing (MW-2 and MW-6), stable (MW-10) and no trend (MW-1, MW-8 and DW-4).
- Toluene –probably decreasing (DW-4) and no trend (MW-8).
- Ethylbenzene – stable (MW-10) and no trend (MW-8).
- Xylenes – no trend (MW-8)

- Naphthalene – decreasing (MW-1, MW-2 and MW-6), stable (MW-8 and MW-10) and no trend (MW-7 and DW-4).
- MTBE – increasing (MW-5), probably increasing (MW-6), decreasing (MW-2), stable (MW-10) and no trend (MW-1, MW-8, DW-1 and DW-4).
- TAA – decreasing (MW-2), stable (MW-6 and MW-10) and no trend (MW-1, MW-7, MW-8 and DW-4).
- DIPE – increasing (MW-8), stable (MW-1 and MW-10) and no trend (MW-6).

6.0 MONITORING SUMMARY

- Groundwater flow is primarily to the northwest, toward drainage features associated with the Little Willow Creek.
- Free phase petroleum product was not detected in any of the monitoring wells during sampling activities.
- Fourteen groundwater monitoring wells, six surface water locations and two water supply wells were sampled on March 28, 2025. Petroleum compounds were detected above RBSL's in groundwater monitoring wells MW-1, MW-2, MW-5, MW-6, MW-8 and MW-10. Compounds above the established RBSL's include Benzene, Toluene, Ethylbenzene, Total Xylenes, Naphthalene, MTBE, TAA and DIPE.
- The analytical results also reported petroleum constituents above the laboratory method detection limit and/or "J" values in samples collected from DW-2; however, the concentrations did not exceed the RBSL.
- Analytical results did not indicate petroleum impact in any of the samples collected from the surface water locations or water supply wells sampled. Samples were unable to be collected from water supply well WSW-3 due to the well being inactive.
- In order to assess precision, field duplicate samples were collected and analyzed along with the reviewed batch samples. The duplicated samples were analyzed for the same parameters as the associated parent samples. Precision is determined by calculating the Relative Percent Differences (RPD) between each pair of samples. The RPD control limit for the groundwater samples is 20%. Duplicate samples were collected from the parent samples of MW-6 and WSW-1. The precision for the target analytes were met for these sample pairs and the analytical results detected the same compounds at similar concentrations. Furthermore, field blanks and trip blanks were collected and submitted during the groundwater sampling activities. No detectable concentrations of the requested method constituents were reported in any of the field or trip blanks.

7.0 COMMENTS & RECOMMENDATIONS

- Since June 24, 2024, increasing trends in MTBE to be appear to be occurring in MW-5/MW-6 and increasing trends in DIPE appear to be occurring in MW-8. Overall, the Mann-Kendall statistical analyses show a decreasing or stable trends in MW-2 and MW-10. No trends have been established to date in MW-1, MW-7, DW-1 and DW-4.
- Data gaps currently persist horizontally north of MW-5, west of MW-5/MW-6 and south of MW-8. With the exception of the southerly direction from MW-8/DW-4, it appears these data gaps persist due to property access issues encountered at the site in 2022.
- MECI concurs with SCDES that further definition of the plume is not warranted at this time; however, if increasing MTBE trends continue, additional assessment maybe necessary north of MW-5 and west of MW-5/MW-6.
- MECI request the site be modeled to current site conditions and the Site-Specific Target Levels (SSTL's) be relinquished to our office. Based on the modeling, MECI will be able to better evaluate site rehabilitation needs.

8.0 QUALIFICATIONS OF REPORT

The activities and evaluative approaches used in this assessment are consistent with those normally employed in hydrogeological assessment and waste management projects of this type. Our evaluation of site conditions has been based on our understanding of the site, project information provided to us, and data obtained in our exploration. The general subsurface conditions utilized in our evaluation have been based on interpretation of subsurface data between borings. Contents of this report are intended for the sole use of BW Stokes Oil Company, Inc., SCDES and MECI under mutually agreed upon terms and conditions. If other parties wish to rely on this report, please contact MECI prior to their use of this information so that a mutual understanding and agreement of the terms and conditions of our services can be established.

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TABLES

TABLE 1 GROUNDWATER COC CONCENTRATION DATA JAKE HUGGINS MARCH 28, 2025 SAMPLING EVENT FLORENCE, SOUTH CAROLINA MECI PROJECT# 25-8491 UST PERMIT# 03423																	
Well ID#	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Naphthalene (µg/L)	MTBE (µg/L)	1, 2 DCA (µg/L)	EDB (µg/L)	TAA (µg/L)	TAME (µg/L)	ETBA (µg/L)	TBA (µg/L)	TBF (µg/L)	DIPE (µg/L)	Ethanol (µg/L)	ETBE (µg/L)
		RBSL 5	RBSL 1,000	RBSL 700	RBSL 10,000	RBSL 25	RBSL 40	RBSL 5	RBSL 0.05	RBSL 240	RBSL 128	RBSL NE	RBSL 1,400	RBSL NE	RBSL 150	RBSL 10,000	RBSL 47
03423-MW01	2/15/2022	624	19.3	158	67.9	78.7	264	<0.250	<0.00512	3030	56.9	<7.00	169	<6.90	160	<50.0	<0.720
	1/9/2023	620	16.4	74.1	16.9	66.0	342	<1.6	<0.0075	3770	60.6	<260	200 J	<147	191	<361	<16.2
	4/14/2023	749	11.5 J	39.7	<25.0	51.1	343	<10.3	<0.0073	4640	59.9	<270	<455	<120	178	<720	<42.3
	7/14/2023	964	10.4 J	23.8 J	<25.0	49.9	465	<10.3	<0.0075	4830	78.2	<270	<455	<120	268	<720	<42.3
	10/16/2023	1100	<20.1	<18.4	<50.0	66.5	488	<20.6	<0.0074	5340	82.9 J	<539	<910	<241	297	<1440	<84.6
	6/24/2024	695	<10.0	10.2 J	<25.0	44.0	306	<10.3	<0.0078	3560	59.3	<270	<455	<120	176	<720	<42.3
	3/28/2025	333	<5.0	6.5 J	<12.5	25.4	193	<5.2	<0.0075	1900	35.3	<135	<228	<60.2	110	<360	<21.2
03423-MW02	2/15/2022	203	<0.250	0.522 J	1.34	25.7	405	<0.250	<0.00515	442	26.9	<7.00	83.3	<6.90	78.2	<50.0	<0.720
	1/9/2023	122	<0.97	<0.61	<0.68	10.9	256	<0.64	<0.0074	233	14.6 J	<104	<53.6	<58.8	44.4	<144	<6.5
	4/14/2023	90.2	<4.0	<3.7	<10.0	10.2	195	<4.1	<0.0074	225	10.5 J	<108	<182	<48.2	33.0	<288	<16.9
	7/14/2023	95.2	<4.0	<3.7	<10.0	8.8 J	178	<4.1	<0.0077	141 J	9.0 J	<108	<182	<48.2	36.2	<288	<16.9
	10/16/2023	76.3	<4.0	<3.7	<10.0	4.4 J	200	<4.1	<0.0075	<131	8.7 J	<108	<182	<48.2	30.8	<288	<16.9
	6/24/2024	23.5	<2.0	<1.8	<5.0	<2.1	122	<2.1	<0.0077	<65.6	5.3 J	<53.9	<91.0	<24.1	26.4	<144	<8.5
	3/28/2025	37.8	<2.0	<1.8	<5.0	<2.1	190	<2.1	<0.0076	<65.6	7.4 J	<53.9	<91.0	<24.1	29.2	<144	<8.5
03423-MW03	2/15/2022	<0.270	3.15	0.279 J	<0.230	<2.40	1.95 J	<0.250	<0.00486	<8.60	<0.780	<7.00	<6.90	<6.90	0.893 J	<50.0	<0.720
	1/9/2023	<0.34	<0.48	<0.30	<0.34	<0.64	1.1	<0.32	<0.0076	<36.4	<2.7	<51.9	<26.8	<29.4	0.61 J	<72.2	<3.2
	4/14/2023	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0075	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	7/14/2023	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0077	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	10/16/2023	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0075	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	6/24/2024	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0078	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	3/28/2025	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0074	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
03423-MW04	2/15/2022	<0.270	<0.250	0.252 J	1.91	<2.40	<0.810	<0.250	<0.00509	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
	1/9/2023	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0075	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	4/14/2023	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0074	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	7/14/2023	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0074	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	10/16/2023	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0076	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	6/24/2024	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0081	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	3/28/2025	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0074	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
03423-MW05	2/15/2022	<0.270	<0.250	<0.200	<0.230	<2.40	14.3	<0.250	<0.00509	<8.60	<0.780	<7.00	<6.90	<6.90	3.06 J	<50.0	<0.720
	1/9/2023	<0.34	<0.48	<0.30	<0.34	<0.64	22.2	<0.32	<0.0075	<36.4	<2.7	<51.9	<26.8	<29.4	3.8	<72.2	<3.2
	4/14/2023	<1.7	<2.0	<1.8	<5.0	<2.1	22.3	<2.1	<0.0073	<65.6	<3.0	<53.9	<91.0	<24.1	4.1 J	<144	<8.5
	7/14/2023	<1.7	<2.0	<1.8	<5.0	<2.1	23.4	<2.1	<0.0074	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	10/16/2023	<1.7	<2.0	<1.8	<5.0	2.9 J	59.5	<2.1	<0.0072	<65.6	<3.0	<53.9	<91.0	<24.1	8.5	<144	<8.5
	6/24/2024	<1.7	<2.0	<1.8	<5.0	<2.1	45.6	<2.1	<0.0075	<65.6	<3.0	<53.9	<91.0	<24.1	5.4	<144	<8.5
	3/28/2025	<1.7	<2.0	<1.8	<5.0	<2.1	50.1	<2.1	<0.0075	<65.6	<3.0	<53.9	<91.0	<24.1	8.7	<144	<8.5
03423-MW06	2/15/2022	356	30.1	134	11.6	87.5	166	<1.25	<0.00497	2410	46.4	<35.0	86.6 J	<34.5	122	<250	<3.60
	1/9/2023	83.3	4.6	4.5	3.3	26.7	126	<0.32	<0.0076	1640	29.6	<51.9	52.4 J	<29.4	88.1	<72.2	<3.2
	4/14/2023	68.1	2.9 J	3.3 J	<5.0	23.0	132	<2.1	<0.0072	1570	26.1	<53.9	<91.0	<24.1	80.1	<144	<8.5
	7/14/2023	45.4	4.1 J	6.0	<5.0	20.4	167	<2.1	<0.0073	1960	34.7	<53.9	<91.0	<24.1	117	<144	<8.5
	10/16/2023	38.5	2.6 J	<1.8	<5.0	14.6	156	<2.1	<0.0075	1930	28.6	<53.9	<91.0	<24.1	111	<144	<8.5
	6/24/2024	17.3	4.8 J	<3.7	<10.0	11.2	241	<4.1	<0.0073	<131	40.2	<108	<182	<48.2	151	<288	<16.9
	3/28/2025	9.8 J	<4.0	<3.7	<10.0	4.4 J	216	<4.1	<0.0075	3080	31.7	<108	200	<48.2	199	<288	<16.9

TABLE 1 GROUNDWATER COC CONCENTRATION DATA JAKE HUGGINS MARCH 28, 2025 SAMPLING EVENT FLORENCE, SOUTH CAROLINA MECI PROJECT# 25-8491 UST PERMIT# 03423																	
Well ID#	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Naphthalene (µg/L)	MTBE (µg/L)	1, 2 DCA (µg/L)	EDB (µg/L)	TAA (µg/L)	TAME (µg/L)	ETBA (µg/L)	TBA (µg/L)	TBF (µg/L)	DIPE (µg/L)	Ethanol (µg/L)	ETBE (µg/L)
		RBSL 5	RBSL 1,000	RBSL 700	RBSL 10,000	RBSL 25	RBSL 40	RBSL 5	RBSL 0.05	RBSL 240	RBSL 128	RBSL NE	RBSL 1,400	RBSL NE	RBSL 150	RBSL 10,000	RBSL 47
03423-MW07	2/15/2022	37.2	0.699 J	82.1	3.95	58.3	15.8	<0.250	<0.00492	1030	4.67	<7.00	31.3 J	<6.90	20.3	<50.0	<0.720
	1/9/2023	<0.34	<0.48	1.8	<0.34	4.3	1.4	<0.32	<0.0075	<36.4	<2.7	<51.9	<26.8	<29.4	1.6	<72.2	<3.2
	4/14/2023	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0074	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	7/14/2023	<1.7	<2.0	4.4 J	<5.0	15.1	3.6 J	<2.1	<0.0074	77.7 J	<3.0	<53.9	<91.0	<24.1	4.2 J	<144	<8.5
	10/16/2023	<1.7	<2.0	14.0	<5.0	18.6	4.7 J	<2.1	<0.0075	166	<3.0	<53.9	<91.0	<24.1	6.0	<144	<8.5
	6/24/2024	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0075	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	3/28/2025	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0074	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
03423-MW08	2/15/2022	3720	21100	2200	12800	781	690	<12.5	0.121	8690	127	<350	370 J	<345	268 J	<2500	<36.0
	1/9/2023	4390	22300	2080	13300	766	531	<40.2	<0.0075	8510 J	<332	<6490	<3350	<3680	239	<9020	<405
	4/14/2023	3620	19200	1840	10800	661	435 J	<258	<0.0074	<8200	<380	<6740	<11400	<3010	<436	<18000	<1060
	7/14/2023	3110	12600	1920	10000	558 J	<388	<258	<0.0073	<8200	<380	<6740	<11400	<3010	<436	<18000	<1060
	10/16/2023	5330	27500	2810	16200	975 J	1000 J	<412	<0.0075	<13100	<608	<10800	<18200	<4820	<698	<28800	<1690
	6/24/2024	4760	25300	2570	13400	778 J	696 J	<412	<0.0074	<13100	<608	<10800	<18200	<4820	<698	<28800	<1690
	3/28/2025	4110	20900	2260	11800	646 J	756 J	<412	<0.0075	<13100	<608	<10800	<18200	<4820	<698	<28800	<1690
03423-MW09	2/15/2022	0.278 J	3.89	4.80	27.4	<2.40	<0.810	<0.250	<0.00494	77.4	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
	1/9/2023	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0077	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	4/14/2023	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0070	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	7/14/2023	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0074	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	10/16/2023	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0074	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	6/24/2024	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0074	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	3/28/2025	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0075	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
03423-MW10	2/15/2022	1070	297	753	2380	342	510	<12.5	<0.00507	7950	120	<350	<345	<345	339 J	<2500	<36.0
	1/9/2023	2060	439	1100	2640	455	865	<4.0	<0.0077	11100	168	<649	535 J	<368	555	<902	<40.5
	4/14/2023	634	49.9	428	308	216	260	<10.3	<0.0075	3350	56.9	<270	<455	<120	165	<720	<42.3
	7/14/2023	79.3	15.1 J	329	116	143	25.4	<10.3	<0.0075	<328	<15.2	<270	<455	<120	17.6 J	<720	<42.3
	10/16/2023	299	83.8	503	747	244	112	<10.3	<0.0074	1460	22.5 J	<270	<455	<120	68.1	<720	<42.3
	6/24/2024	227	66.5	465	789	256	110	<10.3	<0.0074	1350	<15.2	<270	<455	<120	75.3	<720	<42.3
	3/28/2025	1360	57.7	533	421	221	457	<20.6	<0.0076	5750	105	<539	<910	<241	346	<1440	<84.6
03423-DW01	2/15/2022	<0.270	<0.250	<0.200	<0.230	<2.40	<0.810	<0.250	<0.00529	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
	1/9/2023	<0.34	<0.48	<0.30	<0.34	<0.64	52.9	<0.32	<0.0076	<36.4	4.2 J	<51.9	<26.8	<29.4	15.2	<72.2	<3.2
	4/14/2023	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0072	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	7/14/2023	3.4 J	<2.0	<1.8	<5.0	<2.1	144	<2.1	<0.0075	<65.6	9.6 J	<53.9	<91.0	<24.1	40.5	<144	<8.5
	10/16/2023	<1.7	<2.0	<1.8	<5.0	<2.1	129	<2.1	<0.0073	<65.6	7.3 J	<53.9	<91.0	<24.1	34.2	<144	<8.5
	6/24/2024	<1.7	<2.0	<1.8	<5.0	<2.1	73.2	<2.1	<0.0073	<65.6	<3.0	<53.9	<91.0	<24.1	22.0	<144	<8.5
	3/28/2025	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0074	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
03423-DW02	2/15/2022	<0.270	<0.250	<0.200	<0.230	<2.40	7.40	<0.250	<0.00510	<8.60	<0.780	<7.00	<6.90	<6.90	2.61 J	<50.0	<0.720
	1/9/2023	<0.34	<0.48	<0.30	<0.34	<0.64	6.1	<0.32	<0.0076	<36.4	<2.7	<51.9	<26.8	<29.4	2.0	<72.2	<3.2
	4/14/2023	<1.7	<2.0	<1.8	<5.0	<2.1	5.2	<2.1	<0.0073	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	7/14/2023	<1.7	<2.0	<1.8	<5.0	<2.1	19.9	<2.1	<0.0074	<65.6	<3.0	<53.9	<91.0	<24.1	3.7 J	<144	<8.5
	10/16/2023	<1.7	<2.0	<1.8	<5.0	<2.1	36.2	<2.1	<0.0076	<65.6	<3.0	<53.9	<91.0	<24.1	5.6	<144	<8.5
	6/24/2024	<1.7	<2.0	<1.8	<5.0	<2.1	24.0	<2.1	<0.0072	<65.6	<3.0	<53.9	<91.0	<24.1	3.8 J	<144	<8.5
	3/28/2025	<1.7	<2.0	<1.8	<5.0	<2.1	4.0 J	<2.1	<0.0077	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
03423-DW03	2/15/2022	<0.270	<0.250	<0.200	<0.230	<2.40	<0.810	<0.250	<0.00485	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
	1/9/2023	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0077	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	4/14/2023	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0074	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	7/14/2023	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0076	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	10/16/2023	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0075	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	6/24/2024	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0074	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	3/28/2025	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0074	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
03423-DW04	2/15/2022	67.5	1890	611	4230	181	<0.810	<0.250	<0.00489	<8.60	<0.780	<7.00	<6.90	<6.90	1.69 J	<50.0	<0.720
	1/9/2023	63.6	464	20.1	291	<2.6	51.8	<1.3	<0.0077	422	<10.6	<208	<107	<118	21.2	<289	<13.0
	4/14/2023	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0074	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	7/14/2023	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0074	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	10/16/2023	341	359	98.9	1630	72.7	153	<8.2	<0.0075	913	20.9 J	<216	<364	<96.4	54.4	<576	<33.8
	6/24/2024	6.0	30.8	3.5 J	24.4	3.8 J	11.5	<2.1	<0.0074	<65.6	<3.0	<53.9	<91.0	<24.1	5.0 J	<144	<8.5
	3/28/2025	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0073	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
03423-TW01*	2/28/2022	<0.270	<0.250	<0.200	<0.230	<2.40	<0.810	<0.250	<0.00636	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720

TABLE 1 GROUNDWATER COC CONCENTRATION DATA JAKE HUGGINS MARCH 28, 2025 SAMPLING EVENT FLORENCE, SOUTH CAROLINA MECI PROJECT# 25-8491 UST PERMIT# 03423																	
Well ID#	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Napthalene (µg/L)	MTBE (µg/L)	1, 2 DCA (µg/L)	EDB (µg/L)	TAA (µg/L)	TAME (µg/L)	ETBA (µg/L)	TBA (µg/L)	TBF (µg/L)	DIPE (µg/L)	Ethanol (µg/L)	ETBE (µg/L)
		RBSL 5	RBSL 1,000	RBSL 700	RBSL 10,000	RBSL 25	RBSL 40	RBSL 5	RBSL 0.05	RBSL 240	RBSL 128	RBSL NE	RBSL 1,400	RBSL NE	RBSL 150	RBSL 10,000	RBSL 47
03423-SW01	2/15/2022	<0.270	<0.250	<0.200	<0.230	<2.40	<0.810	<0.250	<0.00503	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
	1/9/2023	<0.34	<0.48	<0.30	0.43 J	<0.64	<0.42	<0.32	<0.0077	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	4/14/2023	<0.34	0.98 J	<0.30	<0.34	<0.64	0.68 J	<0.32	<0.0078	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	7/14/2023	<0.34	0.52 J	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0075	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	10/16/2023	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0075	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	6/24/2024	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0075	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	3/28/2025	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0076	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
03423-SW02	2/15/2022	<0.270	<0.250	<0.200	<0.230	<2.40	0.832 J	<0.250	<0.00494	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
	1/9/2023	<0.34	<0.48	<0.30	<0.34	<0.64	1.2	<0.32	<0.0077	<36.4	<2.7	<51.9	<26.8	<29.4	0.49 J	<72.2	<3.2
	4/14/2023	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0073	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	7/14/2023	<0.34	<0.48	<0.30	<0.34	<0.64	0.63 J	<0.32	<0.0075	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	10/16/2023	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0075	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	6/24/2024	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0074	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	3/28/2025	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0077	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
03423-SW03	2/15/2022	<0.270	<0.250	<0.200	<0.230	<2.40	<0.810	<0.250	<0.00497	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
	1/9/2023	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0077	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	4/14/2023	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0076	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	7/14/2023	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0077	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	10/16/2023	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0075	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	6/24/2024	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	3/28/2025	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0076	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
03423-SW04	2/28/2022	<0.270	15.9	0.228 J	<0.230	<2.40	<0.810	<0.250	<0.00492	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
	1/9/2023	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0080	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	4/14/2023	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0074	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	7/14/2023	<0.34	0.49 J	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0076	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	10/16/2023	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0074	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	6/24/2024	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	3/28/2025	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0074	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
03423-SW05	2/28/2022	<0.270	<0.250	<0.200	<0.230	<2.40	<0.810	<0.250	<0.00503	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
	1/9/2023	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0079	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	4/14/2023	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0074	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	7/14/2023	<0.34	0.63 J	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0079	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	10/16/2023	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0075	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	6/24/2024	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	3/28/2025	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0074	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
03423-SW06	2/28/2022	<0.270	<0.250	<0.200	<0.230	<2.40	<0.810	<0.250	<0.00507	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
	1/9/2023	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0076	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	4/14/2023	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0073	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	7/14/2023	<0.34	0.64 J	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0076	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	10/16/2023	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0076	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	6/24/2024	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	3/28/2025	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0074	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
03423-WSW01	2/15/2022	<0.0820	<0.0860	<0.0990	<0.0860	<0.430	<0.0930	<0.0860	<0.00513	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
	1/9/2023	<0.21	<0.20	<0.22	<0.22	<0.35	<0.14	<0.16	<0.0056	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	4/14/2023	<0.21	<0.20	<0.22	<0.22	<0.35	<0.14	<0.16	<0.0055	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	7/14/2023	<0.21	0.46 J	<0.22	<0.22	<0.35	<0.14	<0.16	<0.0055	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	10/16/2023	<0.21	<0.20	<0.22	<0.22	<0.35	<0.14	<0.16	<0.0055	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	6/24/2024	<0.21	0.48 J	<0.22	<0.22	<0.35	<0.14	<0.16	<0.0060	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	3/28/2025	<0.21	<0.20	<0.22	<0.22	<0.35	<0.14	<0.16	<0.0058	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
03423-WSW02	2/15/2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	1/9/2023	<0.21	<0.20	<0.22	<0.22	<0.35	<0.14	<0.16	<0.0056	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	4/14/2023	<0.21	<0.20	<0.22	<0.22	<0.35	<0.14	<0.16	<0.0056	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	7/14/2023	<0.21	0.45 J	<0.22	<0.22	<0.35	<0.14	<0.16	<0.0055	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	10/16/2023	<0.21	<0.20	<0.22	<0.22	<0.35	<0.14	<0.16	<0.0054	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	6/24/2024	<0.21	0.63	<0.22	<0.22	<0.35	<0.14	<0.16	<0.0061	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	3/28/2025	<0.21	<0.20	<0.22	<0.22	<0.35	<0.14	<0.16	<0.0057	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2

TABLE 1 GROUNDWATER COC CONCENTRATION DATA JAKE HUGGINS MARCH 28, 2025 SAMPLING EVENT FLORENCE, SOUTH CAROLINA MECI PROJECT# 25-8491 UST PERMIT# 03423																	
Well ID#	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Naphthalene (µg/L)	MTBE (µg/L)	1, 2 DCA (µg/L)	EDB (µg/L)	TAA (µg/L)	TAME (µg/L)	ETBA (µg/L)	TBA (µg/L)	TBF (µg/L)	DIPE (µg/L)	Ethanol (µg/L)	ETBE (µg/L)
		RBSL 5	RBSL 1,000	RBSL 700	RBSL 10,000	RBSL 25	RBSL 40	RBSL 5	RBSL 0.05	RBSL 240	RBSL 128	RBSL NE	RBSL 1,400	RBSL NE	RBSL 150	RBSL 10,000	RBSL 47
03423-WSW03	2/15/2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	1/9/2023	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	4/14/2023	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	7/14/2023	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/16/2023	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	6/24/2024	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/28/2025	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
DUP-1 (MW10)	2/15/2022	1090	359	783	2440	325	496	<2.50	<0.00499	7770	129	<70.0	298 J	<69.0	343	<500	<7.20
DUP. (WSW01)	2/15/2022	<0.0820	<0.0860	<0.0990	<0.0860	<0.430	<0.0930	<0.0860	<0.00501	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
DUP-1 (TW01)	2/28/2022	<0.270	<0.250	<0.200	<0.230	<2.40	<0.810	<0.250	<0.00581	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
DUP-1 (MW01)	1/9/2023	736	19.2	93.2	21.4	78.8	429	<1.6	<0.0075	4900	64.8	<260	258 J	<147	240	<361	<16.2
DUP. (WSW01)	1/9/2023	<0.21	<0.20	<0.22	<0.22	<0.35	<0.14	<0.16	<0.0057	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
DUP. (MW08)	4/14/2023	4400	21900	2110	13000	765	614 J	<258	<0.0075	<8200	<380	<6740	<11400	<3010	<436	<18000	<1060
DUP. (WSW01)	4/14/2023	<0.21	0.21 J	<0.22	<0.22	<0.35	<0.14	<0.16	<0.0056	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
DUP. (MW08)	7/14/2023	3350	12500	1810	9530	670	<388	<258	<0.0074	<8200	<380	<6740	<11400	<3010	<436	<18000	<1060
DUP. (WSW01)	7/14/2023	<0.21	<0.20	<0.22	<0.22	<0.35	<0.14	<0.16	<0.0055	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
DUP. (MW08)	10/16/2023	4670	23400	2430	14000	679 J	834 J	<412	<0.0075	<13100	<608	<10800	<18200	<4820	<698	<28800	<1690
DUP.(WSW01)	10/16/2023	<0.21	<0.20	<0.22	<0.22	<0.35	<0.14	<0.16	<0.0055	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
DUP-1(MW08)	6/24/2024	4520	22800	2650	12900	891 J	740 J	<412	<0.0073	<13100	<608	<10800	<18200	<4820	<698	<28800	<1690
DUP.(WSW02)	6/24/2024	<0.21	0.50 J	<0.22	<0.22	<0.35	<0.14	<0.16	<0.0059	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
DUP-1 (MW06)	3/28/2025	9.7 J	<4.0	<3.7	<10.0	6.1 J	198	<4.1	<0.0076	3270	33.9	<108	204	<48.2	164	<288	<16.9
DUP. (WSW01)	3/28/2025	<0.21	<0.20	<0.22	<0.22	<0.35	<0.14	<0.16	<0.0060	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
Field Blank	2/15/2022	<0.270	<0.250	<0.200	<0.230	<2.40	<0.810	<0.250	<0.00501	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
	2/15/2022	<0.0820	<0.0860	<0.0990	<0.0860	<0.430	<0.0930	<0.0860	<0.00499	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
	2/28/2022	<0.270	<0.250	<0.200	<0.230	<2.40	<0.810	<0.250	<0.00501	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
	1/9/2023	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0077	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	1/9/2023	<0.21	<0.20	<0.22	<0.22	<0.35	<0.14	<0.16	<0.0057	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	4/14/2023	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0075	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	4/14/2023	<0.21	<0.20	<0.22	<0.22	<0.35	<0.14	<0.16	<0.0056	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	7/14/2023	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0075	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	7/14/2023	<0.21	0.25 J	<0.22	<0.22	<0.35	<0.14	<0.16	<0.0053	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	10/16/2023	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0074	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	10/16/2023	<0.21	<0.20	<0.22	<0.22	<0.35	<0.14	<0.16	<0.0055	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	6/24/2024	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0074	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	6/24/2024	<0.21	0.56	<0.22	<0.22	<0.35	<0.14	<0.16	<0.0061	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	3/28/2025	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0075	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	3/28/2025	<0.21	<0.20	<0.22	<0.22	<0.35	<0.14	<0.16	<0.0060	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
Trip Blank	2/15/2022	<0.270	<0.250	<0.200	<0.230	<2.40	<0.810	<0.250	NT	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
	2/15/2022	<0.0820	<0.0860	<0.0990	<0.0860	<0.430	<0.0930	<0.0860	NT	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
	2/28/2022	<0.270	<0.250	<0.200	<0.230	<2.40	<0.810	<0.250	NT	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
	2/28/2022	<0.270	<0.250	<0.200	<0.230	<2.40	<0.810	<0.250	NT	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
	1/9/2023	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	NT	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	1/9/2023	<0.21	<0.20	<0.22	<0.22	<0.35	<0.14	<0.16	NT	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	4/14/2023	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	NT	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	4/14/2023	<0.21	<0.20	<0.22	<0.22	<0.35	<0.14	<0.16	NT	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	7/14/2023	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	NT	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	7/14/2023	<0.21	0.50 J	<0.22	<0.22	<0.35	<0.14	<0.16	NT	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	10/16/2023	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	NT	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	10/16/2023	<0.21	<0.20	<0.22	<0.22	<0.35	<0.14	<0.16	NT	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	6/24/2024	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	NT	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	6/24/2024	<0.21	0.59	<0.22	<0.22	<0.35	<0.14	<0.16	NT	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	3/28/2025	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	NT	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	3/28/2025	<0.21	<0.20	<0.22	<0.22	<0.35	<0.14	<0.16	NT	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
Notes:		1. BDL = Below Practical Quantitative Limits 2. ug/l = micrograms per liter 3. mg/l = milligrams per liter 4. MTBE = Methyl-Tertiary-Butyl Ether 5. See Appendix for Laboratory Detection Limits 6. NL = Not Located 7. DRY = Well was Dry at the time of Sampling				8. NT = Not Tested 9. EDB = Ethylene Dibromide 10. 1,2 DCA = 1,2-Dichloroethane 11. FPP = Free Phase Petroleum Product 12. * = Wells Have Been Abandoned 13. *J" Values used in Total BTEX Calculations 14. B = Detected in Method Blank				15. "J" values report concentrations above the method detection limits (MDL) and below actual reporting limit (RL). 16. S = MS/MSD Failure 17. P = The RPD between the two columns exceeds 40%. 18. DIPE = Diisopropyl Ether 19. ETBE = Ethyl ter-butyl Ether 20. TAA = tert-Amyl Alcohol				21. TAME = tert-Amyl Methyl Ether 22. TBA = ter-Butyl Alcohol 23. TBF = tert-Butyl Formate 24. TAME = tert-Amyl Methyl Ether 25. * = TW-1 was a temporary well and has been abandoned. 26. NS = Not Sampled 27. Bolded data is above the RBSL (Risk-Based Screening Level)			

TABLE 2
POTENTIOMETRIC DATA
JAKE HUGGINS
MARCH 28, 2025 SAMPLING EVENT
FLORENCE, SOUTH CAROLINA
MECI PROJECT# 25-8491
UST PERMIT# 03423

Well Number	Sample Date	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	TOC Elevation	Groundwater Elevation
03423-MW01	2/15/2022	3-13	***	2.67	***	98.72	96.05
	1/9/2023		***	3.48	***	98.72	95.24
	4/14/2023		***	3.41	***	98.72	95.31
	7/14/2023		***	3.02	***	98.72	95.70
	10/16/2023		***	3.46	***	98.72	95.26
	6/24/2024		***	3.03	***	98.72	95.69
	3/28/2025		***	2.18	***	98.72	96.54
03423-MW02	2/15/2022	3-13	***	2.64	***	96.40	93.76
	1/9/2023		***	3.25	***	96.40	93.15
	4/14/2023		***	3.23	***	96.40	93.17
	7/14/2023		***	3.04	***	96.40	93.36
	10/16/2023		***	3.28	***	96.40	93.12
	6/24/2024		***	3.02	***	96.40	93.38
	3/28/2025		***	1.99	***	96.40	94.41
03423-MW03	2/15/2022	3-13	***	2.42	***	94.95	92.53
	1/9/2023		***	3.15	***	94.95	91.80
	4/14/2023		***	3.06	***	94.95	91.89
	7/14/2023		***	3.29	***	94.95	91.66
	10/16/2023		***	3.62	***	94.95	91.33
	6/24/2024		***	3.62	***	94.95	91.33
	3/28/2025		***	2.16	***	94.95	92.79
03423-MW04	2/15/2022	3-13	***	2.61	***	94.88	92.27
	1/9/2023		***	3.45	***	94.88	91.43
	4/14/2023		***	3.39	***	94.88	91.49
	7/14/2023		***	3.63	***	94.88	91.25
	10/16/2023		***	4.53	***	94.88	90.35
	6/24/2024		***	4.10	***	94.88	90.78
	3/28/2025		***	2.45	***	94.88	92.43
03423-MW05	2/15/2022	3-13	***	2.46	***	94.88	92.42
	1/9/2023		***	3.16	***	94.88	91.72
	4/14/2023		***	3.07	***	94.88	91.81
	7/14/2023		***	3.47	***	94.88	91.41
	10/16/2023		***	5.43	***	94.88	89.45
	6/24/2024		***	3.61	***	94.88	91.27
	3/28/2025		***	2.29	***	94.88	92.59
03423-MW06	2/15/2022	3-13	***	2.83	***	97.86	95.03
	1/9/2023		***	3.50	***	97.86	94.36
	4/14/2023		***	3.32	***	97.86	94.54
	7/14/2023		***	3.07	***	97.86	94.79
	10/16/2023		***	3.24	***	97.86	94.62
	6/24/2024		***	3.05	***	97.86	94.81
	3/28/2025		***	2.49	***	97.86	95.37
03423-MW07	2/15/2022	3-13	***	2.91	***	100.29	97.38
	1/9/2023		***	3.98	***	100.29	96.31
	4/14/2023		***	3.78	***	100.29	96.51
	7/14/2023		***	3.54	***	100.29	96.75
	10/16/2023		***	4.44	***	100.29	95.85
	6/24/2024		***	3.95	***	100.29	96.34
	3/28/2025		***	2.90	***	100.29	97.39

TABLE 2
POTENTIOMETRIC DATA
JAKE HUGGINS
MARCH 28, 2025 SAMPLING EVENT
FLORENCE, SOUTH CAROLINA
MECI PROJECT# 25-8491
UST PERMIT# 03423

Well Number	Sample Date	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	TOC Elevation	Groundwater Elevation
03423-MW08	2/15/2022	3-13	***	3.76	***	100.92	97.16
	1/9/2023		***	4.38	***	100.92	96.54
	4/14/2023		***	4.13	***	100.92	96.79
	7/14/2023		***	3.90	***	100.92	97.02
	10/16/2023		***	4.46	***	100.92	96.46
	6/24/2024		***	4.07	***	100.92	96.85
	3/28/2025		***	1.99	***	100.92	98.93
03423-MW09	2/15/2022	3-13	***	3.97	***	100.92	96.95
	1/9/2023		***	3.27	***	100.92	97.65
	4/14/2023		***	3.19	***	100.92	97.73
	7/14/2023		***	4.22	***	100.92	96.70
	10/16/2023		***	5.21	***	100.92	95.71
	6/24/2024		***	4.60	***	100.92	96.32
	3/28/2025		***	3.34	***	100.92	97.58
03423-MW10	2/15/2022	3-13	***	2.93	***	99.69	96.76
	1/9/2023		***	3.68	***	99.69	96.01
	4/14/2023		***	3.56	***	99.69	96.13
	7/14/2023		***	3.17	***	99.69	96.52
	10/16/2023		***	4.07	***	99.69	95.62
	6/24/2024		***	3.06	***	99.69	96.63
	3/28/2025		***	2.56	***	99.69	97.13
03423-DW01	2/15/2022	20-25	***	2.54	***	98.57	96.03
	1/9/2023		***	3.22	***	98.57	95.35
	4/14/2023		***	3.17	***	98.57	95.40
	7/14/2023		***	3.13	***	98.57	95.44
	10/16/2023		***	3.84	***	98.57	94.73
	6/24/2024		***	3.60	***	98.57	94.97
	3/28/2025		***	2.11	***	98.57	96.46
03423-DW02	2/15/2022	20-25	***	2.51	***	96.48	93.97
	1/9/2023		***	3.01	***	96.48	93.47
	4/14/2023		***	3.03	***	96.48	93.45
	7/14/2023		***	3.53	***	96.48	92.95
	10/16/2023		***	3.75	***	96.48	92.73
	6/24/2024		***	3.65	***	96.48	92.83
	3/28/2025		***	2.21	***	96.48	94.27
03423-DW03	2/15/2022	20-25	***	2.92	***	100.05	97.13
	1/9/2023		***	3.53	***	100.05	96.52
	4/14/2023		***	3.41	***	100.05	96.64
	7/14/2023		***	3.14	***	100.05	96.91
	10/16/2023		***	4.14	***	100.05	95.91
	6/24/2024		***	3.51	***	100.05	96.54
	3/28/2025		***	2.40	***	100.05	97.65
03423-DW04	2/15/2022	20-25	***	3.86	***	101.03	97.17
	1/9/2023		***	4.41	***	101.03	96.62
	4/14/2023		***	4.36	***	101.03	96.67
	7/14/2023		***	4.22	***	101.03	96.81
	10/16/2023		***	5.25	***	101.03	95.78
	6/24/2024		***	4.50	***	101.03	96.53
	3/28/2025		***	3.48	***	101.03	97.55

Notes:

1. Elevations are NAV88.

2. Groundwater depths were measured from the top of the PVC riser pipe.

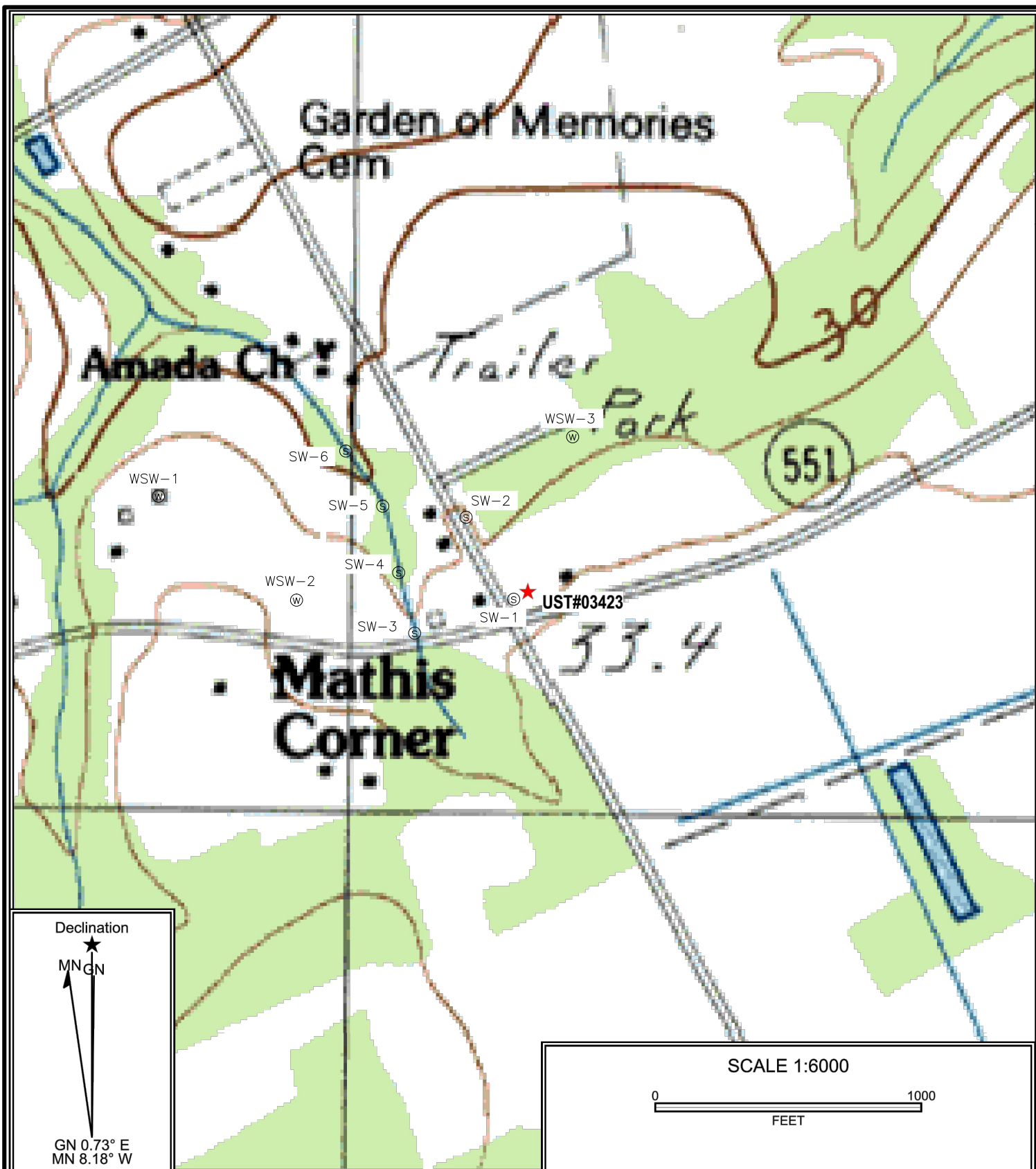
3. NM = Not Measured

4. DRY = Well Gauged DRY

5. TD = Total Depth

6. * = Groundwater elevation corrected for the presence of free product using a specific gravity of 0.85.

FIGURES



Reference: Evergreen, South Carolina
 USGS 7.5 Min. Quad
 Contour Interval - 2 Meters

Midlands
 Environmental
 Consultants, Inc.

Site Location

Jake Huggins DBA Outpost at Willowcreek, LLC.
 4925 Pamplico Highway, Florence, SC
 UST Permit# 18419

Figure 1

MECI# 25-8491

Explanation:

- Location of "Shallow" Monitoring Well
- Location of "Deep" Monitoring Well
- Location of "Shallow" Temporary Monitoring Well
- Location of Surface Water Sample Collection
- Estimated Location of Removed Underground Storage Tanks
- Overhead Powerline
- Property Line
- Buried Water Line
- Buried Communication Line
- Fence
- Drainage Ditch

MW-4

Florence Co. TMS# 00213-01-052
Mobile Home Park

Pamplico Highway (U.S. Highway 5)

Wooded

Florence Co. TMS# 00213-01-053
(Undeveloped/Agricultural)

Florence Co. TMS# 00213-01-149
(Undeveloped/Agricultural)

Florence Co. TMS# 00213-01-019
(Residential)

Florence Co. TMS# 00248-01-018
(Undeveloped/Agricultural)

Florence Co. TMS# 00214-01-013
(Undeveloped)

Site Base Map

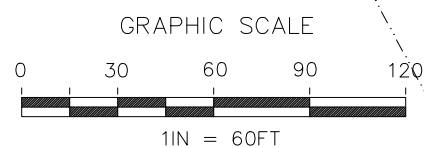
Jake Huggins DBA Outpost at Willow Creek
4925 Pamplico Highway
Florence, South Carolina
UST Permit# 03423

Midlands Environmental Consultants, Inc.

JOB NO. 25-8491
DATE April 9, 2025
FIGURE

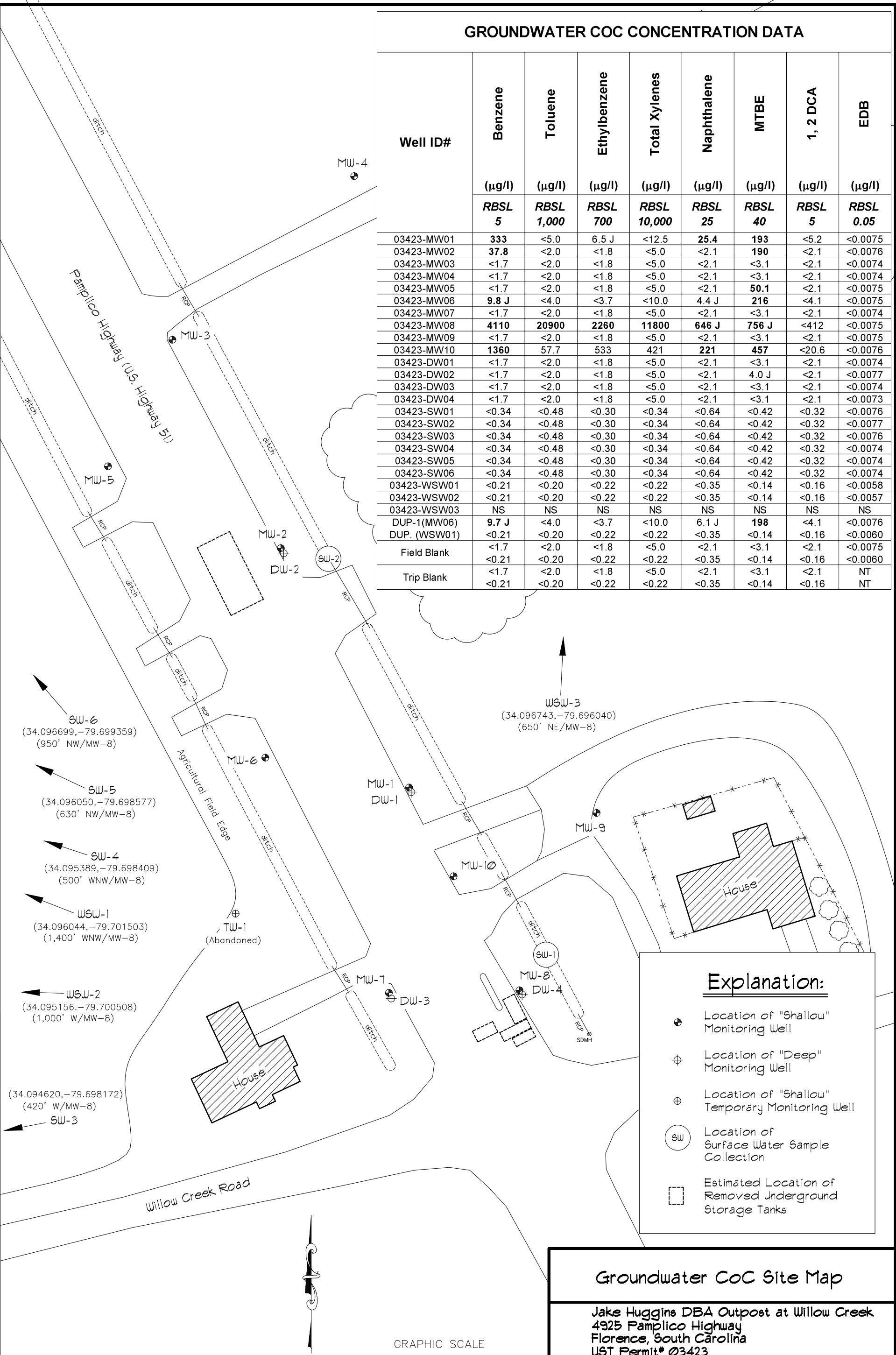
2

Drawing Based on MECI Field Notes, Florence County GIS Imagery and an RLS Survey by Construction Support Services, dated 2/25/2022.

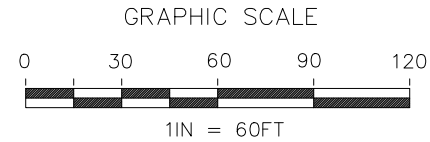


ALL LOCATIONS ARE APPROXIMATE

GROUNDWATER COC CONCENTRATION DATA								
Well ID#	Benzene	Toluene	Ethylbenzene	Total Xylenes	Naphthalene	MTBE	1, 2 DCA	EDB
	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)
	RBSL 5	RBSL 1,000	RBSL 700	RBSL 10,000	RBSL 25	RBSL 40	RBSL 5	RBSL 0.05
03423-MW01	333	<5.0	6.5 J	<12.5	25.4	193	<5.2	<0.0075
03423-MW02	37.8	<2.0	<1.8	<5.0	<2.1	190	<2.1	<0.0076
03423-MW03	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0074
03423-MW04	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0074
03423-MW05	<1.7	<2.0	<1.8	<5.0	<2.1	50.1	<2.1	<0.0075
03423-MW06	9.8 J	<4.0	<3.7	<10.0	4.4 J	216	<4.1	<0.0075
03423-MW07	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0074
03423-MW08	4110	20900	2260	11800	646 J	756 J	<412	<0.0075
03423-MW09	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0075
03423-MW10	1360	57.7	533	421	221	457	<20.6	<0.0076
03423-DW01	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0074
03423-DW02	<1.7	<2.0	<1.8	<5.0	<2.1	4.0 J	<2.1	<0.0077
03423-DW03	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0074
03423-DW04	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0073
03423-SW01	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0076
03423-SW02	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0077
03423-SW03	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0076
03423-SW04	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0074
03423-SW05	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0074
03423-SW06	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0074
03423-WSW01	<0.21	<0.20	<0.22	<0.22	<0.35	<0.14	<0.16	<0.0058
03423-WSW02	<0.21	<0.20	<0.22	<0.22	<0.35	<0.14	<0.16	<0.0057
03423-WSW03	NS	NS	NS	NS	NS	NS	NS	NS
DUP-1(MW06)	9.7 J	<4.0	<3.7	<10.0	6.1 J	198	<4.1	<0.0076
DUP. (WSW01)	<0.21	<0.20	<0.22	<0.22	<0.35	<0.14	<0.16	<0.0060
Field Blank	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0075
	<0.21	<0.20	<0.22	<0.22	<0.35	<0.14	<0.16	<0.0060
Trip Blank	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	NT
	<0.21	<0.20	<0.22	<0.22	<0.35	<0.14	<0.16	NT



Drawing Based on MECI Field Notes, Florence County GIS Imagery and an RLS Survey by Construction Support Services, dated 2/25/2022.



ALL LOCATIONS ARE APPROXIMATE

Groundwater CoC Site Map

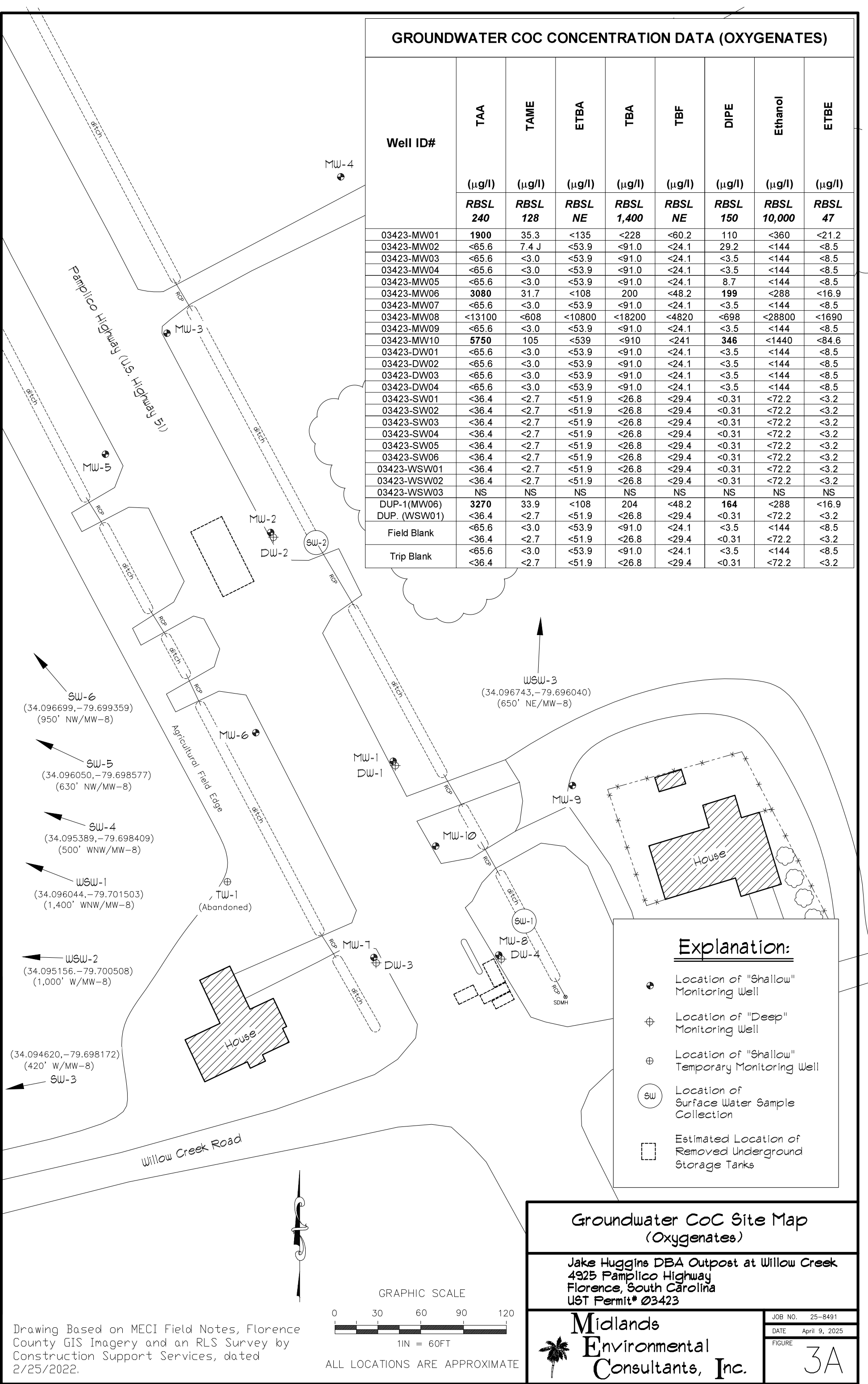
Jake Huggins DBA Outpost at Willow Creek
4925 Pamplico Highway
Florence, South Carolina
UST Permit# 03423

Midlands
Environmental
Consultants, Inc.

JOB NO. 25-8491
DATE April 9, 2025
FIGURE

3

GROUNDWATER COC CONCENTRATION DATA (OXYGENATES)								
Well ID#	TAA	TAME	ETBA	TBA	TBF	DIPE	Ethanol	ETBE
	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)
	RBSL 240	RBSL 128	RBSL NE	RBSL 1,400	RBSL NE	RBSL 150	RBSL 10,000	RBSL 47
03423-MW01	1900	35.3	<135	<228	<60.2	110	<360	<21.2
03423-MW02	<65.6	7.4 J	<53.9	<91.0	<24.1	29.2	<144	<8.5
03423-MW03	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
03423-MW04	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
03423-MW05	<65.6	<3.0	<53.9	<91.0	<24.1	8.7	<144	<8.5
03423-MW06	3080	31.7	<108	200	<48.2	199	<288	<16.9
03423-MW07	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
03423-MW08	<13100	<608	<10800	<18200	<4820	<698	<28800	<1690
03423-MW09	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
03423-MW10	5750	105	<539	<910	<241	346	<1440	<84.6
03423-DW01	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
03423-DW02	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
03423-DW03	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
03423-DW04	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
03423-SW01	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
03423-SW02	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
03423-SW03	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
03423-SW04	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
03423-SW05	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
03423-SW06	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
03423-WSW01	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
03423-WSW02	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
03423-WSW03	NS	NS	NS	NS	NS	NS	NS	NS
DUP-1(MW06)	3270	33.9	<108	204	<48.2	164	<288	<16.9
DUP. (WSW01)	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
Field Blank	<65.6 <36.4	<3.0 <2.7	<53.9 <51.9	<91.0 <26.8	<24.1 <29.4	<3.5 <0.31	<144 <72.2	<8.5 <3.2
Trip Blank	<65.6 <36.4	<3.0 <2.7	<53.9 <51.9	<91.0 <26.8	<24.1 <29.4	<3.5 <0.31	<144 <72.2	<8.5 <3.2

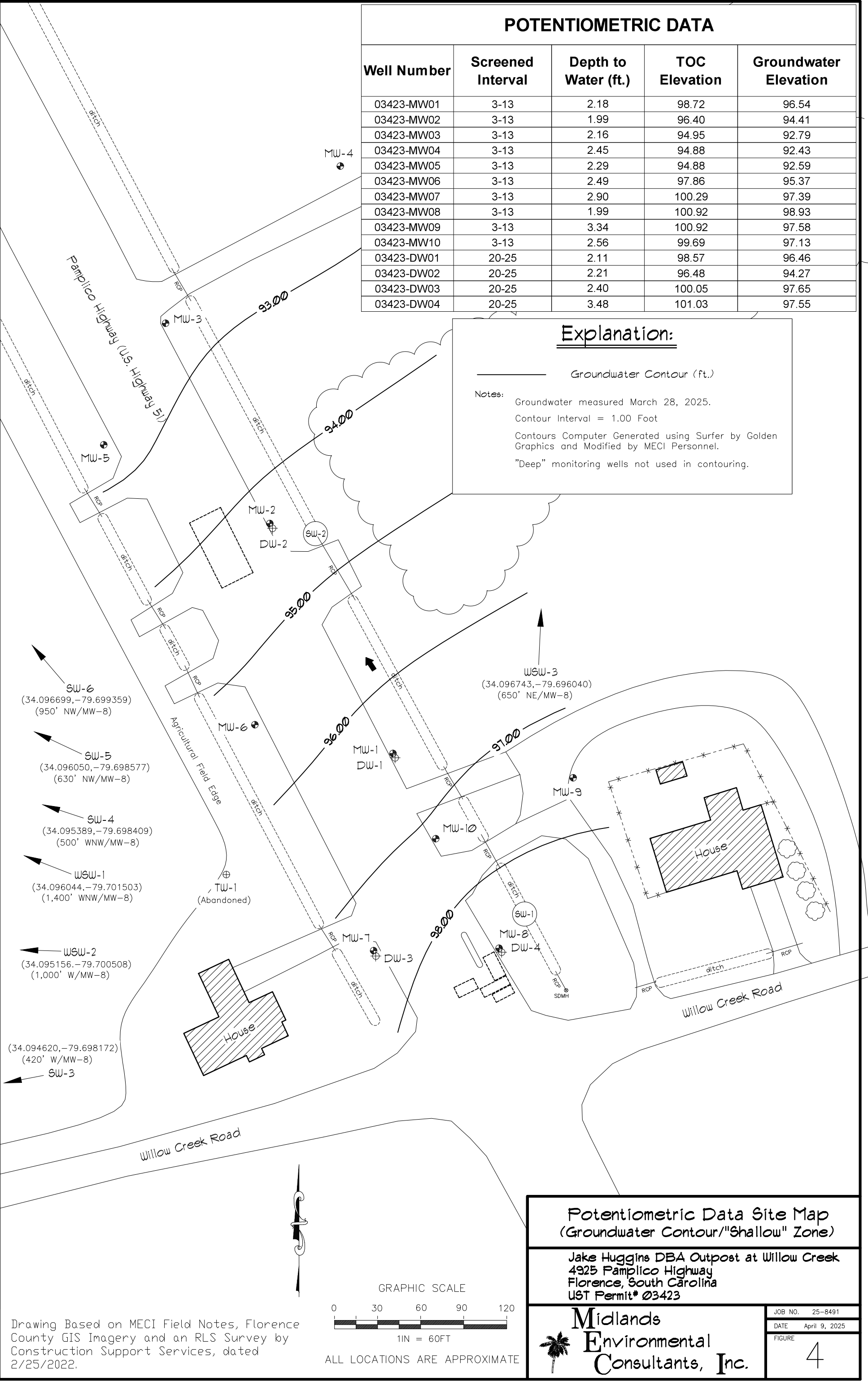


POTENTIOMETRIC DATA				
Well Number	Screened Interval	Depth to Water (ft.)	TOC Elevation	Groundwater Elevation
03423-MW01	3-13	2.18	98.72	96.54
03423-MW02	3-13	1.99	96.40	94.41
03423-MW03	3-13	2.16	94.95	92.79
03423-MW04	3-13	2.45	94.88	92.43
03423-MW05	3-13	2.29	94.88	92.59
03423-MW06	3-13	2.49	97.86	95.37
03423-MW07	3-13	2.90	100.29	97.39
03423-MW08	3-13	1.99	100.92	98.93
03423-MW09	3-13	3.34	100.92	97.58
03423-MW10	3-13	2.56	99.69	97.13
03423-DW01	20-25	2.11	98.57	96.46
03423-DW02	20-25	2.21	96.48	94.27
03423-DW03	20-25	2.40	100.05	97.65
03423-DW04	20-25	3.48	101.03	97.55

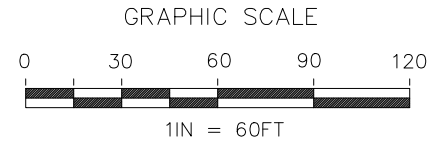
Explanation:

Groundwater Contour (ft.)

Notes:
Groundwater measured March 28, 2025.
Contour Interval = 1.00 Foot
Contours Computer Generated using Surfer by Golden Graphics and Modified by MECI Personnel.
"Deep" monitoring wells not used in contouring.



Drawing Based on MECI Field Notes, Florence County GIS Imagery and an RLS Survey by Construction Support Services, dated 2/25/2022.



ALL LOCATIONS ARE APPROXIMATE

Potentiometric Data Site Map
(Groundwater Contour/"Shallow" Zone)

Jake Huggins DBA Outpost at Willow Creek
4925 Pamlico Highway
Florence, South Carolina
UST Permit# 03423

Midlands
Environmental
Consultants, Inc.

JOB NO. 25-8491
DATE April 9, 2025
FIGURE

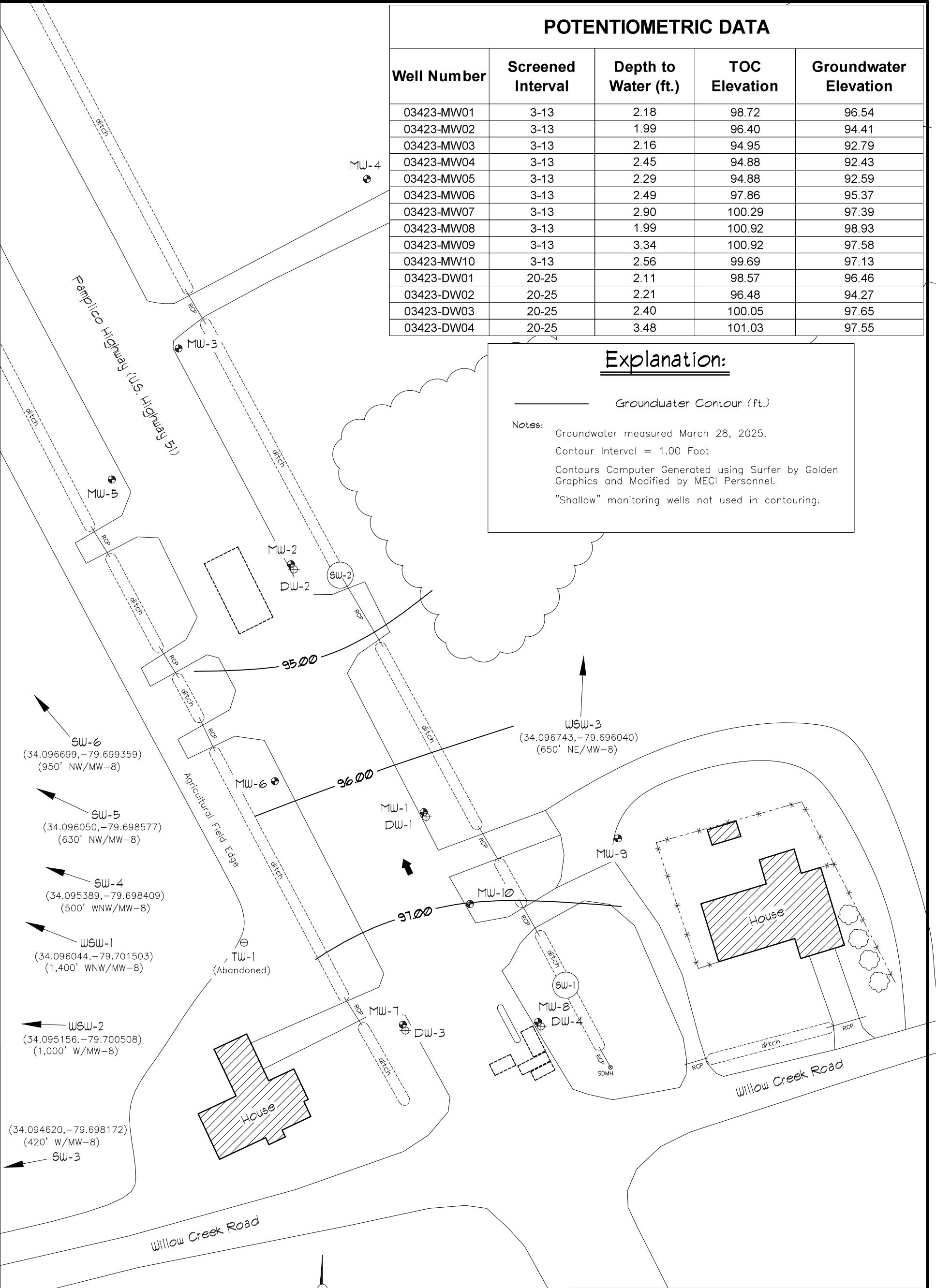
4

POTENTIOMETRIC DATA				
Well Number	Screened Interval	Depth to Water (ft.)	TOC Elevation	Groundwater Elevation
03423-MW01	3-13	2.18	98.72	96.54
03423-MW02	3-13	1.99	96.40	94.41
03423-MW03	3-13	2.16	94.95	92.79
03423-MW04	3-13	2.45	94.88	92.43
03423-MW05	3-13	2.29	94.88	92.59
03423-MW06	3-13	2.49	97.86	95.37
03423-MW07	3-13	2.90	100.29	97.39
03423-MW08	3-13	1.99	100.92	98.93
03423-MW09	3-13	3.34	100.92	97.58
03423-MW10	3-13	2.56	99.69	97.13
03423-DW01	20-25	2.11	98.57	96.46
03423-DW02	20-25	2.21	96.48	94.27
03423-DW03	20-25	2.40	100.05	97.65
03423-DW04	20-25	3.48	101.03	97.55

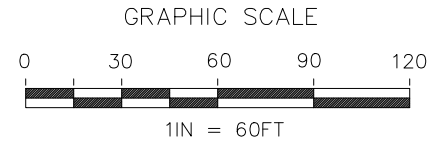
Explanation:

Groundwater Contour (ft.)

Notes:
Groundwater measured March 28, 2025.
Contour Interval = 1.00 Foot
Contours Computer Generated using Surfer by Golden Graphics and Modified by MECI Personnel.
"Shallow" monitoring wells not used in contouring.



Drawing Based on MECI Field Notes, Florence County GIS Imagery and an RLS Survey by Construction Support Services, dated 2/25/2022.



Potentiometric Data Site Map
(Groundwater Contour/"Deep" Zone)

Jake Huggins DBA Outpost at Willow Creek
4925 Pamplico Highway
Florence, South Carolina
UST Permit# 03423

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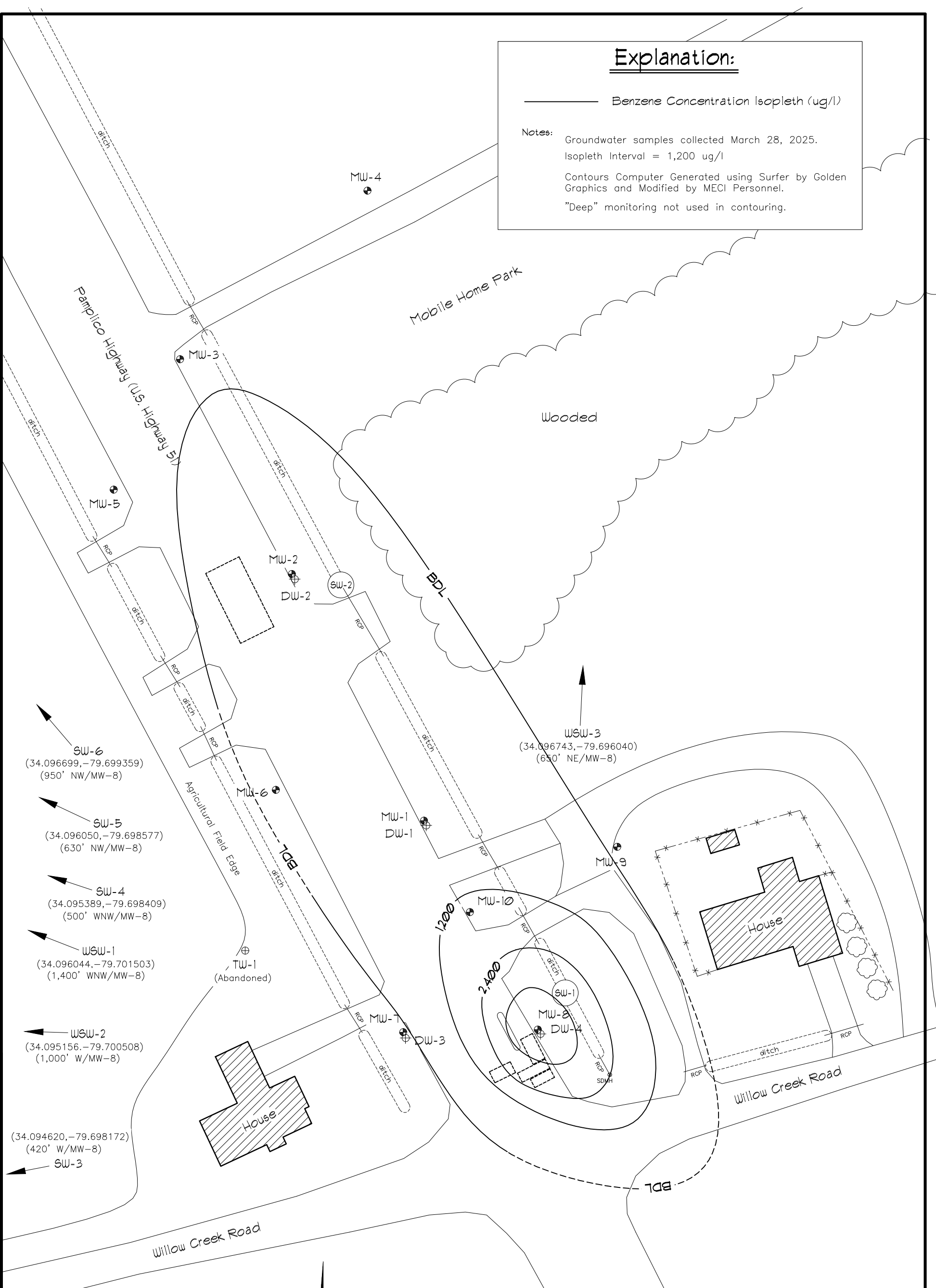
JOB NO. 25-8491
DATE April 9, 2025
FIGURE

4A

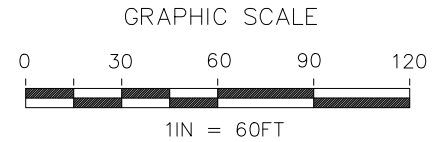
Explanation:

Benzene Concentration Isopleth (ug/l)

Notes: Groundwater samples collected March 28, 2025.
Isopleth Interval = 1,200 ug/l
Contours Computer Generated using Surfer by Golden Graphics and Modified by MECI Personnel.
"Deep" monitoring not used in contouring.



Drawing Based on MECI Field Notes, Florence County GIS Imagery and an RLS Survey by Construction Support Services, dated 2/25/2022.



ALL LOCATIONS ARE APPROXIMATE

Benzene Isopleth - "Shallow" Zone

Jake Huggins DBA Outpost at Willow Creek
4925 Pamplico Highway
Florence, South Carolina
UST Permit# 03423

Midlands
Environmental
Consultants, Inc.

JOB NO. 25-8491
DATE April 9, 2025
FIGURE

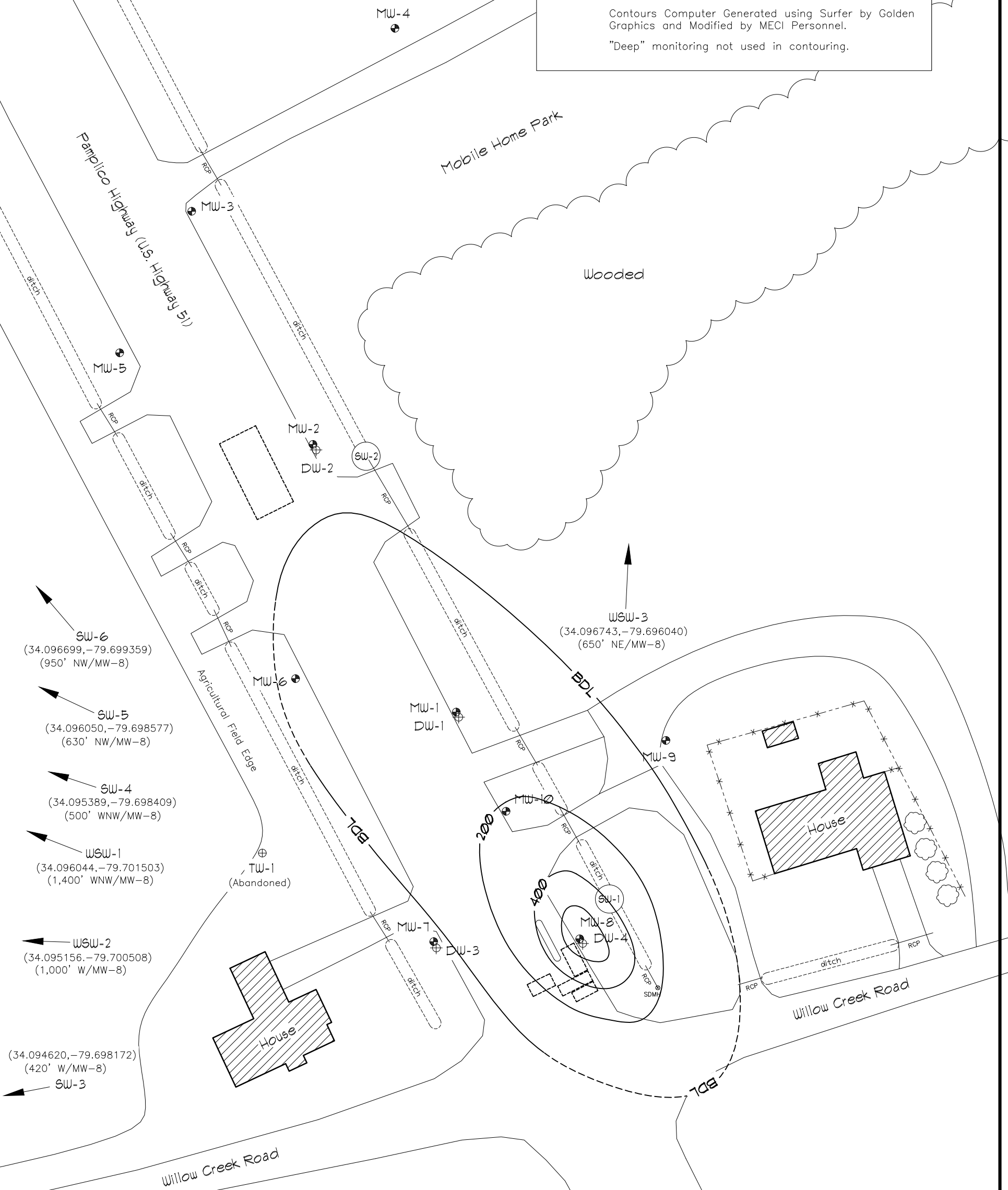
5

Explanation:

Naphthalene Concentration Isopleth (ug/l)

Notes: Groundwater samples collected March 28, 2025.
Isopleth Interval = 200 ug/l

Contours Computer Generated using Surfer by Golden Graphics and Modified by MECI Personnel.
"Deep" monitoring not used in contouring.



Naphthalene Isopleth - "Shallow" Zone

Jake Huggins DBA Outpost at Willow Creek
4925 Pamplico Highway
Florence, South Carolina
UST Permit# 03423

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JOB NO. 25-8491
DATE April 9, 2025
FIGURE

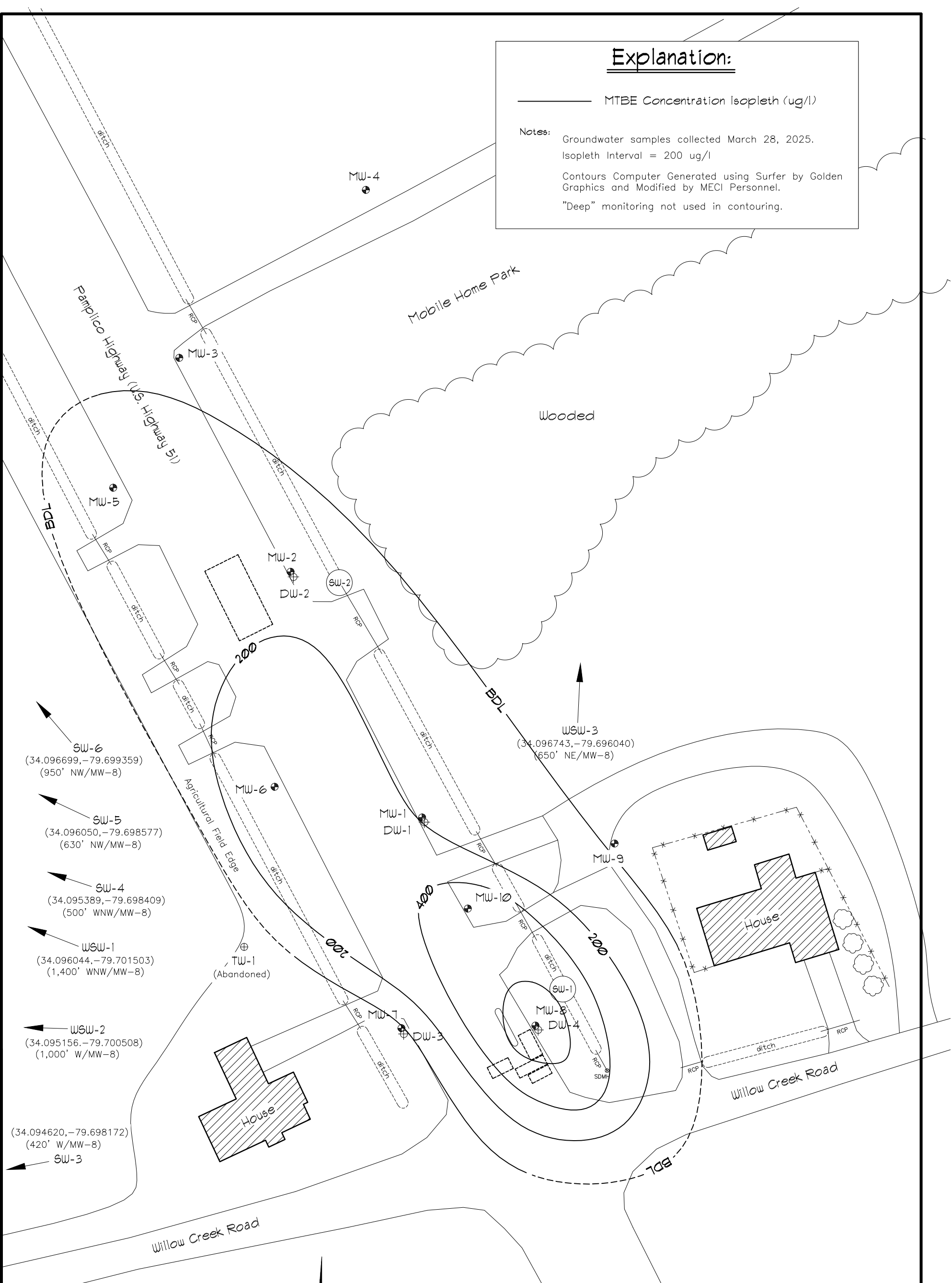
5A

Explanation:

MTBE Concentration Isopleth (ug/l)

Notes: Groundwater samples collected March 28, 2025.
Isopleth Interval = 200 ug/l

Contours Computer Generated using Surfer by Golden
Graphics and Modified by MECI Personnel.
"Deep" monitoring not used in contouring.



MTBE Isopleth - "Shallow" Zone

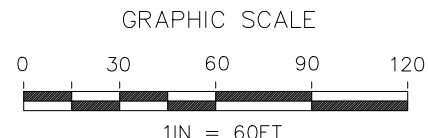
Jake Huggins DBA Outpost at Willow Creek
4925 Pamplico Highway
Florence, South Carolina
UST Permit# 03423

Midlands
Environmental
Consultants, Inc.

JOB NO. 25-8491
DATE April 9, 2025
FIGURE

5B

Drawing Based on MECI Field Notes, Florence
County GIS Imagery and an RLS Survey by
Construction Support Services, dated
2/25/2022.



ALL LOCATIONS ARE APPROXIMATE

APPENDIX A:

SITE SURVEY

(Not Applicable)

APPENDIX B:

SAMPLING LOGS, LABORATORY DATA SHEETS, & CHAIN-OF-CUSTODY FORMS

Monitoring Well Purge And Sampling Data

Calibration Data for :

Field Personnel: TD, 156, MN
Sampling Date(s): 03/28/25
Sampling Case#: 2

Job Name: Snake Huggins
Job Number: 25-8491

Calibration Successful? Yes or No (Please Circle)
pH: Yes No
Conductivity: Yes No
Dissolved Oxygen: Yes No
Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height *(feet)	Gallons Purged		Notes
								product	initial H ₂ O	final H ₂ O			**calc.	actual	
MW-1	Initial	10:36	6.24	65.5	15.3	4.10	9.37				3-13	10.82	1.76	Dry @	slight odor
	1st	10:38	6.08	64.1	15.1	4.15	15.66								
	2nd	10:40	5.99	63.7	14.8	4.22	20.11	2.68	2.40				8.80	3.75 gal	
	3rd														
	4th														
	5th														
	Sampling	12:20	6.02	64.7	15.2	4.15	9.50								
MW-2	Initial	10:08	6.08	132.5	15.6	4.90	9.70				3-13	11.01	1.79	Dry @	slight odor
	1st	10:10	5.90	130.2	15.1	4.95	9.99								
	2nd	10:12	5.47	131.2	14.8	5.02	12.60	1.99	2.08				8.95	3.75 gal	
	3rd														
	4th														
	5th														
	Sampling	12:13	5.59	131.5	14.9	5.00	10.80								
MW-3	Initial	9:40	9.40	89.0	14.7	5.90	9.60				3-13	10.84	1.77	Dry @	no odor
	1st	9:42	8.87	83.2	14.1	5.97	11.18								
	2nd	9:44	8.48	83.8	14.2	6.10	13.80	2.16	2.60				8.85	3.75 gal	
	3rd														
	4th														
	5th														
	Sampling	12:00	8.70	83.3	14.6	5.92	9.80								
MW-4	Initial	9:41	9.16	70.8	14.1	5.67	9.77				3-13	10.55	1.72	Dry @	organic odor added 1 bolt
	1st	9:43	8.64	69.9	13.5	5.82	12.10								
	2nd	9:45	8.27	70.3	13.5	5.90	17.66	2.45	2.70				8.60	3.50 gal	
	3rd														
	4th														
	5th														
	Sampling	12:01	8.80	70.2	13.8	5.69	9.90								

*= (Depth of Well) - (Depth to Water) = Water Height
One Well Volume = x.047 for 1" wells * x .163 for 2" wells, or * x .66 for 4" wells, 1.469 for 6" wells

**= One Well Volume x 5 = Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	Ph/Conductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251

Monitoring Well Purge And Sampling Data

Field Personnel: TD, DG, MN
Sampling Date(s): 03/28/25
Sampling Case#: 2

Job Name: Snake Huggins
Job Number: 25-8491

Calibration Data for :

Calibration Successful? Yes or No (Please Circle)

pH: Yes No
Conductivity: Yes No
Dissolved Oxygen: Yes No
Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height *(feet)	Gallons Purged		Notes
								product	initial H ₂ O	final H ₂ O			**calc.	actual	
MW-5	Initial	9:50	9.36	86.7	16.0	4.98	9.32								
	1st	9:52	8.80	85.1	15.9	5.09	13.80						1.75	Dry	
	2nd	9:54	8.37	86.2	15.2	5.12	19.20		2.29	2.40	3-13	10.71		3.50	
	3rd														
	4th														
	5th												8.75	gar	
	Sampling	12:05	8.62	86.9	16.1	5.05	9.80								
MW-6	Initial	9:51	6.79	55.0	16.3	4.21	9.10								
	1st	9:53	6.32	56.8	16.1	4.30	12.88						1.71	Dry	
	2nd	9:55	6.11	52.1	15.7	4.51	17.18		2.49	2.71	3-13	10.51		3.50	
	3rd														
	4th														
	5th												8.55	gar	
	Sampling	12:06	6.15	54.3	16.2	4.29	9.88								
MW-7	Initial	9:59	7.30	60.7	16.8	5.30	9.11								
	1st	10:01	7.10	61.4	16.1	5.32	12.66						1.65	Dry	
	2nd	10:03	6.22	60.5	15.8	5.35	17.10		2.90	3.01	3-13	10.10		3.50	
	3rd														
	4th														
	5th												8.25	gar	
	Sampling	12:07	6.82	60.6	16.7	5.31	9.82								
MW-8	Initial	10:15	7.20	230.8	16.1	4.21	9.38								
	1st	10:17	6.90	230.7	16.0	4.23	13.10						1.79	Dry	
	2nd	10:19	6.70	232.6	15.7	4.24	14.89		1.99	2.20	3-13	11.01		3.75	
	3rd														
	4th														
	5th												8.95	gar	
	Sampling	12:26	6.99	230.8	16.1	4.25	9.40								

* = (Depth of Well) - (Depth to Water) = Water Height

** = One Well Volume x 5 = Gallons Purged (calculated)

One Well Volume = x .047 for 1" wells * x .163 for 2" wells, or * x .66 for 4" wells, 1.469 for 6" wells

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	Ph/Conductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251

Monitoring Well Purge And Sampling Data

Field Personnel: TD, DG, MN
Sampling Date(s): 03/28/25
Sampling Case#: 2

Job Name: Snake Huggins
Job Number: 25-8491

Calibration Data for :
Calibration Successful? Yes or No (Please Circle)
pH: Yes No
Conductivity: Yes No
Dissolved Oxygen: Yes No
Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height *(feet)	Gallons Purged		Notes
								product	initial H ₂ O	final H ₂ O			**calc.	actual	
MW-9	Initial	10:32	7.89	24.3	15.3	5.72	9.27	3.34	7.66	3 1/3	9.66	7.57	Dry @ 3.25 gal	No odor	
	1st	10:34	7.91	200.2	15.1	5.10	12.10								
	2nd	10:36	7.95	189.6	14.9	4.80	15.65								
	3rd														
	4th														
	5th														
	Sampling	12:23	7.91	200.1	15.2	5.37	10.82								
MW-10	Initial	10:24	7.42	360.3	16.3	3.10	9.19	2.56	2.80	3 1/3	10.44	7.74	Dry @ 3.50	odor	
	1st	10:26	7.50	350.1	16.1	2.80	12.09								
	2nd	10:28	7.60	351.2	15.7	2.20	15.07								
	3rd														
	4th														
	5th														
	Sampling	12:14	7.47	353.1	16.2	2.90	10.80								
DW-1	Initial	10:23	6.74	99.6	16.0	6.10	9.39	2.11	2.20	20-25	22.89	3.73	Dry @ 7.50 gal	No odor	
	1st	10:27	6.50	100.1	15.5	5.90	12.10								
	2nd	10:31	6.71	99.8	15.2	5.68	18.60								
	3rd														
	4th														
	5th														
	Sampling	12:15	6.60	99.5	15.5	5.90	10.15								
DW-2	Initial	10:10	6.23	105.5	15.6	5.82	9.89	2.21	2.37	20-25	22.79	3.71	Dry @ 7.50 gal	No odor	
	1st	10:14	6.70	101.6	15.2	5.60	12.80								
	2nd	10:18	6.82	98.4	14.8	5.15	18.10								
	3rd														
	4th														
	5th														
	Sampling	12:14	6.77	99.7	15.7	5.70	10.12								

*= (Depth of Well) - (Depth to Water) = Water Height
One Well Volume = x.047 for 1" wells * x.163 for 2" wells, or * x.66 for 4" wells, 1.469 for 6" wells

**= One Well Volume x 5 = Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	Ph/Conductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251

Monitoring Well Purge And Sampling Data

Field Personnel: TD, DG, MN
Sampling Date(s): 03/28/25
Sampling Case#: 2

Job Name: Snake Huggins
Job Number: 25-8491

Calibration Data for :
Calibration Successful? Yes or No (Please Circle)
pH: Yes No
Conductivity: Yes No
Dissolved Oxygen: Yes No
Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height *(feet)	Gallons Purged		Notes
								product	initial H ₂ O	final H ₂ O			**calc.	actual	
DW-3	Initial	9:52	7.80	128.9	16.4	3.10	9.20								
	1st	9:56	7.95	125.2	16.1	3.05	15.1						3.68	Drs	
	2nd	10:00	7.41	125.8	15.9	2.95	20.85		2.40	2.50	20-25	22.60			
	3rd														
	4th														
	5th														
	Sampling	12:10	7.50	126.1	16.5	2.99	9.90						18.40	7.50 gal	
DW-4	Initial	10:22	6.08	122.6	16.3	6.50	9.18								
	1st	10:26	6.20	120.8	16.1	6.20	12.67						3.51	Drs	
	2nd	10:30	6.01	118.7	16.0	5.48	17.14		3.48	3.60	20-25	21.52			
	3rd														
	4th														
	5th														
	Sampling	12:20	6.10	119.4	16.4	5.51	10.18						17.55	7.25 gal	
SW-1	Initial	10:40	8.03	102.2	13.5	6.51	9.70								
	1st	Sampled from ditch													
	2nd	Sampled from ditch													
	3rd	10:41	7.00	83.3	13.1	5.90	9.13								
	4th	Sampled from ditch													
SW-2	5th	Sampled from ditch													
	Sampling														
SW-3	Initial	9:30	9.26	81.2	13.0	7.01	9.11								
	1st	Sampled from ditch													
	2nd	Sampled from ditch													
	3rd	9:31	9.04	90.6	13.2	6.15	10.80								
	4th	Sampled from ditch													
SW-4	5th	Sampled from ditch													
	Sampling														

*= (Depth of Well) - (Depth to Water) = Water Height
One Well Volume = x.047 for 1" wells * x .163 for 2" wells, or * x .66 for 4" wells, 1.469 for 6" wells

**= One Well Volume x 5 = Gallons Purged (calculated)

Sampling Case#	Ph/Conductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Monitoring Well Purge And Sampling Data

Field Personnel: TD, DG, MN
Sampling Date(s): 03/28/25
Sampling Case#: 2

Job Name: Sake Hughes
Job Number: 25-8491

Calibration Data for :
Calibration Successful? Yes or No (Please Circle)
pH: Yes No
Conductivity: Yes No
Dissolved Oxygen: Yes No
Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height *(feet)	Gallons Purged		Notes
								product	initial H ₂ O	final H ₂ O			**calc.	actual	
SW-5	Initial	9:35	9.96	88.5	11.7	8.20	9.10								
	1st	Sampled from ditch													
	2nd	Sampled from ditch													
SW-6	3rd	9:36	9.01	101.4	11.5	8.10	10.15								
	4th	Sampled from ditch													
	5th	Sampled from ditch													
Dup-1	Initial	Duke of NW-6, slight odor, 12:06													
FB-1	1st														
	2nd														
	3rd														
	4th														
GAC	5th														
	Sampling														
WSW-1	Initial	11:00	7.20	102.5	15.8	2.34	3.60								
	1st	Sampled from spring on WSW in barn													
	2nd														
	3rd														
WSW-2	4th														
	5th	Sampled from spring on WSW													
	Sampling														
WSW-3	Initial	DWS, unable to sample w/ bailer													
	1st														
	2nd														
	3rd														
WSW-4	4th	DWS, well never located/prev.													
	5th	no P.O. to measure lot													
	Sampling														

*= (Depth of Well) - (Depth to Water) = Water Height
One Well Volume = x .047 for 1" wells * x .163 for 2" wells, or * x .66 for 4" wells, 1.469 for 6" wells
**= One Well Volume x 5 = Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	Ph/Conductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251

Midlands
Environmental
Consultants, Inc.

Field Personnel: TD, DG, MN

Sampling Date(s): 03/28/25

Sampling Case#: 2

**Monitoring Well Purge
And Sampling Data**

Job Name: Sake Hughes

Job Number: 25-8491

Calibration Data for :

Calibration Successful? Yes or No (Please Circle)

pH: Yes No

Conductivity: Yes No

Dissolved Oxygen: Yes No

Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height *(feet)	Gallons Purged		Notes
								product	initial H ₂ O	final H ₂ O			**calc.	actual	
WSW-Dup	Initial	Duke of wsw													
	1st														
	2nd														
	3rd														
	4th														
	5th														
WSW-TB	Sampling														
	Initial	12: 27													
	1st														
	2nd														
	3rd														
	4th														
	5th														
WSW-TB	Sampling														
	Initial	0800													
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling														
	Initial														
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling														
	Initial														
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling														

*= (Depth of Well) - (Depth to Water = Water Height

**= One Well Volume x 5 = Gallons Purged (calculated)

One Well Volume =x .047 for 1" wells * x .163 for 2" wells, or * x .66 for 4" wells, 1.469 for 6" wells

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	Ph/Conductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251



April 07, 2025

Mr. Bryan Shane, P.G.
Midlands Environmental
PO Box 854
Lexington, SC 29071

RE: Project: JAKE HUGGINS 3423
Pace Project No.: 92787830

Dear Mr. Shane, P.G.:

Enclosed are the analytical results for sample(s) received by the laboratory on March 28, 2025. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Charlotte

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Blake Hilton

Blake Hilton
blake.hilton@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Mr. Jeff Coleman, Midlands Environmental



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: JAKE HUGGINS 3423

Pace Project No.: 92787830

Pace Analytical Services Charlotte

South Carolina Laboratory ID: 99006

9800 Kincey Ave. Ste 100, Huntersville, NC 28078

North Carolina Drinking Water Certification #: 37706

North Carolina Field Services Certification #: 5342

North Carolina Wastewater Certification #: 12

South Carolina Laboratory ID: 99006

South Carolina Certification #: 99006001

South Carolina Drinking Water Cert. #: 99006003

Florida/NELAP Certification #: E87627

Kentucky UST Certification #: 84

Louisiana DoH Drinking Water #: LA029

Virginia/VELAP Certification #: 460221

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SAMPLE ANALYTE COUNT

Project: JAKE HUGGINS 3423

Pace Project No.: 92787830

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92787830001	MW-1	EPA 8011	SMS1	2	PASI-C
		EPA 8260D	TMH	20	PASI-C
92787830002	MW-2	EPA 8011	SMS1	2	PASI-C
		EPA 8260D	TMH	20	PASI-C
92787830003	MW-3	EPA 8011	SMS1	2	PASI-C
		EPA 8260D	LMB	20	PASI-C
92787830004	MW-4	EPA 8011	HH	2	PASI-C
		EPA 8260D	LMB	20	PASI-C
92787830005	MW-5	EPA 8011	HH	2	PASI-C
		EPA 8260D	LMB	20	PASI-C
92787830006	MW-6	EPA 8011	HH	2	PASI-C
		EPA 8260D	LMB	20	PASI-C
92787830007	MW-7	EPA 8011	HH	2	PASI-C
		EPA 8260D	LMB	20	PASI-C
92787830008	MW-8	EPA 8011	HH	2	PASI-C
		EPA 8260D	LMB	20	PASI-C
92787830009	MW-9	EPA 8011	HH	2	PASI-C
		EPA 8260D	LMB	20	PASI-C
92787830010	MW-10	EPA 8011	HH	2	PASI-C
		EPA 8260D	TMH	20	PASI-C
92787830011	DW-1	EPA 8011	HH	2	PASI-C
		EPA 8260D	LMB	20	PASI-C
92787830012	DW-2	EPA 8011	HH	2	PASI-C
		EPA 8260D	LMB	20	PASI-C
92787830013	DW-3	EPA 8011	HH	2	PASI-C
		EPA 8260D	LMB	20	PASI-C
92787830014	DW-4	EPA 8011	HH	2	PASI-C
		EPA 8260D	LMB	20	PASI-C
92787830015	SW-1	EPA 8011	HH	2	PASI-C
		EPA 8260D	LMB	20	PASI-C
92787830016	SW-2	EPA 8011	HH	2	PASI-C
		EPA 8260D	LMB	20	PASI-C
92787830017	SW-3	EPA 8011	HH	2	PASI-C
		EPA 8260D	LMB	20	PASI-C
92787830018	SW-4	EPA 8011	HH	2	PASI-C
		EPA 8260D	LMB	20	PASI-C
92787830019	SW-5	EPA 8011	HH	2	PASI-C

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: JAKE HUGGINS 3423

Pace Project No.: 92787830

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92787830020	SW-6	EPA 8260D	LMB	20	PASI-C
		EPA 8011	HH	2	PASI-C
92787830021	DUP	EPA 8260D	LMB	20	PASI-C
		EPA 8011	HH	2	PASI-C
92787830022	FB	EPA 8260D	TMH	20	PASI-C
		EPA 8011	HH	2	PASI-C
92787830023	GAC	EPA 8260D	LMB	20	PASI-C
		EPA 8011	HH	2	PASI-C
92787830024	TB	EPA 8260D	LMB	20	PASI-C
		EPA 8260D	LMB	20	PASI-C
92787830025	WSW-1	EPA 504.1	SMS1	2	PASI-C
		EPA 524.2	JN	11	PASI-C
92787830026	WSW-2	EPA 8260D	LMB	11	PASI-C
		EPA 504.1	SMS1	2	PASI-C
92787830027	WSW-DUP	EPA 524.2	LMB	11	PASI-C
		EPA 8260D	LMB	11	PASI-C
92787830028	WSW-FB	EPA 504.1	SMS1	2	PASI-C
		EPA 524.2	LMB	11	PASI-C
92787830029	WSW-TB	EPA 8260D	LMB	11	PASI-C
		EPA 524.2	JN	11	PASI-C
		EPA 8260D	LMB	11	PASI-C

PASI-C = Pace Analytical Services - Charlotte

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: JAKE HUGGINS 3423

Pace Project No.: 92787830

Sample: MW-1		Lab ID: 92787830001		Collected: 03/28/25 12:20		Received: 03/28/25 20:12		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8011 GCS EDB and DBCP		Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	04/03/25 08:17	04/04/25 05:58	106-93-4		
Surrogates									
1-Chloro-2-bromopropane (S)	103	%	60-140	1	04/03/25 08:17	04/04/25 05:58	301-79-56		
8260 MSV		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	1900	ug/L	250	2.5		04/02/25 14:03	75-85-4		
tert-Amylmethyl ether	35.3	ug/L	25.0	2.5		04/02/25 14:03	994-05-8		
Benzene	333	ug/L	12.5	2.5		04/02/25 14:03	71-43-2		
3,3-Dimethyl-1-Butanol	ND	ug/L	250	2.5		04/02/25 14:03	624-95-3		
tert-Butyl Alcohol	ND	ug/L	250	2.5		04/02/25 14:03	75-65-0		
tert-Butyl Formate	ND	ug/L	125	2.5		04/02/25 14:03	762-75-4		
1,2-Dichloroethane	ND	ug/L	12.5	2.5		04/02/25 14:03	107-06-2		
Diisopropyl ether	110	ug/L	12.5	2.5		04/02/25 14:03	108-20-3		
Ethanol	ND	ug/L	500	2.5		04/02/25 14:03	64-17-5		
Ethylbenzene	6.5J	ug/L	12.5	2.5		04/02/25 14:03	100-41-4		
Ethyl-tert-butyl ether	ND	ug/L	25.0	2.5		04/02/25 14:03	637-92-3		
Methyl-tert-butyl ether	193	ug/L	12.5	2.5		04/02/25 14:03	1634-04-4		
Naphthalene	25.4	ug/L	12.5	2.5		04/02/25 14:03	91-20-3		
Toluene	ND	ug/L	12.5	2.5		04/02/25 14:03	108-88-3		
Xylene (Total)	ND	ug/L	12.5	2.5		04/02/25 14:03	1330-20-7		
m&p-Xylene	ND	ug/L	25.0	2.5		04/02/25 14:03	179601-23-1		
o-Xylene	ND	ug/L	12.5	2.5		04/02/25 14:03	95-47-6		
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130	2.5		04/02/25 14:03	460-00-4		
1,2-Dichloroethane-d4 (S)	102	%	70-130	2.5		04/02/25 14:03	17060-07-0		
Toluene-d8 (S)	100	%	70-130	2.5		04/02/25 14:03	2037-26-5		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: JAKE HUGGINS 3423

Pace Project No.: 92787830

Sample: MW-2		Lab ID: 92787830002		Collected: 03/28/25 12:13		Received: 03/28/25 20:12		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8011 GCS EDB and DBCP		Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	04/03/25 08:17	04/04/25 06:10	106-93-4		
Surrogates									
1-Chloro-2-bromopropane (S)	111	%	60-140	1	04/03/25 08:17	04/04/25 06:10	301-79-56		
8260 MSV		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		04/02/25 00:27	75-85-4		
tert-Amylmethyl ether	7.43	ug/L	10.0	1		04/02/25 00:27	994-05-8		
Benzene	37.8	ug/L	5.0	1		04/02/25 00:27	71-43-2		
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		04/02/25 00:27	624-95-3		
tert-Butyl Alcohol	ND	ug/L	100	1		04/02/25 00:27	75-65-0		
tert-Butyl Formate	ND	ug/L	50.0	1		04/02/25 00:27	762-75-4		
1,2-Dichloroethane	ND	ug/L	5.0	1		04/02/25 00:27	107-06-2		
Diisopropyl ether	29.2	ug/L	5.0	1		04/02/25 00:27	108-20-3		
Ethanol	ND	ug/L	200	1		04/02/25 00:27	64-17-5		
Ethylbenzene	ND	ug/L	5.0	1		04/02/25 00:27	100-41-4		
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		04/02/25 00:27	637-92-3		
Methyl-tert-butyl ether	190	ug/L	5.0	1		04/02/25 00:27	1634-04-4		
Naphthalene	ND	ug/L	5.0	1		04/02/25 00:27	91-20-3		
Toluene	ND	ug/L	5.0	1		04/02/25 00:27	108-88-3		
Xylene (Total)	ND	ug/L	5.0	1		04/02/25 00:27	1330-20-7		
m&p-Xylene	ND	ug/L	10.0	1		04/02/25 00:27	179601-23-1		
o-Xylene	ND	ug/L	5.0	1		04/02/25 00:27	95-47-6		
Surrogates									
4-Bromofluorobenzene (S)	104	%	70-130	1		04/02/25 00:27	460-00-4		
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		04/02/25 00:27	17060-07-0		
Toluene-d8 (S)	95	%	70-130	1		04/02/25 00:27	2037-26-5		

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ANALYTICAL RESULTS

Project: JAKE HUGGINS 3423

Pace Project No.: 92787830

Sample: MW-3		Lab ID: 92787830003		Collected: 03/28/25 12:00		Received: 03/28/25 20:12		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8011 GCS EDB and DBCP		Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	04/03/25 08:17	04/04/25 06:21	106-93-4		
Surrogates									
1-Chloro-2-bromopropane (S)	113	%	60-140	1	04/03/25 08:17	04/04/25 06:21	301-79-56		
8260 MSV		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		03/31/25 21:00	75-85-4		
tert-Amylmethyl ether	ND	ug/L	10.0	1		03/31/25 21:00	994-05-8		
Benzene	ND	ug/L	5.0	1		03/31/25 21:00	71-43-2		
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		03/31/25 21:00	624-95-3		
tert-Butyl Alcohol	ND	ug/L	100	1		03/31/25 21:00	75-65-0		
tert-Butyl Formate	ND	ug/L	50.0	1		03/31/25 21:00	762-75-4	L1,v1	
1,2-Dichloroethane	ND	ug/L	5.0	1		03/31/25 21:00	107-06-2		
Diisopropyl ether	ND	ug/L	5.0	1		03/31/25 21:00	108-20-3		
Ethanol	ND	ug/L	200	1		03/31/25 21:00	64-17-5		
Ethylbenzene	ND	ug/L	5.0	1		03/31/25 21:00	100-41-4		
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		03/31/25 21:00	637-92-3		
Methyl-tert-butyl ether	ND	ug/L	5.0	1		03/31/25 21:00	1634-04-4		
Naphthalene	ND	ug/L	5.0	1		03/31/25 21:00	91-20-3		
Toluene	ND	ug/L	5.0	1		03/31/25 21:00	108-88-3		
Xylene (Total)	ND	ug/L	5.0	1		03/31/25 21:00	1330-20-7		
m&p-Xylene	ND	ug/L	10.0	1		03/31/25 21:00	179601-23-1		
o-Xylene	ND	ug/L	5.0	1		03/31/25 21:00	95-47-6		
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130	1		03/31/25 21:00	460-00-4		
1,2-Dichloroethane-d4 (S)	95	%	70-130	1		03/31/25 21:00	17060-07-0		
Toluene-d8 (S)	100	%	70-130	1		03/31/25 21:00	2037-26-5		

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ANALYTICAL RESULTS

Project: JAKE HUGGINS 3423

Pace Project No.: 92787830

Sample: MW-4		Lab ID: 92787830004		Collected: 03/28/25 12:01		Received: 03/28/25 20:12		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8011 GCS EDB and DBCP		Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	04/04/25 08:25	04/04/25 16:43	106-93-4	L1,v1	
Surrogates									
1-Chloro-2-bromopropane (S)	125	%	60-140	1	04/04/25 08:25	04/04/25 16:43	301-79-56		
8260 MSV		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		03/31/25 21:19	75-85-4		
tert-Amylmethyl ether	ND	ug/L	10.0	1		03/31/25 21:19	994-05-8		
Benzene	ND	ug/L	5.0	1		03/31/25 21:19	71-43-2		
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		03/31/25 21:19	624-95-3		
tert-Butyl Alcohol	ND	ug/L	100	1		03/31/25 21:19	75-65-0		
tert-Butyl Formate	ND	ug/L	50.0	1		03/31/25 21:19	762-75-4		
1,2-Dichloroethane	ND	ug/L	5.0	1		03/31/25 21:19	107-06-2		
Diisopropyl ether	ND	ug/L	5.0	1		03/31/25 21:19	108-20-3		
Ethanol	ND	ug/L	200	1		03/31/25 21:19	64-17-5		
Ethylbenzene	ND	ug/L	5.0	1		03/31/25 21:19	100-41-4		
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		03/31/25 21:19	637-92-3		
Methyl-tert-butyl ether	ND	ug/L	5.0	1		03/31/25 21:19	1634-04-4		
Naphthalene	ND	ug/L	5.0	1		03/31/25 21:19	91-20-3		
Toluene	ND	ug/L	5.0	1		03/31/25 21:19	108-88-3		
Xylene (Total)	ND	ug/L	5.0	1		03/31/25 21:19	1330-20-7		
m&p-Xylene	ND	ug/L	10.0	1		03/31/25 21:19	179601-23-1		
o-Xylene	ND	ug/L	5.0	1		03/31/25 21:19	95-47-6		
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130	1		03/31/25 21:19	460-00-4		
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		03/31/25 21:19	17060-07-0		
Toluene-d8 (S)	100	%	70-130	1		03/31/25 21:19	2037-26-5		

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ANALYTICAL RESULTS

Project: JAKE HUGGINS 3423

Pace Project No.: 92787830

Sample: MW-5		Lab ID: 92787830005		Collected: 03/28/25 12:05		Received: 03/28/25 20:12		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8011 GCS EDB and DBCP		Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	04/04/25 08:25	04/04/25 17:11	106-93-4		
Surrogates									
1-Chloro-2-bromopropane (S)	111	%	60-140	1	04/04/25 08:25	04/04/25 17:11	301-79-56		
8260 MSV		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		04/01/25 08:20	75-85-4		
tert-Amylmethyl ether	ND	ug/L	10.0	1		04/01/25 08:20	994-05-8		
Benzene	ND	ug/L	5.0	1		04/01/25 08:20	71-43-2		
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		04/01/25 08:20	624-95-3		
tert-Butyl Alcohol	ND	ug/L	100	1		04/01/25 08:20	75-65-0		
tert-Butyl Formate	ND	ug/L	50.0	1		04/01/25 08:20	762-75-4		
1,2-Dichloroethane	ND	ug/L	5.0	1		04/01/25 08:20	107-06-2		
Diisopropyl ether	8.7	ug/L	5.0	1		04/01/25 08:20	108-20-3		
Ethanol	ND	ug/L	200	1		04/01/25 08:20	64-17-5		
Ethylbenzene	ND	ug/L	5.0	1		04/01/25 08:20	100-41-4		
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		04/01/25 08:20	637-92-3		
Methyl-tert-butyl ether	50.1	ug/L	5.0	1		04/01/25 08:20	1634-04-4		
Naphthalene	ND	ug/L	5.0	1		04/01/25 08:20	91-20-3		
Toluene	ND	ug/L	5.0	1		04/01/25 08:20	108-88-3		
Xylene (Total)	ND	ug/L	5.0	1		04/01/25 08:20	1330-20-7		
m&p-Xylene	ND	ug/L	10.0	1		04/01/25 08:20	179601-23-1		
o-Xylene	ND	ug/L	5.0	1		04/01/25 08:20	95-47-6		
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130	1		04/01/25 08:20	460-00-4		
1,2-Dichloroethane-d4 (S)	92	%	70-130	1		04/01/25 08:20	17060-07-0		
Toluene-d8 (S)	99	%	70-130	1		04/01/25 08:20	2037-26-5		

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ANALYTICAL RESULTS

Project: JAKE HUGGINS 3423
Pace Project No.: 92787830

Sample: MW-6		Lab ID: 92787830006		Collected: 03/28/25 12:06		Received: 03/28/25 20:12		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8011 GCS EDB and DBCP		Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	04/04/25 08:25	04/04/25 17:45	106-93-4		
Surrogates									
1-Chloro-2-bromopropane (S)	106	%	60-140	1	04/04/25 08:25	04/04/25 17:45	301-79-56		
8260 MSV		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	3080	ug/L	200	2		04/01/25 16:01	75-85-4		
tert-Amylmethyl ether	31.7	ug/L	20.0	2		04/01/25 16:01	994-05-8		
Benzene	9.8J	ug/L	10.0	2		04/01/25 16:01	71-43-2		
3,3-Dimethyl-1-Butanol	ND	ug/L	200	2		04/01/25 16:01	624-95-3		
tert-Butyl Alcohol	200	ug/L	200	2		04/01/25 16:01	75-65-0		
tert-Butyl Formate	ND	ug/L	100	2		04/01/25 16:01	762-75-4		
1,2-Dichloroethane	ND	ug/L	10.0	2		04/01/25 16:01	107-06-2		
Diisopropyl ether	199	ug/L	10.0	2		04/01/25 16:01	108-20-3	v1	
Ethanol	ND	ug/L	400	2		04/01/25 16:01	64-17-5		
Ethylbenzene	ND	ug/L	10.0	2		04/01/25 16:01	100-41-4		
Ethyl-tert-butyl ether	ND	ug/L	20.0	2		04/01/25 16:01	637-92-3		
Methyl-tert-butyl ether	216	ug/L	10.0	2		04/01/25 16:01	1634-04-4		
Naphthalene	4.4J	ug/L	10.0	2		04/01/25 16:01	91-20-3		
Toluene	ND	ug/L	10.0	2		04/01/25 16:01	108-88-3		
Xylene (Total)	ND	ug/L	10.0	2		04/01/25 16:01	1330-20-7		
m&p-Xylene	ND	ug/L	20.0	2		04/01/25 16:01	179601-23-1		
o-Xylene	ND	ug/L	10.0	2		04/01/25 16:01	95-47-6		
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130	2		04/01/25 16:01	460-00-4		
1,2-Dichloroethane-d4 (S)	123	%	70-130	2		04/01/25 16:01	17060-07-0		
Toluene-d8 (S)	103	%	70-130	2		04/01/25 16:01	2037-26-5		

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ANALYTICAL RESULTS

Project: JAKE HUGGINS 3423

Pace Project No.: 92787830

Sample: MW-7		Lab ID: 92787830007		Collected: 03/28/25 12:07		Received: 03/28/25 20:12		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8011 GCS EDB and DBCP		Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	04/04/25 08:25	04/04/25 17:56	106-93-4		
Surrogates									
1-Chloro-2-bromopropane (S)	109	%	60-140	1	04/04/25 08:25	04/04/25 17:56	301-79-56		
8260 MSV		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		04/01/25 01:00	75-85-4		
tert-Amylmethyl ether	ND	ug/L	10.0	1		04/01/25 01:00	994-05-8		
Benzene	ND	ug/L	5.0	1		04/01/25 01:00	71-43-2		
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		04/01/25 01:00	624-95-3		
tert-Butyl Alcohol	ND	ug/L	100	1		04/01/25 01:00	75-65-0		
tert-Butyl Formate	ND	ug/L	50.0	1		04/01/25 01:00	762-75-4		
1,2-Dichloroethane	ND	ug/L	5.0	1		04/01/25 01:00	107-06-2		
Diisopropyl ether	ND	ug/L	5.0	1		04/01/25 01:00	108-20-3		
Ethanol	ND	ug/L	200	1		04/01/25 01:00	64-17-5		
Ethylbenzene	ND	ug/L	5.0	1		04/01/25 01:00	100-41-4		
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		04/01/25 01:00	637-92-3		
Methyl-tert-butyl ether	ND	ug/L	5.0	1		04/01/25 01:00	1634-04-4		
Naphthalene	ND	ug/L	5.0	1		04/01/25 01:00	91-20-3		
Toluene	ND	ug/L	5.0	1		04/01/25 01:00	108-88-3		
Xylene (Total)	ND	ug/L	5.0	1		04/01/25 01:00	1330-20-7		
m&p-Xylene	ND	ug/L	10.0	1		04/01/25 01:00	179601-23-1		
o-Xylene	ND	ug/L	5.0	1		04/01/25 01:00	95-47-6		
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130	1		04/01/25 01:00	460-00-4		
1,2-Dichloroethane-d4 (S)	95	%	70-130	1		04/01/25 01:00	17060-07-0		
Toluene-d8 (S)	99	%	70-130	1		04/01/25 01:00	2037-26-5		

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ANALYTICAL RESULTS

Project: JAKE HUGGINS 3423

Pace Project No.: 92787830

Sample: MW-8		Lab ID: 92787830008		Collected: 03/28/25 12:26		Received: 03/28/25 20:12		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8011 GCS EDB and DBCP		Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	04/04/25 08:25	04/04/25 18:08	106-93-4		
Surrogates									
1-Chloro-2-bromopropane (S)	122	%	60-140	1	04/04/25 08:25	04/04/25 18:08	301-79-56		
8260 MSV		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	20000	200		04/01/25 19:08	75-85-4		
tert-Amylmethyl ether	ND	ug/L	2000	200		04/01/25 19:08	994-05-8		
Benzene	4110	ug/L	1000	200		04/01/25 19:08	71-43-2		
3,3-Dimethyl-1-Butanol	ND	ug/L	20000	200		04/01/25 19:08	624-95-3		
tert-Butyl Alcohol	ND	ug/L	20000	200		04/01/25 19:08	75-65-0		
tert-Butyl Formate	ND	ug/L	10000	200		04/01/25 19:08	762-75-4		
1,2-Dichloroethane	ND	ug/L	1000	200		04/01/25 19:08	107-06-2		
Diisopropyl ether	ND	ug/L	1000	200		04/01/25 19:08	108-20-3	v1	
Ethanol	ND	ug/L	40000	200		04/01/25 19:08	64-17-5		
Ethylbenzene	2260	ug/L	1000	200		04/01/25 19:08	100-41-4		
Ethyl-tert-butyl ether	ND	ug/L	2000	200		04/01/25 19:08	637-92-3		
Methyl-tert-butyl ether	756J	ug/L	1000	200		04/01/25 19:08	1634-04-4		
Naphthalene	646J	ug/L	1000	200		04/01/25 19:08	91-20-3		
Toluene	20900	ug/L	1000	200		04/01/25 19:08	108-88-3		
Xylene (Total)	11800	ug/L	1000	200		04/01/25 19:08	1330-20-7		
m&p-Xylene	7550	ug/L	2000	200		04/01/25 19:08	179601-23-1		
o-Xylene	4260	ug/L	1000	200		04/01/25 19:08	95-47-6		
Surrogates									
4-Bromofluorobenzene (S)	103	%	70-130	200		04/01/25 19:08	460-00-4		
1,2-Dichloroethane-d4 (S)	119	%	70-130	200		04/01/25 19:08	17060-07-0		
Toluene-d8 (S)	102	%	70-130	200		04/01/25 19:08	2037-26-5		

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ANALYTICAL RESULTS

Project: JAKE HUGGINS 3423

Pace Project No.: 92787830

Sample: MW-9		Lab ID: 92787830009		Collected: 03/28/25 12:23		Received: 03/28/25 20:12		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8011 GCS EDB and DBCP		Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	04/04/25 08:25	04/04/25 18:19	106-93-4		
Surrogates									
1-Chloro-2-bromopropane (S)	106	%	60-140	1	04/04/25 08:25	04/04/25 18:19	301-79-56		
8260 MSV		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		04/01/25 01:18	75-85-4		
tert-Amylmethyl ether	ND	ug/L	10.0	1		04/01/25 01:18	994-05-8		
Benzene	ND	ug/L	5.0	1		04/01/25 01:18	71-43-2		
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		04/01/25 01:18	624-95-3		
tert-Butyl Alcohol	ND	ug/L	100	1		04/01/25 01:18	75-65-0		
tert-Butyl Formate	ND	ug/L	50.0	1		04/01/25 01:18	762-75-4		
1,2-Dichloroethane	ND	ug/L	5.0	1		04/01/25 01:18	107-06-2		
Diisopropyl ether	ND	ug/L	5.0	1		04/01/25 01:18	108-20-3		
Ethanol	ND	ug/L	200	1		04/01/25 01:18	64-17-5		
Ethylbenzene	ND	ug/L	5.0	1		04/01/25 01:18	100-41-4		
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		04/01/25 01:18	637-92-3		
Methyl-tert-butyl ether	ND	ug/L	5.0	1		04/01/25 01:18	1634-04-4		
Naphthalene	ND	ug/L	5.0	1		04/01/25 01:18	91-20-3		
Toluene	ND	ug/L	5.0	1		04/01/25 01:18	108-88-3		
Xylene (Total)	ND	ug/L	5.0	1		04/01/25 01:18	1330-20-7		
m&p-Xylene	ND	ug/L	10.0	1		04/01/25 01:18	179601-23-1		
o-Xylene	ND	ug/L	5.0	1		04/01/25 01:18	95-47-6		
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130	1		04/01/25 01:18	460-00-4		
1,2-Dichloroethane-d4 (S)	91	%	70-130	1		04/01/25 01:18	17060-07-0		
Toluene-d8 (S)	100	%	70-130	1		04/01/25 01:18	2037-26-5		

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ANALYTICAL RESULTS

Project: JAKE HUGGINS 3423

Pace Project No.: 92787830

Sample: MW-10		Lab ID: 92787830010		Collected: 03/28/25 12:18		Received: 03/28/25 20:12		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8011 GCS EDB and DBCP		Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	04/04/25 08:25	04/04/25 18:31	106-93-4		
Surrogates									
1-Chloro-2-bromopropane (S)	103	%	60-140	1	04/04/25 08:25	04/04/25 18:31	301-79-56		
8260 MSV		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	5750	ug/L	1000	10		04/02/25 15:44	75-85-4		
tert-Amylmethyl ether	105	ug/L	100	10		04/02/25 15:44	994-05-8		
Benzene	1360	ug/L	50.0	10		04/02/25 15:44	71-43-2		
3,3-Dimethyl-1-Butanol	ND	ug/L	1000	10		04/02/25 15:44	624-95-3		
tert-Butyl Alcohol	ND	ug/L	1000	10		04/02/25 15:44	75-65-0		
tert-Butyl Formate	ND	ug/L	500	10		04/02/25 15:44	762-75-4		
1,2-Dichloroethane	ND	ug/L	50.0	10		04/02/25 15:44	107-06-2		
Diisopropyl ether	346	ug/L	50.0	10		04/02/25 15:44	108-20-3		
Ethanol	ND	ug/L	2000	10		04/02/25 15:44	64-17-5		
Ethylbenzene	533	ug/L	50.0	10		04/02/25 15:44	100-41-4		
Ethyl-tert-butyl ether	ND	ug/L	100	10		04/02/25 15:44	637-92-3		
Methyl-tert-butyl ether	457	ug/L	50.0	10		04/02/25 15:44	1634-04-4		
Naphthalene	221	ug/L	50.0	10		04/02/25 15:44	91-20-3		
Toluene	57.7	ug/L	50.0	10		04/02/25 15:44	108-88-3		
Xylene (Total)	421	ug/L	50.0	10		04/02/25 15:44	1330-20-7		
m&p-Xylene	330	ug/L	100	10		04/02/25 15:44	179601-23-1		
o-Xylene	91.3	ug/L	50.0	10		04/02/25 15:44	95-47-6		
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130	10		04/02/25 15:44	460-00-4		
1,2-Dichloroethane-d4 (S)	103	%	70-130	10		04/02/25 15:44	17060-07-0		
Toluene-d8 (S)	99	%	70-130	10		04/02/25 15:44	2037-26-5		

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ANALYTICAL RESULTS

Project: JAKE HUGGINS 3423

Pace Project No.: 92787830

Sample: DW-1		Lab ID: 92787830011		Collected: 03/28/25 12:15		Received: 03/28/25 20:12		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8011 GCS EDB and DBCP		Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	04/04/25 08:25	04/04/25 18:42	106-93-4		
Surrogates									
1-Chloro-2-bromopropane (S)	107	%	60-140	1	04/04/25 08:25	04/04/25 18:42	301-79-56		
8260 MSV		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		04/01/25 08:57	75-85-4		
tert-Amylmethyl ether	ND	ug/L	10.0	1		04/01/25 08:57	994-05-8		
Benzene	ND	ug/L	5.0	1		04/01/25 08:57	71-43-2		
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		04/01/25 08:57	624-95-3		
tert-Butyl Alcohol	ND	ug/L	100	1		04/01/25 08:57	75-65-0		
tert-Butyl Formate	ND	ug/L	50.0	1		04/01/25 08:57	762-75-4		
1,2-Dichloroethane	ND	ug/L	5.0	1		04/01/25 08:57	107-06-2		
Diisopropyl ether	ND	ug/L	5.0	1		04/01/25 08:57	108-20-3		
Ethanol	ND	ug/L	200	1		04/01/25 08:57	64-17-5		
Ethylbenzene	ND	ug/L	5.0	1		04/01/25 08:57	100-41-4		
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		04/01/25 08:57	637-92-3		
Methyl-tert-butyl ether	ND	ug/L	5.0	1		04/01/25 08:57	1634-04-4		
Naphthalene	ND	ug/L	5.0	1		04/01/25 08:57	91-20-3		
Toluene	ND	ug/L	5.0	1		04/01/25 08:57	108-88-3		
Xylene (Total)	ND	ug/L	5.0	1		04/01/25 08:57	1330-20-7		
m&p-Xylene	ND	ug/L	10.0	1		04/01/25 08:57	179601-23-1		
o-Xylene	ND	ug/L	5.0	1		04/01/25 08:57	95-47-6		
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130	1		04/01/25 08:57	460-00-4		
1,2-Dichloroethane-d4 (S)	93	%	70-130	1		04/01/25 08:57	17060-07-0		
Toluene-d8 (S)	101	%	70-130	1		04/01/25 08:57	2037-26-5		

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ANALYTICAL RESULTS

Project: JAKE HUGGINS 3423

Pace Project No.: 92787830

Sample: DW-2		Lab ID: 92787830012		Collected: 03/28/25 12:14		Received: 03/28/25 20:12		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8011 GCS EDB and DBCP		Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	04/04/25 08:25	04/04/25 18:54	106-93-4		
Surrogates									
1-Chloro-2-bromopropane (S)	109	%	60-140	1	04/04/25 08:25	04/04/25 18:54	301-79-56		
8260 MSV		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		04/01/25 08:38	75-85-4		
tert-Amylmethyl ether	ND	ug/L	10.0	1		04/01/25 08:38	994-05-8		
Benzene	ND	ug/L	5.0	1		04/01/25 08:38	71-43-2		
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		04/01/25 08:38	624-95-3		
tert-Butyl Alcohol	ND	ug/L	100	1		04/01/25 08:38	75-65-0		
tert-Butyl Formate	ND	ug/L	50.0	1		04/01/25 08:38	762-75-4		
1,2-Dichloroethane	ND	ug/L	5.0	1		04/01/25 08:38	107-06-2		
Diisopropyl ether	ND	ug/L	5.0	1		04/01/25 08:38	108-20-3		
Ethanol	ND	ug/L	200	1		04/01/25 08:38	64-17-5		
Ethylbenzene	ND	ug/L	5.0	1		04/01/25 08:38	100-41-4		
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		04/01/25 08:38	637-92-3		
Methyl-tert-butyl ether	4.03	ug/L	5.0	1		04/01/25 08:38	1634-04-4		
Naphthalene	ND	ug/L	5.0	1		04/01/25 08:38	91-20-3		
Toluene	ND	ug/L	5.0	1		04/01/25 08:38	108-88-3		
Xylene (Total)	ND	ug/L	5.0	1		04/01/25 08:38	1330-20-7		
m&p-Xylene	ND	ug/L	10.0	1		04/01/25 08:38	179601-23-1		
o-Xylene	ND	ug/L	5.0	1		04/01/25 08:38	95-47-6		
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130	1		04/01/25 08:38	460-00-4		
1,2-Dichloroethane-d4 (S)	93	%	70-130	1		04/01/25 08:38	17060-07-0		
Toluene-d8 (S)	100	%	70-130	1		04/01/25 08:38	2037-26-5		

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ANALYTICAL RESULTS

Project: JAKE HUGGINS 3423

Pace Project No.: 92787830

Sample: DW-3		Lab ID: 92787830013		Collected: 03/28/25 12:10		Received: 03/28/25 20:12		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8011 GCS EDB and DBCP		Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	04/04/25 08:25	04/04/25 19:05	106-93-4		
Surrogates									
1-Chloro-2-bromopropane (S)	112	%	60-140	1	04/04/25 08:25	04/04/25 19:05	301-79-56		
8260 MSV		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		04/01/25 01:36	75-85-4		
tert-Amylmethyl ether	ND	ug/L	10.0	1		04/01/25 01:36	994-05-8		
Benzene	ND	ug/L	5.0	1		04/01/25 01:36	71-43-2		
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		04/01/25 01:36	624-95-3		
tert-Butyl Alcohol	ND	ug/L	100	1		04/01/25 01:36	75-65-0		
tert-Butyl Formate	ND	ug/L	50.0	1		04/01/25 01:36	762-75-4		
1,2-Dichloroethane	ND	ug/L	5.0	1		04/01/25 01:36	107-06-2		
Diisopropyl ether	ND	ug/L	5.0	1		04/01/25 01:36	108-20-3		
Ethanol	ND	ug/L	200	1		04/01/25 01:36	64-17-5		
Ethylbenzene	ND	ug/L	5.0	1		04/01/25 01:36	100-41-4		
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		04/01/25 01:36	637-92-3		
Methyl-tert-butyl ether	ND	ug/L	5.0	1		04/01/25 01:36	1634-04-4		
Naphthalene	ND	ug/L	5.0	1		04/01/25 01:36	91-20-3		
Toluene	ND	ug/L	5.0	1		04/01/25 01:36	108-88-3		
Xylene (Total)	ND	ug/L	5.0	1		04/01/25 01:36	1330-20-7		
m&p-Xylene	ND	ug/L	10.0	1		04/01/25 01:36	179601-23-1		
o-Xylene	ND	ug/L	5.0	1		04/01/25 01:36	95-47-6		
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130	1		04/01/25 01:36	460-00-4		
1,2-Dichloroethane-d4 (S)	94	%	70-130	1		04/01/25 01:36	17060-07-0		
Toluene-d8 (S)	97	%	70-130	1		04/01/25 01:36	2037-26-5		

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ANALYTICAL RESULTS

Project: JAKE HUGGINS 3423

Pace Project No.: 92787830

Sample: DW-4		Lab ID: 92787830014		Collected: 03/28/25 12:20		Received: 03/28/25 20:12		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8011 GCS EDB and DBCP		Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	04/04/25 08:25	04/04/25 19:17	106-93-4		
Surrogates									
1-Chloro-2-bromopropane (S)	114	%	60-140	1	04/04/25 08:25	04/04/25 19:17	301-79-56		
8260 MSV		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		04/01/25 09:15	75-85-4		
tert-Amylmethyl ether	ND	ug/L	10.0	1		04/01/25 09:15	994-05-8		
Benzene	ND	ug/L	5.0	1		04/01/25 09:15	71-43-2		
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		04/01/25 09:15	624-95-3		
tert-Butyl Alcohol	ND	ug/L	100	1		04/01/25 09:15	75-65-0		
tert-Butyl Formate	ND	ug/L	50.0	1		04/01/25 09:15	762-75-4		
1,2-Dichloroethane	ND	ug/L	5.0	1		04/01/25 09:15	107-06-2		
Diisopropyl ether	ND	ug/L	5.0	1		04/01/25 09:15	108-20-3		
Ethanol	ND	ug/L	200	1		04/01/25 09:15	64-17-5		
Ethylbenzene	ND	ug/L	5.0	1		04/01/25 09:15	100-41-4		
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		04/01/25 09:15	637-92-3		
Methyl-tert-butyl ether	ND	ug/L	5.0	1		04/01/25 09:15	1634-04-4		
Naphthalene	ND	ug/L	5.0	1		04/01/25 09:15	91-20-3		
Toluene	ND	ug/L	5.0	1		04/01/25 09:15	108-88-3		
Xylene (Total)	ND	ug/L	5.0	1		04/01/25 09:15	1330-20-7		
m&p-Xylene	ND	ug/L	10.0	1		04/01/25 09:15	179601-23-1		
o-Xylene	ND	ug/L	5.0	1		04/01/25 09:15	95-47-6		
Surrogates									
4-Bromofluorobenzene (S)	92	%	70-130	1		04/01/25 09:15	460-00-4		
1,2-Dichloroethane-d4 (S)	91	%	70-130	1		04/01/25 09:15	17060-07-0		
Toluene-d8 (S)	98	%	70-130	1		04/01/25 09:15	2037-26-5		

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ANALYTICAL RESULTS

Project: JAKE HUGGINS 3423

Pace Project No.: 92787830

Sample: SW-1		Lab ID: 92787830015		Collected: 03/28/25 10:40		Received: 03/28/25 20:12		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8011 GCS EDB and DBCP		Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	04/04/25 08:25	04/04/25 19:28	106-93-4		
Surrogates									
1-Chloro-2-bromopropane (S)	109	%	60-140	1	04/04/25 08:25	04/04/25 19:28	301-79-56		
8260 MSV Low Level SC		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		04/01/25 02:50	75-85-4		
tert-Amylmethyl ether	ND	ug/L	10.0	1		04/01/25 02:50	994-05-8		
Benzene	ND	ug/L	1.0	1		04/01/25 02:50	71-43-2		
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		04/01/25 02:50	624-95-3		
tert-Butyl Alcohol	ND	ug/L	100	1		04/01/25 02:50	75-65-0		
tert-Butyl Formate	ND	ug/L	50.0	1		04/01/25 02:50	762-75-4		
1,2-Dichloroethane	ND	ug/L	1.0	1		04/01/25 02:50	107-06-2		
Diisopropyl ether	ND	ug/L	1.0	1		04/01/25 02:50	108-20-3		
Ethanol	ND	ug/L	200	1		04/01/25 02:50	64-17-5		
Ethylbenzene	ND	ug/L	1.0	1		04/01/25 02:50	100-41-4		
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		04/01/25 02:50	637-92-3		
Methyl-tert-butyl ether	ND	ug/L	1.0	1		04/01/25 02:50	1634-04-4		
Naphthalene	ND	ug/L	1.0	1		04/01/25 02:50	91-20-3		
Toluene	ND	ug/L	1.0	1		04/01/25 02:50	108-88-3		
Xylene (Total)	ND	ug/L	1.0	1		04/01/25 02:50	1330-20-7		
m&p-Xylene	ND	ug/L	2.0	1		04/01/25 02:50	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		04/01/25 02:50	95-47-6		
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130	1		04/01/25 02:50	460-00-4		
1,2-Dichloroethane-d4 (S)	125	%	70-130	1		04/01/25 02:50	17060-07-0		
Toluene-d8 (S)	104	%	70-130	1		04/01/25 02:50	2037-26-5		

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ANALYTICAL RESULTS

Project: JAKE HUGGINS 3423

Pace Project No.: 92787830

Sample: SW-2		Lab ID: 92787830016		Collected: 03/28/25 11:11		Received: 03/28/25 20:12		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8011 GCS EDB and DBCP		Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	04/04/25 08:25	04/04/25 19:39	106-93-4		
Surrogates									
1-Chloro-2-bromopropane (S)	105	%	60-140	1	04/04/25 08:25	04/04/25 19:39	301-79-56		
8260 MSV Low Level SC		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		04/01/25 03:09	75-85-4		
tert-Amylmethyl ether	ND	ug/L	10.0	1		04/01/25 03:09	994-05-8		
Benzene	ND	ug/L	1.0	1		04/01/25 03:09	71-43-2		
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		04/01/25 03:09	624-95-3		
tert-Butyl Alcohol	ND	ug/L	100	1		04/01/25 03:09	75-65-0		
tert-Butyl Formate	ND	ug/L	50.0	1		04/01/25 03:09	762-75-4		
1,2-Dichloroethane	ND	ug/L	1.0	1		04/01/25 03:09	107-06-2		
Diisopropyl ether	ND	ug/L	1.0	1		04/01/25 03:09	108-20-3		
Ethanol	ND	ug/L	200	1		04/01/25 03:09	64-17-5		
Ethylbenzene	ND	ug/L	1.0	1		04/01/25 03:09	100-41-4		
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		04/01/25 03:09	637-92-3		
Methyl-tert-butyl ether	ND	ug/L	1.0	1		04/01/25 03:09	1634-04-4		
Naphthalene	ND	ug/L	1.0	1		04/01/25 03:09	91-20-3		
Toluene	ND	ug/L	1.0	1		04/01/25 03:09	108-88-3		
Xylene (Total)	ND	ug/L	1.0	1		04/01/25 03:09	1330-20-7		
m&p-Xylene	ND	ug/L	2.0	1		04/01/25 03:09	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		04/01/25 03:09	95-47-6		
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130	1		04/01/25 03:09	460-00-4		
1,2-Dichloroethane-d4 (S)	124	%	70-130	1		04/01/25 03:09	17060-07-0		
Toluene-d8 (S)	103	%	70-130	1		04/01/25 03:09	2037-26-5		

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ANALYTICAL RESULTS

Project: JAKE HUGGINS 3423

Pace Project No.: 92787830

Sample: SW-3		Lab ID: 92787830017		Collected: 03/28/25 09:30		Received: 03/28/25 20:12		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8011 GCS EDB and DBCP		Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	04/04/25 08:25	04/04/25 19:51	106-93-4		
Surrogates									
1-Chloro-2-bromopropane (S)	105	%	60-140	1	04/04/25 08:25	04/04/25 19:51	301-79-56		
8260 MSV Low Level SC		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		04/01/25 03:27	75-85-4		
tert-Amylmethyl ether	ND	ug/L	10.0	1		04/01/25 03:27	994-05-8		
Benzene	ND	ug/L	1.0	1		04/01/25 03:27	71-43-2		
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		04/01/25 03:27	624-95-3		
tert-Butyl Alcohol	ND	ug/L	100	1		04/01/25 03:27	75-65-0		
tert-Butyl Formate	ND	ug/L	50.0	1		04/01/25 03:27	762-75-4	R1	
1,2-Dichloroethane	ND	ug/L	1.0	1		04/01/25 03:27	107-06-2	M1	
Diisopropyl ether	ND	ug/L	1.0	1		04/01/25 03:27	108-20-3	M1,v1	
Ethanol	ND	ug/L	200	1		04/01/25 03:27	64-17-5		
Ethylbenzene	ND	ug/L	1.0	1		04/01/25 03:27	100-41-4		
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		04/01/25 03:27	637-92-3	M1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		04/01/25 03:27	1634-04-4		
Naphthalene	ND	ug/L	1.0	1		04/01/25 03:27	91-20-3		
Toluene	ND	ug/L	1.0	1		04/01/25 03:27	108-88-3		
Xylene (Total)	ND	ug/L	1.0	1		04/01/25 03:27	1330-20-7		
m&p-Xylene	ND	ug/L	2.0	1		04/01/25 03:27	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		04/01/25 03:27	95-47-6		
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130	1		04/01/25 03:27	460-00-4		
1,2-Dichloroethane-d4 (S)	126	%	70-130	1		04/01/25 03:27	17060-07-0		
Toluene-d8 (S)	104	%	70-130	1		04/01/25 03:27	2037-26-5		

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ANALYTICAL RESULTS

Project: JAKE HUGGINS 3423
Pace Project No.: 92787830

Sample: SW-4		Lab ID: 92787830018		Collected: 03/28/25 09:31		Received: 03/28/25 20:12		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8011 GCS EDB and DBCP		Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	04/04/25 08:25	04/04/25 20:02	106-93-4		
Surrogates									
1-Chloro-2-bromopropane (S)	107	%	60-140	1	04/04/25 08:25	04/04/25 20:02	301-79-56		
8260 MSV Low Level SC		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		04/01/25 03:46	75-85-4		
tert-Amylmethyl ether	ND	ug/L	10.0	1		04/01/25 03:46	994-05-8		
Benzene	ND	ug/L	1.0	1		04/01/25 03:46	71-43-2		
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		04/01/25 03:46	624-95-3		
tert-Butyl Alcohol	ND	ug/L	100	1		04/01/25 03:46	75-65-0		
tert-Butyl Formate	ND	ug/L	50.0	1		04/01/25 03:46	762-75-4		
1,2-Dichloroethane	ND	ug/L	1.0	1		04/01/25 03:46	107-06-2		
Diisopropyl ether	ND	ug/L	1.0	1		04/01/25 03:46	108-20-3		
Ethanol	ND	ug/L	200	1		04/01/25 03:46	64-17-5		
Ethylbenzene	ND	ug/L	1.0	1		04/01/25 03:46	100-41-4		
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		04/01/25 03:46	637-92-3		
Methyl-tert-butyl ether	ND	ug/L	1.0	1		04/01/25 03:46	1634-04-4		
Naphthalene	ND	ug/L	1.0	1		04/01/25 03:46	91-20-3		
Toluene	ND	ug/L	1.0	1		04/01/25 03:46	108-88-3		
Xylene (Total)	ND	ug/L	1.0	1		04/01/25 03:46	1330-20-7		
m&p-Xylene	ND	ug/L	2.0	1		04/01/25 03:46	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		04/01/25 03:46	95-47-6		
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130	1		04/01/25 03:46	460-00-4		
1,2-Dichloroethane-d4 (S)	127	%	70-130	1		04/01/25 03:46	17060-07-0		
Toluene-d8 (S)	104	%	70-130	1		04/01/25 03:46	2037-26-5		

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ANALYTICAL RESULTS

Project: JAKE HUGGINS 3423

Pace Project No.: 92787830

Sample: SW-5		Lab ID: 92787830019		Collected: 03/28/25 09:35		Received: 03/28/25 20:12		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
	Pace Analytical Services - Charlotte								
	1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	04/04/25 08:25	04/04/25 20:14	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	108	%	60-140	1	04/04/25 08:25	04/04/25 20:14	301-79-56		
8260 MSV Low Level SC	Analytical Method: EPA 8260D								
	Pace Analytical Services - Charlotte								
	tert-Amyl Alcohol	ND	ug/L	100	1		04/01/25 04:05	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		04/01/25 04:05	994-05-8		
Benzene	ND	ug/L	1.0	1		04/01/25 04:05	71-43-2		
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		04/01/25 04:05	624-95-3		
tert-Butyl Alcohol	ND	ug/L	100	1		04/01/25 04:05	75-65-0		
tert-Butyl Formate	ND	ug/L	50.0	1		04/01/25 04:05	762-75-4		
1,2-Dichloroethane	ND	ug/L	1.0	1		04/01/25 04:05	107-06-2		
Diisopropyl ether	ND	ug/L	1.0	1		04/01/25 04:05	108-20-3		
Ethanol	ND	ug/L	200	1		04/01/25 04:05	64-17-5		
Ethylbenzene	ND	ug/L	1.0	1		04/01/25 04:05	100-41-4		
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		04/01/25 04:05	637-92-3		
Methyl-tert-butyl ether	ND	ug/L	1.0	1		04/01/25 04:05	1634-04-4		
Naphthalene	ND	ug/L	1.0	1		04/01/25 04:05	91-20-3		
Toluene	ND	ug/L	1.0	1		04/01/25 04:05	108-88-3		
Xylene (Total)	ND	ug/L	1.0	1		04/01/25 04:05	1330-20-7		
m&p-Xylene	ND	ug/L	2.0	1		04/01/25 04:05	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		04/01/25 04:05	95-47-6		
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130	1		04/01/25 04:05	460-00-4		
1,2-Dichloroethane-d4 (S)	125	%	70-130	1		04/01/25 04:05	17060-07-0		
Toluene-d8 (S)	103	%	70-130	1		04/01/25 04:05	2037-26-5		

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ANALYTICAL RESULTS

Project: JAKE HUGGINS 3423

Pace Project No.: 92787830

Sample: SW-6		Lab ID: 92787830020		Collected: 03/28/25 09:36		Received: 03/28/25 20:12		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8011 GCS EDB and DBCP		Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	04/04/25 08:25	04/04/25 20:25	106-93-4		
Surrogates									
1-Chloro-2-bromopropane (S)	112	%	60-140	1	04/04/25 08:25	04/04/25 20:25	301-79-56		
8260 MSV Low Level SC		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		04/01/25 04:24	75-85-4		
tert-Amylmethyl ether	ND	ug/L	10.0	1		04/01/25 04:24	994-05-8		
Benzene	ND	ug/L	1.0	1		04/01/25 04:24	71-43-2		
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		04/01/25 04:24	624-95-3		
tert-Butyl Alcohol	ND	ug/L	100	1		04/01/25 04:24	75-65-0		
tert-Butyl Formate	ND	ug/L	50.0	1		04/01/25 04:24	762-75-4		
1,2-Dichloroethane	ND	ug/L	1.0	1		04/01/25 04:24	107-06-2		
Diisopropyl ether	ND	ug/L	1.0	1		04/01/25 04:24	108-20-3		
Ethanol	ND	ug/L	200	1		04/01/25 04:24	64-17-5		
Ethylbenzene	ND	ug/L	1.0	1		04/01/25 04:24	100-41-4		
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		04/01/25 04:24	637-92-3		
Methyl-tert-butyl ether	ND	ug/L	1.0	1		04/01/25 04:24	1634-04-4		
Naphthalene	ND	ug/L	1.0	1		04/01/25 04:24	91-20-3		
Toluene	ND	ug/L	1.0	1		04/01/25 04:24	108-88-3		
Xylene (Total)	ND	ug/L	1.0	1		04/01/25 04:24	1330-20-7		
m&p-Xylene	ND	ug/L	2.0	1		04/01/25 04:24	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		04/01/25 04:24	95-47-6		
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130	1		04/01/25 04:24	460-00-4		
1,2-Dichloroethane-d4 (S)	125	%	70-130	1		04/01/25 04:24	17060-07-0		
Toluene-d8 (S)	104	%	70-130	1		04/01/25 04:24	2037-26-5		

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ANALYTICAL RESULTS

Project: JAKE HUGGINS 3423

Pace Project No.: 92787830

Sample: DUP		Lab ID: 92787830021		Collected: 03/28/25 00:00		Received: 03/28/25 20:12		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8011 GCS EDB and DBCP		Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	04/04/25 08:25	04/04/25 20:37	106-93-4		
Surrogates									
1-Chloro-2-bromopropane (S)	111	%	60-140	1	04/04/25 08:25	04/04/25 20:37	301-79-56		
8260 MSV		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	3270	ug/L	200	2		04/02/25 13:23	75-85-4		
tert-Amylmethyl ether	33.9	ug/L	20.0	2		04/02/25 13:23	994-05-8		
Benzene	9.7J	ug/L	10.0	2		04/02/25 13:23	71-43-2		
3,3-Dimethyl-1-Butanol	ND	ug/L	200	2		04/02/25 13:23	624-95-3		
tert-Butyl Alcohol	204	ug/L	200	2		04/02/25 13:23	75-65-0		
tert-Butyl Formate	ND	ug/L	100	2		04/02/25 13:23	762-75-4		
1,2-Dichloroethane	ND	ug/L	10.0	2		04/02/25 13:23	107-06-2		
Diisopropyl ether	164	ug/L	10.0	2		04/02/25 13:23	108-20-3		
Ethanol	ND	ug/L	400	2		04/02/25 13:23	64-17-5		
Ethylbenzene	ND	ug/L	10.0	2		04/02/25 13:23	100-41-4		
Ethyl-tert-butyl ether	ND	ug/L	20.0	2		04/02/25 13:23	637-92-3		
Methyl-tert-butyl ether	198	ug/L	10.0	2		04/02/25 13:23	1634-04-4		
Naphthalene	6.1J	ug/L	10.0	2		04/02/25 13:23	91-20-3		
Toluene	ND	ug/L	10.0	2		04/02/25 13:23	108-88-3		
Xylene (Total)	ND	ug/L	10.0	2		04/02/25 13:23	1330-20-7		
m&p-Xylene	ND	ug/L	20.0	2		04/02/25 13:23	179601-23-1		
o-Xylene	ND	ug/L	10.0	2		04/02/25 13:23	95-47-6		
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130	2		04/02/25 13:23	460-00-4		
1,2-Dichloroethane-d4 (S)	104	%	70-130	2		04/02/25 13:23	17060-07-0		
Toluene-d8 (S)	99	%	70-130	2		04/02/25 13:23	2037-26-5		

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ANALYTICAL RESULTS

Project: JAKE HUGGINS 3423

Pace Project No.: 92787830

Sample: FB		Lab ID: 92787830022		Collected: 03/28/25 12:35		Received: 03/28/25 20:12		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8011 GCS EDB and DBCP		Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	04/04/25 08:25	04/04/25 20:48	106-93-4		
Surrogates									
1-Chloro-2-bromopropane (S)	113	%	60-140	1	04/04/25 08:25	04/04/25 20:48	301-79-56		
8260 MSV		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		03/31/25 13:39	75-85-4		
tert-Amylmethyl ether	ND	ug/L	10.0	1		03/31/25 13:39	994-05-8		
Benzene	ND	ug/L	5.0	1		03/31/25 13:39	71-43-2		
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		03/31/25 13:39	624-95-3		
tert-Butyl Alcohol	ND	ug/L	100	1		03/31/25 13:39	75-65-0		
tert-Butyl Formate	ND	ug/L	50.0	1		03/31/25 13:39	762-75-4	L1,v1	
1,2-Dichloroethane	ND	ug/L	5.0	1		03/31/25 13:39	107-06-2		
Diisopropyl ether	ND	ug/L	5.0	1		03/31/25 13:39	108-20-3		
Ethanol	ND	ug/L	200	1		03/31/25 13:39	64-17-5		
Ethylbenzene	ND	ug/L	5.0	1		03/31/25 13:39	100-41-4		
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		03/31/25 13:39	637-92-3		
Methyl-tert-butyl ether	ND	ug/L	5.0	1		03/31/25 13:39	1634-04-4		
Naphthalene	ND	ug/L	5.0	1		03/31/25 13:39	91-20-3		
Toluene	ND	ug/L	5.0	1		03/31/25 13:39	108-88-3		
Xylene (Total)	ND	ug/L	5.0	1		03/31/25 13:39	1330-20-7		
m&p-Xylene	ND	ug/L	10.0	1		03/31/25 13:39	179601-23-1		
o-Xylene	ND	ug/L	5.0	1		03/31/25 13:39	95-47-6		
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130	1		03/31/25 13:39	460-00-4		
1,2-Dichloroethane-d4 (S)	94	%	70-130	1		03/31/25 13:39	17060-07-0		
Toluene-d8 (S)	100	%	70-130	1		03/31/25 13:39	2037-26-5		

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ANALYTICAL RESULTS

Project: JAKE HUGGINS 3423

Pace Project No.: 92787830

Sample: GAC		Lab ID: 92787830023		Collected: 03/28/25 12:30		Received: 03/28/25 20:12		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8011 GCS EDB and DBCP		Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	04/04/25 08:25	04/04/25 20:59	106-93-4	L1,v1	
Surrogates									
1-Chloro-2-bromopropane (S)	109	%	60-140	1	04/04/25 08:25	04/04/25 20:59	301-79-56		
8260 MSV		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		03/31/25 15:47	75-85-4		
tert-Amylmethyl ether	ND	ug/L	10.0	1		03/31/25 15:47	994-05-8		
Benzene	ND	ug/L	5.0	1		03/31/25 15:47	71-43-2		
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		03/31/25 15:47	624-95-3		
tert-Butyl Alcohol	ND	ug/L	100	1		03/31/25 15:47	75-65-0		
tert-Butyl Formate	ND	ug/L	50.0	1		03/31/25 15:47	762-75-4		
1,2-Dichloroethane	ND	ug/L	5.0	1		03/31/25 15:47	107-06-2		
Diisopropyl ether	ND	ug/L	5.0	1		03/31/25 15:47	108-20-3		
Ethanol	ND	ug/L	200	1		03/31/25 15:47	64-17-5		
Ethylbenzene	ND	ug/L	5.0	1		03/31/25 15:47	100-41-4		
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		03/31/25 15:47	637-92-3		
Methyl-tert-butyl ether	ND	ug/L	5.0	1		03/31/25 15:47	1634-04-4		
Naphthalene	ND	ug/L	5.0	1		03/31/25 15:47	91-20-3		
Toluene	ND	ug/L	5.0	1		03/31/25 15:47	108-88-3		
Xylene (Total)	ND	ug/L	5.0	1		03/31/25 15:47	1330-20-7		
m&p-Xylene	ND	ug/L	10.0	1		03/31/25 15:47	179601-23-1		
o-Xylene	ND	ug/L	5.0	1		03/31/25 15:47	95-47-6		
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130	1		03/31/25 15:47	460-00-4		
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		03/31/25 15:47	17060-07-0		
Toluene-d8 (S)	102	%	70-130	1		03/31/25 15:47	2037-26-5		

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ANALYTICAL RESULTS

Project: JAKE HUGGINS 3423

Pace Project No.: 92787830

Sample: TB		Lab ID: 92787830024		Collected: 03/28/25 08:00		Received: 03/28/25 20:12		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260 MSV		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		03/31/25 13:57	75-85-4	L1,v1	
tert-Amylmethyl ether	ND	ug/L	10.0	1		03/31/25 13:57	994-05-8		
Benzene	ND	ug/L	5.0	1		03/31/25 13:57	71-43-2		
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		03/31/25 13:57	624-95-3		
tert-Butyl Alcohol	ND	ug/L	100	1		03/31/25 13:57	75-65-0		
tert-Butyl Formate	ND	ug/L	50.0	1		03/31/25 13:57	762-75-4		
1,2-Dichloroethane	ND	ug/L	5.0	1		03/31/25 13:57	107-06-2		
Diisopropyl ether	ND	ug/L	5.0	1		03/31/25 13:57	108-20-3		
Ethanol	ND	ug/L	200	1		03/31/25 13:57	64-17-5		
Ethylbenzene	ND	ug/L	5.0	1		03/31/25 13:57	100-41-4		
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		03/31/25 13:57	637-92-3		
Methyl-tert-butyl ether	ND	ug/L	5.0	1		03/31/25 13:57	1634-04-4		
Naphthalene	ND	ug/L	5.0	1		03/31/25 13:57	91-20-3		
Toluene	ND	ug/L	5.0	1		03/31/25 13:57	108-88-3		
Xylene (Total)	ND	ug/L	5.0	1		03/31/25 13:57	1330-20-7		
m&p-Xylene	ND	ug/L	10.0	1		03/31/25 13:57	179601-23-1		
o-Xylene	ND	ug/L	5.0	1		03/31/25 13:57	95-47-6		
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130	1		03/31/25 13:57	460-00-4		
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		03/31/25 13:57	17060-07-0		
Toluene-d8 (S)	103	%	70-130	1		03/31/25 13:57	2037-26-5		

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ANALYTICAL RESULTS

Project: JAKE HUGGINS 3423

Pace Project No.: 92787830

Sample: WSW-1		Lab ID: 92787830025		Collected: 03/28/25 11:00		Received: 03/28/25 20:12		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
504 GCS EDB and DBCP		Analytical Method: EPA 504.1 Preparation Method: EPA 504.1 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.021	1	04/02/25 14:46	04/03/25 10:05	106-93-4		
Surrogates									
1-Chloro-2-bromopropane (S)	103	%	70-130	1	04/02/25 14:46	04/03/25 10:05	301-79-56		
524.2 MSV SC List		Analytical Method: EPA 524.2 Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		03/31/25 21:23	71-43-2		
1,2-Dichloroethane	ND	ug/L	0.50	1		03/31/25 21:23	107-06-2		
Ethylbenzene	ND	ug/L	0.50	1		03/31/25 21:23	100-41-4		
Methyl-tert-butyl ether	ND	ug/L	0.50	1		03/31/25 21:23	1634-04-4		
Naphthalene	ND	ug/L	0.50	1		03/31/25 21:23	91-20-3		
Toluene	ND	ug/L	0.50	1		03/31/25 21:23	108-88-3		
Xylene (Total)	ND	ug/L	0.50	1		03/31/25 21:23	1330-20-7		
m&p-Xylene	ND	ug/L	1.0	1		03/31/25 21:23	179601-23-1		
o-Xylene	ND	ug/L	0.50	1		03/31/25 21:23	95-47-6		
Surrogates									
1,2-Dichlorobenzene-d4 (S)	100	%	70-130	1		03/31/25 21:23	2199-69-1		
4-Bromofluorobenzene (S)	102	%	70-130	1		03/31/25 21:23	460-00-4		
8260 MSV Low Level SC		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		04/01/25 06:54	75-85-4		
tert-Amylmethyl ether	ND	ug/L	10.0	1		04/01/25 06:54	994-05-8		
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		04/01/25 06:54	624-95-3		
tert-Butyl Alcohol	ND	ug/L	100	1		04/01/25 06:54	75-65-0		
tert-Butyl Formate	ND	ug/L	50.0	1		04/01/25 06:54	762-75-4		
Diisopropyl ether	ND	ug/L	1.0	1		04/01/25 06:54	108-20-3		
Ethanol	ND	ug/L	200	1		04/01/25 06:54	64-17-5		
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		04/01/25 06:54	637-92-3		
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130	1		04/01/25 06:54	460-00-4		
1,2-Dichloroethane-d4 (S)	124	%	70-130	1		04/01/25 06:54	17060-07-0		
Toluene-d8 (S)	104	%	70-130	1		04/01/25 06:54	2037-26-5		

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ANALYTICAL RESULTS

Project: JAKE HUGGINS 3423

Pace Project No.: 92787830

Sample: WSW-2		Lab ID: 92787830026		Collected: 03/28/25 11:20		Received: 03/28/25 20:12		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
504 GCS EDB and DBCP		Analytical Method: EPA 504.1 Preparation Method: EPA 504.1 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	04/02/25 14:46	04/03/25 10:16	106-93-4		
Surrogates									
1-Chloro-2-bromopropane (S)	114	%	70-130	1	04/02/25 14:46	04/03/25 10:16	301-79-56		
524.2 MSV SC List		Analytical Method: EPA 524.2 Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		04/05/25 19:40	71-43-2		
1,2-Dichloroethane	ND	ug/L	0.50	1		04/05/25 19:40	107-06-2		
Ethylbenzene	ND	ug/L	0.50	1		04/05/25 19:40	100-41-4		
Methyl-tert-butyl ether	ND	ug/L	0.50	1		04/05/25 19:40	1634-04-4		
Naphthalene	ND	ug/L	0.50	1		04/05/25 19:40	91-20-3		
Toluene	ND	ug/L	0.50	1		04/05/25 19:40	108-88-3		
Xylene (Total)	ND	ug/L	0.50	1		04/05/25 19:40	1330-20-7		
m&p-Xylene	ND	ug/L	1.0	1		04/05/25 19:40	179601-23-1		
o-Xylene	ND	ug/L	0.50	1		04/05/25 19:40	95-47-6		
Surrogates									
1,2-Dichlorobenzene-d4 (S)	94	%	70-130	1		04/05/25 19:40	2199-69-1		
4-Bromofluorobenzene (S)	95	%	70-130	1		04/05/25 19:40	460-00-4		
8260 MSV Low Level SC		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		04/01/25 07:13	75-85-4		
tert-Amylmethyl ether	ND	ug/L	10.0	1		04/01/25 07:13	994-05-8		
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		04/01/25 07:13	624-95-3		
tert-Butyl Alcohol	ND	ug/L	100	1		04/01/25 07:13	75-65-0		
tert-Butyl Formate	ND	ug/L	50.0	1		04/01/25 07:13	762-75-4		
Diisopropyl ether	ND	ug/L	1.0	1		04/01/25 07:13	108-20-3		
Ethanol	ND	ug/L	200	1		04/01/25 07:13	64-17-5		
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		04/01/25 07:13	637-92-3		
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130	1		04/01/25 07:13	460-00-4		
1,2-Dichloroethane-d4 (S)	127	%	70-130	1		04/01/25 07:13	17060-07-0		
Toluene-d8 (S)	104	%	70-130	1		04/01/25 07:13	2037-26-5		

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ANALYTICAL RESULTS

Project: JAKE HUGGINS 3423

Pace Project No.: 92787830

Sample: WSW-DUP		Lab ID: 92787830027		Collected: 03/28/25 00:00		Received: 03/28/25 20:12		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
504 GCS EDB and DBCP		Analytical Method: EPA 504.1 Preparation Method: EPA 504.1 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.021	1	04/03/25 12:59	04/04/25 07:18	106-93-4		
Surrogates									
1-Chloro-2-bromopropane (S)	126	%	70-130	1	04/03/25 12:59	04/04/25 07:18	301-79-56		
524.2 MSV SC List		Analytical Method: EPA 524.2 Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		04/01/25 06:58	71-43-2		
1,2-Dichloroethane	ND	ug/L	0.50	1		04/01/25 06:58	107-06-2		
Ethylbenzene	ND	ug/L	0.50	1		04/01/25 06:58	100-41-4		
Methyl-tert-butyl ether	ND	ug/L	0.50	1		04/01/25 06:58	1634-04-4		
Naphthalene	ND	ug/L	0.50	1		04/01/25 06:58	91-20-3		
Toluene	ND	ug/L	0.50	1		04/01/25 06:58	108-88-3		
Xylene (Total)	ND	ug/L	0.50	1		04/01/25 06:58	1330-20-7		
m&p-Xylene	ND	ug/L	1.0	1		04/01/25 06:58	179601-23-1		
o-Xylene	ND	ug/L	0.50	1		04/01/25 06:58	95-47-6		
Surrogates									
1,2-Dichlorobenzene-d4 (S)	100	%	70-130	1		04/01/25 06:58	2199-69-1		
4-Bromofluorobenzene (S)	97	%	70-130	1		04/01/25 06:58	460-00-4		
8260 MSV Low Level SC		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		04/01/25 07:31	75-85-4		
tert-Amylmethyl ether	ND	ug/L	10.0	1		04/01/25 07:31	994-05-8		
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		04/01/25 07:31	624-95-3		
tert-Butyl Alcohol	ND	ug/L	100	1		04/01/25 07:31	75-65-0		
tert-Butyl Formate	ND	ug/L	50.0	1		04/01/25 07:31	762-75-4		
Diisopropyl ether	ND	ug/L	1.0	1		04/01/25 07:31	108-20-3		
Ethanol	ND	ug/L	200	1		04/01/25 07:31	64-17-5		
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		04/01/25 07:31	637-92-3		
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130	1		04/01/25 07:31	460-00-4		
1,2-Dichloroethane-d4 (S)	125	%	70-130	1		04/01/25 07:31	17060-07-0		
Toluene-d8 (S)	104	%	70-130	1		04/01/25 07:31	2037-26-5		

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ANALYTICAL RESULTS

Project: JAKE HUGGINS 3423

Pace Project No.: 92787830

Sample: WSW-FB		Lab ID: 92787830028		Collected: 03/28/25 12:27		Received: 03/28/25 20:12		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
504 GCS EDB and DBCP		Analytical Method: EPA 504.1 Preparation Method: EPA 504.1 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.022	1	04/03/25 12:59	04/04/25 07:29	106-93-4		
Surrogates									
1-Chloro-2-bromopropane (S)	106	%	70-130	1	04/03/25 12:59	04/04/25 07:29	301-79-56		
524.2 MSV SC List		Analytical Method: EPA 524.2 Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		04/05/25 17:55	71-43-2		
1,2-Dichloroethane	ND	ug/L	0.50	1		04/05/25 17:55	107-06-2		
Ethylbenzene	ND	ug/L	0.50	1		04/05/25 17:55	100-41-4		
Methyl-tert-butyl ether	ND	ug/L	0.50	1		04/05/25 17:55	1634-04-4		
Naphthalene	ND	ug/L	0.50	1		04/05/25 17:55	91-20-3		
Toluene	ND	ug/L	0.50	1		04/05/25 17:55	108-88-3		
Xylene (Total)	ND	ug/L	0.50	1		04/05/25 17:55	1330-20-7		
m&p-Xylene	ND	ug/L	1.0	1		04/05/25 17:55	179601-23-1		
o-Xylene	ND	ug/L	0.50	1		04/05/25 17:55	95-47-6		
Surrogates									
1,2-Dichlorobenzene-d4 (S)	96	%	70-130	1		04/05/25 17:55	2199-69-1		
4-Bromofluorobenzene (S)	97	%	70-130	1		04/05/25 17:55	460-00-4		
8260 MSV Low Level SC		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		04/01/25 01:35	75-85-4		
tert-Amylmethyl ether	ND	ug/L	10.0	1		04/01/25 01:35	994-05-8		
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		04/01/25 01:35	624-95-3		
tert-Butyl Alcohol	ND	ug/L	100	1		04/01/25 01:35	75-65-0		
tert-Butyl Formate	ND	ug/L	50.0	1		04/01/25 01:35	762-75-4		
Diisopropyl ether	ND	ug/L	1.0	1		04/01/25 01:35	108-20-3		
Ethanol	ND	ug/L	200	1		04/01/25 01:35	64-17-5		
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		04/01/25 01:35	637-92-3		
Surrogates									
4-Bromofluorobenzene (S)	103	%	70-130	1		04/01/25 01:35	460-00-4		
1,2-Dichloroethane-d4 (S)	127	%	70-130	1		04/01/25 01:35	17060-07-0		
Toluene-d8 (S)	103	%	70-130	1		04/01/25 01:35	2037-26-5		

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ANALYTICAL RESULTS

Project: JAKE HUGGINS 3423

Pace Project No.: 92787830

Sample: WSW-TB		Lab ID: 92787830029		Collected: 03/28/25 08:00		Received: 03/28/25 20:12		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV SC List		Analytical Method: EPA 524.2 Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		04/01/25 03:28	71-43-2		
1,2-Dichloroethane	ND	ug/L	0.50	1		04/01/25 03:28	107-06-2		
Ethylbenzene	ND	ug/L	0.50	1		04/01/25 03:28	100-41-4		
Methyl-tert-butyl ether	ND	ug/L	0.50	1		04/01/25 03:28	1634-04-4		
Naphthalene	ND	ug/L	0.50	1		04/01/25 03:28	91-20-3		
Toluene	ND	ug/L	0.50	1		04/01/25 03:28	108-88-3		
Xylene (Total)	ND	ug/L	0.50	1		04/01/25 03:28	1330-20-7		
m&p-Xylene	ND	ug/L	1.0	1		04/01/25 03:28	179601-23-1		
o-Xylene	ND	ug/L	0.50	1		04/01/25 03:28	95-47-6		
Surrogates									
1,2-Dichlorobenzene-d4 (S)	101	%	70-130	1		04/01/25 03:28	2199-69-1		
4-Bromofluorobenzene (S)	101	%	70-130	1		04/01/25 03:28	460-00-4		
8260 MSV Low Level SC		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		04/01/25 01:54	75-85-4		
tert-Amylmethyl ether	ND	ug/L	10.0	1		04/01/25 01:54	994-05-8		
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		04/01/25 01:54	624-95-3		
tert-Butyl Alcohol	ND	ug/L	100	1		04/01/25 01:54	75-65-0		
tert-Butyl Formate	ND	ug/L	50.0	1		04/01/25 01:54	762-75-4		
Diisopropyl ether	ND	ug/L	1.0	1		04/01/25 01:54	108-20-3		
Ethanol	ND	ug/L	200	1		04/01/25 01:54	64-17-5		
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		04/01/25 01:54	637-92-3		
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130	1		04/01/25 01:54	460-00-4		
1,2-Dichloroethane-d4 (S)	125	%	70-130	1		04/01/25 01:54	17060-07-0		
Toluene-d8 (S)	103	%	70-130	1		04/01/25 01:54	2037-26-5		

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QUALITY CONTROL DATA

Project: JAKE HUGGINS 3423
Pace Project No.: 92787830

QC Batch:	925983	Analysis Method:	EPA 524.2
QC Batch Method:	EPA 524.2	Analysis Description:	524.2 MSV
		Laboratory:	Pace Analytical Services - Charlotte

Associated Lab Samples: 92787830025

METHOD BLANK: 4756667 Matrix: Water

Associated Lab Samples: 92787830025

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	0.50	03/31/25 13:07	
Benzene	ug/L	ND	0.50	03/31/25 13:07	
Ethylbenzene	ug/L	ND	0.50	03/31/25 13:07	
m&p-Xylene	ug/L	ND	1.0	03/31/25 13:07	
Methyl-tert-butyl ether	ug/L	ND	0.50	03/31/25 13:07	
Naphthalene	ug/L	ND	0.50	03/31/25 13:07	
o-Xylene	ug/L	ND	0.50	03/31/25 13:07	
Toluene	ug/L	ND	0.50	03/31/25 13:07	
Xylene (Total)	ug/L	ND	0.50	03/31/25 13:07	
1,2-Dichlorobenzene-d4 (S)	%	97	70-130	03/31/25 13:07	
4-Bromofluorobenzene (S)	%	100	70-130	03/31/25 13:07	

LABORATORY CONTROL SAMPLE: 4756668

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	20	16.9	84	70-130	
Benzene	ug/L	20	18.2	91	70-130	
Ethylbenzene	ug/L	20	17.2	86	70-130	
m&p-Xylene	ug/L	40	35.9	90	70-130	
Methyl-tert-butyl ether	ug/L	20	16.7	83	70-130	
Naphthalene	ug/L	20	17.5	87	70-130	
o-Xylene	ug/L	20	18.4	92	70-130	
Toluene	ug/L	20	17.0	85	70-130	
Xylene (Total)	ug/L	60	54.3	90		
1,2-Dichlorobenzene-d4 (S)	%			102	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	

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QUALITY CONTROL DATA

Project: JAKE HUGGINS 3423

Pace Project No.: 92787830

QC Batch: 926048

Analysis Method: EPA 524.2

QC Batch Method: EPA 524.2

Analysis Description: 524.2 MSV

Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92787830027, 92787830029

METHOD BLANK: 4757014

Matrix: Water

Associated Lab Samples: 92787830027, 92787830029

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	0.50	04/01/25 01:18	
Benzene	ug/L	ND	0.50	04/01/25 01:18	
Ethylbenzene	ug/L	ND	0.50	04/01/25 01:18	
m&p-Xylene	ug/L	ND	1.0	04/01/25 01:18	
Methyl-tert-butyl ether	ug/L	ND	0.50	04/01/25 01:18	
Naphthalene	ug/L	ND	0.50	04/01/25 01:18	
o-Xylene	ug/L	ND	0.50	04/01/25 01:18	
Toluene	ug/L	ND	0.50	04/01/25 01:18	
Xylene (Total)	ug/L	ND	0.50	04/01/25 01:18	
1,2-Dichlorobenzene-d4 (S)	%	100	70-130	04/01/25 01:18	
4-Bromofluorobenzene (S)	%	102	70-130	04/01/25 01:18	

LABORATORY CONTROL SAMPLE: 4757015

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	20	21.0	105	70-130	
Benzene	ug/L	20	22.2	111	70-130	
Ethylbenzene	ug/L	20	21.0	105	70-130	
m&p-Xylene	ug/L	40	43.8	109	70-130	
Methyl-tert-butyl ether	ug/L	20	20.0	100	70-130	
Naphthalene	ug/L	20	20.0	100	70-130	
o-Xylene	ug/L	20	22.2	111	70-130	
Toluene	ug/L	20	20.2	101	70-130	
Xylene (Total)	ug/L	60	65.9	110		
1,2-Dichlorobenzene-d4 (S)	%			102	70-130	
4-Bromofluorobenzene (S)	%			103	70-130	

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QUALITY CONTROL DATA

Project: JAKE HUGGINS 3423

Pace Project No.: 92787830

QC Batch: 927518

Analysis Method: EPA 524.2

QC Batch Method: EPA 524.2

Analysis Description: 524.2 MSV

Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92787830026, 92787830028

METHOD BLANK: 4764595

Matrix: Water

Associated Lab Samples: 92787830026, 92787830028

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	0.50	04/05/25 17:29	
Benzene	ug/L	ND	0.50	04/05/25 17:29	
Ethylbenzene	ug/L	ND	0.50	04/05/25 17:29	
m&p-Xylene	ug/L	ND	1.0	04/05/25 17:29	
Methyl-tert-butyl ether	ug/L	ND	0.50	04/05/25 17:29	
Naphthalene	ug/L	ND	0.50	04/05/25 17:29	
o-Xylene	ug/L	ND	0.50	04/05/25 17:29	
Toluene	ug/L	ND	0.50	04/05/25 17:29	
Xylene (Total)	ug/L	ND	0.50	04/05/25 17:29	
1,2-Dichlorobenzene-d4 (S)	%	95	70-130	04/05/25 17:29	
4-Bromofluorobenzene (S)	%	98	70-130	04/05/25 17:29	

LABORATORY CONTROL SAMPLE: 4764596

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	20	20.6	103	70-130	
Benzene	ug/L	20	21.2	106	70-130	
Ethylbenzene	ug/L	20	20.9	104	70-130	
m&p-Xylene	ug/L	40	41.7	104	70-130	
Methyl-tert-butyl ether	ug/L	20	19.3	97	70-130	
Naphthalene	ug/L	20	20.4	102	70-130	
o-Xylene	ug/L	20	21.7	108	70-130	
Toluene	ug/L	20	20.2	101	70-130	
Xylene (Total)	ug/L	60	63.3	106		
1,2-Dichlorobenzene-d4 (S)	%			101	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	

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QUALITY CONTROL DATA

Project: JAKE HUGGINS 3423
Pace Project No.: 92787830

QC Batch:	926017	Analysis Method:	EPA 8260D
QC Batch Method:	EPA 8260D	Analysis Description:	8260 MSV Low Level SC
		Laboratory:	Pace Analytical Services - Charlotte

Associated Lab Samples: 92787830015, 92787830016, 92787830017, 92787830018, 92787830019, 92787830020, 92787830028, 92787830029

METHOD BLANK: 4756894 Matrix: Water
Associated Lab Samples: 92787830015, 92787830016, 92787830017, 92787830018, 92787830019, 92787830020, 92787830028, 92787830029

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	1.0	03/31/25 23:42	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	03/31/25 23:42	
Benzene	ug/L	ND	1.0	03/31/25 23:42	
Diisopropyl ether	ug/L	ND	1.0	03/31/25 23:42	
Ethanol	ug/L	ND	200	03/31/25 23:42	
Ethyl-tert-butyl ether	ug/L	ND	10.0	03/31/25 23:42	
Ethylbenzene	ug/L	ND	1.0	03/31/25 23:42	
m&p-Xylene	ug/L	ND	2.0	03/31/25 23:42	
Methyl-tert-butyl ether	ug/L	ND	1.0	03/31/25 23:42	
Naphthalene	ug/L	ND	1.0	03/31/25 23:42	
o-Xylene	ug/L	ND	1.0	03/31/25 23:42	
tert-Amyl Alcohol	ug/L	ND	100	03/31/25 23:42	
tert-Amylmethyl ether	ug/L	ND	10.0	03/31/25 23:42	
tert-Butyl Alcohol	ug/L	ND	100	03/31/25 23:42	
tert-Butyl Formate	ug/L	ND	50.0	03/31/25 23:42	
Toluene	ug/L	ND	1.0	03/31/25 23:42	
Xylene (Total)	ug/L	ND	1.0	03/31/25 23:42	
1,2-Dichloroethane-d4 (S)	%	124	70-130	03/31/25 23:42	
4-Bromofluorobenzene (S)	%	102	70-130	03/31/25 23:42	
Toluene-d8 (S)	%	103	70-130	03/31/25 23:42	

LABORATORY CONTROL SAMPLE: 4756895

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	20	25.1	126	70-130	
3,3-Dimethyl-1-Butanol	ug/L	400	397	99	70-130	
Benzene	ug/L	20	22.6	113	70-130	
Diisopropyl ether	ug/L	20	25.7	128	70-130	
Ethanol	ug/L	800	938	117	70-130	
Ethyl-tert-butyl ether	ug/L	40	47.5	119	70-130	
Ethylbenzene	ug/L	20	21.2	106	70-130	
m&p-Xylene	ug/L	40	43.1	108	70-130	
Methyl-tert-butyl ether	ug/L	20	23.0	115	70-130	
Naphthalene	ug/L	20	20.0	100	70-130	
o-Xylene	ug/L	20	21.5	107	70-130	
tert-Amyl Alcohol	ug/L	400	405	101	70-130	
tert-Amylmethyl ether	ug/L	40	42.4	106	70-130	

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QUALITY CONTROL DATA

Project: JAKE HUGGINS 3423

Pace Project No.: 92787830

LABORATORY CONTROL SAMPLE: 4756895

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butyl Alcohol	ug/L	200	211	106	70-130	
tert-Butyl Formate	ug/L	160	171	107	70-130	
Toluene	ug/L	20	20.9	105	70-130	
Xylene (Total)	ug/L	60	64.6	108	70-130	
1,2-Dichloroethane-d4 (S)	%			119	70-130	
4-Bromofluorobenzene (S)	%			106	70-130	
Toluene-d8 (S)	%			102	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4756896 4756897

Parameter	92787830017		MS	MSD	4756897		MS	MSD	MS	MSD	% Rec	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	% Rec	% Rec	% Rec	% Rec	Limits		
1,2-Dichloroethane	ug/L	ND	20	20	28.8	25.8	144	129	70-137	11	M1		
3,3-Dimethyl-1-Butanol	ug/L	ND	400	400	540	485	135	121	39-157	11			
Benzene	ug/L	ND	20	20	26.4	23.5	132	118	70-151	12			
Diisopropyl ether	ug/L	ND	20	20	29.6	26.2	148	131	63-144	12	M1,v1		
Ethanol	ug/L	ND	800	800	1120	997	140	125	39-176	12			
Ethyl-tert-butyl ether	ug/L	ND	40	40	55.2	48.9	138	122	66-137	12	M1		
Ethylbenzene	ug/L	ND	20	20	25.2	22.2	126	111	66-153	13			
m&p-Xylene	ug/L	ND	40	40	50.7	44.6	127	111	69-152	13			
Methyl-tert-butyl ether	ug/L	ND	20	20	26.4	23.3	132	116	54-156	13			
Naphthalene	ug/L	ND	20	20	24.2	22.9	121	114	61-148	6			
o-Xylene	ug/L	ND	20	20	24.9	21.6	125	108	70-148	14			
tert-Amyl Alcohol	ug/L	ND	400	400	522	476	131	119	54-153	9			
tert-Amylmethyl ether	ug/L	ND	40	40	47.8	43.0	119	108	69-139	10			
tert-Butyl Alcohol	ug/L	ND	200	200	325	304	162	152	43-188	7			
tert-Butyl Formate	ug/L	ND	160	160	117	80.1	73	50	10-170	37	R1		
Toluene	ug/L	ND	20	20	24.3	21.8	121	109	59-148	11			
Xylene (Total)	ug/L	ND	60	60	75.7	66.2	126	110	63-158	13			
1,2-Dichloroethane-d4 (S)	%						124	121	70-130				
4-Bromofluorobenzene (S)	%						105	103	70-130				
Toluene-d8 (S)	%						101	102	70-130				

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QUALITY CONTROL DATA

Project: JAKE HUGGINS 3423

Pace Project No.: 92787830

QC Batch: 926034 Analysis Method: EPA 8260D
QC Batch Method: EPA 8260D Analysis Description: 8260 MSV Low Level SC
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92787830025, 92787830026, 92787830027

METHOD BLANK: 4756962 Matrix: Water

Associated Lab Samples: 92787830025, 92787830026, 92787830027

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	100	04/01/25 00:01	
Diisopropyl ether	ug/L	ND	1.0	04/01/25 00:01	
Ethanol	ug/L	ND	200	04/01/25 00:01	
Ethyl-tert-butyl ether	ug/L	ND	10.0	04/01/25 00:01	
tert-Amyl Alcohol	ug/L	ND	100	04/01/25 00:01	
tert-Amylmethyl ether	ug/L	ND	10.0	04/01/25 00:01	
tert-Butyl Alcohol	ug/L	ND	100	04/01/25 00:01	
tert-Butyl Formate	ug/L	ND	50.0	04/01/25 00:01	
1,2-Dichloroethane-d4 (S)	%	121	70-130	04/01/25 00:01	
4-Bromofluorobenzene (S)	%	101	70-130	04/01/25 00:01	
Toluene-d8 (S)	%	103	70-130	04/01/25 00:01	

LABORATORY CONTROL SAMPLE: 4756963

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	400	420	105	70-130	
Diisopropyl ether	ug/L	20	25.6	128	70-130	
Ethanol	ug/L	800	952	119	70-130	
Ethyl-tert-butyl ether	ug/L	40	48.0	120	70-130	
tert-Amyl Alcohol	ug/L	400	414	104	70-130	
tert-Amylmethyl ether	ug/L	40	42.0	105	70-130	
tert-Butyl Alcohol	ug/L	200	219	110	70-130	
tert-Butyl Formate	ug/L	160	174	108	70-130	
1,2-Dichloroethane-d4 (S)	%			121	70-130	
4-Bromofluorobenzene (S)	%			105	70-130	
Toluene-d8 (S)	%			102	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4756964 4756965

Parameter	Units	92787827028		MS		MSD		MS		MSD		MS		MSD		% Rec		RPD	Qual
		Result	Conc.	Spike Conc.	Conc.	Result	Conc.	Result	Conc.	Result	Conc.	% Rec	Conc.	Result	Conc.	Limits	Conc.		
3,3-Dimethyl-1-Butanol	ug/L	ND	400	400	400	437	494	109	123	39-157	12								
Diisopropyl ether	ug/L	ND	20	20	20	25.0	29.5	125	148	63-144	17	M1,v1							
Ethanol	ug/L	ND	800	800	800	933	1060	117	133	39-176	13								
Ethyl-tert-butyl ether	ug/L	ND	40	40	40	46.4	54.7	116	137	66-137	17								
tert-Amyl Alcohol	ug/L	ND	400	400	400	419	490	105	123	54-153	16								
tert-Amylmethyl ether	ug/L	ND	40	40	40	40.7	48.7	102	122	69-139	18								

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QUALITY CONTROL DATA

Project: JAKE HUGGINS 3423

Pace Project No.: 92787830

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4756964 4756965											
Parameter	Units	92787827028 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
tert-Butyl Alcohol	ug/L	ND	200	200	269	318	135	159	43-188	17	
tert-Butyl Formate	ug/L	ND	160	160	71.3	66.6	45	42	10-170	7	
1,2-Dichloroethane-d4 (S)	%						120	123	70-130		
4-Bromofluorobenzene (S)	%						104	104	70-130		
Toluene-d8 (S)	%						102	102	70-130		

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QUALITY CONTROL DATA

Project: JAKE HUGGINS 3423
Pace Project No.: 92787830

QC Batch: 925960 Analysis Method: EPA 8260D
QC Batch Method: EPA 8260D Analysis Description: 8260 MSV SC
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92787830022, 92787830023, 92787830024

METHOD BLANK: 4756497 Matrix: Water

Associated Lab Samples: 92787830022, 92787830023, 92787830024

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	03/31/25 11:49	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	03/31/25 11:49	
Benzene	ug/L	ND	5.0	03/31/25 11:49	
Diisopropyl ether	ug/L	ND	5.0	03/31/25 11:49	
Ethanol	ug/L	ND	200	03/31/25 11:49	
Ethyl-tert-butyl ether	ug/L	ND	10.0	03/31/25 11:49	
Ethylbenzene	ug/L	ND	5.0	03/31/25 11:49	
m&p-Xylene	ug/L	ND	10.0	03/31/25 11:49	
Methyl-tert-butyl ether	ug/L	ND	5.0	03/31/25 11:49	
Naphthalene	ug/L	ND	5.0	03/31/25 11:49	
o-Xylene	ug/L	ND	5.0	03/31/25 11:49	
tert-Amyl Alcohol	ug/L	ND	100	03/31/25 11:49	
tert-Amylmethyl ether	ug/L	ND	10.0	03/31/25 11:49	
tert-Butyl Alcohol	ug/L	ND	100	03/31/25 11:49	
tert-Butyl Formate	ug/L	ND	50.0	03/31/25 11:49	v1
Toluene	ug/L	ND	5.0	03/31/25 11:49	
Xylene (Total)	ug/L	ND	5.0	03/31/25 11:49	
1,2-Dichloroethane-d4 (S)	%	98	70-130	03/31/25 11:49	
4-Bromofluorobenzene (S)	%	97	70-130	03/31/25 11:49	
Toluene-d8 (S)	%	98	70-130	03/31/25 11:49	

LABORATORY CONTROL SAMPLE: 4756498

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	20	19.9	100	70-130	
3,3-Dimethyl-1-Butanol	ug/L	400	391	98	70-130	
Benzene	ug/L	20	20.2	101	70-130	
Diisopropyl ether	ug/L	20	18.9	95	70-130	
Ethanol	ug/L	800	773	97	70-130	
Ethyl-tert-butyl ether	ug/L	40	38.8	97	70-130	
Ethylbenzene	ug/L	20	20.4	102	70-130	
m&p-Xylene	ug/L	40	42.5	106	70-130	
Methyl-tert-butyl ether	ug/L	20	18.5	93	70-130	
Naphthalene	ug/L	20	22.0	110	70-130	
o-Xylene	ug/L	20	21.6	108	70-130	
tert-Amyl Alcohol	ug/L	400	425	106	70-130	
tert-Amylmethyl ether	ug/L	40	40.1	100	70-130	
tert-Butyl Alcohol	ug/L	200	165	83	70-130	
tert-Butyl Formate	ug/L	160	221	138	70-130	L1,v1

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QUALITY CONTROL DATA

Project: JAKE HUGGINS 3423

Pace Project No.: 92787830

LABORATORY CONTROL SAMPLE: 4756498

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene	ug/L	20	20.1	100	70-130	
Xylene (Total)	ug/L	60	64.1	107	70-130	
1,2-Dichloroethane-d4 (S)	%			94	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			96	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4756499 4756500

Parameter	92787825018		MS		MSD		MS		MSD		% Rec		RPD	Qual
	Units	Result	Spike Conc.	MS Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	MS % Rec	MSD % Rec	Limits			
1,2-Dichloroethane	ug/L	ND	20	20	19.6	24.1	98	120	70-137	20				
3,3-Dimethyl-1-Butanol	ug/L	ND	400	400	394	428	98	107	39-157	8				
Benzene	ug/L	ND	20	20	20.6	24.7	103	123	70-151	18				
Diisopropyl ether	ug/L	ND	20	20	19.0	23.1	95	115	63-144	19				
Ethanol	ug/L	ND	800	800	745	839	93	105	39-176	12				
Ethyl-tert-butyl ether	ug/L	ND	40	40	38.3	47.2	96	118	66-137	21				
Ethylbenzene	ug/L	ND	20	20	21.3	23.8	107	119	66-153	11				
m&p-Xylene	ug/L	ND	40	40	43.9	49.5	110	124	69-152	12				
Methyl-tert-butyl ether	ug/L	ND	20	20	18.7	22.7	94	113	54-156	19				
Naphthalene	ug/L	ND	20	20	21.6	24.2	108	121	61-148	11				
o-Xylene	ug/L	ND	20	20	22.9	24.9	114	124	70-148	8				
tert-Amyl Alcohol	ug/L	ND	400	400	423	472	106	118	54-153	11				
tert-Amylmethyl ether	ug/L	ND	40	40	38.5	46.8	96	117	69-139	19				
tert-Butyl Alcohol	ug/L	ND	200	200	186	227	93	114	43-188	20				
tert-Butyl Formate	ug/L	ND	160	160	158	158	99	98	10-170	0 v1				
Toluene	ug/L	ND	20	20	20.4	24.9	102	124	59-148	20				
Xylene (Total)	ug/L	ND	60	60	66.8	74.4	111	124	63-158	11				
1,2-Dichloroethane-d4 (S)	%						91	95	70-130					
4-Bromofluorobenzene (S)	%						98	95	70-130					
Toluene-d8 (S)	%						94	99	70-130					

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QUALITY CONTROL DATA

Project: JAKE HUGGINS 3423

Pace Project No.: 92787830

QC Batch: 925965

Analysis Method: EPA 8260D

QC Batch Method: EPA 8260D

Analysis Description: 8260 MSV SC

Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92787830003, 92787830004

METHOD BLANK: 4756517

Matrix: Water

Associated Lab Samples: 92787830003, 92787830004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	03/31/25 12:07	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	03/31/25 12:07	
Benzene	ug/L	ND	5.0	03/31/25 12:07	
Diisopropyl ether	ug/L	ND	5.0	03/31/25 12:07	
Ethanol	ug/L	ND	200	03/31/25 12:07	
Ethyl-tert-butyl ether	ug/L	ND	10.0	03/31/25 12:07	
Ethylbenzene	ug/L	ND	5.0	03/31/25 12:07	
m&p-Xylene	ug/L	ND	10.0	03/31/25 12:07	
Methyl-tert-butyl ether	ug/L	ND	5.0	03/31/25 12:07	
Naphthalene	ug/L	ND	5.0	03/31/25 12:07	
o-Xylene	ug/L	ND	5.0	03/31/25 12:07	
tert-Amyl Alcohol	ug/L	ND	100	03/31/25 12:07	
tert-Amylmethyl ether	ug/L	ND	10.0	03/31/25 12:07	
tert-Butyl Alcohol	ug/L	ND	100	03/31/25 12:07	
tert-Butyl Formate	ug/L	ND	50.0	03/31/25 12:07	v1
Toluene	ug/L	ND	5.0	03/31/25 12:07	
Xylene (Total)	ug/L	ND	5.0	03/31/25 12:07	
1,2-Dichloroethane-d4 (S)	%	91	70-130	03/31/25 12:07	
4-Bromofluorobenzene (S)	%	100	70-130	03/31/25 12:07	
Toluene-d8 (S)	%	99	70-130	03/31/25 12:07	

LABORATORY CONTROL SAMPLE: 4756518

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	20	20.0	100	70-130	
3,3-Dimethyl-1-Butanol	ug/L	400	375	94	70-130	
Benzene	ug/L	20	20.3	101	70-130	
Diisopropyl ether	ug/L	20	19.9	99	70-130	
Ethanol	ug/L	800	732	92	70-130	
Ethyl-tert-butyl ether	ug/L	40	40.1	100	70-130	
Ethylbenzene	ug/L	20	21.2	106	70-130	
m&p-Xylene	ug/L	40	42.9	107	70-130	
Methyl-tert-butyl ether	ug/L	20	19.3	96	70-130	
Naphthalene	ug/L	20	20.6	103	70-130	
o-Xylene	ug/L	20	22.3	112	70-130	
tert-Amyl Alcohol	ug/L	400	421	105	70-130	
tert-Amylmethyl ether	ug/L	40	39.6	99	70-130	
tert-Butyl Alcohol	ug/L	200	162	81	70-130	
tert-Butyl Formate	ug/L	160	225	140	70-130	L1,v1

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QUALITY CONTROL DATA

Project: JAKE HUGGINS 3423

Pace Project No.: 92787830

LABORATORY CONTROL SAMPLE: 4756518

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene	ug/L	20	20.3	101	70-130	
Xylene (Total)	ug/L	60	65.3	109	70-130	
1,2-Dichloroethane-d4 (S)	%			96	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4756519 4756520

Parameter	92787827009		MS		MSD		MS		MSD		% Rec		RPD	Qual
	Units	Result	Spike Conc.	MS Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	MS % Rec	MSD % Rec	Limits			
1,2-Dichloroethane	ug/L	ND	20	20	23.0	20.2	115	101	70-137	13				
3,3-Dimethyl-1-Butanol	ug/L	ND	400	400	433	394	108	98	39-157	9				
Benzene	ug/L	ND	20	20	22.6	20.3	113	101	70-151	11				
Diisopropyl ether	ug/L	ND	20	20	21.3	18.7	106	94	63-144	13				
Ethanol	ug/L	ND	800	800	913	763	114	95	39-176	18				
Ethyl-tert-butyl ether	ug/L	ND	40	40	42.5	38.0	106	95	66-137	11				
Ethylbenzene	ug/L	ND	20	20	22.9	19.8	114	99	66-153	14				
m&p-Xylene	ug/L	ND	40	40	46.6	40.7	117	102	69-152	14				
Methyl-tert-butyl ether	ug/L	5.2	20	20	25.9	24.6	104	97	54-156	5				
Naphthalene	ug/L	ND	20	20	21.2	20.5	106	103	61-148	3				
o-Xylene	ug/L	ND	20	20	23.0	20.3	115	101	70-148	13				
tert-Amyl Alcohol	ug/L	ND	400	400	485	419	121	105	54-153	15				
tert-Amylmethyl ether	ug/L	ND	40	40	43.3	37.5	108	94	69-139	14				
tert-Butyl Alcohol	ug/L	ND	200	200	252	220	126	110	43-188	14				
tert-Butyl Formate	ug/L	ND	160	160	99.7	72.4	62	45	10-170	32			R1,v1	
Toluene	ug/L	ND	20	20	22.9	20.0	114	100	59-148	13				
Xylene (Total)	ug/L	ND	60	60	69.6	61.0	116	102	63-158	13				
1,2-Dichloroethane-d4 (S)	%						93	92	70-130					
4-Bromofluorobenzene (S)	%						97	97	70-130					
Toluene-d8 (S)	%						98	96	70-130					

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QUALITY CONTROL DATA

Project: JAKE HUGGINS 3423
Pace Project No.: 92787830

QC Batch: 925989 Analysis Method: EPA 8260D
QC Batch Method: EPA 8260D Analysis Description: 8260 MSV SC
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92787830007, 92787830009, 92787830013

METHOD BLANK: 4756723 Matrix: Water

Associated Lab Samples: 92787830007, 92787830009, 92787830013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	04/01/25 00:23	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	04/01/25 00:23	
Benzene	ug/L	ND	5.0	04/01/25 00:23	
Diisopropyl ether	ug/L	ND	5.0	04/01/25 00:23	
Ethanol	ug/L	ND	200	04/01/25 00:23	
Ethyl-tert-butyl ether	ug/L	ND	10.0	04/01/25 00:23	
Ethylbenzene	ug/L	ND	5.0	04/01/25 00:23	
m&p-Xylene	ug/L	ND	10.0	04/01/25 00:23	
Methyl-tert-butyl ether	ug/L	ND	5.0	04/01/25 00:23	
Naphthalene	ug/L	ND	5.0	04/01/25 00:23	
o-Xylene	ug/L	ND	5.0	04/01/25 00:23	
tert-Amyl Alcohol	ug/L	ND	100	04/01/25 00:23	
tert-Amylmethyl ether	ug/L	ND	10.0	04/01/25 00:23	
tert-Butyl Alcohol	ug/L	ND	100	04/01/25 00:23	
tert-Butyl Formate	ug/L	ND	50.0	04/01/25 00:23	
Toluene	ug/L	ND	5.0	04/01/25 00:23	
Xylene (Total)	ug/L	ND	5.0	04/01/25 00:23	
1,2-Dichloroethane-d4 (S)	%	93	70-130	04/01/25 00:23	
4-Bromofluorobenzene (S)	%	96	70-130	04/01/25 00:23	
Toluene-d8 (S)	%	100	70-130	04/01/25 00:23	

LABORATORY CONTROL SAMPLE: 4756724

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	20	19.6	98	70-130	
3,3-Dimethyl-1-Butanol	ug/L	400	411	103	70-130	
Benzene	ug/L	20	20.1	100	70-130	
Diisopropyl ether	ug/L	20	19.4	97	70-130	
Ethanol	ug/L	800	803	100	70-130	
Ethyl-tert-butyl ether	ug/L	40	38.8	97	70-130	
Ethylbenzene	ug/L	20	19.8	99	70-130	
m&p-Xylene	ug/L	40	42.1	105	70-130	
Methyl-tert-butyl ether	ug/L	20	18.4	92	70-130	
Naphthalene	ug/L	20	21.0	105	70-130	
o-Xylene	ug/L	20	21.6	108	70-130	
tert-Amyl Alcohol	ug/L	400	432	108	70-130	
tert-Amylmethyl ether	ug/L	40	39.8	99	70-130	
tert-Butyl Alcohol	ug/L	200	178	89	70-130	
tert-Butyl Formate	ug/L	160	175	110	70-130	

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QUALITY CONTROL DATA

Project: JAKE HUGGINS 3423

Pace Project No.: 92787830

LABORATORY CONTROL SAMPLE: 4756724

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene	ug/L	20	19.6	98	70-130	
Xylene (Total)	ug/L	60	63.8	106	70-130	
1,2-Dichloroethane-d4 (S)	%			91	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4756725 4756726

Parameter	92787832002		MS		MSD		MS		MSD		% Rec		RPD	Qual
	Units	Result	Spike Conc.	MS Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	MS % Rec	MSD % Rec	Limits			
1,2-Dichloroethane	ug/L	ND	20	20	21.8	17.4	109	87	70-137	22				
3,3-Dimethyl-1-Butanol	ug/L	ND	400	400	394	329	99	82	39-157	18				
Benzene	ug/L	ND	20	20	21.5	18.1	107	91	70-151	17				
Diisopropyl ether	ug/L	ND	20	20	20.8	15.7	104	79	63-144	28				
Ethanol	ug/L	ND	800	800	775	621	97	78	39-176	22				
Ethyl-tert-butyl ether	ug/L	ND	40	40	41.7	33.0	104	83	66-137	23				
Ethylbenzene	ug/L	ND	20	20	21.5	18.0	107	90	66-153	18				
m&p-Xylene	ug/L	ND	40	40	44.0	37.3	110	93	69-152	16				
Methyl-tert-butyl ether	ug/L	ND	20	20	20.1	16.1	101	80	54-156	22				
Naphthalene	ug/L	ND	20	20	21.5	18.1	107	90	61-148	17				
o-Xylene	ug/L	ND	20	20	21.9	18.8	109	94	70-148	15				
tert-Amyl Alcohol	ug/L	ND	400	400	433	342	108	86	54-153	23				
tert-Amylmethyl ether	ug/L	ND	40	40	42.7	33.5	107	84	69-139	24				
tert-Butyl Alcohol	ug/L	ND	200	200	233	189	116	95	43-188	20				
tert-Butyl Formate	ug/L	ND	160	160	60.2	36.2J	38	23	10-170	v1				
Toluene	ug/L	ND	20	20	22.1	18.3	110	91	59-148	19				
Xylene (Total)	ug/L	ND	60	60	65.8	56.1	110	94	63-158	16				
1,2-Dichloroethane-d4 (S)	%						96	91	70-130					
4-Bromofluorobenzene (S)	%						99	99	70-130					
Toluene-d8 (S)	%						99	98	70-130					

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QUALITY CONTROL DATA

Project: JAKE HUGGINS 3423
Pace Project No.: 92787830

QC Batch: 925990 Analysis Method: EPA 8260D
QC Batch Method: EPA 8260D Analysis Description: 8260 MSV SC
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92787830005, 92787830011, 92787830012, 92787830014

METHOD BLANK: 4756727 Matrix: Water
Associated Lab Samples: 92787830005, 92787830011, 92787830012, 92787830014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	04/01/25 00:41	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	04/01/25 00:41	
Benzene	ug/L	ND	5.0	04/01/25 00:41	
Diisopropyl ether	ug/L	ND	5.0	04/01/25 00:41	
Ethanol	ug/L	ND	200	04/01/25 00:41	
Ethyl-tert-butyl ether	ug/L	ND	10.0	04/01/25 00:41	
Ethylbenzene	ug/L	ND	5.0	04/01/25 00:41	
m&p-Xylene	ug/L	ND	10.0	04/01/25 00:41	
Methyl-tert-butyl ether	ug/L	ND	5.0	04/01/25 00:41	
Naphthalene	ug/L	ND	5.0	04/01/25 00:41	
o-Xylene	ug/L	ND	5.0	04/01/25 00:41	
tert-Amyl Alcohol	ug/L	ND	100	04/01/25 00:41	
tert-Amylmethyl ether	ug/L	ND	10.0	04/01/25 00:41	
tert-Butyl Alcohol	ug/L	ND	100	04/01/25 00:41	
tert-Butyl Formate	ug/L	ND	50.0	04/01/25 00:41	
Toluene	ug/L	ND	5.0	04/01/25 00:41	
Xylene (Total)	ug/L	ND	5.0	04/01/25 00:41	
1,2-Dichloroethane-d4 (S)	%	91	70-130	04/01/25 00:41	
4-Bromofluorobenzene (S)	%	95	70-130	04/01/25 00:41	
Toluene-d8 (S)	%	101	70-130	04/01/25 00:41	

LABORATORY CONTROL SAMPLE: 4756728

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	20	19.6	98	70-130	
3,3-Dimethyl-1-Butanol	ug/L	400	411	103	70-130	
Benzene	ug/L	20	20.1	100	70-130	
Diisopropyl ether	ug/L	20	19.0	95	70-130	
Ethanol	ug/L	800	823	103	70-130	
Ethyl-tert-butyl ether	ug/L	40	39.5	99	70-130	
Ethylbenzene	ug/L	20	19.8	99	70-130	
m&p-Xylene	ug/L	40	40.7	102	70-130	
Methyl-tert-butyl ether	ug/L	20	18.5	92	70-130	
Naphthalene	ug/L	20	22.0	110	70-130	
o-Xylene	ug/L	20	21.4	107	70-130	
tert-Amyl Alcohol	ug/L	400	414	103	70-130	
tert-Amylmethyl ether	ug/L	40	38.2	96	70-130	
tert-Butyl Alcohol	ug/L	200	182	91	70-130	
tert-Butyl Formate	ug/L	160	170	106	70-130	

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QUALITY CONTROL DATA

Project: JAKE HUGGINS 3423

Pace Project No.: 92787830

LABORATORY CONTROL SAMPLE: 4756728

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene	ug/L	20	19.5	97	70-130	
Xylene (Total)	ug/L	60	62.1	103	70-130	
1,2-Dichloroethane-d4 (S)	%			94	70-130	
4-Bromofluorobenzene (S)	%			97	70-130	
Toluene-d8 (S)	%			96	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4756729 4756730

Parameter	92787825009		MS		MSD		MS		MSD		% Rec		RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	MS % Rec	MSD % Rec	Limits	Limits		
1,2-Dichloroethane	ug/L	ND	20	20	20.5	18.9	103	94	70-137	8				
3,3-Dimethyl-1-Butanol	ug/L	ND	400	400	405	369	101	92	39-157	9				
Benzene	ug/L	ND	20	20	20.2	20.1	101	101	70-151	0				
Diisopropyl ether	ug/L	ND	20	20	19.0	17.7	95	88	63-144	7				
Ethanol	ug/L	ND	800	800	792	695	99	87	39-176	13				
Ethyl-tert-butyl ether	ug/L	ND	40	40	38.1	37.4	95	93	66-137	2				
Ethylbenzene	ug/L	ND	20	20	20.4	20.1	102	100	66-153	2				
m&p-Xylene	ug/L	ND	40	40	41.5	42.1	104	105	69-152	2				
Methyl-tert-butyl ether	ug/L	ND	20	20	18.4	18.1	92	90	54-156	2				
Naphthalene	ug/L	ND	20	20	20.2	20.3	101	102	61-148	1				
o-Xylene	ug/L	ND	20	20	21.7	21.3	109	107	70-148	2				
tert-Amyl Alcohol	ug/L	ND	400	400	431	404	108	101	54-153	7				
tert-Amylmethyl ether	ug/L	ND	40	40	39.1	38.3	98	96	69-139	2				
tert-Butyl Alcohol	ug/L	ND	200	200	249	219	124	109	43-188	13				
tert-Butyl Formate	ug/L	ND	160	160	33.4J	36.2J	21	23	10-170	v1				
Toluene	ug/L	ND	20	20	20.3	20.4	101	102	59-148	1				
Xylene (Total)	ug/L	ND	60	60	63.2	63.5	105	106	63-158	0				
1,2-Dichloroethane-d4 (S)	%						90	99	70-130					
4-Bromofluorobenzene (S)	%						99	100	70-130					
Toluene-d8 (S)	%						96	99	70-130					

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QUALITY CONTROL DATA

Project: JAKE HUGGINS 3423

Pace Project No.: 92787830

QC Batch: 926121

Analysis Method: EPA 8260D

QC Batch Method: EPA 8260D

Analysis Description: 8260 MSV SC

Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92787830006, 92787830008

METHOD BLANK: 4757382

Matrix: Water

Associated Lab Samples: 92787830006, 92787830008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	04/01/25 15:05	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	04/01/25 15:05	
Benzene	ug/L	ND	5.0	04/01/25 15:05	
Diisopropyl ether	ug/L	ND	5.0	04/01/25 15:05	v1
Ethanol	ug/L	ND	200	04/01/25 15:05	
Ethyl-tert-butyl ether	ug/L	ND	10.0	04/01/25 15:05	
Ethylbenzene	ug/L	ND	5.0	04/01/25 15:05	
m&p-Xylene	ug/L	ND	10.0	04/01/25 15:05	
Methyl-tert-butyl ether	ug/L	ND	5.0	04/01/25 15:05	
Naphthalene	ug/L	ND	5.0	04/01/25 15:05	
o-Xylene	ug/L	ND	5.0	04/01/25 15:05	
tert-Amyl Alcohol	ug/L	ND	100	04/01/25 15:05	
tert-Amylmethyl ether	ug/L	ND	10.0	04/01/25 15:05	
tert-Butyl Alcohol	ug/L	ND	100	04/01/25 15:05	
tert-Butyl Formate	ug/L	ND	50.0	04/01/25 15:05	
Toluene	ug/L	ND	5.0	04/01/25 15:05	
Xylene (Total)	ug/L	ND	5.0	04/01/25 15:05	
1,2-Dichloroethane-d4 (S)	%	125	70-130	04/01/25 15:05	
4-Bromofluorobenzene (S)	%	104	70-130	04/01/25 15:05	
Toluene-d8 (S)	%	103	70-130	04/01/25 15:05	

LABORATORY CONTROL SAMPLE: 4757383

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	20	23.7	119	70-130	
3,3-Dimethyl-1-Butanol	ug/L	400	396	99	70-130	
Benzene	ug/L	20	21.4	107	70-130	
Diisopropyl ether	ug/L	20	24.4	122	70-130	v1
Ethanol	ug/L	800	912	114	70-130	
Ethyl-tert-butyl ether	ug/L	40	45.6	114	70-130	
Ethylbenzene	ug/L	20	20.9	105	70-130	
m&p-Xylene	ug/L	40	42.2	105	70-130	
Methyl-tert-butyl ether	ug/L	20	21.7	108	70-130	
Naphthalene	ug/L	20	20.5	102	70-130	
o-Xylene	ug/L	20	21.0	105	70-130	
tert-Amyl Alcohol	ug/L	400	393	98	70-130	
tert-Amylmethyl ether	ug/L	40	40.4	101	70-130	
tert-Butyl Alcohol	ug/L	200	200	100	70-130	
tert-Butyl Formate	ug/L	160	186	116	70-130	

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QUALITY CONTROL DATA

Project: JAKE HUGGINS 3423

Pace Project No.: 92787830

LABORATORY CONTROL SAMPLE: 4757383

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene	ug/L	20	20.4	102	70-130	
Xylene (Total)	ug/L	60	63.1	105	70-130	
1,2-Dichloroethane-d4 (S)	%			119	70-130	
4-Bromofluorobenzene (S)	%			106	70-130	
Toluene-d8 (S)	%			103	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4757384 4758084

Parameter	92787353046		MS		MSD		MS		MSD		% Rec		RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	MS % Rec	MSD % Rec	Limits	Limits		
1,2-Dichloroethane	ug/L	ND	20	20	25.4	26.5	127	132	70-137	4				
3,3-Dimethyl-1-Butanol	ug/L	ND	400	400	461J	511	115	128	39-157					
Benzene	ug/L	490	20	20	527	523	185	161	70-151	1	M1			
Diisopropyl ether	ug/L	ND	20	20	25.9	26.7	130	133	63-144	3				
Ethanol	ug/L	ND	800	800	1100	1250	137	157	39-176	13				
Ethyl-tert-butyl ether	ug/L	ND	40	40	50.7	52.0	127	130	66-137	3				
Ethylbenzene	ug/L	346	20	20	384	385	189	195	66-153	0	M1			
m&p-Xylene	ug/L	742	40	40	886	907	359	413	69-152	2	M1			
Methyl-tert-butyl ether	ug/L	ND	20	20	35.5	36.2	129	133	54-156	2				
Naphthalene	ug/L	833	20	20	1050	1120	1110	1440	61-148	6	E,M1			
o-Xylene	ug/L	56.6	20	20	90.5	88.6	169	160	70-148	2	M1			
tert-Amyl Alcohol	ug/L	ND	400	400	723	807	181	202	54-153	11	M1			
tert-Amylmethyl ether	ug/L	ND	40	40	48.9J	50.4	122	126	69-139					
tert-Butyl Alcohol	ug/L	ND	200	200	ND	ND	132	149	43-188					
tert-Butyl Formate	ug/L	ND	160	160	234J	241J	147	151	10-170					
Toluene	ug/L	28.2	20	20	56.2	55.9	140	138	59-148	1				
Xylene (Total)	ug/L	799	60	60	977	996	296	328	63-158	2	MS			
1,2-Dichloroethane-d4 (S)	%						95	97	70-130					
4-Bromofluorobenzene (S)	%						97	95	70-130					
Toluene-d8 (S)	%						100	99	70-130					

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QUALITY CONTROL DATA

Project: JAKE HUGGINS 3423
Pace Project No.: 92787830

QC Batch:	926379	Analysis Method:	EPA 8260D
QC Batch Method:	EPA 8260D	Analysis Description:	8260 MSV SC
		Laboratory:	Pace Analytical Services - Charlotte

Associated Lab Samples: 92787830002

METHOD BLANK: 4758654 Matrix: Water

Associated Lab Samples: 92787830002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	04/01/25 20:52	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	04/01/25 20:52	
Benzene	ug/L	ND	5.0	04/01/25 20:52	
Diisopropyl ether	ug/L	ND	5.0	04/01/25 20:52	
Ethanol	ug/L	ND	200	04/01/25 20:52	
Ethyl-tert-butyl ether	ug/L	ND	10.0	04/01/25 20:52	
Ethylbenzene	ug/L	ND	5.0	04/01/25 20:52	
m&p-Xylene	ug/L	ND	10.0	04/01/25 20:52	
Methyl-tert-butyl ether	ug/L	ND	5.0	04/01/25 20:52	
Naphthalene	ug/L	ND	5.0	04/01/25 20:52	
o-Xylene	ug/L	ND	5.0	04/01/25 20:52	
tert-Amyl Alcohol	ug/L	ND	100	04/01/25 20:52	
tert-Amylmethyl ether	ug/L	ND	10.0	04/01/25 20:52	
tert-Butyl Alcohol	ug/L	ND	100	04/01/25 20:52	
tert-Butyl Formate	ug/L	ND	50.0	04/01/25 20:52	
Toluene	ug/L	ND	5.0	04/01/25 20:52	
Xylene (Total)	ug/L	ND	5.0	04/01/25 20:52	
1,2-Dichloroethane-d4 (S)	%	96	70-130	04/01/25 20:52	
4-Bromofluorobenzene (S)	%	98	70-130	04/01/25 20:52	
Toluene-d8 (S)	%	105	70-130	04/01/25 20:52	

LABORATORY CONTROL SAMPLE: 4758655

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	20	21.2	106	70-130	
3,3-Dimethyl-1-Butanol	ug/L	400	395	99	70-130	
Benzene	ug/L	20	23.4	117	70-130	
Diisopropyl ether	ug/L	20	21.2	106	70-130	
Ethanol	ug/L	800	842	105	70-130	
Ethyl-tert-butyl ether	ug/L	40	43.2	108	70-130	
Ethylbenzene	ug/L	20	21.6	108	70-130	
m&p-Xylene	ug/L	40	44.2	111	70-130	
Methyl-tert-butyl ether	ug/L	20	20.8	104	70-130	
Naphthalene	ug/L	20	23.5	118	70-130	
o-Xylene	ug/L	20	21.8	109	70-130	
tert-Amyl Alcohol	ug/L	400	446	112	70-130	
tert-Amylmethyl ether	ug/L	40	43.5	109	70-130	
tert-Butyl Alcohol	ug/L	200	199	100	70-130	
tert-Butyl Formate	ug/L	160	159	100	70-130	

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QUALITY CONTROL DATA

Project: JAKE HUGGINS 3423

Pace Project No.: 92787830

LABORATORY CONTROL SAMPLE: 4758655

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene	ug/L	20	21.8	109	70-130	
Xylene (Total)	ug/L	60	66.0	110	70-130	
1,2-Dichloroethane-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE SAMPLE: 4758657

Parameter	Units	92787825003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	20	10.9	55	70-137	M1
3,3-Dimethyl-1-Butanol	ug/L	ND	400	203	51	39-157	
Benzene	ug/L	ND	20	11.6	58	70-151	M1
Diisopropyl ether	ug/L	ND	20	10.8	54	63-144	M1
Ethanol	ug/L	ND	800	436	54	39-176	
Ethyl-tert-butyl ether	ug/L	ND	40	21.9	55	66-137	M1
Ethylbenzene	ug/L	ND	20	12.2	57	66-153	M1
m&p-Xylene	ug/L	ND	40	25.3	58	69-152	M1
Methyl-tert-butyl ether	ug/L	ND	20	10.4	52	54-156	M1
Naphthalene	ug/L	5.8	20	17.3	57	61-148	M1
o-Xylene	ug/L	2.7J	20	14.7	60	70-148	M1
tert-Amyl Alcohol	ug/L	ND	400	218	55	54-153	
tert-Amylmethyl ether	ug/L	ND	40	20.6	51	69-139	M1
tert-Butyl Alcohol	ug/L	ND	200	136	68	43-188	
tert-Butyl Formate	ug/L	ND	160	31.9J	20	10-170	
Toluene	ug/L	ND	20	11.1	56	59-148	M1
Xylene (Total)	ug/L	ND	60	40.0	62	63-158	MS
1,2-Dichloroethane-d4 (S)	%				102	70-130	
4-Bromofluorobenzene (S)	%				100	70-130	
Toluene-d8 (S)	%				99	70-130	

SAMPLE DUPLICATE: 4758656

Parameter	Units	92787825012 Result	Dup Result	RPD	Qualifiers
1,2-Dichloroethane	ug/L	ND	ND		
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		
Benzene	ug/L	ND	ND		
Diisopropyl ether	ug/L	ND	ND		
Ethanol	ug/L	ND	ND		
Ethyl-tert-butyl ether	ug/L	ND	ND		
Ethylbenzene	ug/L	ND	ND		
m&p-Xylene	ug/L	ND	ND		
Methyl-tert-butyl ether	ug/L	ND	ND		
Naphthalene	ug/L	ND	ND		
o-Xylene	ug/L	ND	ND		

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QUALITY CONTROL DATA

Project: JAKE HUGGINS 3423

Pace Project No.: 92787830

SAMPLE DUPLICATE: 4758656

Parameter	Units	92787825012 Result	Dup Result	RPD	Qualifiers
tert-Amyl Alcohol	ug/L	ND	ND		
tert-Amylmethyl ether	ug/L	ND	ND		
tert-Butyl Alcohol	ug/L	ND	ND		
tert-Butyl Formate	ug/L	ND	ND		
Toluene	ug/L	ND	ND		
Xylene (Total)	ug/L	ND	ND		
1,2-Dichloroethane-d4 (S)	%	93	104		
4-Bromofluorobenzene (S)	%	102	101		
Toluene-d8 (S)	%	106	100		

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QUALITY CONTROL DATA

Project: JAKE HUGGINS 3423

Pace Project No.: 92787830

QC Batch: 926701

Analysis Method: EPA 8260D

QC Batch Method: EPA 8260D

Analysis Description: 8260 MSV SC

Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92787830001, 92787830010, 92787830021

METHOD BLANK: 4759638

Matrix: Water

Associated Lab Samples: 92787830001, 92787830010, 92787830021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	04/02/25 11:03	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	04/02/25 11:03	
Benzene	ug/L	ND	5.0	04/02/25 11:03	
Diisopropyl ether	ug/L	ND	5.0	04/02/25 11:03	
Ethanol	ug/L	ND	200	04/02/25 11:03	
Ethyl-tert-butyl ether	ug/L	ND	10.0	04/02/25 11:03	
Ethylbenzene	ug/L	ND	5.0	04/02/25 11:03	
m&p-Xylene	ug/L	ND	10.0	04/02/25 11:03	
Methyl-tert-butyl ether	ug/L	ND	5.0	04/02/25 11:03	
Naphthalene	ug/L	ND	5.0	04/02/25 11:03	
o-Xylene	ug/L	ND	5.0	04/02/25 11:03	
tert-Amyl Alcohol	ug/L	ND	100	04/02/25 11:03	
tert-Amylmethyl ether	ug/L	ND	10.0	04/02/25 11:03	
tert-Butyl Alcohol	ug/L	ND	100	04/02/25 11:03	
tert-Butyl Formate	ug/L	ND	50.0	04/02/25 11:03	
Toluene	ug/L	ND	5.0	04/02/25 11:03	
Xylene (Total)	ug/L	ND	5.0	04/02/25 11:03	
1,2-Dichloroethane-d4 (S)	%	111	70-130	04/02/25 11:03	
4-Bromofluorobenzene (S)	%	101	70-130	04/02/25 11:03	
Toluene-d8 (S)	%	102	70-130	04/02/25 11:03	

LABORATORY CONTROL SAMPLE: 4759639

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	20	20.5	102	70-130	
3,3-Dimethyl-1-Butanol	ug/L	400	443	111	70-130	
Benzene	ug/L	20	20.6	103	70-130	
Diisopropyl ether	ug/L	20	20.3	102	70-130	
Ethanol	ug/L	800	806	101	70-130	
Ethyl-tert-butyl ether	ug/L	40	41.1	103	70-130	
Ethylbenzene	ug/L	20	21.5	108	70-130	
m&p-Xylene	ug/L	40	43.3	108	70-130	
Methyl-tert-butyl ether	ug/L	20	19.5	97	70-130	
Naphthalene	ug/L	20	21.8	109	70-130	
o-Xylene	ug/L	20	21.8	109	70-130	
tert-Amyl Alcohol	ug/L	400	452	113	70-130	
tert-Amylmethyl ether	ug/L	40	40.0	100	70-130	
tert-Butyl Alcohol	ug/L	200	211	105	70-130	
tert-Butyl Formate	ug/L	160	184	115	70-130	

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QUALITY CONTROL DATA

Project: JAKE HUGGINS 3423

Pace Project No.: 92787830

LABORATORY CONTROL SAMPLE: 4759639

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene	ug/L	20	20.4	102	70-130	
Xylene (Total)	ug/L	60	65.1	109	70-130	
1,2-Dichloroethane-d4 (S)	%			100	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE SAMPLE: 4759640

Parameter	Units	92787825007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	20	19.6	98	70-137	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	429	107	39-157	
Benzene	ug/L	ND	20	21.7	108	70-151	
Diisopropyl ether	ug/L	ND	20	19.9	99	63-144	
Ethanol	ug/L	ND	800	831	104	39-176	
Ethyl-tert-butyl ether	ug/L	ND	40	39.4	98	66-137	
Ethylbenzene	ug/L	ND	20	20.8	104	66-153	
m&p-Xylene	ug/L	ND	40	42.4	106	69-152	
Methyl-tert-butyl ether	ug/L	ND	20	18.8	94	54-156	
Naphthalene	ug/L	ND	20	19.6	98	61-148	
o-Xylene	ug/L	ND	20	21.4	105	70-148	
tert-Amyl Alcohol	ug/L	ND	400	444	111	54-153	
tert-Amylmethyl ether	ug/L	ND	40	37.8	94	69-139	
tert-Butyl Alcohol	ug/L	ND	200	259	129	43-188	
tert-Butyl Formate	ug/L	ND	160	89.4	56	10-170	
Toluene	ug/L	ND	20	20.6	103	59-148	
Xylene (Total)	ug/L	ND	60	63.8	106	63-158	
1,2-Dichloroethane-d4 (S)	%				99	70-130	
4-Bromofluorobenzene (S)	%				97	70-130	
Toluene-d8 (S)	%				99	70-130	

SAMPLE DUPLICATE: 4759641

Parameter	Units	92787827015 Result	Dup Result	RPD	Qualifiers
1,2-Dichloroethane	ug/L	ND	ND		
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		
Benzene	ug/L	4.5J	4.5J		
Diisopropyl ether	ug/L	ND	ND		
Ethanol	ug/L	ND	ND		
Ethyl-tert-butyl ether	ug/L	ND	ND		
Ethylbenzene	ug/L	64.1	61.2	5	
m&p-Xylene	ug/L	13.6	13.2	3	
Methyl-tert-butyl ether	ug/L	ND	ND		
Naphthalene	ug/L	31.5	31.1	1	
o-Xylene	ug/L	11.1	10.6	4	

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QUALITY CONTROL DATA

Project: JAKE HUGGINS 3423

Pace Project No.: 92787830

SAMPLE DUPLICATE: 4759641

Parameter	Units	92787827015 Result	Dup Result	RPD	Qualifiers
tert-Amyl Alcohol	ug/L	ND	ND		
tert-Amylmethyl ether	ug/L	ND	ND		
tert-Butyl Alcohol	ug/L	ND	ND		
tert-Butyl Formate	ug/L	ND	ND		
Toluene	ug/L	ND	ND		
Xylene (Total)	ug/L	24.7	23.8	4	
1,2-Dichloroethane-d4 (S)	%	110	105		
4-Bromofluorobenzene (S)	%	100	99		
Toluene-d8 (S)	%	101	101		

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QUALITY CONTROL DATA

Project: JAKE HUGGINS 3423

Pace Project No.: 92787830

QC Batch: 926750

Analysis Method: EPA 504.1

QC Batch Method: EPA 504.1

Analysis Description: GCS 504 EDB DBCP

Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92787830025, 92787830026

METHOD BLANK: 4760135

Matrix: Water

Associated Lab Samples: 92787830025, 92787830026

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.022	04/03/25 05:32	
1-Chloro-2-bromopropane (S)	%	122	70-130	04/03/25 05:32	

LABORATORY CONTROL SAMPLE & LCSD: 4760136

4760277

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	0.27	0.29	0.33	109	112	70-130	11	20	
1-Chloro-2-bromopropane (S)	%				115	115	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4760138

4760139

Parameter	Units	92787826008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	0.26	0.26	0.31	0.29	123	113	65-135	9	
1-Chloro-2-bromopropane (S)	%						123	113	70-130		

SAMPLE DUPLICATE: 4760137

Parameter	Units	92787826007 Result	Dup Result	RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		
1-Chloro-2-bromopropane (S)	%	107	115		

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QUALITY CONTROL DATA

Project: JAKE HUGGINS 3423

Pace Project No.: 92787830

QC Batch: 927031

Analysis Method: EPA 504.1

QC Batch Method: EPA 504.1

Analysis Description: GCS 504 EDB DBCP

Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92787830027, 92787830028

METHOD BLANK: 4761675

Matrix: Water

Associated Lab Samples: 92787830027, 92787830028

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.022	04/04/25 06:44	
1-Chloro-2-bromopropane (S)	%	112	70-130	04/04/25 06:44	

LABORATORY CONTROL SAMPLE & LCSD: 4761676

4761677

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	0.28	0.32	0.24	117	89	70-130	30	20	R1
1-Chloro-2-bromopropane (S)	%				117	96	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4761679

4761680

Parameter	Units	92788644001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	1.2	0.26	0.26	1.7	1.8	164	219	65-135	8	M1
1-Chloro-2-bromopropane (S)	%						180	189	70-130		S0

SAMPLE DUPLICATE: 4761678

Parameter	Units	92787832019 Result	Dup Result	RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		
1-Chloro-2-bromopropane (S)	%	104	96		

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QUALITY CONTROL DATA

Project: JAKE HUGGINS 3423
Pace Project No.: 92787830

QC Batch: 926906 Analysis Method: EPA 8011
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92787830001, 92787830002, 92787830003

METHOD BLANK: 4761158 Matrix: Water
Associated Lab Samples: 92787830001, 92787830002, 92787830003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	04/04/25 01:37	
1-Chloro-2-bromopropane (S)	%	147	60-140	04/04/25 01:37	S3

LABORATORY CONTROL SAMPLE & LCSD: 4761159

LABORATORY CONTROL SAMPLE & LCSD: 4761159			4761160							
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	0.25	0.31	0.30	123	122	60-140	1	20	
1-Chloro-2-bromopropane (S)	%				132	127	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4761162

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		4761162			4761163								
Parameter	Units	92787827006	MS	MSD	MS	MSD	MS	MSD	% Rec	% Rec	Limits	RPD	Qual
		Result	Spike Conc.	Spike Conc.									
1,2-Dibromoethane (EDB)	ug/L	ND	0.25	0.25	0.29	0.35	117	140	60-140	18			
1-Chloro-2-bromopropane (S)	%						129	142	60-140				S0

SAMPLE DUPLICATE: 4761161

Parameter	Units	92787827005 Result	Dup Result	RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		
1-Chloro-2-bromopropane (S)	%	137	133		

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QUALITY CONTROL DATA

Project: JAKE HUGGINS 3423
Pace Project No.: 92787830

QC Batch:	927234	Analysis Method:	EPA 8011
QC Batch Method:	EPA 8011	Analysis Description:	GCS 8011 EDB DBCP
		Laboratory:	Pace Analytical Services - Charlotte
Associated Lab Samples:	92787830004, 92787830005, 92787830006, 92787830007, 92787830008, 92787830009, 92787830010, 92787830011, 92787830012, 92787830013, 92787830014, 92787830015, 92787830016, 92787830017, 92787830018, 92787830019, 92787830020, 92787830021, 92787830022, 92787830023		

METHOD BLANK:	4763083	Matrix:	Water
Associated Lab Samples:	92787830004, 92787830005, 92787830006, 92787830007, 92787830008, 92787830009, 92787830010, 92787830011, 92787830012, 92787830013, 92787830014, 92787830015, 92787830016, 92787830017, 92787830018, 92787830019, 92787830020, 92787830021, 92787830022, 92787830023		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	04/04/25 16:09	
1-Chloro-2-bromopropane (S)	%	120	60-140	04/04/25 16:09	

LABORATORY CONTROL SAMPLE & LCSD:		4763084	4763085							
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	0.25	0.30	0.32	120	128	60-140	7	20	
1-Chloro-2-bromopropane (S)	%				126	132	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		4763087	4763088								
Parameter	Units	92787830005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	0.25	0.25	0.30	0.32	120	127	60-140	6	
1-Chloro-2-bromopropane (S)	%						116	123	60-140		

SAMPLE DUPLICATE:		4763086								
Parameter	Units	92787830004 Result	Dup Result	RPD	Qualifiers					
1,2-Dibromoethane (EDB)	ug/L	ND	ND							
1-Chloro-2-bromopropane (S)	%	125	127							

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QUALIFIERS

Project: JAKE HUGGINS 3423
Pace Project No.: 92787830

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.
A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

ANALYTE QUALIFIERS

E	Analyte concentration exceeded the calibration range. The reported result is estimated.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
MS	Analyte recovery in the matrix spike was outside QC limits for one or more of the constituent analytes used in the calculated result.
R1	RPD value was outside control limits.
S0	Surrogate recovery outside laboratory control limits.
S3	Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated sample.
v1	The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the associated samples may have a high bias.

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: JAKE HUGGINS 3423

Pace Project No.: 92787830

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92787830025	WSW-1	EPA 504.1	926750	EPA 504.1	926796
92787830026	WSW-2	EPA 504.1	926750	EPA 504.1	926796
92787830027	WSW-DUP	EPA 504.1	927031	EPA 504.1	927078
92787830028	WSW-FB	EPA 504.1	927031	EPA 504.1	927078
92787830001	MW-1	EPA 8011	926906	EPA 8011	927119
92787830002	MW-2	EPA 8011	926906	EPA 8011	927119
92787830003	MW-3	EPA 8011	926906	EPA 8011	927119
92787830004	MW-4	EPA 8011	927234	EPA 8011	927375
92787830005	MW-5	EPA 8011	927234	EPA 8011	927375
92787830006	MW-6	EPA 8011	927234	EPA 8011	927375
92787830007	MW-7	EPA 8011	927234	EPA 8011	927375
92787830008	MW-8	EPA 8011	927234	EPA 8011	927375
92787830009	MW-9	EPA 8011	927234	EPA 8011	927375
92787830010	MW-10	EPA 8011	927234	EPA 8011	927375
92787830011	DW-1	EPA 8011	927234	EPA 8011	927375
92787830012	DW-2	EPA 8011	927234	EPA 8011	927375
92787830013	DW-3	EPA 8011	927234	EPA 8011	927375
92787830014	DW-4	EPA 8011	927234	EPA 8011	927375
92787830015	SW-1	EPA 8011	927234	EPA 8011	927375
92787830016	SW-2	EPA 8011	927234	EPA 8011	927375
92787830017	SW-3	EPA 8011	927234	EPA 8011	927375
92787830018	SW-4	EPA 8011	927234	EPA 8011	927375
92787830019	SW-5	EPA 8011	927234	EPA 8011	927375
92787830020	SW-6	EPA 8011	927234	EPA 8011	927375
92787830021	DUP	EPA 8011	927234	EPA 8011	927375
92787830022	FB	EPA 8011	927234	EPA 8011	927375
92787830023	GAC	EPA 8011	927234	EPA 8011	927375
92787830025	WSW-1	EPA 524.2	925983		
92787830026	WSW-2	EPA 524.2	927518		
92787830027	WSW-DUP	EPA 524.2	926048		
92787830028	WSW-FB	EPA 524.2	927518		
92787830029	WSW-TB	EPA 524.2	926048		
92787830015	SW-1	EPA 8260D	926017		
92787830016	SW-2	EPA 8260D	926017		
92787830017	SW-3	EPA 8260D	926017		
92787830018	SW-4	EPA 8260D	926017		
92787830019	SW-5	EPA 8260D	926017		
92787830020	SW-6	EPA 8260D	926017		
92787830025	WSW-1	EPA 8260D	926034		
92787830026	WSW-2	EPA 8260D	926034		
92787830027	WSW-DUP	EPA 8260D	926034		
92787830028	WSW-FB	EPA 8260D	926017		
92787830029	WSW-TB	EPA 8260D	926017		

REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, LLC.



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: JAKE HUGGINS 3423

Pace Project No.: 92787830

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92787830001	MW-1	EPA 8260D	926701		
92787830002	MW-2	EPA 8260D	926379		
92787830003	MW-3	EPA 8260D	925965		
92787830004	MW-4	EPA 8260D	925965		
92787830005	MW-5	EPA 8260D	925990		
92787830006	MW-6	EPA 8260D	926121		
92787830007	MW-7	EPA 8260D	925989		
92787830008	MW-8	EPA 8260D	926121		
92787830009	MW-9	EPA 8260D	925989		
92787830010	MW-10	EPA 8260D	926701		
92787830011	DW-1	EPA 8260D	925990		
92787830012	DW-2	EPA 8260D	925990		
92787830013	DW-3	EPA 8260D	925989		
92787830014	DW-4	EPA 8260D	925990		
92787830021	DUP	EPA 8260D	926701		
92787830022	FB	EPA 8260D	925960		
92787830023	GAC	EPA 8260D	925960		
92787830024	TB	EPA 8260D	925960		

REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, LLC.



DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☒ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐Sample Condition
Upon Receipt

Client Name:

Midlands Environmental

Project #: WO#: 92787830

Courier:

☐ Commercial☐ Fed Ex☒ Pace☐ UPS☐ USPS☐ Other:☐ Client

92787830

Custody Seal Present? ☐ Yes ☒ No Seals Intact? ☐ Yes ☐ No ☒ N/A

Date/Initials Person Examining Contents: Jce

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen?

☐ Yes ☐ No ☒ N/A

Thermometer:

☒ IR Gun ID:

90083

Type of Ice:

☒ Wet☐ Blue☐ None

Cooler Temp:

0.8, 1.2

Correction Factor:

Add/Subtract (°C)

0

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C):

0.8, 1.2

USDA Regulated Soil (☐ N/A, water sample)Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ NoDid samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

			Comments/Discrepancy:
Chain of Custody Present?	☒ Yes ☐ No ☐ N/A	1.	
Samples Arrived within Hold Time?	☒ Yes ☐ No ☐ N/A	2.	
Short Hold Time Analysis (<72 hr.)?	☐ Yes ☒ No ☐ N/A	3.	
Rush Turn Around Time Requested?	☐ Yes ☐ No ☐ N/A	4.	
Sufficient Volume?	☒ Yes ☐ No ☐ N/A	5.	
Correct Containers Used?	☒ Yes ☐ No ☐ N/A	6.	
-Pace Containers Used?	☒ Yes ☐ No ☐ N/A		
Containers Intact?	☒ Yes ☐ No ☐ N/A	7.	
Dissolved analysis: Samples Field Filtered?	☐ Yes ☒ No ☐ N/A	8.	
Sample Labels Match COC?	☒ Yes ☐ No ☐ N/A	9.	
-Includes Date/Time/ID/Analysis Matrix: WT			
Headspace in VOA Vials (>5-6mm)?	☐ Yes ☒ No ☐ N/A	10.	
Trip Blank Present?	☒ Yes ☐ No ☐ N/A	11.	
Trip Blank Custody Seals Present?	☒ Yes ☐ No ☐ N/A		

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted:

Date/Time:

Project Manager SCURF Review:

Date:

Project Manager SRF Review:

Date:



DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project # **WO#: 92787830**

PM: BH

Due Date: 04/07/25

CLIENT: 92-MIDLAND

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐Client _____ Profile/EZ (Circle one) 3178132 Notes _____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic 2N Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGUFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	V5GU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
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pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.



DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

2

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client _____ Profile/EZ (Circle one) _____ Notes _____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic 2N Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	V5GU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
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pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.



DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

3

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client _____ Profile/EZ (Circle one) _____ Notes _____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)		BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic Zn Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG84-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
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pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY - Affix Workorder/Login Label Here

~~Page 68 of 70~~

Company Name: Midlands Environmental Consultants, Inc. Street Address: 231 Dooley Road, Lexington, SC 29073						Contact/Report To: Bryan T. Shane, P.G. Phone #: 803-808-2043 E-Mail: jlc@mecl.net Cc E-Mail:											
Project Name: Take Hoggins Site Collection Info/Facility ID (as applicable): 4925 sample.co VST: 3423 Hwy Florence						Invoice To: Lynn Shane Invoice E-Mail: lshane@mecl.net Purchase Order # (if applicable): Quote #:											
Time Zone Collected: [] AK [] PT [] MT [] CT [X] ET Data Deliverables: [] Level II [] Level III [] Level IV [] EQUIS [] Other						County / State origin of sample(s): SOUTH CAROLINA Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [] Yes [] No Rush (Pre-approval required): DW PWSD # or WW Permit # as applicable: [] Same Day [] 1 Day [] 2 Day [] 3 Day [] Other Date Results: Field Filtered (if applicable): [] Yes [] No Requested: Analysis:											
Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)																	
Customer Sample ID						Matrix * Comp / Composite Start Date Time Collected or Composite End Date Time # Cont. Res. Chlorine Results Units											
MW-1				GW	G			3/28	12:20	6							
MW-2									12:13								
MW-3									12:00								
MW-4									12:01								
MW-5									12:05								
MW-6									12:06								
MW-7									12:07								
MW-8									12:26								
MW-9									12:23								
MW-10									12:16								
Additional Instructions from Pace*: -REPORT "J" VALUES						Collected By: Tracy Douglas (Printed Name) Signature: Tracy Douglas						Customer Remarks / Special Conditions / Possible Hazards: # Coolers: 2 Thermometer ID: 42785 Correction Factor (°C): 0.512					
Reinquished by/Company: (Signature) Troy Douglas (MECI)						Date/Time: 3/28/25 13:40						Received by/Company: (Signature) J. Pace Received by/Company: (Signature) J. Pace					
Reinquished by/Company: (Signature) J. Pace						Date/Time: 3/28/25 14:10						Received by/Company: (Signature) J. Pace Received by/Company: (Signature) J. Pace					
Reinquished by/Company: (Signature)						Date/Time:						Received by/Company: (Signature)					
Reinquished by/Company: (Signature)						Date/Time:						Received by/Company: (Signature)					
Page: 1 of 3																	

CHAIN-OF-CUSTODY Analytical Request Document

LAB USE ONLY - Affix Workorder/Login Label Here

Company Name: Midlands Environmental Consultants, Inc.
Street Address: 231 Dooley Road, Lexington, SC 29073

Contact/Report To: Bryan T. Shane, P.G.
Phone #: 803-808-2043
E-Mail: jlc@mecl.net
Cc E-Mail:

Customer Project #: Take Huggins
Site Collection Info/Facility ID (as applicable): 4925 Pamlico Hwy, Florence
Vst: 34723

Invoice To: Lynn Shane
Invoice E-Mail: lshane@mecl.net
Purchase Order # (if applicable):
Quote #:

Time Zone Collected: [] AK [] PT [] MT [] CT [] X [] ET
Data Deliverables: Regulatory Program (DW, RCRA, etc.) as applicable: SOUTH CAROLINA
Reportable [] Yes [] No

[] Level II [] Level III [] Level IV
[] EQUIS
[] Other

Rush (Pre-approval required):
[] Same Day [] 1 Day [] 2 Day [] 3 Day [] Other
Field Filtered (if applicable): [] Yes [] No
Analysis: DW PWSID # or WW Permit # as applicable:
[] Yes [] No

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk (CA), Leachate (LL), Biosolid (BS), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Time	Collected or Composite End Date	Time	# Cont.	Res. Results	Chlorine Units
Dup	Gu	G	3/28				6		
FB									
GAC									
TB									
WSW-1									
WSW-2									
WSW-3									
WSW-Dup									
WSW-FB									
WSW-TB									

Additional Instructions from Pace®:
-REPORT "J" VALUES

Collected By: (Printed Name) Troy Douglas
Signature: [Signature]

Customer Remarks / Special Conditions / Possible Hazards:
Coolers: 7
Thermometer ID: 408083
Correction Factor (°C): 0
Obs. Temp. (°C) 08.1.2
Corrected Temp. (°C)
On Ice

Relinquished by/Company: (Signature) [Signature]
Date/Time: 3/28/25 1340
Relinquished by/Company: (Signature) [Signature]
Date/Time: 3/28/25 1610
Relinquished by/Company: (Signature) [Signature]
Date/Time:
Relinquished by/Company: (Signature) [Signature]
Date/Time:

Received by/Company: (Signature) [Signature]
Date/Time: 3/28/25 1340
Received by/Company: (Signature) [Signature]
Date/Time: 3/28/25 1610
Received by/Company: (Signature) [Signature]
Date/Time:
Received by/Company: (Signature) [Signature]
Date/Time:



Scan QR Code for instructions

Specify Container Size **	6	6	6	6	6	3	6
Identify Container Preservative Type**	4	4	4	8	4	2	4
Analysis Requested							

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) Encore, (8) Teracore, (9) 50mL, (10) Other
***Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) NaOH, (11) Other

Lab Use Only
Proj. Mgr.:
AccNum / Client ID:
Table #:
Profile / Template:
Prelog / Bottle Ord. ID:
Sample Comment: Slight odor
Preservation non-conformance identified for sample.

APPENDIX C:

TAX MAP

(Not Applicable)

APPENDIX D:

SOIL BORING/FIELD SCREENING LOGS & 1903 FORMS

(Not Applicable)

APPENDIX E:
WELL COMPLETION LOGS & 1903 FORMS
(Not Applicable)

APPENDIX F:
AQUIFER EVALUATION SUMMARY FORMS, DATA, GRAPHS, EQUATIONS
(Not Applicable)

APPENDIX G:
DISPOSAL MANIFEST



April 9, 2025

Re: Treatment of Purge Water
Jake Huggins DBA Outpost at Willowcreek
Florence, South Carolina
Florence County
UST Permit# 03423
MECI Project# 25-8491

To Whom it May Concern;

Midlands Environmental Consultants, Inc. is providing the following letter as certification that treatment of the referenced purge water complied with the conditions of "Proposed Conditions for Use of Portable Activated Carbon Units for the Treatment of Small Volumes of Petroleum Hydrocarbon Contaminated Groundwater", as described in the following:

Applicability:

Groundwater treated was obtained as a result development of wells and sampling.

Conditions:

1. The purge/bail water from all wells is mixed before usage of the Activated Carbon Unit.
2. No free-product was detected in any of the purge water drums.
3. Analytical results of from well sampling show average concentrations of petroleum hydrocarbon constituents less than 5000 parts per billion (ppb) Benzene and less than 20,000 ppb total BTEX.
4. The existing carbon pack will be replaced/reactivated every 5,000 gallons.
5. Record of usage is maintained by Contractor.
6. Any and all recommendations and conditions issued by the Manufacturer have been adhered to.
7. Any and all recommendations and conditions (even on a site by site basis) issued by the SCDES must be adhered to.

All purge waters were treated on-site using an up-flow treatment drum loaded with 80 pounds of activated carbon. Carbon will be loaded to a maximum of 3 pounds of total organic compounds or 5,000 gallons of development/purge water, whichever occurs first.

April 9, 2025

-A total of 65.50 gallons of purge water was treated on March 28, 2025 during groundwater sampling activities performed at the above referenced site.

Midlands Environmental also tracks cumulative organic compounds adsorbed on the activated carbon to ensure the capacity of carbon mass is not over-charged. This data is available upon request.

Should you have any questions or comments, please contact the undersigned.

Sincerely,
Midlands Environmental Consultants, Inc.



Jeff L. Coleman
Senior Scientist

APPENDIX H:
LOCAL ZONING REGULATIONS
(Not Applicable)

APPENDIX I:
FATE AND TRANSPORT MODELING
(Not Applicable)

APPENDIX J:
ACCESS AGREEMENTS
(Not Applicable)

APPENDIX K:
DATA VERIFICATION CHECKLIST

Contractor Checklist

Item#	Item	Yes	No	N/A
1	Are Facility Name, Permit #, and address provided?	X		
2	Is UST Owner/Operator name, address, & phone number provided?	X		
3	Is name, address, & phone number of current property owner provided?	X		
4	Is the DHEC Certified UST Site Rehabilitation Contractor's Name, Address, telephone number, and certification number provided?	X		
5	Is the name, address, telephone number, and certification number of the well driller that installed borings/monitoring wells provided?			X
6	Is the name, address, telephone number, and certification number of the certified laboratory(ies) performing analytical analyses provided?	X		
7	Has the facility history been summarized?	X		
8	Has the regional geology and hydrogeology been described?	X		
9	Are the receptor survey results provided as required?			X
10	Has current use of the site and adjacent land been described?	X		
11	Has the site-specific geology and hydrogeology been described?	X		
12	Has the primary soil type been described?	X		
13	Have field screening results been described?			X
14	Has a description of the soil sample collection and preservation been detailed?			X
15	Has the field screening methodology and procedure been detailed?			X
16	Has the monitoring well installation and development dates been provided?			X
17	Has the method of well development been detailed?			X
18	Has justification been provided for the locations of the monitoring wells?			X
19	Have the monitoring wells been labeled in accordance with the UST QAPP guidelines?	X		
20	Has the groundwater sampling methodology been detailed?	X		
21	Have the groundwater sampling dates and groundwater measurements been provided? (Table 2 & Figures 4-4A)	X		
22	Has the purging methodology been detailed?	X		
23	Has the volume of water purged from each well been provided along with measurements to verify that purging is complete? (Appendix B)	X		
24	If free-product is present, has the thickness been provided?			X
25	Does the report include a brief discussion of the assessment done and the results?	X		
26	Does the report include a brief discussion of the aquifer evaluation and results?			X
27	Does the report include a brief discussion of the fate & transport models used?			X

Item#	Item	Yes	No	N/A
28	Are the site-conceptual model tables included? (Tier 1 Risk Evaluation)			X
29	Have the exposure pathways been analyzed? (Tier 2 Risk Evaluation)			X
30	Have the SSTLs for each compound and pathway been calculated? (Tier 2 Risk Evaluation)			X
31	Have recommendations for further action been provided and explained?	X		
32	Has the soil analytical data for the site been provided in tabular format?			X
33	Has the potentiometric data for the site been provided in tabular format? (Table 2)	X		
34	Has the current and historical laboratory data been provided in tabular format? (Table 1)	X		
35	Have the aquifer characteristics been provided and summarized on the appropriate form? (Appendix F)			X
36	Have the Site conceptual model tables been included? (Tier 1 Risk Evaluation)			X
37	Has the topographic map been provided with all required elements? (Figure 1)	X		
38	Has the site base map been provided with all required elements? (Figure 2)	X		
39	Have the CoC site maps been provided? (Figure 3-3A)	X		
40	Has the site potentiometric map been provided? (Figure 4-4A)	X		
41	Have the geologic cross-sections been provided?			X
42	Have maps showing the predicted migration of the CoCs through time been provided? (Tier 2 Risk Evaluation)			X
43	Has the site survey been provided and include all necessary elements? (Appendix A)			X
44	Have the sampling logs, chain of custody forms, and the analytical data package been included with all required elements? (Appendix B)	X		
45	Is the laboratory performing the analyses properly certified?	X		
46	Has the tax map been included with all necessary elements? (Appendix C)			X
47	Have the soil boring/field screening logs been provided? (Appendix E)			X
48	Have the well completion logs and SCDES Form 1903 been provided? (Appendix E)			X
49	Have the aquifer evaluation forms, data, graphs, equations, etc. been provided? (Appendix F)			X
50	Have the disposal manifests been provided? (Appendix G)	X		
51	Has a copy of the local zoning regulations been provided? (Appendix H)			X
52	Has all fate and transport modeling been provided? (Appendix I)			X
53	Have copies of all access agreements obtained by the contractor been provided? (Appendix J)			X
54	Has a copy of this form been attached to the final report and are explanations for any missing or incomplete data been provided? (Appendix K)	X		

APPENDIX L:
DETAILED RECEPTOR INFORMATION

	Receptor ID: (03423-WSW01)
	Parcel ID: 00213-01-130
	Property Owner Name: Willie B Winchester Jr.
	Property Owner Address: 3101 Willow Creek Rd, Florence, SC 29505
	WSW Details: Well is inside barn building. Sample collected from spigot on water supply well. GPS: 34.096044, -79.701503

	Receptor ID: (03423-WSW02)
	Parcel ID: 00213-01-130
	Property Owner Name: Willie B Winchester Jr.
	Property Owner Address: 3101 Willow Creek Rd, Florence, SC 29505
	WSW Details: Sample collected from spigot on WSW. GPS: 34.095156, -79.700508

	Receptor ID: (03423-WSW03)
	Parcel ID: 00213-01-052
	Property Owner Name: Linda L Huggins
	Property Owner Address: 3695 Willow Creek Rd, Florence, SC 29505
	WSW Details: Well has been disconnected. Unable to sample with bailer due to metal elbow at well head. GPS: 34.096743, -79.701503

	Receptor ID: (03423-Possible WSW)
	Parcel ID: 00214-01-016
	Property Owner Name: Trent P Stallings
	Property Owner Address: 3118 Willow Creek Rd, Florence, SC 29505
	WSW Details: Possible well house attached to residence. Resident did not respond to attempts to make contact. GPS: 34.094158, -79.700555

	Receptor ID: (03423-SW01)	
		Parcel ID: SCDOT Right of Way Property Owner Name: SCDOT Property Owner Address: PO Box 191, Columbia, SC 29201 SW Details: Surface water sample collected from drainage ditch. GPS: 34.095076, -79.696772

	Receptor ID: (03423-SW02)	
		Parcel ID: SCDOT Right of Way Property Owner Name: SCDOT Property Owner Address: PO Box 191, Columbia, SC 29201 SW Details: Surface water sample collected from drainage ditch. GPS: 34.095847, -79.697296

	Receptor ID: (03423-SW03)	
		Parcel ID: 00213-01-017 Property Owner Name: Barbara M Williams Property Owner Address: 9296 Grays Highway, Ridgeland, SC 29936 SW Details: Surface water sample collected from stream. GPS: 34.094620, -79.698172



Receptor ID: (03423-SW04)
Parcel ID: 00213-01-017
Property Owner Name: Barbara M Williams
Property Owner Address: 9296 Grays Highway, Ridgeland, SC 29936
SW Details: Surface water sample collected from stream. GPS: 34.095389, -79.698409



Receptor ID: (03423-SW05)
Parcel ID: 00213-01-017
Property Owner Name: Barbara M Williams
Property Owner Address: 9282 Grays Highway, Ridgeland, SC 29936
SW Details: Surface water sample collected from stream. GPS: 34.096050, -79.698577



Receptor ID: (03423-SW06)
Parcel ID: 00213-01-017
Property Owner Name: Barbara M Williams
Property Owner Address: 9372 Grays Highway, Ridgeland, SC 29936
SW Details: Surface water sample collected from stream. GPS: 34.096699, -79.699359

APPENDIX M:
MANN-KENDALL STATISTICAL ANALYSES

GSI MANN-KENDALL TOOLKIT

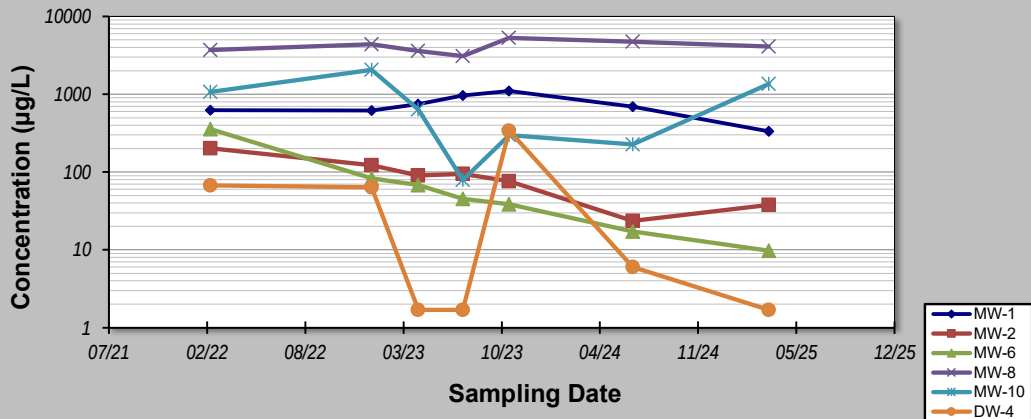
for Constituent Trend Analysis

Evaluation Date: **9-Apr-25**
 Facility Name: **Jake Huggins DBA Outpost @ Willowcreek**
 Conducted By: **Jeff Coleman**

Job ID: **UST#03423**
 Constituent: **BENZENE**
 Concentration Units: **µg/L**

Sampling Point ID: **MW-1** **MW-2** **MW-6** **MW-8** **MW-10** **DW-4**

Sampling Event	Sampling Date	BENZENE CONCENTRATION (µg/L)						
1	15-Feb-22	624	203	356	3720	1070	67.5	
2	9-Jan-23	620	122	83.3	4390	2060	63.6	
3	14-Apr-23	749	90.2	68.1	3620	634	1.7	
4	14-Jul-23	964	95.2	45.4	3110	79.3	1.7	
5	16-Oct-23	1100	76.3	38.5	5330	299	341	
6	24-Jun-24	695	23.5	17.3	4760	227	6	
7	28-Mar-25	333	37.8	9.8	4110	1360	1.7	
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14								
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19								
20								
Coefficient of Variation:		0.34	0.64	1.37	0.18	0.88	1.79	
Mann-Kendall Statistic (S):		1	-17	-21	3	-5	-6	
Confidence Factor:		50.0%	99.5%	100.0%	61.4%	71.9%	76.4%	
Concentration Trend:		No Trend	Decreasing	Decreasing	No Trend	Stable	No Trend	



Notes:

- At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
- Confidence in Trend = Confidence (in percent) that constituent concentration is increasing ($S > 0$) or decreasing ($S < 0$): $> 95\%$ = Increasing or Decreasing; $\geq 90\%$ = Probably Increasing or Probably Decreasing; $< 90\%$ and $S > 0$ = No Trend; $< 90\%$, $S \leq 0$, and $COV \geq 1$ = No Trend; $< 90\%$ and $COV < 1$ = Stable.
- Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.

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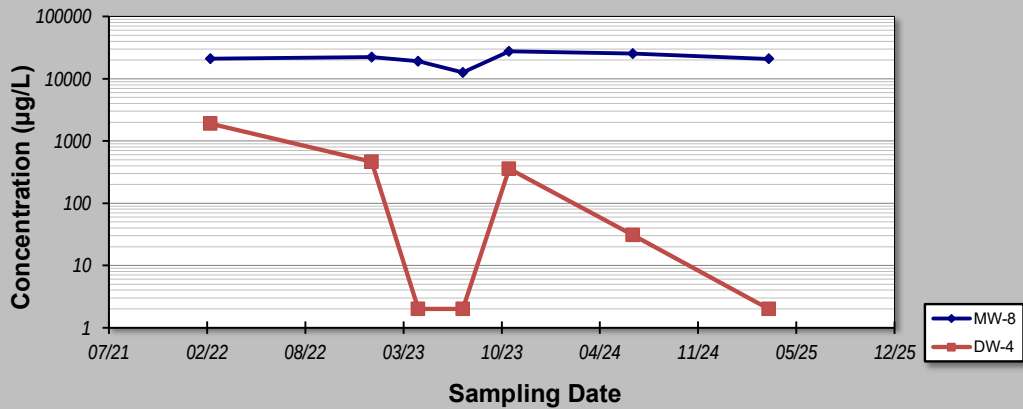
for Constituent Trend Analysis

Evaluation Date: **9-Apr-25**
 Facility Name: **Jake Huggins DBA Outpost @ Willowcreek**
 Conducted By: **Jeff Coleman**

Job ID: **UST#03423**
 Constituent: **TOLUENE**
 Concentration Units: **µg/L**

Sampling Point ID: **MW-8** **DW-4**

Sampling Event	Sampling Date	TOLUENE CONCENTRATION (µg/L)					
1	15-Feb-22	21100	1890				
2	9-Jan-23	22300	464				
3	14-Apr-23	19200	2				
4	14-Jul-23	12600	2				
5	16-Oct-23	27500	359				
6	24-Jun-24	25300	30.8				
7	28-Mar-25	20900	2				
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20							
Coefficient of Variation:		0.22	1.75				
Mann-Kendall Statistic (S):		1	-10				
Confidence Factor:		50.0%	90.7%				
Concentration Trend:		No Trend	Prob. Decreasing				



Notes:

- At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
- Confidence in Trend = Confidence (in percent) that constituent concentration is increasing ($S > 0$) or decreasing ($S < 0$): $> 95\%$ = Increasing or Decreasing; $\geq 90\%$ = Probably Increasing or Probably Decreasing; $< 90\%$ and $S > 0$ = No Trend; $< 90\%$, $S \leq 0$, and $COV \geq 1$ = No Trend; $< 90\%$ and $COV < 1$ = Stable.
- Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.

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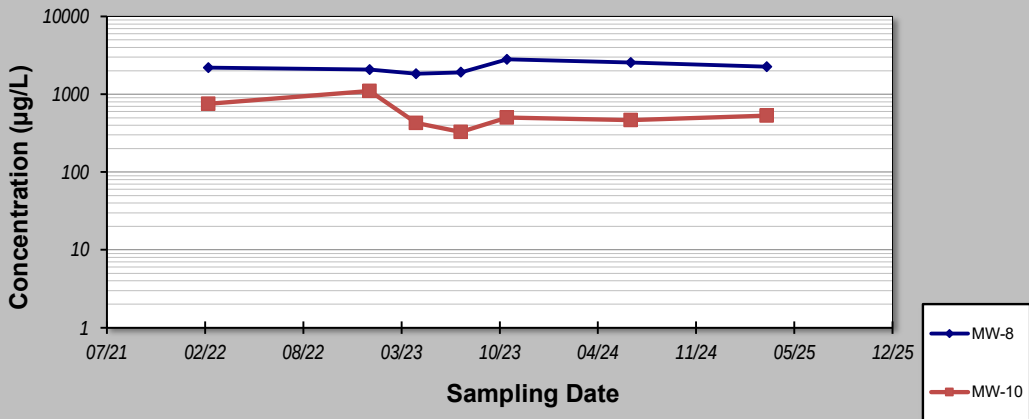
for Constituent Trend Analysis

Evaluation Date: **9-Apr-25**
 Facility Name: **Jake Huggins DBA Outpost @ Willowcreek**
 Conducted By: **Jeff Coleman**

Job ID: **UST#03423**
 Constituent: **ETHYLBENZENE**
 Concentration Units: **µg/L**

Sampling Point ID: **MW-8** **MW-10**

Sampling Event	Sampling Date	ETHYLBENZENE CONCENTRATION (µg/L)					
1	15-Feb-22	2200	753				
2	9-Jan-23	2080	1100				
3	14-Apr-23	1840	428				
4	14-Jul-23	1920	329				
5	16-Oct-23	2810	503				
6	24-Jun-24	2570	465				
7	28-Mar-25	2260	533				
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20							
Coefficient of Variation:		0.16	0.44				
Mann-Kendall Statistic (S):		5	-3				
Confidence Factor:		71.9%	61.4%				
Concentration Trend:		No Trend	Stable				



Notes:

- At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
- Confidence in Trend = Confidence (in percent) that constituent concentration is increasing ($S > 0$) or decreasing ($S < 0$): $> 95\%$ = Increasing or Decreasing; $\geq 90\%$ = Probably Increasing or Probably Decreasing; $< 90\%$ and $S > 0$ = No Trend; $< 90\%$, $S \leq 0$, and $COV \geq 1$ = No Trend; $< 90\%$ and $COV < 1$ = Stable.
- Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.

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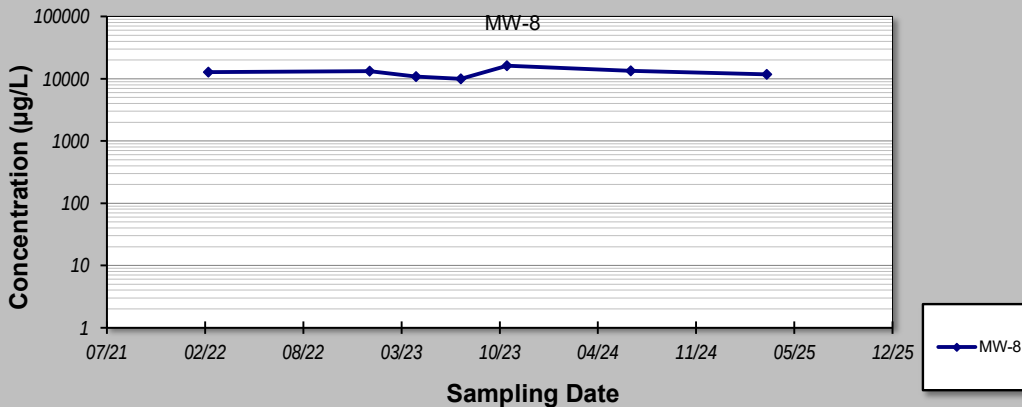
for Constituent Trend Analysis

Evaluation Date: **9-Apr-25**
 Facility Name: **Jake Huggins DBA Outpost @ Willowcreek**
 Conducted By: **Jeff Coleman**

Job ID: **UST#03423**
 Constituent: **XYLENES**
 Concentration Units: **µg/L**

Sampling Point ID: **MW-8**

Sampling Event	Sampling Date	XYLENES CONCENTRATION (µg/L)					
1	15-Feb-22	12800					
2	9-Jan-23	13300					
3	14-Apr-23	10800					
4	14-Jul-23	10000					
5	16-Oct-23	16200					
6	24-Jun-24	13400					
7	28-Mar-25	11800					
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20							
Coefficient of Variation:		0.16					
Mann-Kendall Statistic (S):		1					
Confidence Factor:		50.0%					
Concentration Trend:		No Trend					



Notes:

- At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
- Confidence in Trend = Confidence (in percent) that constituent concentration is increasing ($S > 0$) or decreasing ($S < 0$): $> 95\%$ = Increasing or Decreasing; $\geq 90\%$ = Probably Increasing or Probably Decreasing; $< 90\%$ and $S > 0$ = No Trend; $< 90\%$, $S \leq 0$, and $COV \geq 1$ = No Trend; $< 90\%$ and $COV < 1$ = Stable.
- Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.

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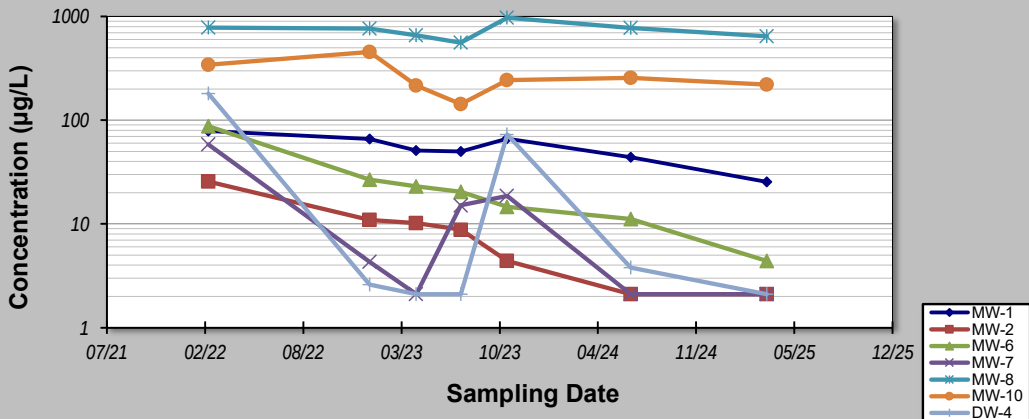
for Constituent Trend Analysis

Evaluation Date: **9-Apr-25**
 Facility Name: **Jake Huggins DBA Outpost @ Willowcreek**
 Conducted By: **Jeff Coleman**

Job ID: **UST#03423**
 Constituent: **NAPHTHALENE**
 Concentration Units: **µg/L**

Sampling Point ID: **MW-1 MW-2 MW-6 MW-7 MW-8 MW-10 DW-4**

Sampling Event	Sampling Date	NAPHTHALENE CONCENTRATION (µg/L)						
1	15-Feb-22	78.7	25.7	87.5	58.3	781	342	181
2	9-Jan-23	66	10.9	26.7	4.3	766	455	2.6
3	14-Apr-23	51.1	10.2	23	2.1	661	216	2.1
4	14-Jul-23	49.9	8.8	20.4	15.1	558	143	2.1
5	16-Oct-23	66.5	4.4	14.6	18.6	975	244	72.7
6	24-Jun-24	44	2.1	11.2	2.1	778	256	3.8
7	28-Mar-25	25.4	2.1	4.4	2.1	646	221	2.1
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20								
Coefficient of Variation:		0.32	0.89	1.04	1.39	0.18	0.38	1.79
Mann-Kendall Statistic (S):		-15	-20	-21	-8	-5	-5	-6
Confidence Factor:		98.5%	100.0%	100.0%	84.5%	71.9%	71.9%	76.4%
Concentration Trend:		Decreasing	Decreasing	Decreasing	No Trend	Stable	Stable	No Trend



Notes:

- At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
- Confidence in Trend = Confidence (in percent) that constituent concentration is increasing ($S > 0$) or decreasing ($S < 0$): $> 95\%$ = Increasing or Decreasing; $\geq 90\%$ = Probably Increasing or Probably Decreasing; $< 90\%$ and $S > 0$ = No Trend; $< 90\%$, $S \leq 0$, and $COV \geq 1$ = No Trend; $< 90\%$ and $COV < 1$ = Stable.
- Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.

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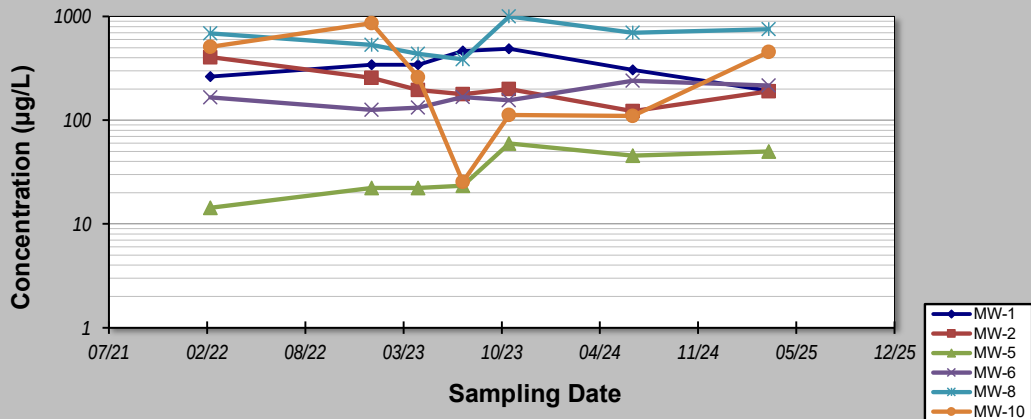
for Constituent Trend Analysis

Evaluation Date: **9-Apr-25**
 Facility Name: **Jake Huggins DBA Outpost @ Willowcreek**
 Conducted By: **Jeff Coleman**

Job ID: **UST#03423**
 Constituent: **MTBE**
 Concentration Units: **µg/L**

Sampling Point ID: **MW-1** **MW-2** **MW-5** **MW-6** **MW-8** **MW-10**

Sampling Event	Sampling Date	MTBE CONCENTRATION (µg/L)						
1	15-Feb-22	264	405	14.3	166	690	510	
2	9-Jan-23	342	256	22.2	126	531	865	
3	14-Apr-23	343	195	22.3	132	435	260	
4	14-Jul-23	465	178	23.4	167	388	25.4	
5	16-Oct-23	488	200	59.5	156	1000	112	
6	24-Jun-24	306	122	45.6	241	696	110	
7	28-Mar-25	193	190	50.1	216	756	457	
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20								
Coefficient of Variation:		0.31	0.41	0.51	0.25	0.33	0.89	
Mann-Kendall Statistic (S):		1	-13	17	11	5	-7	
Confidence Factor:		50.0%	96.5%	99.5%	93.2%	71.9%	80.9%	
Concentration Trend:		No Trend	Decreasing	Increasing	Prob. Increasing	No Trend	Stable	



Notes:

- At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
- Confidence in Trend = Confidence (in percent) that constituent concentration is increasing ($S > 0$) or decreasing ($S < 0$): $> 95\%$ = Increasing or Decreasing; $\geq 90\%$ = Probably Increasing or Probably Decreasing; $< 90\%$ and $S > 0$ = No Trend; $< 90\%$, $S \leq 0$, and $COV \geq 1$ = No Trend; $< 90\%$ and $COV < 1$ = Stable.
- Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.

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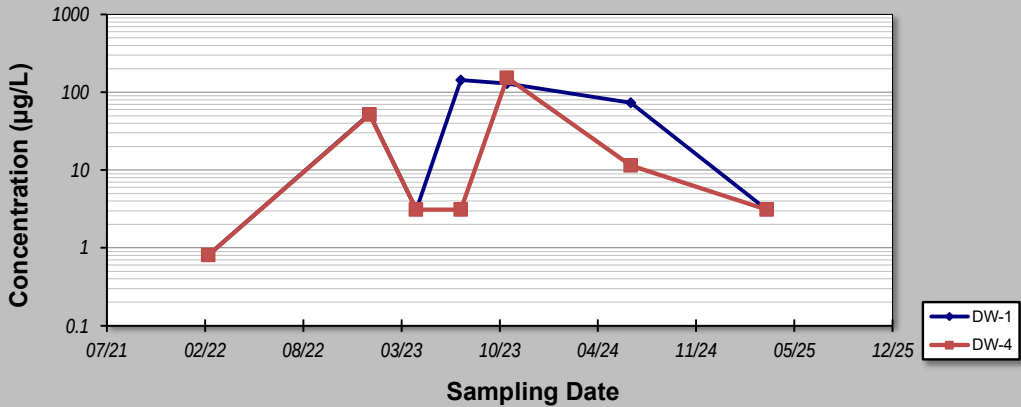
for Constituent Trend Analysis

Evaluation Date: **9-Apr-25**
 Facility Name: **Jake Huggins DBA Outpost @ Willowcreek**
 Conducted By: **Jeff Coleman**

Job ID: **UST#03423**
 Constituent: **MTBE**
 Concentration Units: **µg/L**

Sampling Point ID: **DW-1** **DW-4**

Sampling Event	Sampling Date	MTBE CONCENTRATION (µg/L)							
1	15-Feb-22	0.81	0.81						
2	9-Jan-23	52.9	51.8						
3	14-Apr-23	3.1	3.1						
4	14-Jul-23	144	3.1						
5	16-Oct-23	129	153						
6	24-Jun-24	73.2	11.5						
7	28-Mar-25	3.1	3.1						
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20									
Coefficient of Variation:		1.04	1.74						
Mann-Kendall Statistic (S):		4	4						
Confidence Factor:		66.7%	66.7%						
Concentration Trend:		No Trend	No Trend						



Notes:

- At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
- Confidence in Trend = Confidence (in percent) that constituent concentration is increasing ($S > 0$) or decreasing ($S < 0$): $> 95\%$ = Increasing or Decreasing; $\geq 90\%$ = Probably Increasing or Probably Decreasing; $< 90\%$ and $S > 0$ = No Trend; $< 90\%$, $S \leq 0$, and $COV \geq 1$ = No Trend; $< 90\%$ and $COV < 1$ = Stable.
- Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.

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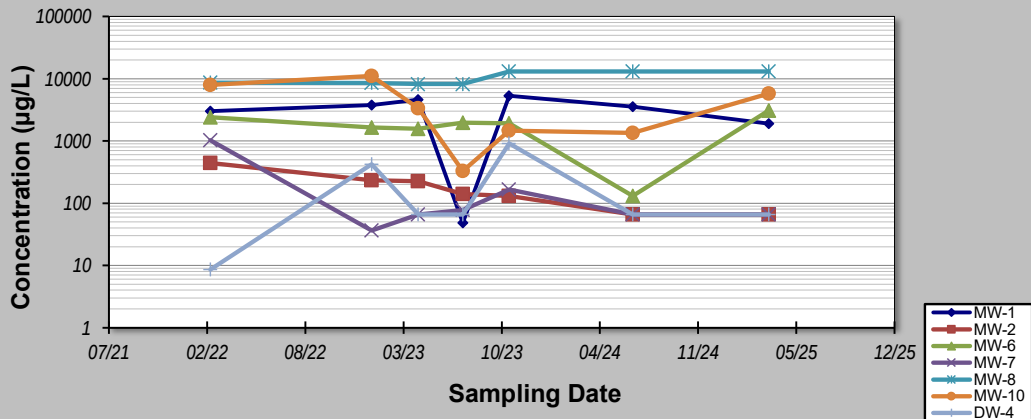
for Constituent Trend Analysis

Evaluation Date: **9-Apr-25**
 Facility Name: **Jake Huggins DBA Outpost @ Willowcreek**
 Conducted By: **Jeff Coleman**

Job ID: **UST#03423**
 Constituent: **TAA**
 Concentration Units: **µg/L**

Sampling Point ID: **MW-1** **MW-2** **MW-6** **MW-7** **MW-8** **MW-10** **DW-4**

Sampling Event	Sampling Date	TAA CONCENTRATION (µg/L)						
1	15-Feb-22	3030	442	2410	1030	8690	7950	8.6
2	9-Jan-23	3770	233	1640	36.4	8510	11100	422
3	14-Apr-23	4640	225	1570	65.6	8200	3350	65.6
4	14-Jul-23	48.3	141	1960	77.7	8200	328	65.6
5	16-Oct-23	5340	131	1930	166	13100	1460	913
6	24-Jun-24	3560	65.6	131	65.6	13100	1350	65.6
7	28-Mar-25	1900	65.6	3080	65.6	13100	5750	65.6
8								
9								
10								
11								
12								
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19								
20								
Coefficient of Variation:		0.56	0.70	0.50	1.68	0.24	0.89	1.45
Mann-Kendall Statistic (S):		-1	-20	-1	-2	7	-7	3
Confidence Factor:		50.0%	100.0%	50.0%	55.7%	80.9%	80.9%	61.4%
Concentration Trend:		Stable	Decreasing	Stable	No Trend	No Trend	Stable	No Trend



Notes:

- At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
- Confidence in Trend = Confidence (in percent) that constituent concentration is increasing ($S > 0$) or decreasing ($S < 0$): $> 95\%$ = Increasing or Decreasing; $\geq 90\%$ = Probably Increasing or Probably Decreasing; $< 90\%$ and $S > 0$ = No Trend; $< 90\%$, $S \leq 0$, and $COV \geq 1$ = No Trend; $< 90\%$ and $COV < 1$ = Stable.
- Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.

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GSI MANN-KENDALL TOOLKIT

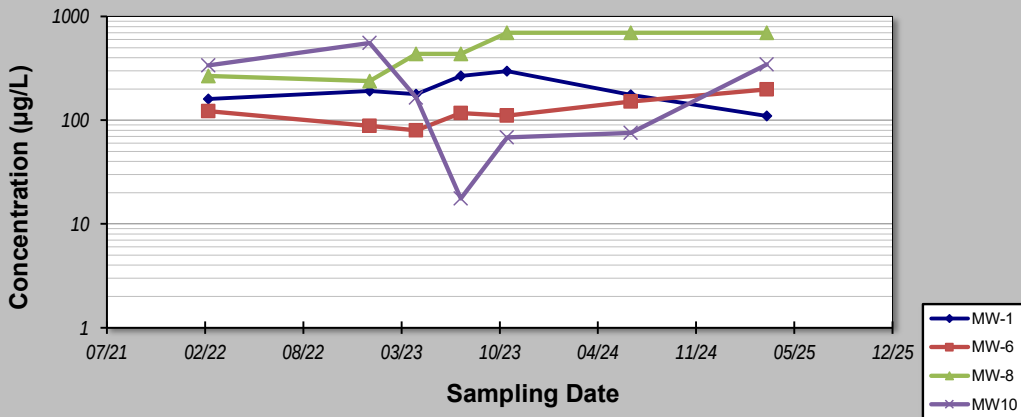
for Constituent Trend Analysis

Evaluation Date: **9-Apr-25**
 Facility Name: **Jake Huggins DBA Outpost @ Willowcreek**
 Conducted By: **Jeff Coleman**

Job ID: **UST#03423**
 Constituent: **DIPE**
 Concentration Units: **µg/L**

Sampling Point ID: **MW-1** **MW-6** **MW-8** **MW10**

Sampling Event	Sampling Date	DIPE CONCENTRATION (µg/L)							
1	15-Feb-22	160	122	268	339				
2	9-Jan-23	191	88.1	239	555				
3	14-Apr-23	178	80.1	436	165				
4	14-Jul-23	268	117	436	17.6				
5	16-Oct-23	297	111	698	68.1				
6	24-Jun-24	176	151	698	75.3				
7	28-Mar-25	110	199	698	346				
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
Coefficient of Variation:		0.33	0.33	0.41	0.88				
Mann-Kendall Statistic (S):		-1	9	15	-3				
Confidence Factor:		50.0%	88.1%	98.5%	61.4%				
Concentration Trend:		Stable	No Trend	Increasing	Stable				

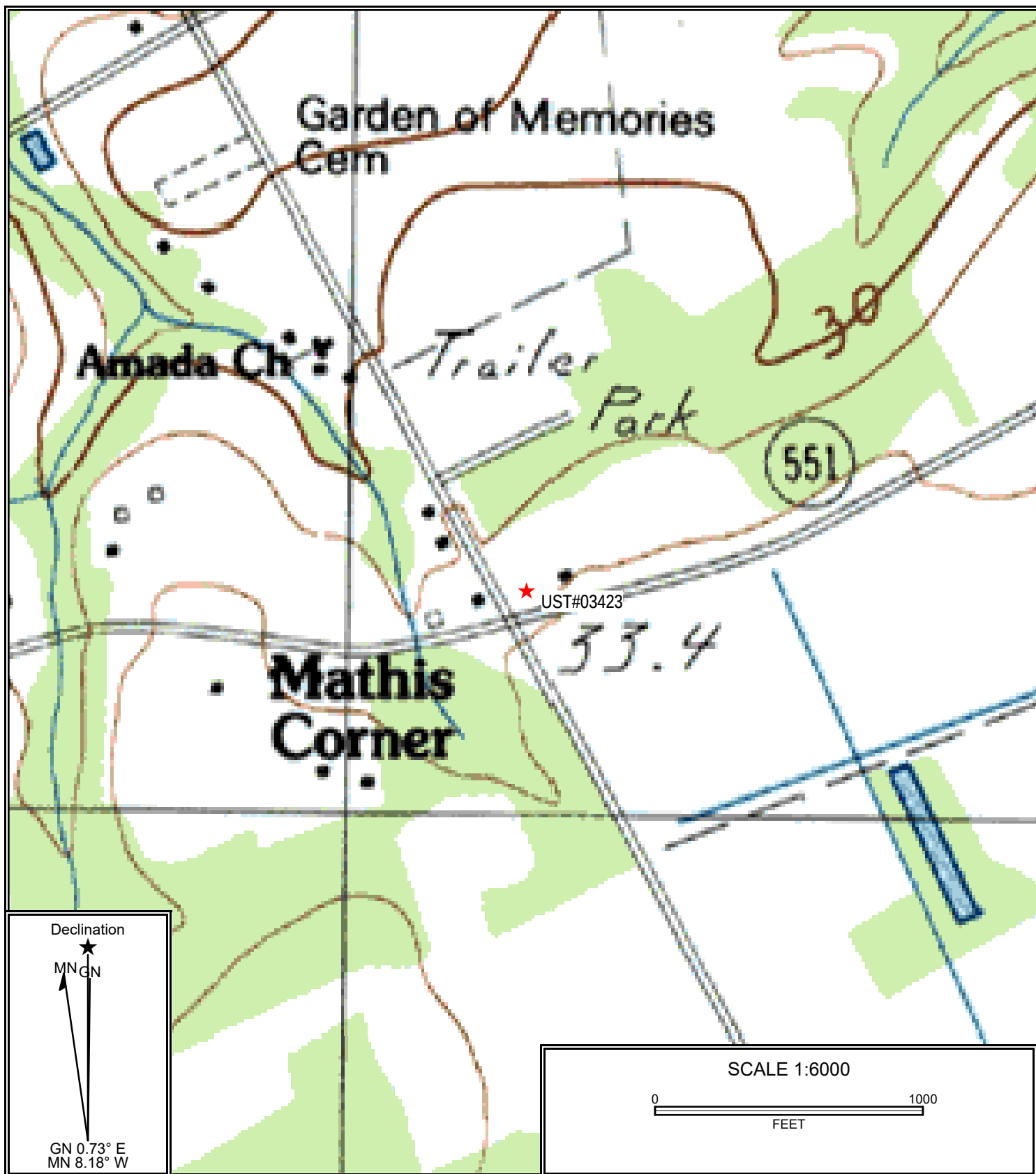


Notes:

- At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
- Confidence in Trend = Confidence (in percent) that constituent concentration is increasing ($S > 0$) or decreasing ($S < 0$): $> 95\%$ = Increasing or Decreasing; $\geq 90\%$ = Probably Increasing or Probably Decreasing; $< 90\%$ and $S > 0$ = No Trend; $< 90\%$, $S \leq 0$, and $COV \geq 1$ = No Trend; $< 90\%$ and $COV < 1$ = Stable.
- Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.

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SC DEPARTMENT of
**ENVIRONMENTAL
SERVICES**

Robert A. Dunn
Corrective Action & Field Support Section
Underground Storage Tank Management Division
2600 Bull Street
Columbia, SC 29201

B W STOKES OIL CO INC
ATTN MR BENNIE STOKES
PO BOX 1656
FLORENCE SC 29503

MAY 20 2025



Re: Groundwater Monitoring Report Review & Site-Specific Work Plan Request for Groundwater Sampling
Jake Huggins Dba Outpost At Willowcreek; 4925 Pamplico Hwy., Florence, SC
UST Permit #03423
Release reported February 26, 2002
Report of Groundwater Monitoring received April 23, 2025
Florence County

Dear Mr. Stokes:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Environmental Services (SCDES) has reviewed the referenced report, and the following comments are provided:

1) Monitoring wells MW01, MW02, MW05, MW06, MW08, and MW10 are above Risk-Based Screening Levels (RBSLs) for Benzene, Toluene, Ethylbenzene, Xylenes, Naphthalene, MtBE, TAA, and DIPE. The highest concentrations of petroleum Chemicals of Concern (CoC) were found in MW08. An increasing trend was noted in downgradient monitoring wells MW05 and MW06, otherwise the CoC plume appears stable.

2) There were no CoC detections in any receptor. WSW03 is out of service and not in use.

3) SCDES is working to establish Site-Specific Target Levels (SSTLs) for the referenced release.

To monitor what risk the referenced release may pose to public health and the environment, and in accordance with South Carolina UST Control Regulations (R. 61-92 § 280.65), sampling of all existing monitoring wells plus all water supply wells and surface water bodies within 1,000 feet of the referenced facility as outlined in the most recent revision of the UST Management Division Quality Assurance Program Plan and your contractor's Annual Contractor Quality Assurance Plan (ACQAP) is necessary. The groundwater sampling event must be conducted in compliance with all applicable regulations once the Site-Specific Work Plan (SSWP) is approved. **Your contractor must complete and submit the SSWP on or before August 29, 2025. Please note that approval from SCDES must be issued before work begins.**

On all correspondence regarding this site, please reference the UST Permit number. Should you have any questions, please contact me by email robert.dunn@des.sc.gov or phone (803) 898-0671.

Sincerely,

Robert A. Dunn
Hydrogeologist III

Cc: Midlands Environmental Consultants, PO Box 854, Lexington, SC 29071
Technical File



May 28, 2025

Mr. Robert A. Dunn, Hydrogeologist
Corrective Action Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management
South Carolina Department of Environmental Services
2600 Bull Street
Columbia, South Carolina 29201

RECEIVED
MAY 30 2025
UST DIVISION

Subject: Site-Specific Work Plan
Jake Huggins DBA Outpost at Willowcreek
Florence, South Carolina
UST Permit# 03423
Certified Site Rehabilitation Contractor UCC-0009

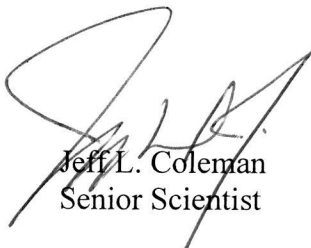


Dear Mr. Dunn,

Midlands Environmental Consultants Inc. (MECI) is pleased to submit the attached Site-Specific Work Plan for the referenced site. MECI is making this proposal to collect current analytical data to evaluate the groundwater quality beneath the site.

If you have any question or comments, please feel free to contact us at 803-808-2043.

Sincerely,
Midlands Environmental Consultants, Inc.



Jeff L. Coleman
Senior Scientist



**Site-Specific Work Plan for Approved ACQAP
Underground Storage Tank Management Division**

To: Mr. Robert Dunn (SCDHEC Project Manager)
From: Jeff L. Coleman (Contractor Project Manager)
Contractor: Midlands Environmental Consultants, Inc. UST Contractor Certification Number: 009

Facility Name: Jake Huggins DBA Outpost at Willowcreek, LLC. UST Permit #: 03423
Facility Address: 4925 Pamplico Highway, Florence, SC 29505
Responsible Party: BW Stokes Oil Company Phone: (843) 621-5865
RP Address: 1001 Chase Street, Florence, SC 29501
Property Owner (if different): Barbara Williams
Property Owner Address: 3309 Willow Creek Road, Florence, SC 29505
Current Use of Property: Vacant Lot/Residence

Scope of Work (Please check all that apply)

☐ IGWA ☐ Tier II ☒ Groundwater Sampling ☐ GAC
☐ Tier I ☐ Monitoring Well Installation ☐ Other _____

Analyses (Please check all that apply)

Groundwater/Surface Water:

☒ BTEXNMDCA (8260D)	☐ Lead	☐ BOD	☐ Methane
☒ Oxygenates (8260D)	☐ 8 RCRA Metals	☐ Nitrate	☐ Ethanol
☒ EDB (8011)	☐ TPH	☐ Sulfate	☐ Dissolved Iron
☐ PAH (8270E)	☐ pH	☐ Other _____	

Drinking Water Supply Wells:

☒ BTEXNMDCA (524.2)	☐ Mercury (200.8 245.1 or 245.2)	☒ EDB (504.1)
☒ Oxygenates & Ethanol (8260D)	☐ RCRA Metals (200.8)	

Soil:

☐ BTEXNM	☐ Lead	☐ RCRA Metals	☐ TPH-DRO (3550B/8015B)	☐ Grain Size
☐ PAH	☐ Oil & Grease (9071)	☐ TPH-GRO (5030B/8015B)	☐ TOC	

Air:

☐ BTEXN

Sample Collection (Estimate the number of samples of each matrix that are expected to be collected.)

_____ Soil	_____ 3 _____ Water Supply Wells	_____ Air	_____ 2 _____ Field Blank
_____ 14 _____ Monitoring Wells	_____ 6 _____ Surface Water	_____ 2 _____ Duplicate	_____ 2 _____ Trip Blank

Field Screening Methodology

Estimate number and total completed depth for each point, and include their proposed locations on the attached map.

of shallow points proposed: _____ Estimated Footage: _____ feet per point

of deep points proposed: _____ Estimated Footage: _____ feet per point

Field Screening Methodology: _____

Permanent Monitoring Wells

Estimate number and total completed depth for each well, and include their proposed locations on the attached map.

of shallow wells: _____ Estimated Footage: _____ feet per point

of deep wells: _____ Estimated Footage: _____ feet per point

of recovery wells: _____ Estimated Footage: _____ feet per point

Comments, if warranted:

UST Permit #: 03423 Facility Name: Jake Huggins DBA Outpost at Willowcreek

Implementation Schedule (Number of calendar days from approval)

Field Work Start-Up: 6/28/2025 Field Work Completion: 8/28/2025

Report Submittal: 9/28/2025 # of Copies Provided to Property Owners: _____

Aquifer Characterization

Pump Test: ☐ Slug Test: ☐ (Check one and provide explanation below for choice)

Investigation Derived Waste Disposal

Soil: _____ Tons Purge Water: 200.0 Gallons

Drilling Fluids: _____ Gallons Free-Phase Product: _____ Gallons

Additional Details For This Scope of Work

For example, list wells to be sampled, wells to be abandoned/repared, well pads/bolts/caps to replace, details of AFVR event, etc.

-MECI proposes conducting a groundwater sampling event to collect current analytical data to evaluate the groundwater quality beneath the site.

-MECI proposes purging all wells prior to collecting samples.

-MECI will attempt to sample 3 water supply wells and 6 surface water locations.

Compliance With Annual Contractor Quality Assurance Plan (ACQAP)

Yes Laboratory as indicated in ACQAP? (Yes/No) If no, indicate laboratory information below.

Name of Laboratory: _____

SCDHEC Certification Number: _____

Name of Laboratory Director: _____

N/A Well Driller as indicated in ACQAP? (Yes/No) If no, indicate driller information below.

Name of Well Driller: _____

SCLLR Certification Number: _____

N/A Other variations from ACQAP. Please describe below.

Attachments

1. Attach a copy of the relevant portion of the USGS topographic map showing the site location.
2. Prepare a site base map. This map must be accurately scaled, but does not need to be surveyed. The map must include the following:

North Arrow	Proposed monitoring well locations
Location of property lines	Legend with facility name and address, UST permit number, and bar scale
Location of buildings	Streets or highways (indicate names and numbers)
Previous soil sampling locations	Location of all present and former ASTs and USTs
Previous monitoring well locations	Location of all potential receptors
Proposed soil boring locations	
3. Assessment Component Cost Agreement, SCDHEC Form D-3664



ASSESSMENT COMPONENT COST AGREEMENT
 South Carolina Department of Health and Environmental Control
 Underground Storage Tank Management Division
 State Underground Petroleum Environmental Response Bank Account
 August 9, 2023

Facility Name: Jake Huggins DBA Outpost @ Willowcreek, LLC.

UST Permit #: 03423

Cost Agreement #: Proposal

ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL
A. Plan Preparation				
1.2 Site-specific Work Plan	1	each	\$183.22	\$183.22
2.2 Tax Map		each	\$85.50	\$0.00
3.2 QAPP Contractor Addendum (App B)		each	\$250.00	\$0.00
B. Survey				
1.1 Receptor Survey		each	\$673.06	\$0.00
C. Survey				
1.2 Comprehensive Survey		each	\$1,270.36	\$0.00
5.1 Ground Penetrating Radar Survey (100 x 100)		each	\$1,111.57	\$0.00
D. Mob/Demob				
1.2 Equipment		each	\$1,245.93	\$0.00
2.2 Personnel	2	each	\$516.69	\$1,033.38
3.2 Adverse Terrain Vehicle		each	\$610.75	\$0.00
E. Soil Borings				
1.1 Soil Borings (hand auger)		foot	\$21.80	\$0.00
F. Soil Borings (requiring equipment, push technology, etc) or Field Screening (including sampling and analyst)				
1.2 Standard		per foot	\$33.50	\$0.00
2.2 Fractured Rock		per foot	\$41.40	\$0.00
G.				
H. Well Abandonment				
1.2 2" diameter or less		per foot	\$3.79	\$0.00
2.2 Greater than 2" to 6" diameter		per foot	\$5.50	\$0.00
3.2 Dug/Bored well (up to 6 feet diameter)		per foot	\$18.32	\$0.00
I. Well Installation (In accordance with R.61-71)				
1.2 Water Table (hand augered)		per foot	\$31.40	\$0.00
2.B Water Table (drill rig) 2" Diameter		per foot	\$54.90	\$0.00
2.2 Single-cased 2" Diameter Monitoring Well >50ft		per foot	\$59.80	\$0.00
3.2 Telescoping		per foot	\$84.70	\$0.00
4.2 Rock Drilling		per foot	\$81.80	\$0.00
5.2 2" Rock Coring		per foot	\$88.50	\$0.00
6.2 Multi-sampling ports/screens		per foot	\$59.40	\$0.00
7.2 Recovery Well (4" diameter)		per foot	\$69.60	\$0.00
9.2 Rotosonic (2" diameter)		per foot	\$119.00	\$0.00
10.2 Re-develop Existing Well		per foot	\$13.44	\$0.00

J. Groundwater Sample Collection / Gauging Depth to Water/Product					
1.2 Groundwater Purge	14	per well	\$73.29		\$1,026.06
2.2 Air or Vapors		sample	\$14.66		\$0.00
3.2 Water Supply Sample	3	sample	\$26.87		\$80.61
4.1A HydraSleeve		sample	\$34.20		\$0.00
4.2B No-purge Groundwater Sample/Surface water	6	sample	\$57.24		\$343.44
5.2 Gauge Well only		sample	\$8.55		\$0.00
6.2 Sample Below Product		sample	\$14.66		\$0.00
7.2 Passive Diffusion Bag		sample	\$31.75		\$0.00
8.2 Field Duplicates (MWs & WSWs) and Field Bla	4	sample	\$30.06		\$120.24
9.2 Groundwater (low flow purge)		sample	\$111.16		\$0.00
10.2 Equipment Blank		sample	\$30.06		\$0.00
11.1 Sample Product		per well	\$52.66		\$0.00
K. Laboratory Analyses-Groundwater					
1.2 BTEXNM+Oxyg's+1,2 DCA+Eth(8260D)	22	per sample	\$149.02		\$3,278.44
2.2 Lead, Filtered		per sample	\$16.85		\$0.00
3.2 Rush EPA Method 8260B		per sample	\$187.62		\$0.00
4.2 Trimethal, Butyl, and Isopropyl Benzenes		per sample	\$34.20		\$0.00
5.2 PAH's		per sample	\$74.02		\$0.00
6.2 Lead		per sample	\$19.54		\$0.00
7.2 EDB by EPA 8011	21	per sample	\$55.21		\$1,159.41
8.2 EDB by EPA Method 8011 Rush		per sample	\$83.31		\$0.00
9.2 8 RCRA Metals		per sample	\$77.45		\$0.00
10.2 TPH (9070)		per sample	\$50.09		\$0.00
11.2 PH		per sample	\$6.35		\$0.00
12.2 BOD		per sample	\$24.42		\$0.00
13.2 Ethanol		per sample	\$18.08		\$0.00
K. Analyses-Drinking Water					
14.2 BTEXNM+1,2 DCA (524.2)	6	per sample	\$151.52		\$909.12
15.2 7-OXYGENATES & ETHANOL (8260D)	6	per sample	\$112.07		\$672.42
16.2 EDB (504.1)	5	per sample	\$97.11		\$485.55
17.2 RCRA METALS (200.8)		per sample	\$122.15		\$0.00
K. Analyses-Soil					
18.2 BTEX + Naphth.		per sample	\$78.18		\$0.00
19.2 PAH's		per sample	\$78.22		\$0.00
20.2 8 RCRA Metals		per sample	\$68.89		\$0.00
21.2 TPH-DRO (3550C/8015C)		per sample	\$48.86		\$0.00
22.2 TPH-GRO (5035B/8015C)		per sample	\$43.92		\$0.00
23.2 Grain size/hydrometer		per sample	\$127.04		\$0.00
24.2 Total Organic Carbon		per sample	\$37.38		\$0.00

K. Analyses-Air					
25.2 BTEX + Naphthalene		per sample	\$263.84		\$0.00
K. Hydrocarbon Fuel Identification					
27.1 C3-C44 Whole Oil (ASTM D3328)		per sample	\$465.93		\$0.00
28.1 Fuel Oxygenates (1624 Mod)		per sample	\$398.39		\$0.00
29.1 ALKYL Leads, EDB MMT (8080)		per sample	\$398.39		\$0.00
30.1 C8-C40 Full Scan (ASTM 5739)		per sample	\$629.64		\$0.00
31.1 Simulated Distillation (ASTM 2887)		per sample	\$398.39		\$0.00
32.1 Parent & Alk. PAH Com. (8270 SIM)		per sample	\$723.63		\$0.00
33.1 C3-C10 Piano (8260 MOD)		per sample	\$599.88		\$0.00
34.1 C10+Alkane Fingerprints		per sample	\$599.88		\$0.00
35.1 Expert Data Interpretation & Report		each	\$595.30		\$0.00
L. Aquifer Characterization					
1.2 Pumping Test		per hour	\$28.09		\$0.00
2.2 Slug Test		per test	\$233.31		\$0.00
3.2 Fractured Rock		per test	\$122.15		\$0.00
M. Free Product					
1.1 Free Product Recovery Rate Test		each	\$46.42		\$0.00
N.					
O. Risk Evaluation					
1.2 Tier I Risk Evaluation		each	\$366.45		\$0.00
2.2 Tier II Risk Evaluation		each	\$122.15		\$0.00
P. Survey					
1.1 Subsequent Survey		each	\$297.65		\$0.00
Q. Disposal (gallons or tons)					
1.2 Wastewater	200	gallon	\$1.19		\$238.00
2.2 Free Product		gallon	\$1.63		\$0.00
3.2 Soil Treatment/Disposal		ton	\$156.25		\$0.00
4.2 Drilling fluids		gallon	\$1.25		\$0.00
R. Miscellaneous (attach receipts)					
		each	\$0.00		\$0.00
		each	\$0.00		\$0.00
		each	\$0.00		\$0.00
T. Tier I Assessment (Use DHEC 3665 form)					
1.2 Southeast Region		standard	\$12,622.56		\$0.00
2.2 All Other Counties		standard	\$13,844.06		\$0.00
U. IGWA (Use DHEC 3666 form)					
1.2 Southeast Region		standard	\$4,353.67		\$0.00
2.2 All Other Counties		standard	\$4,720.01		\$0.00
22. Active Correction Action					
		PFP	Bid Cost		\$0.00

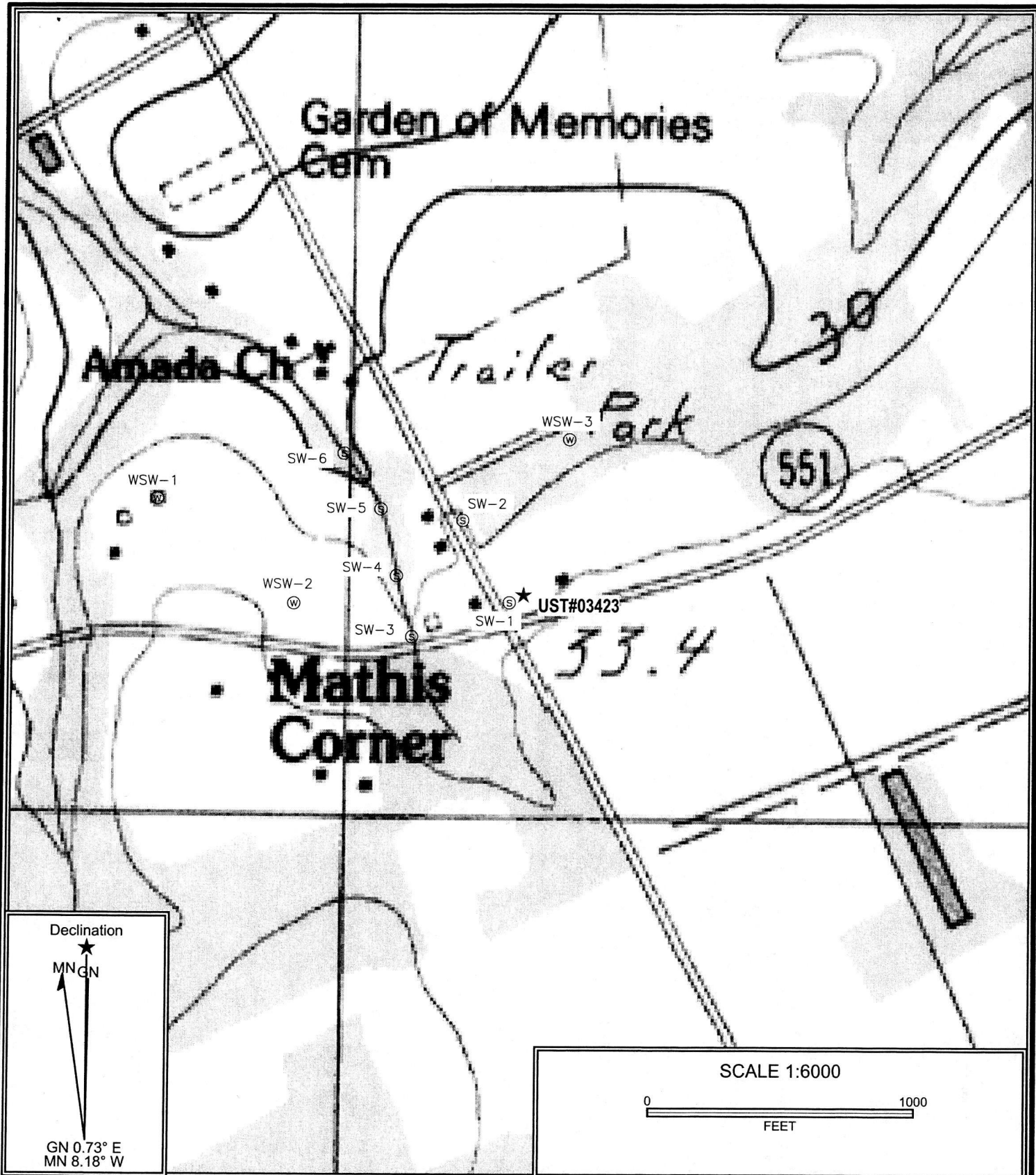
W. Aggressive Fluid & Vapor Recovery (AFVR)

1.2 8-hour Event		per event	\$1,787.40	\$0.00
2.1 24-hour Event		per event	\$4,407.78	\$0.00
3.1 48-hour Event		per event	\$7,242.29	\$0.00
4.1 96-hour Event		per event	\$14,482.28	\$0.00
5.1 Off-gas Treatment 8 hour		per event	\$141.17	\$0.00
6.2 Off-gas Treatment 24 hour		per event	\$294.30	\$0.00
7.2 Off-gas Treatment 48 hour		per event	\$386.10	\$0.00
8.1 Off-gas Treatment 96 hour		per event	\$898.84	\$0.00
9.1 Off-gas Treatment 8 hour (w/chlorinated compounds)		per event	\$464.40	\$0.00
10.1 Off-gas Treatment 24 hour (w/chlorinated compounds)		per event	\$540.00	\$0.00
11.1 Off-gas Treatment 48 hour (w/chlorinated compounds)		per event	\$1,080.00	\$0.00
12.1 Off-gas Treatment 96 hour (w/chlorinated compounds)		per event	\$2,160.00	\$0.00
13.2 AFVR Effluent Disposal(w/chlorinated compounds)		gallon	\$0.64	\$0.00
14.2 AFVR Site Reconnaissance		each	\$302.40	\$0.00
15.1 Additional Hook-ups		each	\$29.68	\$0.00
16.2 AFVR Effluent Disposal		gallon	\$0.53	\$0.00
17.2 AFVR Mobilization/Demobilization		each	\$777.60	\$0.00
18.1 Mobilization for absorbents/skimers		each	\$516.69	\$0.00
19.1 Well sock 2" ID well		each	\$36.94	\$0.00
20.1 Well sock 4" ID well		each	\$49.03	\$0.00
21.1 pad (per pad)		each	\$49.95	\$0.00
22.1 3" diameter x 10' length boom		each	\$108.00	\$0.00
23.1 5" diameter x 10' length boom		each	\$132.84	\$0.00
24.1 New FPP recovery skimmer (2" wells)		each	\$791.10	\$0.00
25.1 New FPP recovery skimmer (4" wells)		each	\$1,247.40	\$0.00
26.1 Refurbished FPP recovery skimmer (2" or 4" wells)		each	\$760.32	\$0.00
27.1 Disposal of Absorbents		pound	\$4.10	\$0.00
28.1 Disposal of product from skimmers		gallon	\$0.50	\$0.00

X. Granulated Activated Carbon (GAC) filter system installation & service:

1.2 New GAC System Installation		each	\$2,320.86	\$0.00
2.2 Refurbished GAC Sys. Install		each	\$1,099.35	\$0.00
3.2 Filter replacement/removal		each	\$427.53	\$0.00
4.2 GAC System removal, cleaning, & refurbishment		each	\$335.92	\$0.00
5.2 GAC System housing		each	\$305.38	\$0.00
6.2 In-line particulate filter		each	\$183.22	\$0.00
7.2 Additional piping & fittings		foot	\$1.84	\$0.00

Y. Well Repair					
1.2 Additional Copies of the Report Delivered		each	\$61.07		\$0.00
2.2 Repair 2x2 MW pad		each	\$61.07		\$0.00
3.2 Repair 4x4 MW pad		each	\$107.49		\$0.00
4.2 Replace well vault		each	\$144.14		\$0.00
5.2 Replace well cover bolts		each	\$3.18		\$0.00
6.2 Replace locking well cap & lock		each	\$18.32		\$0.00
7.2 Replace/Repair stick-up		each	\$163.68		\$0.00
8.2 Convert Flush-mount to Stick-up		each	\$183.22		\$0.00
9.2 Convert Stick-up to Flush-mount		each	\$158.79		\$0.00
10.2 Replace missing/illegible well ID plate		each	\$14.66		\$0.00
11.1 Down-hole Camera		per foot	\$29.25		\$0.00
Z. High Resolution Site Characterization					
1.1 HRSC Screening Equipment Mobilization		each	\$1,468.80		\$0.00
2.1 HRSC Drilling Category 1		per foot	\$31.32		\$0.00
3.1 HRSC Drilling Category 2		per foot	\$36.18		\$0.00
4.1 HRSC Drilling Category 3		per foot	\$29.16		\$0.00
5.1 HRSC 3-D Model		each	\$4,363.20		\$0.00
S. Report Prep & Project Management	12%	percent	\$9,529.89		\$1,143.59
TOTAL					\$10,673.48



Reference: Evergreen, South Carolina
USGS 7.5 Min. Quad
Contour Interval - 2 Meters

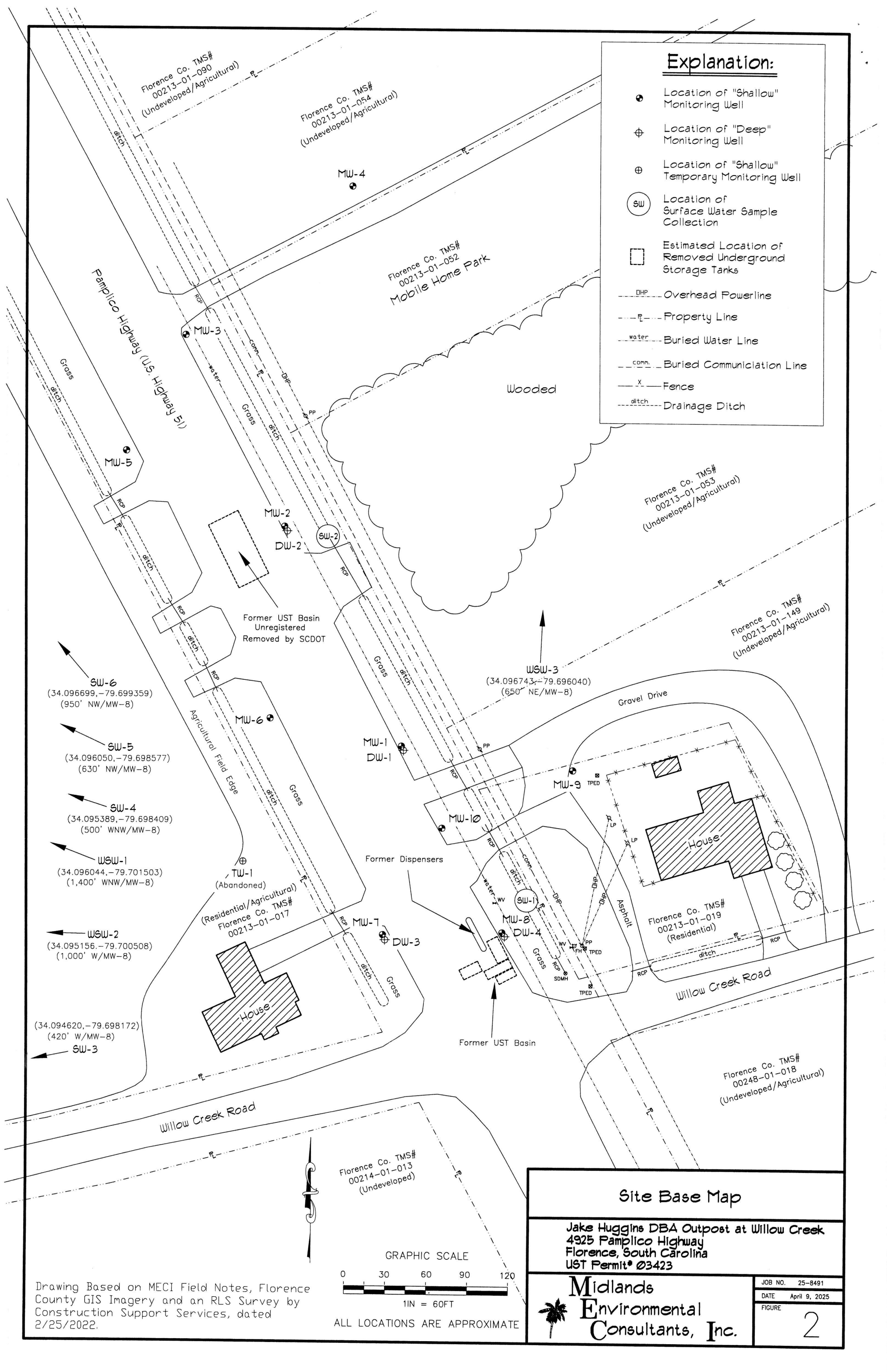
 **Midlands
Environmental
Consultants, Inc.**

Site Location

Jake Huggins DBA Outpost at Willowcreek, LLC.
4925 Pamplico Highway, Florence, SC
UST Permit# 18419

Figure 1

MECI# 25-8491



Explanation:

- Location of "Shallow" Monitoring Well
Location of "Deep" Monitoring Well
Location of "Shallow" Temporary Monitoring Well
Location of Surface Water Sample Collection
Estimated Location of Removed Underground Storage Tanks
Overhead Powerline
Property Line
Buried Water Line
Buried Communication Line
Fence
Drainage Ditch

Site Base Map

Jake Huggins DBA Outpost at Willow Creek
4925 Pamplico Highway
Florence, South Carolina
UST Permit# 03423

Midlands Environmental Consultants, Inc.

JOB NO. 25-8491
DATE April 9, 2025
FIGURE

Drawing Based on MECI Field Notes, Florence County GIS Imagery and an RLS Survey by Construction Support Services, dated 2/25/2022.

GRAPHIC SCALE
0 30 60 90 120
1IN = 60FT
ALL LOCATIONS ARE APPROXIMATE



SC DEPARTMENT of
**ENVIRONMENTAL
SERVICES**

Robert A. Dunn
Corrective Action & Field Support Section
Underground Storage Tank Management Division
2600 Bull Street
Columbia, SC 29201

B W STOKES OIL CO INC
ATTN MR BENNIE STOKES
PO BOX 1656
FLORENCE SC 29503

JUN 25 2025

Re: Site-Specific Work Plan (SSWP) Approval & Groundwater Sampling Notice to Proceed
Jake Huggins Dba Outpost at Willowcreek; 4925 Pamplico Hwy., Florence, SC
UST Permit #03423; CA #70135
Release reported February 26, 2002
Site Specific Work Plan received May 30, 2025
Florence County



Dear Mr. Stokes:

The Underground Storage Tank (UST) Management Division of the S.C. Department of Environmental Services (SCDES) has reviewed and approved the referenced SSWP. All scopes of work should be conducted in compliance with the most recent revision of the UST QAPP, your contractor's ACQAP, the submitted SSWP, and all applicable regulations.

Pursuant to S.C. Code Ann. Section 44-2-40(D), "The SUPERB Account and the SUPERB Financial Responsibility Fund shall provide combined coverage for site rehabilitation and third-party claims, respectively, not to exceed one million dollars per occurrence". According to SCDES records, approximately \$128,347.90 has been expended from the SUPERB account to date. This scope of work, as recommended by your contractor, is anticipated to cost approximately \$10,673.48.

The Monitoring Report and invoice should be submitted within 60 days of the date of this correspondence. If the report cannot be submitted as required, an extension request must be submitted in writing prior to the due date. The Department will issue a Notice of Alleged Violation if the report or an extension request is not submitted by the required due date.

The contractor must provide notification to the UST Project Manager via email 4 days prior to initiation of any site rehabilitation activities. If there are any changes to the schedule, the UST Project Manager must be contacted within 24 hours of those changes.

In accordance with Section IV.A.4.c of the SUPERB Site Rehabilitation & Fund Access Regulation (R.61-98), the contractor shall be required to indemnify the property owner, underground storage tank owner/operator and the State of South Carolina from and against all claims, damages, losses and expenses arising out of or resulting from activity conducted by the contractor, its agents, employees or subcontractors.

Your contractor can submit an invoice for direct payment from the State Underground Petroleum Environmental Response Bank (SUPERB) Account for pre-approved costs. If the invoice is not submitted within 120 days from the date of this letter, monies allocated to pay this invoice will be uncommitted. This means that the invoice will not be processed for payment until all other committed funds are paid or monies become available.

info@des.gov | des.sc.gov | 803.898.3432

Sections 44-2-110(4) and 44-2-130 of the SUPERB Statute state that the SUPERB Account cannot compensate any costs that are not pre-approved. If for any reason additional tasks will be completed, the additional tasks and the associated cost, must be pre-approved by the UST Management Division for the costs to be paid. SCDES reserves the authority to pay only for work properly performed and/or technically justified and will only pay rates in accordance with established criteria. Further, SCDES reserves the right to question and/or reject costs if deemed unreasonable and the right to audit project records at any time during the project or after completion of work. Reimbursement for site rehabilitation activities shall in no event exceed the actual costs incurred as required by SUPERB Site Rehabilitation and Fund Access Regulations (R.61-98 § III.3.b).

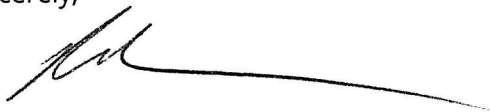
Please note that applicable South Carolina certification requirements regarding laboratory services, well installation, and report preparation must be satisfied. Any site rehabilitation activity associated with the UST release must be performed by a SCDES-certified site rehabilitation contractor as required by the SUPERB Site Rehabilitation and Fund Access Regulation, R.61-98.

SCDES grants pre-approval for transportation of virgin petroleum impacted soil and groundwater from the referenced site to a permitted treatment facility. There can be no spillage or leakage in transport. All Investigation-Derived Waste (IDW) must be properly contained and labeled prior to disposal. IDW should not be stored on-site longer than ninety days. A copy of the disposal manifest and/or acceptance letter from the receiving facility that clearly designates the quantity received must be included as an appendix to the report. If the Chemical of Concern concentrations based on laboratory analysis is below Risk-Based Screening Levels (RBSLs), please contact the Project Manager for approval to dispose of soil and/or groundwater on-site. The SUPERB Account will not reimburse for transportation or treatment of soil and/or groundwater with concentrations below RBSLs.

The contractor will be responsible for keeping and preserving suitable records of hydrological and other site assessments, site plans, contracts, accounts, invoices, or other transactions related to the cleanup and rehabilitation and the records must be accessible to the department during regular business hours. In addition, this includes all subcontractor agreements, invoices, correspondence, plans, reports, records, including electronic and paper formats. All records must be maintained for 10 years after project completion.

On all correspondence regarding this site, please reference the UST Permit number. Should you have any questions please contact me by email dunnra@dhec.sc.gov or phone (803) 898-0671.

Sincerely,



Robert A. Dunn
Hydrogeologist III

Enc: Approved CA

Cc: Midlands Environmental Consultants, PO Box 854, Lexington, SC 29071 (w/ Enc)
Technical file (w/ Enc)

Approved Cost Agreement CA-70135

Facility Name: 03423 - JAKE HUGGINS DBA OUTPOST AT WILLOWCREEK LLC

Facility Number: 03423

PO Number	Description	Comments	Qty / Pct	Unit Price	Amount
70135	A / PLAN PREPARATION / 1.2 / SITE SPECIFIC WORK PLAN		1	\$183.22	\$183.22
70135	D / MOB/DEMOB / 2.2 / PERSONNEL		2	\$516.69	\$1033.38
70135	J / SAMPLE COLLECTION / 1.2 / GROUND WATER PURGE		14	\$73.29	\$1026.06
70135	J / SAMPLE COLLECTION / 3.2 / WATER SUPPLY SAMPLE		3	\$26.87	\$80.61
70135	J / SAMPLE COLLECTION / 4.2B / NO-PURGE GROUNDWATER		6	\$57.24	\$343.44
70135	J / SAMPLE COLLECTION / 8.2 / FIELD DUPL. (MWS & WSW) & FB		4	\$30.06	\$120.24
70135	K / ANALYSES / 1.2 / BTEXNM+OXYGS+1,2 DCA+ETH 8260D		22	\$149.02	\$3278.44
70135	K / ANALYSES / 14.2 / BTEXNM+1,2 DCA (524.2) WSW		6	\$151.52	\$909.12
70135	K / ANALYSES / 15.2 / OXYGENATES & ETHANOL 8260D		6	\$112.07	\$672.42
70135	K / ANALYSES / 16.2 / EDB (504.1)		5	\$97.11	\$485.55
70135	K / ANALYSES / 7.2 / EDB BY EPA 8011		21	\$55.21	\$1159.41
70135	Q / DISPOSAL / 1.2 / WASTEWATER		200	\$1.19	\$238
70135	S / REPORT PROJECT MANAGEMENT / S / REPORT PREP & PROJ. MANAGEMENT		0.12	\$0.12	\$1143.59
					Total : \$10673.48

UST#03423/CA#70135-Addendum

From jlc@meci.net <jlc@meci.net>

Date Mon 7/28/2025 4:20 PM

To Robert A. Dunn <Robert.Dunn@des.sc.gov>

Cc Stephanie M. Briney <Stephanie.Briney@des.sc.gov>

 1 attachment (86 KB)

70135_Addendum.xlsx;



Robert,

Please find the attached addendum for the above referenced site. Let me know if you have any questions or concerns.

Thanks,



Jeff L. Coleman

Senior Scientist/Managing Principal

Midlands Environmental Consultants, Inc.

(office) 803-808-2043 Ext. 2

(cell) 803-446-0365

jlc@meci.net

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.



ASSESSMENT COMPONENT COST AGREEMENT
South Carolina Department of Health and Environmental Control
Underground Storage Tank Management Division
State Underground Petroleum Environmental Response Bank Account
August 9, 2023

Facility Name: Jake Huggins BDA Outposy @ Willowcreek

UST Permit #: 3423

Cost Agreement #: 70135

ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL
A. Plan Preparation				
1.2 Site-specific Work Plan		each	\$183.22	\$0.00
2.2 Tax Map		each	\$85.50	\$0.00
3.2 QAPP Contractor Addendum (App B)		each	\$250.00	\$0.00
B. Survey				
1.1 Receptor Survey		each	\$673.06	\$0.00
C. Survey				
1.2 Comprehensive Survey		each	\$1,270.36	\$0.00
5.1 Ground Penetrating Radar Survey (100 x 100)		each	\$1,111.57	\$0.00
D. Mob/Demob				
1.2 Equipment		each	\$1,245.93	\$0.00
2.2 Personnel	-1	each	\$516.69	(\$516.69)
3.2 Adverse Terrain Vehicle		each	\$610.75	\$0.00
E. Soil Borings				
1.1 Soil Borings (hand auger)		foot	\$21.80	\$0.00
F. Soil Borings (requiring equipment, push technology, etc) or Field Screening (including sampling and analyst)				
1.2 Standard		per foot	\$33.50	\$0.00
2.2 Fractured Rock		per foot	\$41.40	\$0.00
G.				
H. Well Abandonment				
1.2 2" diameter or less		per foot	\$3.79	\$0.00
2.2 Greater than 2" to 6" diameter		per foot	\$5.50	\$0.00
3.2 Dug/Bored well (up to 6 feet diameter)		per foot	\$18.32	\$0.00
I. Well Installation (In accordance with R.61-71)				
1.2 Water Table (hand augered)		per foot	\$31.40	\$0.00
2.B Water Table (drill rig) 2" Diameter		per foot	\$54.90	\$0.00
2.2 Single-cased 2" Diameter Monitoring Well >50ft		per foot	\$59.80	\$0.00
3.2 Telescoping		per foot	\$84.70	\$0.00
4.2 Rock Drilling		per foot	\$81.80	\$0.00
5.2 2" Rock Coring		per foot	\$88.50	\$0.00
6.2 Multi-sampling ports/screens		per foot	\$59.40	\$0.00
7.2 Recovery Well (4" diameter)		per foot	\$69.60	\$0.00
9.2 Rotosonic (2" diameter)		per foot	\$119.00	\$0.00
10.2 Re-develop Existing Well		per foot	\$13.44	\$0.00
J. Groundwater Sample Collection / Gauging Depth to Water/Product				
1.2 Groundwater Purge		per well	\$73.29	\$0.00
2.2 Air or Vapors		sample	\$14.66	\$0.00
3.2 Water Supply Sample	-1	sample	\$26.87	(\$26.87)
4.1A HydraSleeve		sample	\$34.20	\$0.00
4.2B No-purge Groundwater Sample/Surface water	-4	sample	\$57.24	(\$228.96)
5.2 Gauge Well only		sample	\$8.55	\$0.00
6.2 Sample Below Product		sample	\$14.66	\$0.00
7.2 Passive Diffusion Bag		sample	\$31.75	\$0.00
8.2 Field Duplicates (MWs & WSWs) and Field Blanks		sample	\$30.06	\$0.00
9.2 Groundwater (low flow purge)		sample	\$111.16	\$0.00
10.2 Equipment Blank		sample	\$30.06	\$0.00
11.1 Sample Product		per well	\$52.66	\$0.00
K. Laboratory Analyses-Groundwater				
1.2 BTEXNM+Oxyg's+1,2 DCA+Eth(8260D)	-3	per sample	\$149.02	(\$447.06)
2.2 Lead, Filtered		per sample	\$16.85	\$0.00
3.2 Rush EPA Method 8260B		per sample	\$187.62	\$0.00
4.2 Trimethal, Butyl, and Isopropyl Benzenes		per sample	\$34.20	\$0.00
5.2 PAH's		per sample	\$74.02	\$0.00
6.2 Lead		per sample	\$19.54	\$0.00

Addendum

Previously Approved: \$10,673.48

Increase: (\$2,108.02)

New Approved Total: \$8,565.45

Project Manager: _____

Section Manager: _____

Finance: _____

Date: _____

of pages

From: _____

UST/SCDHEC

fax # () _____

Phone # () _____

The SCDHEC reserves the authority to pay only for work properly performed and/or technically justified and will only pay rates in accordance with established criteria.

7.2 EDB by EPA 8011	-3	per sample	\$55.21	(\$165.63)
8.2 EDB by EPA Method 8011 Rush		per sample	\$83.31	\$0.00
9.2 8 RCRA Metals		per sample	\$77.45	\$0.00
10.2 TPH (9070)		per sample	\$50.09	\$0.00
11.2 PH		per sample	\$6.35	\$0.00
12.2 BOD		per sample	\$24.42	\$0.00
13.2 Ethanol		per sample	\$18.08	\$0.00
K. Analyses-Drinking Water				
14.2 BTEXNM+1,2 DCA (524.2)	-1	per sample	\$151.52	(\$151.52)
15.2 7-OXYGENATES & ETHANOL (8260D)	-1	per sample	\$112.07	(\$112.07)
16.2 EDB (504.1)	-1	per sample	\$97.11	(\$97.11)
17.2 RCRA METALS (200.8)		per sample	\$122.15	\$0.00
K. Analyses-Soil				
18.2 BTEX + Naphth.		per sample	\$78.18	\$0.00
19.2 PAH's		per sample	\$78.22	\$0.00
20.2 8 RCRA Metals		per sample	\$68.89	\$0.00
21.2 TPH-DRO (3550C/8015C)		per sample	\$48.86	\$0.00
22.2 TPH-GRO (5035B/8015C)		per sample	\$43.92	\$0.00
23.2 Grain size/hydrometer		per sample	\$127.04	\$0.00
24.2 Total Organic Carbon		per sample	\$37.38	\$0.00
K. Analyses-Air				
25.2 BTEX + Naphthalene		per sample	\$263.84	\$0.00
K. Hydrocarbon Fuel Identification				
27.1 C3-C44 Whole Oil (ASTM D3328)		per sample	\$465.93	\$0.00
28.1 Fuel Oxygenates (1624 Mod)		per sample	\$398.39	\$0.00
29.1 ALKYL Leads, EDB MMT (8080)		per sample	\$398.39	\$0.00
30.1 C8-C40 Full Scan (ASTM 5739)		per sample	\$629.64	\$0.00
31.1 Simulated Distillation (ASTM 2887)		per sample	\$398.39	\$0.00
32.1 Parent & Alk. PAH Com. (8270 SIM)		per sample	\$723.63	\$0.00
33.1 C3-C10 Piano (8260 MOD)		per sample	\$599.88	\$0.00
34.1 C10+Alkane Fingerprints		per sample	\$599.88	\$0.00
35.1 Expert Data Interpretation & Report		each	\$595.30	\$0.00
L. Aquifer Characterization				
1.2 Pumping Test		per hour	\$28.09	\$0.00
2.2 Slug Test		per test	\$233.31	\$0.00
3.2 Fractured Rock		per test	\$122.15	\$0.00
M. Free Product				
1.1 Free Product Recovery Rate Test		each	\$46.42	\$0.00
N.				
O. Risk Evaluation				
1.2 Tier I Risk Evaluation		each	\$366.45	\$0.00
2.2 Tier II Risk Evaluation		each	\$122.15	\$0.00
P. Survey				
1.1 Subsequent Survey		each	\$297.65	\$0.00
Q. Disposal (gallons or tons)				
1.2 Wastewater	-114.5	gallon	\$1.19	(\$136.26)
2.2 Free Product		gallon	\$1.63	\$0.00
3.2 Soil Treatment/Disposal		ton	\$156.25	\$0.00
4.2 Drilling fluids		gallon	\$1.25	\$0.00
R. Miscellaneous (attach receipts)				
		each	\$0.00	\$0.00
		each	\$0.00	\$0.00
		each	\$0.00	\$0.00
T. Tier I Assessment (Use DHEC 3665 form)				
1.2 Southeast Region		standard	\$12,622.56	\$0.00
2.2 All Other Counties		standard	\$13,844.06	\$0.00
U. IGWA (Use DHEC 3666 form)				
1.2 Southeast Region		standard	\$4,353.67	\$0.00
2.2 All Other Counties		standard	\$4,720.01	\$0.00
22. Active Correction Action				
		PFP	Bid Cost	\$0.00
W. Aggressive Fluid & Vapor Recovery (AFVR)				
1.2 8-hour Event		per event	\$1,787.40	\$0.00
2.1 24-hour Event		per event	\$4,407.78	\$0.00
3.1 48-hour Event		per event	\$7,242.29	\$0.00
4.1 96-hour Event		per event	\$14,482.28	\$0.00
5.1 Off-gas Treatment 8 hour		per event	\$141.17	\$0.00
6.2 Off-gas Treatment 24 hour		per event	\$294.30	\$0.00
7.2 Off-gas Treatment 48 hour		per event	\$386.10	\$0.00
8.1 Off-gas Treatment 96 hour		per event	\$898.84	\$0.00
9.1 Off-gas Treatment 8 hour (w/chlorinated compounds)		per event	\$464.40	\$0.00

10.1 Off-gas Treatment 24 hour (w/chlorinated compounds)		per event	\$540.00	\$0.00
11.1 Off-gas Treatment 48 hour (w/chlorinated compounds)		per event	\$1,080.00	\$0.00
12.1 Off-gas Treatment 96 hour (w/chlorinated compounds)		per event	\$2,160.00	\$0.00
13.2 AFVR Effluent Disposal(w/chlorinated compounds)		gallon	\$0.64	\$0.00
14.2 AFVR Site Reconnaissance		each	\$302.40	\$0.00
15.1 Additional Hook-ups		each	\$29.68	\$0.00
16.2 AFVR Effluent Disposal		gallon	\$0.53	\$0.00
17.2 AFVR Mobilization/Demobilization		each	\$777.60	\$0.00
18.1 Mobilization for absorbents/skimers		each	\$516.69	\$0.00
19.1 Well sock 2" ID well		each	\$36.94	\$0.00
20.1 Well sock 4" ID well		each	\$49.03	\$0.00
21.1 pad (per pad)		each	\$49.95	\$0.00
22.1 3" diameter x 10' length boom		each	\$108.00	\$0.00
23.1 5" diameter x 10' length boom		each	\$132.84	\$0.00
24.1 New FPP recovery skimmer (2" wells)		each	\$791.10	\$0.00
25.1 New FPP recovery skimmer (4" wells)		each	\$1,247.40	\$0.00
26.1 Refurbished FPP recovery skimmer (2" or 4" wells)		each	\$760.32	\$0.00
27.1 Disposal of Absorbents		pound	\$4.10	\$0.00
28.1 Disposal of product from skimmers		gallon	\$0.50	\$0.00
X. Granulated Activated Carbon (GAC) filter system installation & service:				
1.2 New GAC System Installation		each	\$2,320.86	\$0.00
2.2 Refurbished GAC Sys. Install		each	\$1,099.35	\$0.00
3.2 Filter replacement/removal		each	\$427.53	\$0.00
4.2 GAC System removal, cleaning, & refurbishment		each	\$335.92	\$0.00
5.2 GAC System housing		each	\$305.38	\$0.00
6.2 In-line particulate filter		each	\$183.22	\$0.00
7.2 Additional piping & fittings		foot	\$1.84	\$0.00
Y. Well Repair				
1.2 Additional Copies of the Report Delivered		each	\$61.07	\$0.00
2.2 Repair 2x2 MW pad		each	\$61.07	\$0.00
3.2 Repair 4x4 MW pad		each	\$107.49	\$0.00
4.2 Replace well vault		each	\$144.14	\$0.00
5.2 Replace well cover bolts		each	\$3.18	\$0.00
6.2 Replace locking well cap & lock		each	\$18.32	\$0.00
7.2 Replace/Repair stick-up		each	\$163.68	\$0.00
8.2 Convert Flush-mount to Stick-up		each	\$183.22	\$0.00
9.2 Convert Stick-up to Flush-mount		each	\$158.79	\$0.00
10.2 Replace missing/illegible well ID plate		each	\$14.66	\$0.00
11.1 Down-hole Camera		per foot	\$29.25	\$0.00
Z. High Resolution Site Characterization				
1.1 HRSC Screening Equipment Mobilization		each	\$1,468.80	\$0.00
2.1 HRSC Drilling Category 1		per foot	\$31.32	\$0.00
3.1 HRSC Drilling Category 2		per foot	\$36.18	\$0.00
4.1 HRSC Drilling Category 3		per foot	\$29.16	\$0.00
5.1 HRSC 3-D Model		each	\$4,363.20	\$0.00
S. Report Prep & Project Management	12%	percent	(\$1,882.17)	(\$225.86)
TOTAL				(\$2,108.02)



Hard Copy



CD



Email

Date Received 8-5-25

Permit Number 03423

Project Manager Robert Dunn

Name of Contractor MET I

Description GWM Report

Docket Number 56T

Scanned _____

Verified _____

GROUNDWATER MONITORING REPORT

Jake Huggins DBA Outpost at Willowcreek
4925 Pamplico Highway
Florence, South Carolina
Florence County
UST Permit# 03423
CA# 70135

Prepared By:

 Midlands
Environmental
Consultants, Inc.
231 Dooley Road, Lexington, SC 29073
(803) 808-2043 fax: 808-2048

July 28, 2025

MECI Project No. 25-8521



July 28, 2025

Mr. Robert Dunn, Hydrogeologist
Corrective Action & Field Support Section
Underground Storage Tank Division
Bureau of Land and Waste Management
South Carolina Department of Environmental Services
2600 Bull Street
Columbia, South Carolina 29201

Subject: Groundwater Monitoring Report
Jake Huggins DBA Outpost at Willowcreek
4925 Pamplico Highway
Florence, South Carolina
Florence County
UST Permit# 03423; CA# 70135
MECI Project# 25-8521
Certified Site Rehabilitation Contractor UCC-0009

Dear Mr. Dunn,

On behalf of BW Stokes Oil Company, Inc., Midlands Environmental Consultants Inc. (MECI) is pleased to submit the attached Groundwater Monitoring Report for the referenced site. This report describes assessment activities conducted at the site and results of those activities in general accordance with South Carolina Department of Environmental Services (SCDES) guidelines, including adherence to the UST Division Programmatic Quality Assurance Program Plan (QAPP).

Midlands Environmental appreciates the opportunity to offer our professional environmental services to you on this project. Please feel free to contact us at 803-808-2043, if you have any immediate questions or comments.

Sincerely,
Midlands Environmental Consultants, Inc.

Jeff L. Coleman
Senior Scientist



Bryan T. Shane, P.G.
Principal Geologist

Cc: SCDOT, PO Box 191, Columbia, SC 29201
Linda T. Huggins, 3695 Willow Creek Road, Florence, SC 29505
Barbara M. Williams, 3309 Willow Creek Road, Florence, SC 29505
Willie B. Winchester Jr., 3101 Willow Creek Road, Florence, SC 29505
William L. Huggins, 621 Mallard Pond Road, Murrells Inlet, SC 29576

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**APPENDIX A – SITE SURVEY

APPENDIX B – SAMPLING LOGS, LABORATORY DATA SHEETS AND CHAIN OF CUSTODY FORMS

**APPENDIX C – TAX MAP DATA

**APPENDIX D – SOIL BORING/FIELD SCREENING LOGS & 1903 FORMS

**APPENDIX E – WELL LOGS & 1903 FORMS

**APPENDIX F – AQUIFER EVALUATION SUMMARY FORMS, DATA, GRAPHS, EQUATIONS

APPENDIX G – DISPOSAL MANIFESTS

**APPENDIX H – LOCAL ZONING REGULATIONS

**APPENDIX I – FATE & TRANSPORT MODELING

**APPENDIX J – ACCESS AGREEMENTS

APPENDIX K – DATA VERIFICATION CHECKLIST

APPENDIX L – DETAILED RECEPTOR INFORMATION

APPENDIX M – MANN-KENDALL STATISTICAL ANALYSES

NOTE: ITEMS LISTED WITH AN ** BESIDE IT WERE NOT NEEDED AS A PART OF THIS SCOPE OF WORK

1.0 INTRODUCTION

i. Facility Information

Name:	Jake Huggins DBA Outpost at Willowcreek
UST Permit#	03423
Address:	4925 Pamplico Highway, Florence SC 29505
Telephone #:	N/A

ii. Owner/Operator Information

Name	BW Stokes Oil Company, Inc.
Address	P.O. Box 1656, Florence, SC 29503
Telephone #	(843) 621-5865

iii. Property Owner Information

Name	Barbara Williams
Tax Map #:	Florence County Tax Map #: 00213-01-019
Address	3309 Willow Creek Road, Florence, SC 29505
Telephone #	(843) 662-0808

iv. Contractor Information

Name:	Midlands Environmental Consultants, Inc.
Certification #:	9
Address:	P. O. Box 854, Lexington, SC 29072
Telephone #:	(803) 808-2043

v. Well Driller Information

Name:	N/A
Certification #:	N/A
Address:	N/A
Telephone #:	N/A

vi. Laboratory Information

Name:	Pace Analytical Services, LLC.
Certification #:	99006001
Address:	9800 Kinney Ave. Suite 100, Huntersville, NC 28078
Telephone #:	(704) 875-9092

vii. Facility History

Release Date:		Release #1 reported 2/26/2002	
Estimated Quantity of Release:		Unknown	
Other Releases at Facility:		Release #2 (NFA'd 7/28/2020)	
Release Ranking:		2BB	
Current Site Usage:		Residence (SCDOT Right of Way)	
Tank #	Capacity/Product	In Use/Abandoned	Tank Status
1	2,000 Gal. Regular/Unleaded Gasoline	Abandoned	Removed (6/30/2016)
2	4,000 Gal. Gasoline Plus	Abandoned	Removed (6/30/2016)
3	6,000 Gal. Gasoline Super/Premium	Abandoned	Removed (6/30/2016)
4	3,000 Gal. Regular/Unleaded Gasoline	Abandoned	Removed (6/30/2016)
5	500 Gal. Kerosene	Abandoned	Removed (6/30/2016)

The following table presents previous site activities performed at the site:

Date	Assessment Type	Notes:
Pre 2008	Unknown MWI	Completed by unknown contractor. Installation of MW-1 through MW-4.
8/26/2008	Tier II Assessment	Completed by Davis & Brown. Monitoring wells MW-5, MW-6 installed. MW-5 installed as IGWA associated with second release. Analytical results from MW-1, MW-4, MW-5 and MW-6 were above RBSL for Benzene, MTBE, Naphthalene.
5/12/2009	Tier II Assessment	Completed by Davis & Brown. Installation of MW-7 through MW-22, MW-1D, and MW-2D. Multiple wells detected concentrations above RBSL's.
6/4/2015	Groundwater Sampling Event	Completed by Davis & Brown. Monitoring wells MW-14 through 20 and MW-2D reported destroyed. Multiple wells detected concentrations above RBSL's.
Circa 2016	DOT Construction	SCDOT widening destroys remaining well network.
3/7/2022	Tier II Assessment	Completed by MECI. This assessment included field screening of soil and groundwater samples, the installation of monitoring wells MW-1 thru MW-10 and DW-1 thru DW-4, sampling and chemical analysis of monitoring wells and nearby receptors and aquifer slug test.
1/9/2023	Groundwater Sampling Event	Completed by MECI.
4/14/2023	Groundwater Sampling Event	Completed by MECI.
7/14/2023	Groundwater Sampling Event	Completed by MECI.
10/16/2023	Groundwater Sampling Event	Completed by MECI.
6/24/2024	Groundwater Sampling Event	Completed by MECI.
3/28/2025	Groundwater Sampling Event	Completed by MECI.

viii. Regional Geology and Hydrogeology

The site is located in the Coastal Plain Physiographic Province, which is generally comprised of Upper Cretaceous to present aged, wedge-shaped formations that begin at the “Fall Line” and dip towards the Atlantic Ocean with ground surface elevations typically less than 300 feet. The sedimentary soils of these formations consist of unconsolidated sand, clay, gravel, marl, cemented sands, and limestone that were deposited unconformably over Mesozoic/Paleozoic age basement rock consisting of granite, schist, and gneiss similar to the rocks of the Piedmont Physiographic Province. The thickness of the Coastal Plain sediments varies from zero at the “Fall Line” to more than 4,000 feet at the southern tip of South Carolina near Hilton Head Island.

The Coastal Plain province was formed during Quaternary, Tertiary, and late Cretaceous geologic periods and can be divided generally into three subunits: Upper Coastal Plain, Middle Coastal Plain, and Lower Coastal Plain. The Lower Coastal Plain comprises approximately one-half of the entire Atlantic Coastal Plain of South Carolina and is separated from the middle coastal plain by the Surry Scarp, a seaward facing scarp with a toe elevation of 90 to 100 feet. The Middle Coastal Plain and the Upper Coastal Plain each compose approximately one fourth of the Coastal Plain area and are separated by the Orangeburg Scarp, a seaward facing scarp with a toe elevation of 250 to 270 feet.

The Lower Coastal Plain is typically identified as the area east of the Surry Scarp below elevation 100 feet, with a vertical stratigraphic sequence overlying the basement rock consisting of unconsolidated Cretaceous, Tertiary, and Quaternary sedimentary deposits. The surface deposits

of the Lower Coastal Plain were formed during the Quaternary period which was characterized by the formation of the Carolina Bays and scarps throughout the east coast due to sea level rise and fall, the formation of the barrier islands, and the formation of flood plains from major rivers. Preceding the Quaternary period, limestone was deposited in the Lower Coastal Plain.

The Middle Coastal Plain is typically identified as the area between the Orangeburg Scarp and the Surry Scarp and falls between elevation 100 feet and 270 feet. The vertical stratigraphic sequence overlying the basement rock consists of unconsolidated Cretaceous and Tertiary sedimentary deposits formed as a result of scouring from the regressive cycles of the Ocean as it retreated. During the Eocene epoch of the Tertiary period, limestone was deposited in the Middle Coastal Plain.

The Upper Coastal Plain is typically identified as the area between the “Fall Line” and the Orangeburg Scarp and falls between elevations 270 feet and 300 feet. The Upper Coastal Plain was formed during the Tertiary and late Cretaceous periods and is marked by the formation of the Sandhills dunes as a result of fluvial deposits over the Coastal Plain consisting of marine sediments, limestone, and sand.

Coastal Plain formations generally dip toward the Atlantic Ocean. Consequently, regional groundwater movement is to the southeast. On a regional scale, hydraulic gradients are relatively low. Locally, in the surficial aquifer, groundwater discharges into streams, lakes or springs where the groundwater table intersects lows occupied by these water bodies.

2.0 RECEPTOR SURVEY & SITE DATA

i. Known Potential Receptors

Receptor ID#	Notes
WSW-1	WSW-1 is located approximately 1,400' feet west-north of MW-8 at 3101 Willow Creek Road. Samples have historically been collected from the spigot on the water supply which is located inside one of the bran buildings at the property. GPS: 34.096044, -79.701503
WSW-2	WSW-2 is located approximately 1,000' feet west of MW-8 at 3119 Willow Creek Road. Samples have historically been collected from the spigot on the water supply. GPS: 34.095156, -79.700508
WSW-3	WSW-3 is located approximately 650' feet northeast of MW-8 at 4905 Legettes Road. Well Disconnected; Unable to sample with bailer due to metal elbow at well head. GPS: 34.096743, -79.696040
Possible WSW	According to property, there is no well on the property.
Possible WSW	According to property owner, there is no well on the property.
SW-1	Sample collected from drainage ditch adjacent to MW-8. GPS: 34.095076, -79.696772
SW-2	Sample collected from drainage ditch adjacent to MW-2. GPS: 34.095847, -79.697296
SW-3	Sample collected approximately 420' west of MW-8 from a stream. GPS: 34.094620, -79.698172
SW-4	Sample collected approximately 500' west-northwest of MW-8 from a stream. GPS: 34.095389, -79.698409
SW-5	Sample collected approximately 630' west-northwest of MW-8 from a stream. GPS: 34.096050, -79.698577
SW-6	Sample collected approximately 950' northwest of MW-8 from a stream. GPS: 34.096699, -79.699359
Underground Utilities	
Known underground utilities at the site include buried water, gas and telecommunication lines. Utilities are buried approximately 2'-4' feet below ground surface (BGS).	

ii. Receptor Survey Results

A receptor survey was not requested as part of the approved cost agreement.

iii. Site/Adjacent Land Usage (Residential, Commercial, Agricultural, Industrial, etc.)

Site	Residential
North	Residential
South	Agricultural
East	Agricultural
West	Residential
Permit #'s of UST Sites within 1,000' feet of site	N/A

iv. Site Specific Geology and Hydrogeology

The mean elevation of the property as depicted on the local USGS quadrangle (Evergreen, SC) appears to be approximately 33 meters (108 feet) above sea level. The subject site is located in the Middle Coastal Plain. According to Newell et al. (In Review), the subject site is located in the Bear Bluff Formation. The Bear Bluff Formation is a Pliocene age unit described as consisting of gray to cream, fossiliferous, coarse-grained calcareous sand and sandy limestones.

Coastal plain sediments were encountered during drilling activities conducted at the site during previous assessment activities. A generalized vertical profile to the investigated depth of 35' feet below ground surface (BGS) is as follows:

Depth (Feet BGS)	Generalized Soil Description
0.0'-6.0'	Brown/Yellow Fine SAND
6.0'-16.0'	Pink/Grey Silty Fine SAND
16.0'-34.0'	Tan, Medium SAND
34.0'-35.0'	Dark Grey, Fine Sandy CLAY

The following table presents grain size distribution results from samples analyzed for grain size during previous assessment activities:

Sample ID#	Sample Depth	% Gravel	% Coarse Sand	% Medium Sand	% Fine Sand	% Silt	% Clay
03423-SB01	8'-10'	0	0	38.0	40.2	4.2	17.6
03423-SB01	24'-26'	0	3.0	44.0	45.5	3.2	4.3
03423-SB01	32'-34'	0	4.0	3.0	3.7	49.7	39.6

On July 15, 2025, stabilized groundwater levels were measured in the monitoring well network. Depth to groundwater ranged from 3.10 feet below top of casing (BTOC) to 5.40 feet BTOC in the wells measured. The groundwater measurements are summarized in tabular form in Table 2 and presented on Figure 4/4A.

The potentiometric surface indicates that the groundwater flow beneath the site is generally to the northwest, toward drainage features associated with the Little Willow Creek. The February 2022 horizontal gradient was calculated to be approximately 0.0118 foot per foot (ft/ft). Calculated average

groundwater flow velocities based on aquifer testing was determine to be approximately 97.98 feet per year (ft/yr.).

Based on comparison between the “deep” wells and the close by water table bracketing monitoring wells, the vertical gradient appears to be generally flat.

3.0 GROUNDWATER SAMPLING AND CHEMICAL ANALYSES

On July 15, 2025, MECI personnel collected groundwater samples from fourteen (14) monitoring wells, two (2) surface water locations and two (2) water supply wells at the subject site. During sampling activities, surface water locations SW-3, SW-4, SW-5 and SW-6 were found to be dry and water supply well WSW-3 was unable to be sampled due to the well being inactive with no electrical supply. As approved SCDES, all monitoring wells were to be purged prior to sample collection. Fourteen (14) monitoring wells were purged prior to sample collection.

Prior to sampling, MECI personnel utilized an electronic water level indicator for water level measurements and an oil/water interface probe for free phase petroleum product level measurements. Where applicable, purging was completed by bailing at least five well volumes of water from the well, or until all water was evacuated from the well, whichever occurred first. Sampling/purging was completed utilizing a prepackaged, clear, disposable polyethylene bailer and nylon rope. A new set of nitrile gloves were worn at each monitoring well, and at all time samples were handled. Field measurements of pH, conductivity, dissolved oxygen, and water temperature were obtained before well sampling process. MECI utilized YSIPro20 meter for DO (mg/L) and temperature readings (°C) and YSI Pro 1030 meter for pH and conductivity (uS) readings and a MicroTPI turbidimeter for turbidity readings (NTU). The attached Monitoring Well Purge and Sampling Data Sheets present the results of the field measurements obtained. The wells were sampled in accordance with the most recent revision of SCDES’s Quality Assurance Program Plan for the Underground Storage Tank Management Division and the most recent revision of MECI’s Standard Operating Procedures.

Groundwater samples obtained were sent to Pace Analytical Services, Inc. of Huntersville, NC (SCDES Laboratory Certification #99006001) for analysis.

The following sampling matrix contains well development and requested analyses for each well:

Sample ID	Purge	No Purge	Sampled Below Product	Duplicate/Field Blank	Not Sampled	Not Located	BTEX, Naphthalene, MTBE (EPA Method 8260D)	EDB (EPA Method 8011)	1,2 DCA (EPA Method 8260D)	8 Oxygenates (EPA Method 8260D)	Total Lead (EPA Method 6010)	BTEX, Naphthalene, MTBE, 1,2 DCA (EPA Method 524.2)	EDB (EPA Method 504.1)
							Analyte Sampled						
MW-1	X						X	X	X	X			
MW-2	X						X	X	X	X			
MW-3	X						X	X	X	X			
MW-4	X						X	X	X	X			
MW-5	X						X	X	X	X			
Notes: BTEX = Benzene, Toluene, Ethylbenzene, & Total Xylenes MTBE=Methyl tertiary butyl ether 1,2 DCA = 1,2 Dichloroethane EDB = Ethylene Dibromide													

Sample ID	Purge	No Purge	Sampled Below Product	Duplicate/Field Blank	Not Sampled	Not Located	BTEX, Naphthalene, MTBE (EPA Method 8260D)	EDB (EPA Method 8011)	1,2 DCA (EPA Method 8260D)	8 Oxygenates (EPA Method 8260D)	Total Lead (EPA Method 6010)	BTEX, Naphthalene, MTBE, 1,2 DCA (EPA Method 524.2)	EDB (EPA Method 504.1)
							Analyte Sampled						
MW-6	X						X	X	X	X			
MW-7	X						X	X	X	X			
MW-8	X						X	X	X	X			
MW-9	X						X	X	X	X			
MW-10	X						X	X	X	X			
DW-1	X						X	X	X	X			
DW-2	X						X	X	X	X			
DW-3	X						X	X	X	X			
DW-4	X						X	X	X	X			
SW-1		X					X	X	X	X			
SW-2		X					X	X	X	X			
SW-3		X					X	X	X	X			
SW-4		X					X	X	X	X			
SW-5		X					X	X	X	X			
SW-6		X					X	X	X	X			
DUP-1				X			X	X	X	X			
Field Blank				X			X	X	X	X			
Trip Blank							X		X	X			
WSW-1										X		X	X
WSW-2										X		X	X
WSW-3					X								
DUP.				X						X		X	X
Field Blank				X						X		X	X
Trip Blank										X		X	
Notes: BTEX = Benzene, Toluene, Ethylbenzene, & Total Xylenes MTBE=Methyl tertiary butyl ether 1,2 DCA = 1,2 Dichloroethane EDB = Ethylene Dibromide													

The results of the laboratory analyses are summarized in Table 1 and presented in Appendix B.

Purge water produced by the purging process was treated on-site utilizing a granular activated carbon unit. A total of 85.50 gallons of purge water was disposed of in this manner. A disposal manifest for the referenced purge water is attached in Appendix G and the required post-GAC laboratory results in presented in Appendix B.

4.0 GROUNDWATER ANALYTICAL RESULTS

Free phase petroleum product was not detected in any of the monitoring wells during sampling activities. The analytical results indicate petroleum impact to the surficial aquifer (“Shallow” Zone), with the highest dissolved concentrations being detected in the area of MW-8. Of the eighteen sampling

locations analyzed, six monitoring wells (MW-1, MW-2, MW-5, MW-6, MW-7, MW-8, MW-10, DW-1 and DW-4) detected petroleum constituents above Risk-Based Screening Levels (RBSL's). Petroleum constituents detected above the established RBSL include:

Compound	RBSL (ug/l)	Wells Above RBSL
Product	0.01'	N/A
Benzene	5	MW-1, MW-2, MW-6, MW-8, MW-10 & DW-4
Toluene	1,000	MW-8 & DW-4
Ethylbenzene	700	MW-8
Total Xylenes	10,000	MW-8
Naphthalene	25	MW-1, MW-7, MW-8, MW-10 & DW-4
MTBE	40	MW-1, MW-2, MW-5, MW-6, MW-8, DW-1 & DW-4
1,2 DCA	5	N/A
EDB	0.05	N/A
TAA	240	MW-1 & MW-10
TAME	128	N/A
ETBA	NE	RBSL Not Established
TBA	1,400	N/A
TBF	NE	RBSL Not Established
DIPE	150	N/A
Ethanol	10,000	N/A
ETBE	47	N/A

The analytical results from the remainder of the sampling points did not indicate petroleum impact above the RBSL. Results of the analyses for each sampling point and specific parameters are listed on Table 1 and provided in Appendix B.

5.0 HISTORICAL COC CONCENTRATION TRENDS

Fourteen monitoring wells were included in the groundwater sampling program established for the site. Five monitoring wells (MW-3, MW-4, MW-9, DW-2 and DW-3) have historically exhibited results below the established RBSL. Mann-Kendall statistical analyses of the Chemicals of Concern (CoC's) with historical concentrations above the RBSL were completed utilizing the GIS Environmental Mann-Kendall Toolkit. The statistical analysis compares historical CoC results to determine if there is an increasing, decreasing, stable or not trend to the data. If the analytical results were non-detect (ND) the method detection limit was used. The analyses included analytical data for Benzene (MW-1, MW-2, MW-6, MW-8, MW-10 and DW-4), Toluene (MW-8 and DW-4), Ethylbenzene (MW-8 and MW-10), Xylenes (MW-8), Naphthalene (MW-1, MW-2, MW-6, MW-7, MW-8, MW-10 and DW-4), MTBE (MW-1, MW-2, MW-5, MW-6, MW-8, MW-10, DW-1 and DW-4), TAA (MW-1, MW-2, MW-6, MW-7, MW-8, MW-10 and DW-4) and DIPE (MW-1, MW-6, MW-8 and MW-10).

The statistical analyses show:

- Benzene – decreasing (MW-2 and MW-6), stable (MW-1 and MW-10) and no trend (MW-8 and DW-4).
- Toluene – no trend (MW-8 & DW-4).
- Ethylbenzene – stable (MW-10) and no trend (MW-8).

- Xylenes – no trend (MW-8)
- Naphthalene – decreasing (MW-1, MW-2 and MW-6), stable (MW-8 and MW-10) and no trend (MW-7 and DW-4).
- MTBE – increasing (MW-5), probably increasing (MW-6), decreasing (MW-2), probably decreasing (MW-10) stable (MW-1) and no trend (MW-8, DW-1 and DW-4).
- TAA – decreasing (MW-2), probably decreasing (MW-10), stable (MW-1) and no trend (MW-6, MW-7, MW-8 and DW-4).
- DIPE – increasing (MW-8), probably increasing (MW-6) and stable (MW-1 and MW-10).

6.0 MONITORING SUMMARY

- Groundwater flow is primarily to the northwest, toward drainage features associated with the Little Willow Creek.
- Free phase petroleum product was not detected in any of the monitoring wells during sampling activities.
- Fourteen groundwater monitoring wells, two surface water locations and two water supply wells were sampled on July 15, 2025. Petroleum compounds were detected above RBSL's in groundwater monitoring wells MW-1, MW-2, MW-5, MW-6, MW-7, MW-8, MW-10, DW-1 and DW-4. Compounds detected at the site above the established RBSL's include Benzene, Toluene, Ethylbenzene, Total Xylenes, Naphthalene, MTBE and TAA.
- The analytical results also reported petroleum constituents above the laboratory method detection limit and/or "J" values in samples collected from DW-2, WSW-1 and WSW-2; however, the concentrations did not exceed the RBSL.
- Analytical results did not indicate petroleum impact in any of the samples collected from the surface water locations or water supply wells sampled. Samples were unable to be collected from surface water locations SW-3, SW-4. SW-5 and SW-6 due to these areas being found dry and water supply well WSW-3 due to the well being inactive.
- In order to assess precision, field duplicate samples were collected and analyzed along with the reviewed batch samples. The duplicated samples were analyzed for the same parameters as the associated parent samples. Precision is determined by calculating the Relative Percent Differences (RPD) between each pair of samples. The RPD control limit for the groundwater samples is 20%. Duplicate samples were collected from the parent samples of MW-1 and WSW-1. The precision for the target analytes were met for these sample pairs and the analytical results detected the same compounds at similar concentrations. Furthermore, field blanks and trip blanks were collected and submitted during the groundwater sampling activities. No detectable concentrations of the requested method constituents were reported in any of the field or trip blanks associated with the monitoring well or surface water samples or the trip blank associated with the water supply well samples. Low levels of Toluene were detected in the field blank (0.66 µg/L) associated with the drinking water samples; however, low levels of Toluene should not affect the data usability due to these levels being well below the established RBSL for Toluene.

7.0 COMMENTS & RECOMMENDATIONS

- Since March 38, 2025 sampling event, increases have occurred in monitoring wells MW-7, DW-1 and DW-4 to levels above the established RBSL's. Decreases have occurred in monitoring well MW-10. Analytical results from the remainder of the monitoring wells have generally remained constant.
- Increasing trends in MTBE to be appear to be occurring in MW-5/MW-6 and increasing trends in DIPE appear to be occurring in MW-6/MW-8. Overall, the Mann-Kendall statistical analyses show a decreasing or stable trends in MW-2 and MW-10. No trends have been established to date in MW-1, MW-7, DW-1 and DW-4.
- Data gaps currently persist horizontally north of MW-5, west of MW-5/MW-6 and south of MW-8. With the exception of the southerly direction from MW-8/DW-4, it appears these data gaps persist due to property access issues encountered at the site in 2022.
- MECI concurs with SCDES that further definition of the plume is not warranted at this time; however, if increasing MTBE trends continue, additional assessment maybe necessary north of MW-5 and west of MW-5/MW-6.
- MECI request the site be modeled to current site conditions and the Site-Specific Target Levels (SSTL's) be relinquished to our office. Based on the modeling, MECI will be able to better evaluate site rehabilitation needs.

8.0 QUALIFICATIONS OF REPORT

The activities and evaluative approaches used in this assessment are consistent with those normally employed in hydrogeological assessment and waste management projects of this type. Our evaluation of site conditions has been based on our understanding of the site, project information provided to us, and data obtained in our exploration. The general subsurface conditions utilized in our evaluation have been based on interpretation of subsurface data between borings. Contents of this report are intended for the sole use of BW Stokes Oil Company, Inc., SCDES and MECI under mutually agreed upon terms and conditions. If other parties wish to rely on this report, please contact MECI prior to their use of this information so that a mutual understanding and agreement of the terms and conditions of our services can be established.

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TABLES

TABLE 1 GROUNDWATER COC CONCENTRATION DATA JAKE HUGGINS JULY 15, 2025 SAMPLING EVENT FLORENCE, SOUTH CAROLINA MECI PROJECT# 25-8521 UST PERMIT# 03423																	
Well ID#	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Napthalene (µg/L)	MTBE (µg/L)	1, 2 DCA (µg/L)	EDB (µg/L)	TAA (µg/L)	TAME (µg/L)	ETBA (µg/L)	TBA (µg/L)	TBF (µg/L)	DIPE (µg/L)	Ethanol (µg/L)	ETBE (µg/L)
		RBSL 5	RBSL 1,000	RBSL 700	RBSL 10,000	RBSL 25	RBSL 40	RBSL 5	RBSL 0.05	RBSL 240	RBSL 128	RBSL NE	RBSL 1,400	RBSL NE	RBSL 150	RBSL 10,000	RBSL 47
03423-MW01	2/15/2022	624	19.3	158	67.9	78.7	264	<0.250	<0.00512	3030	56.9	<7.00	169	<6.90	160	<50.0	<0.720
	1/9/2023	620	16.4	74.1	16.9	66.0	342	<1.6	<0.0075	3770	60.6	<260	200 J	<147	191	<361	<16.2
	4/14/2023	749	11.5 J	39.7	<25.0	51.1	343	<10.3	<0.0073	4640	59.9	<270	<455	<120	178	<720	<42.3
	7/14/2023	964	10.4 J	23.8 J	<25.0	49.9	465	<10.3	<0.0075	4830	78.2	<270	<455	<120	268	<720	<42.3
	10/16/2023	1100	<20.1	<18.4	<50.0	66.5	488	<20.6	<0.0074	5340	82.9 J	<539	<910	<241	297	<1440	<84.6
	6/24/2024	695	<10.0	10.2 J	<25.0	44.0	306	<10.3	<0.0078	3560	59.3	<270	<455	<120	176	<720	<42.3
	3/28/2025	333	<5.0	6.5 J	<12.5	25.4	193	<5.2	<0.0075	1900	35.3	<135	<228	<60.2	110	<360	<21.2
	7/15/2025	256	7.2 J	6.4 J	<12.5	27.5	158	<5.2	<0.0074	1730	29.5	<135	<228	<60.2	89.4	<360	<21.2
03423-MW02	2/15/2022	203	<0.250	0.522 J	1.34	25.7	405	<0.250	<0.00515	442	26.9	<7.00	83.3	<6.90	78.2	<50.0	<0.720
	1/9/2023	122	<0.97	<0.61	<0.68	10.9	256	<0.64	<0.0074	233	14.6 J	<104	<53.6	<58.8	44.4	<144	<6.5
	4/14/2023	90.2	<4.0	<3.7	<10.0	10.2	195	<4.1	<0.0074	225	10.5 J	<108	<182	<48.2	33.0	<288	<16.9
	7/14/2023	95.2	<4.0	<3.7	<10.0	8.8 J	178	<4.1	<0.0077	141 J	9.0 J	<108	<182	<48.2	36.2	<288	<16.9
	10/16/2023	76.3	<4.0	<3.7	<10.0	4.4 J	200	<4.1	<0.0075	<131	8.7 J	<108	<182	<48.2	30.8	<288	<16.9
	6/24/2024	23.5	<2.0	<1.8	<5.0	<2.1	122	<2.1	<0.0077	<65.6	5.3 J	<53.9	<91.0	<24.1	26.4	<144	<8.5
	3/28/2025	37.8	<2.0	<1.8	<5.0	<2.1	190	<2.1	<0.0076	<65.6	7.4 J	<53.9	<91.0	<24.1	29.2	<144	<8.5
	7/15/2025	19.4	<2.0	<1.8	<5.0	<2.1	131	<2.1	<0.0076	<65.6	5.3 J	<53.9	<91.0	<24.1	22.5	<144	<8.5
03423-MW03	2/15/2022	<0.270	3.15	0.279 J	<0.230	<2.40	1.95 J	<0.250	<0.00486	<8.60	<0.780	<7.00	<6.90	<6.90	0.893 J	<50.0	<0.720
	1/9/2023	<0.34	<0.48	<0.30	<0.34	<0.64	1.1	<0.32	<0.0076	<36.4	<2.7	<51.9	<26.8	<29.4	0.61 J	<72.2	<3.2
	4/14/2023	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0075	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	7/14/2023	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0077	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	10/16/2023	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0075	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	6/24/2024	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0078	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	3/28/2025	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0074	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	7/15/2025	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0074	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
03423-MW04	2/15/2022	<0.270	<0.250	0.252 J	1.91	<2.40	<0.810	<0.250	<0.00509	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
	1/9/2023	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0075	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	4/14/2023	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0074	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	7/14/2023	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0074	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	10/16/2023	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0076	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	6/24/2024	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0081	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	3/28/2025	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0074	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	7/15/2025	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0075	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
03423-MW05	2/15/2022	<0.270	<0.250	<0.200	<0.230	<2.40	14.3	<0.250	<0.00509	<8.60	<0.780	<7.00	<6.90	<6.90	3.06 J	<50.0	<0.720
	1/9/2023	<0.34	<0.48	<0.30	<0.34	<0.64	22.2	<0.32	<0.0075	<36.4	<2.7	<51.9	<26.8	<29.4	3.8	<72.2	<3.2
	4/14/2023	<1.7	<2.0	<1.8	<5.0	<2.1	22.3	<2.1	<0.0073	<65.6	<3.0	<53.9	<91.0	<24.1	4.1 J	<144	<8.5
	7/14/2023	<1.7	<2.0	<1.8	<5.0	<2.1	23.4	<2.1	<0.0074	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	10/16/2023	<1.7	<2.0	<1.8	<5.0	2.9 J	59.5	<2.1	<0.0072	<65.6	<3.0	<53.9	<91.0	<24.1	8.5	<144	<8.5
	6/24/2024	<1.7	<2.0	<1.8	<5.0	<2.1	45.6	<2.1	<0.0075	<65.6	<3.0	<53.9	<91.0	<24.1	5.4	<144	<8.5
	3/28/2025	<1.7	<2.0	<1.8	<5.0	<2.1	50.1	<2.1	<0.0075	<65.6	<3.0	<53.9	<91.0	<24.1	8.7	<144	<8.5
	7/15/2025	<1.7	<2.0	<1.8	<5.0	<2.1	79.9	<2.1	<0.0074	<65.6	<3.0	<53.9	<91.0	<24.1	23.0	<144	<8.5

TABLE 1 GROUNDWATER COC CONCENTRATION DATA JAKE HUGGINS JULY 15, 2025 SAMPLING EVENT FLORENCE, SOUTH CAROLINA MECI PROJECT# 25-8521 UST PERMIT# 03423																	
Well ID#	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Naphthalene (µg/L)	MTBE (µg/L)	1, 2 DCA (µg/L)	EDB (µg/L)	TAA (µg/L)	TAME (µg/L)	ETBA (µg/L)	TBA (µg/L)	TBF (µg/L)	DIPE (µg/L)	Ethanol (µg/L)	ETBE (µg/L)
		RBSL 5	RBSL 1,000	RBSL 700	RBSL 10,000	RBSL 25	RBSL 40	RBSL 5	RBSL 0.05	RBSL 240	RBSL 128	RBSL NE	RBSL 1,400	RBSL NE	RBSL 150	RBSL 10,000	RBSL 47
03423-MW06	2/15/2022	356	30.1	134	11.6	87.5	166	<1.25	<0.00497	2410	46.4	<35.0	86.6 J	<34.5	122	<250	<3.60
	1/9/2023	83.3	4.6	4.5	3.3	26.7	126	<0.32	<0.0076	1640	29.6	<51.9	52.4 J	<29.4	88.1	<72.2	<3.2
	4/14/2023	68.1	2.9 J	3.3 J	<5.0	23.0	132	<2.1	<0.0072	1570	26.1	<53.9	<91.0	<24.1	80.1	<144	<8.5
	7/14/2023	45.4	4.1 J	6.0	<5.0	20.4	167	<2.1	<0.0073	1960	34.7	<53.9	<91.0	<24.1	117	<144	<8.5
	10/16/2023	38.5	2.6 J	<1.8	<5.0	14.6	156	<2.1	<0.0075	1930	28.6	<53.9	<91.0	<24.1	111	<144	<8.5
	6/24/2024	17.3	4.8 J	<3.7	<10.0	11.2	241	<4.1	<0.0073	<131	40.2	<108	<182	<48.2	151	<288	<16.9
	3/28/2025	9.8 J	<4.0	<3.7	<10.0	4.4 J	216	<4.1	<0.0075	3080	31.7	<108	200	<48.2	199	<288	<16.9
	7/15/2025	7.2 J	<4.0	<3.7	<10.0	5.2 J	179	<4.1	<0.0074	2820	32.1	<108	<182	<48.2	129	<288	<16.9
03423-MW07	2/15/2022	37.2	0.699 J	82.1	3.95	58.3	15.8	<0.250	<0.00492	1030	4.67	<7.00	31.3 J	<6.90	20.3	<50.0	<0.720
	1/9/2023	<0.34	<0.48	1.8	<0.34	4.3	1.4	<0.32	<0.0075	<36.4	<2.7	<51.9	<26.8	<29.4	1.6	<72.2	<3.2
	4/14/2023	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0074	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	7/14/2023	<1.7	<2.0	4.4 J	<5.0	15.1	3.6 J	<2.1	<0.0074	77.7 J	<3.0	<53.9	<91.0	<24.1	4.2 J	<144	<8.5
	10/16/2023	<1.7	<2.0	14.0	<5.0	18.6	4.7 J	<2.1	<0.0075	166	<3.0	<53.9	<91.0	<24.1	6.0	<144	<8.5
	6/24/2024	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0075	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	3/28/2025	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0074	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	7/15/2025	3.2 J	<2.0	4.5 J	<5.0	26.9	<3.1	<2.1	<0.0074	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
03423-MW08	2/15/2022	3720	21100	2200	12800	781	690	<12.5	0.121	8690	127	<350	370 J	<345	268 J	<2500	<36.0
	1/9/2023	4390	22300	2080	13300	766	531	<40.2	<0.0075	8510 J	<332	<6490	<3350	<3680	239	<9020	<405
	4/14/2023	3620	19200	1840	10800	661	435 J	<258	<0.0074	<8200	<380	<6740	<11400	<3010	<436	<18000	<1060
	7/14/2023	3110	12600	1920	10000	558 J	<388	<258	<0.0073	<8200	<380	<6740	<11400	<3010	<436	<18000	<1060
	10/16/2023	5330	27500	2810	16200	975 J	1000 J	<412	<0.0075	<13100	<608	<10800	<18200	<4820	<698	<28800	<1690
	6/24/2024	4760	25300	2570	13400	778 J	696 J	<412	<0.0074	<13100	<608	<10800	<18200	<4820	<698	<28800	<1690
	3/28/2025	4110	20900	2260	11800	646 J	756 J	<412	<0.0075	<13100	<608	<10800	<18200	<4820	<698	<28800	<1690
	7/15/2025	4430	26300	2590	14800	918 J	712 J	<412	<0.0074	<13100	<608	<10800	<18200	<4820	<698	<28800	<1690
03423-MW09	2/15/2022	0.278 J	3.89	4.80	27.4	<2.40	<0.810	<0.250	<0.00494	77.4	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
	1/9/2023	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0077	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	4/14/2023	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0070	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	7/14/2023	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0074	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	10/16/2023	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0074	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	6/24/2024	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0074	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	3/28/2025	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0075	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	7/15/2025	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0075	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
03423-MW10	2/15/2022	1070	297	753	2380	342	510	<12.5	<0.00507	7950	120	<350	<345	<345	339 J	<2500	<36.0
	1/9/2023	2060	439	1100	2640	455	865	<4.0	<0.0077	11100	168	<649	535 J	<368	555	<902	<40.5
	4/14/2023	634	49.9	428	308	216	260	<10.3	<0.0075	3350	56.9	<270	<455	<120	165	<720	<42.3
	7/14/2023	79.3	15.1 J	329	116	143	25.4	<10.3	<0.0075	<328	<15.2	<270	<455	<120	17.6 J	<720	<42.3
	10/16/2023	299	83.8	503	747	244	112	<10.3	<0.0074	1460	22.5 J	<270	<455	<120	68.1	<720	<42.3
	6/24/2024	227	66.5	465	789	256	110	<10.3	<0.0074	1350	<15.2	<270	<455	<120	75.3	<720	<42.3
	3/28/2025	1360	57.7	533	421	221	457	<20.6	<0.0076	5750	105	<539	<910	<241	346	<1440	<84.6
	7/15/2025	81.1	10.1 J	286	196	189	30.2	<5.2	<0.0073	351	<7.6	<135	<228	<60.2	19.3	<360	<21.2
03423-DW01	2/15/2022	<0.270	<0.250	<0.200	<0.230	<2.40	<0.810	<0.250	<0.00529	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
	1/9/2023	<0.34	<0.48	<0.30	<0.34	<0.64	52.9	<0.32	<0.0076	<36.4	4.2 J	<51.9	<26.8	<29.4	15.2	<72.2	<3.2
	4/14/2023	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0072	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	7/14/2023	3.4 J	<2.0	<1.8	<5.0	<2.1	144	<2.1	<0.0075	<65.6	9.6 J	<53.9	<91.0	<24.1	40.5	<144	<8.5
	10/16/2023	<1.7	<2.0	<1.8	<5.0	<2.1	129	<2.1	<0.0073	<65.6	7.3 J	<53.9	<91.0	<24.1	34.2	<144	<8.5
	6/24/2024	<1.7	<2.0	<1.8	<5.0	<2.1	73.2	<2.1	<0.0073	<65.6	<3.0	<53.9	<91.0	<24.1	22.0	<144	<8.5
	3/28/2025	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0074	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	7/15/2025	<1.7	<2.0	<1.8	<5.0	<2.1	69.8	<2.1	<0.0075	<65.6	3.2 J	<53.9	<91.0	<24.1	18.6	<144	<8.5

TABLE 1 GROUNDWATER COC CONCENTRATION DATA JAKE HUGGINS JULY 15, 2025 SAMPLING EVENT FLORENCE, SOUTH CAROLINA MECI PROJECT# 25-8521 UST PERMIT# 03423																	
Well ID#	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Naphthalene (µg/L)	MTBE (µg/L)	1, 2 DCA (µg/L)	EDB (µg/L)	TAA (µg/L)	TAME (µg/L)	ETBA (µg/L)	TBA (µg/L)	TBF (µg/L)	DIPE (µg/L)	Ethanol (µg/L)	ETBE (µg/L)
		RBSL 5	RBSL 1,000	RBSL 700	RBSL 10,000	RBSL 25	RBSL 40	RBSL 5	RBSL 0.05	RBSL 240	RBSL 128	RBSL NE	RBSL 1,400	RBSL NE	RBSL 150	RBSL 10,000	RBSL 47
03423-DW02	2/15/2022	<0.270	<0.250	<0.200	<0.230	<2.40	7.40	<0.250	<0.00510	<8.60	<0.780	<7.00	<6.90	<6.90	2.61 J	<50.0	<0.720
	1/9/2023	<0.34	<0.48	<0.30	<0.34	<0.64	6.1	<0.32	<0.0076	<36.4	<2.7	<51.9	<26.8	<29.4	2.0	<72.2	<3.2
	4/14/2023	<1.7	<2.0	<1.8	<5.0	<2.1	5.2	<2.1	<0.0073	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	7/14/2023	<1.7	<2.0	<1.8	<5.0	<2.1	19.9	<2.1	<0.0074	<65.6	<3.0	<53.9	<91.0	<24.1	3.7 J	<144	<8.5
	10/16/2023	<1.7	<2.0	<1.8	<5.0	<2.1	36.2	<2.1	<0.0076	<65.6	<3.0	<53.9	<91.0	<24.1	5.6	<144	<8.5
	6/24/2024	<1.7	<2.0	<1.8	<5.0	<2.1	24.0	<2.1	<0.0072	<65.6	<3.0	<53.9	<91.0	<24.1	3.8 J	<144	<8.5
	3/28/2025	<1.7	<2.0	<1.8	<5.0	<2.1	4.0 J	<2.1	<0.0077	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	7/15/2025	<1.7	<2.0	<1.8	<5.0	<2.1	3.3 J	<2.1	<0.0074	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
03423-DW03	2/15/2022	<0.270	<0.250	<0.200	<0.230	<2.40	<0.810	<0.250	<0.00485	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
	1/9/2023	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0077	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	4/14/2023	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0074	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	7/14/2023	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0076	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	10/16/2023	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0075	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	6/24/2024	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0074	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	3/28/2025	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0074	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	7/15/2025	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0075	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
03423-DW04	2/15/2022	67.5	1890	611	4230	181	<0.810	<0.250	<0.00489	<8.60	<0.780	<7.00	<6.90	<6.90	1.69 J	<50.0	<0.720
	1/9/2023	63.6	464	20.1	291	<2.6	51.8	<1.3	<0.0077	422	<10.6	<208	<107	<118	21.2	<289	<13.0
	4/14/2023	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0074	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	7/14/2023	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0074	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	10/16/2023	341	359	98.9	1630	72.7	153	<8.2	<0.0075	913	20.9 J	<216	<364	<96.4	54.4	<576	<33.8
	6/24/2024	6.0	30.8	3.5 J	24.4	3.8 J	11.5	<2.1	<0.0074	<65.6	<3.0	<53.9	<91.0	<24.1	5.0 J	<144	<8.5
	3/28/2025	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0073	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	7/15/2025	216	1150	94.7	577	25.2 J	54.2	<20.6	<0.0075	<656	<30.4	<539	<910	<241	<34.9	<1440	<84.6
03423-TW01*	2/28/2022	<0.270	<0.250	<0.200	<0.230	<2.40	<0.810	<0.250	<0.00636	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
03423-SW01	2/15/2022	<0.270	<0.250	<0.200	<0.230	<2.40	<0.810	<0.250	<0.00503	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
	1/9/2023	<0.34	<0.48	<0.30	0.43 J	<0.64	<0.42	<0.32	<0.0077	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	4/14/2023	<0.34	0.98 J	<0.30	<0.34	<0.64	0.68 J	<0.32	<0.0078	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	7/14/2023	<0.34	<0.52 J	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0075	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	10/16/2023	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0075	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	6/24/2024	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0075	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	3/28/2025	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0076	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	7/15/2025	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0075	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
03423-SW02	2/15/2022	<0.270	<0.250	<0.200	<0.230	<2.40	0.832 J	<0.250	<0.00494	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
	1/9/2023	<0.34	<0.48	<0.30	<0.34	<0.64	1.2	<0.32	<0.0077	<36.4	<2.7	<51.9	<26.8	<29.4	0.49 J	<72.2	<3.2
	4/14/2023	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0073	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	7/14/2023	<0.34	<0.48	<0.30	<0.34	<0.64	0.63 J	<0.32	<0.0075	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	10/16/2023	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0075	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	6/24/2024	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0074	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	3/28/2025	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0077	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	7/15/2025	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0076	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
03423-SW03	2/15/2022	<0.270	<0.250	<0.200	<0.230	<2.40	<0.810	<0.250	<0.00497	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
	1/9/2023	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0077	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	4/14/2023	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0076	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	7/14/2023	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0077	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	10/16/2023	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0075	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	6/24/2024	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	3/28/2025	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0076	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	7/15/2025	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY

TABLE 1 GROUNDWATER COC CONCENTRATION DATA JAKE HUGGINS JULY 15, 2025 SAMPLING EVENT FLORENCE, SOUTH CAROLINA MECI PROJECT# 25-8521 UST PERMIT# 03423																	
Well ID#	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Naphthalene (µg/L)	MTBE (µg/L)	1, 2 DCA (µg/L)	EDB (µg/L)	TAA (µg/L)	TAME (µg/L)	ETBA (µg/L)	TBA (µg/L)	TBF (µg/L)	DIPE (µg/L)	Ethanol (µg/L)	ETBE (µg/L)
		RBSL 5	RBSL 1,000	RBSL 700	RBSL 10,000	RBSL 25	RBSL 40	RBSL 5	RBSL 0.05	RBSL 240	RBSL 128	RBSL NE	RBSL 1,400	RBSL NE	RBSL 150	RBSL 10,000	RBSL 47
03423-SW04	2/28/2022	<0.270	15.9	0.228 J	<0.230	<2.40	<0.810	<0.250	<0.00492	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
	1/9/2023	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0080	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	4/14/2023	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0074	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	7/14/2023	<0.34	0.49 J	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0076	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	10/16/2023	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0074	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	6/24/2024	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	3/28/2025	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0074	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	7/15/2025	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
03423-SW05	2/28/2022	<0.270	<0.250	<0.200	<0.230	<2.40	<0.810	<0.250	<0.00503	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
	1/9/2023	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0079	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	4/14/2023	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0074	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	7/14/2023	<0.34	0.63 J	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0079	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	10/16/2023	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0075	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	6/24/2024	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	3/28/2025	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0074	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	7/15/2025	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
03423-SW06	2/28/2022	<0.270	<0.250	<0.200	<0.230	<2.40	<0.810	<0.250	<0.00507	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
	1/9/2023	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0076	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	4/14/2023	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0073	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	7/14/2023	<0.34	0.64 J	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0076	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	10/16/2023	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0076	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	6/24/2024	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	3/28/2025	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0074	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	7/15/2025	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
03423-WSW01	2/15/2022	<0.0820	<0.0860	<0.0990	<0.0860	<0.430	<0.0930	<0.0860	<0.00513	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
	1/9/2023	<0.21	<0.20	<0.22	<0.22	<0.35	<0.14	<0.16	<0.0056	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	4/14/2023	<0.21	<0.20	<0.22	<0.22	<0.35	<0.14	<0.16	<0.0055	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	7/14/2023	<0.21	0.46 J	<0.22	<0.22	<0.35	<0.14	<0.16	<0.0055	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	10/16/2023	<0.21	<0.20	<0.22	<0.22	<0.35	<0.14	<0.16	<0.0055	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	6/24/2024	<0.21	0.48 J	<0.22	<0.22	<0.35	<0.14	<0.16	<0.0060	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	3/28/2025	<0.21	<0.20	<0.22	<0.22	<0.35	<0.14	<0.16	<0.0058	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	7/15/2025	<0.21	0.79	<0.22	<0.22	<0.35	<0.14	<0.16	<0.0057	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
03423-WSW02	2/15/2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	1/9/2023	<0.21	<0.20	<0.22	<0.22	<0.35	<0.14	<0.16	<0.0056	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	4/14/2023	<0.21	<0.20	<0.22	<0.22	<0.35	<0.14	<0.16	<0.0056	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	7/14/2023	<0.21	0.45 J	<0.22	<0.22	<0.35	<0.14	<0.16	<0.0055	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	10/16/2023	<0.21	<0.20	<0.22	<0.22	<0.35	<0.14	<0.16	<0.0054	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	6/24/2024	<0.21	0.63	<0.22	<0.22	<0.35	<0.14	<0.16	<0.0061	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	3/28/2025	<0.21	<0.20	<0.22	<0.22	<0.35	<0.14	<0.16	<0.0057	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	7/15/2025	<0.21	0.77	<0.22	<0.22	<0.35	<0.14	<0.16	<0.0056	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
03423-WSW03	2/15/2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	1/9/2023	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	4/14/2023	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	7/14/2023	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/16/2023	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	6/24/2024	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/28/2025	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	7/15/2025	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

TABLE 1 GROUNDWATER COC CONCENTRATION DATA JAKE HUGGINS JULY 15, 2025 SAMPLING EVENT FLORENCE, SOUTH CAROLINA MECI PROJECT# 25-8521 UST PERMIT# 03423																	
Well ID#	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Napththalene (µg/L)	MTBE (µg/L)	1, 2 DCA (µg/L)	EDB (µg/L)	TAA (µg/L)	TAME (µg/L)	ETBA (µg/L)	TBA (µg/L)	TBF (µg/L)	DIPE (µg/L)	Ethanol (µg/L)	ETBE (µg/L)
		RBSL 5	RBSL 1,000	RBSL 700	RBSL 10,000	RBSL 25	RBSL 40	RBSL 5	RBSL 0.05	RBSL 240	RBSL 128	RBSL NE	RBSL 1,400	RBSL NE	RBSL 150	RBSL 10,000	RBSL 47
DUP-1 (MW10)	2/15/2022	1090	359	783	2440	325	496	<2.50	<0.00499	7770	129	<70.0	298 J	<69.0	343	<500	<7.20
DUP. (WSW01)	2/15/2022	<0.0820	<0.0860	<0.0990	<0.0860	<0.430	<0.0930	<0.0860	<0.00501	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
DUP-1 (TW01)	2/28/2022	<0.270	<0.250	<0.200	<0.230	<2.40	<0.810	<0.250	<0.00581	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
DUP-1 (MW01)	1/9/2023	736	19.2	93.2	21.4	78.8	429	<1.6	<0.0075	4900	64.8	<260	258 J	<147	240	<361	<16.2
DUP. (WSW01)	1/9/2023	<0.21	<0.20	<0.22	<0.22	<0.35	<0.14	<0.16	<0.0057	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
DUP. (MW08)	4/14/2023	4400	21900	2110	13000	765	614 J	<258	<0.0075	<8200	<380	<6740	<11400	<3010	<436	<18000	<1060
DUP. (WSW01)	4/14/2023	<0.21	0.21 J	<0.22	<0.22	<0.35	<0.14	<0.16	<0.0056	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
DUP. (MW08)	7/14/2023	3350	12500	1810	9530	670	<388	<258	<0.0074	<8200	<380	<6740	<11400	<3010	<436	<18000	<1060
DUP. (WSW01)	7/14/2023	<0.21	<0.20	<0.22	<0.22	<0.35	<0.14	<0.16	<0.0055	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
DUP. (MW08)	10/16/2023	4670	23400	2430	14000	679 J	834 J	<412	<0.0075	<13100	<608	<10800	<18200	<4820	<698	<28800	<1690
DUP.(WSW01)	10/16/2023	<0.21	<0.20	<0.22	<0.22	<0.35	<0.14	<0.16	<0.0055	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
DUP-1(MW08)	6/24/2024	4520	22800	2650	12900	891 J	740 J	<412	<0.0073	<13100	<608	<10800	<18200	<4820	<698	<28800	<1690
DUP.(WSW02)	6/24/2024	<0.21	0.50 J	<0.22	<0.22	<0.35	<0.14	<0.16	<0.0059	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
DUP-1 (MW06)	3/28/2025	9.7 J	<4.0	<3.7	<10.0	6.1 J	198	<4.1	<0.0076	3270	33.9	<108	204	<48.2	164	<288	<16.9
DUP. (WSW01)	3/28/2025	<0.21	<0.20	<0.22	<0.22	<0.35	<0.14	<0.16	<0.0060	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
DUP-1 (MW01)	7/15/2025	232	<4.0	6.0 J	<10.0	28.3	174	<4.1	<0.0074	1630	29.1	<108	<182	<48.2	91.4	<288	<16.9
DUP. (WSW01)	7/15/2025	<0.21	0.78	<0.22	<0.22	<0.35	<0.14	<0.16	<0.0055	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
Field Blank	2/15/2022	<0.270	<0.250	<0.200	<0.230	<2.40	<0.810	<0.250	<0.00501	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
	2/15/2022	<0.0820	<0.0860	<0.0990	<0.0860	<0.430	<0.0930	<0.0860	<0.00499	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
	2/28/2022	<0.270	<0.250	<0.200	<0.230	<2.40	<0.810	<0.250	<0.00501	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
	1/9/2023	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0077	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	1/9/2023	<0.21	<0.20	<0.22	<0.22	<0.35	<0.14	<0.16	<0.0057	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	4/14/2023	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0075	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	4/14/2023	<0.21	<0.20	<0.22	<0.22	<0.35	<0.14	<0.16	<0.0056	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	7/14/2023	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0075	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	7/14/2023	<0.21	0.25 J	<0.22	<0.22	<0.35	<0.14	<0.16	<0.0053	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	10/16/2023	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0074	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	10/16/2023	<0.21	<0.20	<0.22	<0.22	<0.35	<0.14	<0.16	<0.0055	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	6/24/2024	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0074	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	6/24/2024	<0.21	0.56	<0.22	<0.22	<0.35	<0.14	<0.16	<0.0061	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	3/28/2025	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0075	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	3/28/2025	<0.21	<0.20	<0.22	<0.22	<0.35	<0.14	<0.16	<0.0060	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	7/15/2025	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0074	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	7/15/2025	<0.21	0.66	<0.22	<0.22	<0.35	<0.14	<0.16	<0.0055	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
Trip Blank	2/15/2022	<0.270	<0.250	<0.200	<0.230	<2.40	<0.810	<0.250	NT	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
	2/15/2022	<0.0820	<0.0860	<0.0990	<0.0860	<0.430	<0.0930	<0.0860	NT	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
	2/28/2022	<0.270	<0.250	<0.200	<0.230	<2.40	<0.810	<0.250	NT	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
	2/28/2022	<0.270	<0.250	<0.200	<0.230	<2.40	<0.810	<0.250	NT	<8.60	<0.780	<7.00	<6.90	<6.90	<0.700	<50.0	<0.720
	1/9/2023	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	NT	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	1/9/2023	<0.21	<0.20	<0.22	<0.22	<0.35	<0.14	<0.16	NT	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
	4/14/2023	<1.7	<2.0	<1.8	<5.0	<2											

**TABLE 2
POTENTIOMETRIC DATA
JAKE HUGGINS
JULY 15, 2025 SAMPLING EVENT
FLORENCE, SOUTH CAROLINA
MECI PROJECT# 25-8521
UST PERMIT# 03423**

Well Number	Sample Date	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	TOC Elevation	Groundwater Elevation
03423-MW01	2/15/2022	3-13	***	2.67	***	98.72	96.05
	1/9/2023		***	3.48	***	98.72	95.24
	4/14/2023		***	3.41	***	98.72	95.31
	7/14/2023		***	3.02	***	98.72	95.70
	10/16/2023		***	3.46	***	98.72	95.26
	6/24/2024		***	3.03	***	98.72	95.69
	3/28/2025		***	2.18	***	98.72	96.54
	7/15/2025		***	3.45	***	98.72	95.27
03423-MW02	2/15/2022	3-13	***	2.64	***	96.40	93.76
	1/9/2023		***	3.25	***	96.40	93.15
	4/14/2023		***	3.23	***	96.40	93.17
	7/14/2023		***	3.04	***	96.40	93.36
	10/16/2023		***	3.28	***	96.40	93.12
	6/24/2024		***	3.02	***	96.40	93.38
	3/28/2025		***	1.99	***	96.40	94.41
	7/15/2025		***	3.27	***	96.40	93.13
03423-MW03	2/15/2022	3-13	***	2.42	***	94.95	92.53
	1/9/2023		***	3.15	***	94.95	91.80
	4/14/2023		***	3.06	***	94.95	91.89
	7/14/2023		***	3.29	***	94.95	91.66
	10/16/2023		***	3.62	***	94.95	91.33
	6/24/2024		***	3.62	***	94.95	91.33
	3/28/2025		***	2.16	***	94.95	92.79
	7/15/2025		***	3.96	***	94.95	90.99
03423-MW04	2/15/2022	3-13	***	2.61	***	94.88	92.27
	1/9/2023		***	3.45	***	94.88	91.43
	4/14/2023		***	3.39	***	94.88	91.49
	7/14/2023		***	3.63	***	94.88	91.25
	10/16/2023		***	4.53	***	94.88	90.35
	6/24/2024		***	4.10	***	94.88	90.78
	3/28/2025		***	2.45	***	94.88	92.43
	7/15/2025		***	4.26	***	94.88	90.62
03423-MW05	2/15/2022	3-13	***	2.46	***	94.88	92.42
	1/9/2023		***	3.16	***	94.88	91.72
	4/14/2023		***	3.07	***	94.88	91.81
	7/14/2023		***	3.47	***	94.88	91.41
	10/16/2023		***	5.43	***	94.88	89.45
	6/24/2024		***	3.61	***	94.88	91.27
	3/28/2025		***	2.29	***	94.88	92.59
	7/15/2025		***	3.98	***	94.88	90.90
03423-MW06	2/15/2022	3-13	***	2.83	***	97.86	95.03
	1/9/2023		***	3.50	***	97.86	94.36
	4/14/2023		***	3.32	***	97.86	94.54
	7/14/2023		***	3.07	***	97.86	94.79
	10/16/2023		***	3.24	***	97.86	94.62
	6/24/2024		***	3.05	***	97.86	94.81
	3/28/2025		***	2.49	***	97.86	95.37
	7/15/2025		***	3.28	***	97.86	94.58
03423-MW07	2/15/2022	3-13	***	2.91	***	100.29	97.38
	1/9/2023		***	3.98	***	100.29	96.31
	4/14/2023		***	3.78	***	100.29	96.51
	7/14/2023		***	3.54	***	100.29	96.75
	10/16/2023		***	4.44	***	100.29	95.85
	6/24/2024		***	3.95	***	100.29	96.34
	3/28/2025		***	2.90	***	100.29	97.39
	7/15/2025		***	4.46	***	100.29	95.83

**TABLE 2
POTENTIOMETRIC DATA
JAKE HUGGINS
JULY 15, 2025 SAMPLING EVENT
FLORENCE, SOUTH CAROLINA
MECI PROJECT# 25-8521
UST PERMIT# 03423**

Well Number	Sample Date	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	TOC Elevation	Groundwater Elevation
03423-MW08	2/15/2022	3-13	***	3.76	***	100.92	97.16
	1/9/2023		***	4.38	***	100.92	96.54
	4/14/2023		***	4.13	***	100.92	96.79
	7/14/2023		***	3.90	***	100.92	97.02
	10/16/2023		***	4.46	***	100.92	96.46
	6/24/2024		***	4.07	***	100.92	96.85
	3/28/2025		***	1.99	***	100.92	98.93
	7/15/2025		***	5.10	***	100.92	95.82
03423-MW09	2/15/2022	3-13	***	3.97	***	100.92	96.95
	1/9/2023		***	3.27	***	100.92	97.65
	4/14/2023		***	3.19	***	100.92	97.73
	7/14/2023		***	4.22	***	100.92	96.70
	10/16/2023		***	5.21	***	100.92	95.71
	6/24/2024		***	4.60	***	100.92	96.32
	3/28/2025		***	3.34	***	100.92	97.58
	7/15/2025		***	5.31	***	100.92	95.61
03423-MW10	2/15/2022	3-13	***	2.93	***	99.69	96.76
	1/9/2023		***	3.68	***	99.69	96.01
	4/14/2023		***	3.56	***	99.69	96.13
	7/14/2023		***	3.17	***	99.69	96.52
	10/16/2023		***	4.07	***	99.69	95.62
	6/24/2024		***	3.06	***	99.69	96.63
	3/28/2025		***	2.56	***	99.69	97.13
	7/15/2025		***	4.08	***	99.69	95.61
03423-DW01	2/15/2022	20-25	***	2.54	***	98.57	96.03
	1/9/2023		***	3.22	***	98.57	95.35
	4/14/2023		***	3.17	***	98.57	95.40
	7/14/2023		***	3.13	***	98.57	95.44
	10/16/2023		***	3.84	***	98.57	94.73
	6/24/2024		***	3.60	***	98.57	94.97
	3/28/2025		***	2.11	***	98.57	96.46
	7/15/2025		***	3.10	***	98.57	95.47
03423-DW02	2/15/2022	20-25	***	2.51	***	96.48	93.97
	1/9/2023		***	3.01	***	96.48	93.47
	4/14/2023		***	3.03	***	96.48	93.45
	7/14/2023		***	3.53	***	96.48	92.95
	10/16/2023		***	3.75	***	96.48	92.73
	6/24/2024		***	3.65	***	96.48	92.83
	3/28/2025		***	2.21	***	96.48	94.27
	7/15/2025		***	4.22	***	96.48	92.26
03423-DW03	2/15/2022	20-25	***	2.92	***	100.05	97.13
	1/9/2023		***	3.53	***	100.05	96.52
	4/14/2023		***	3.41	***	100.05	96.64
	7/14/2023		***	3.14	***	100.05	96.91
	10/16/2023		***	4.14	***	100.05	95.91
	6/24/2024		***	3.51	***	100.05	96.54
	3/28/2025		***	2.40	***	100.05	97.65
	7/15/2025		***	4.26	***	100.05	95.79
03423-DW04	2/15/2022	20-25	***	3.86	***	101.03	97.17
	1/9/2023		***	4.41	***	101.03	96.62
	4/14/2023		***	4.36	***	101.03	96.67
	7/14/2023		***	4.22	***	101.03	96.81
	10/16/2023		***	5.25	***	101.03	95.78
	6/24/2024		***	4.50	***	101.03	96.53
	3/28/2025		***	3.48	***	101.03	97.55
	7/15/2025		***	5.40	***	101.03	95.63

Notes:

1. Elevations are NAV88.

2. Groundwater depths were measured from the top of the PVC riser pipe.

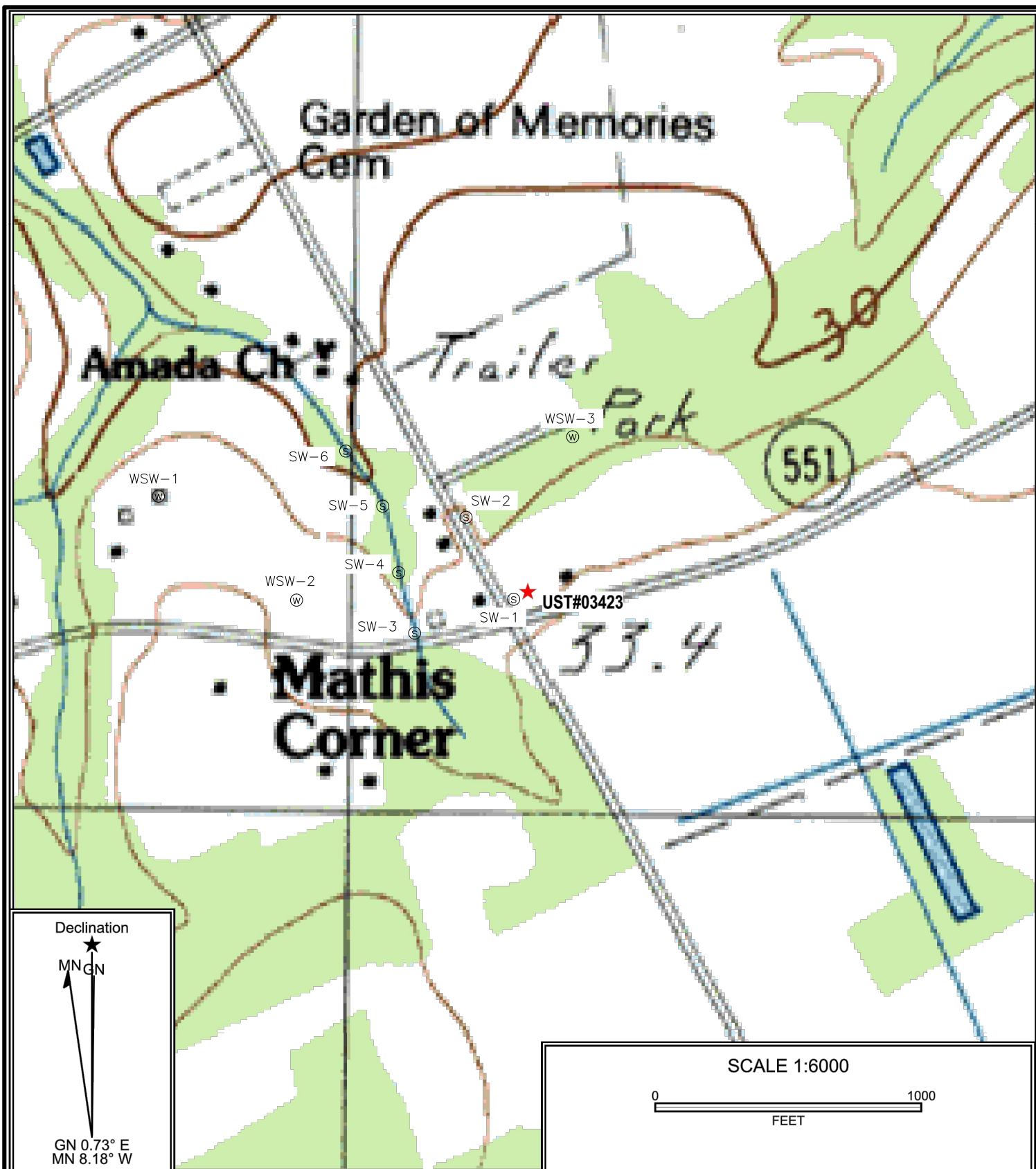
3. NM = Not Measured

4. DRY = Well Gauged DRY

5. TD = Total Depth

6. * = Groundwater elevation corrected for the presence of free product using a specific gravity of 0.85.

FIGURES



Reference: Evergreen, South Carolina
 USGS 7.5 Min. Quad
 Contour Interval - 2 Meters

Midlands
 Environmental
 Consultants, Inc.

Site Location

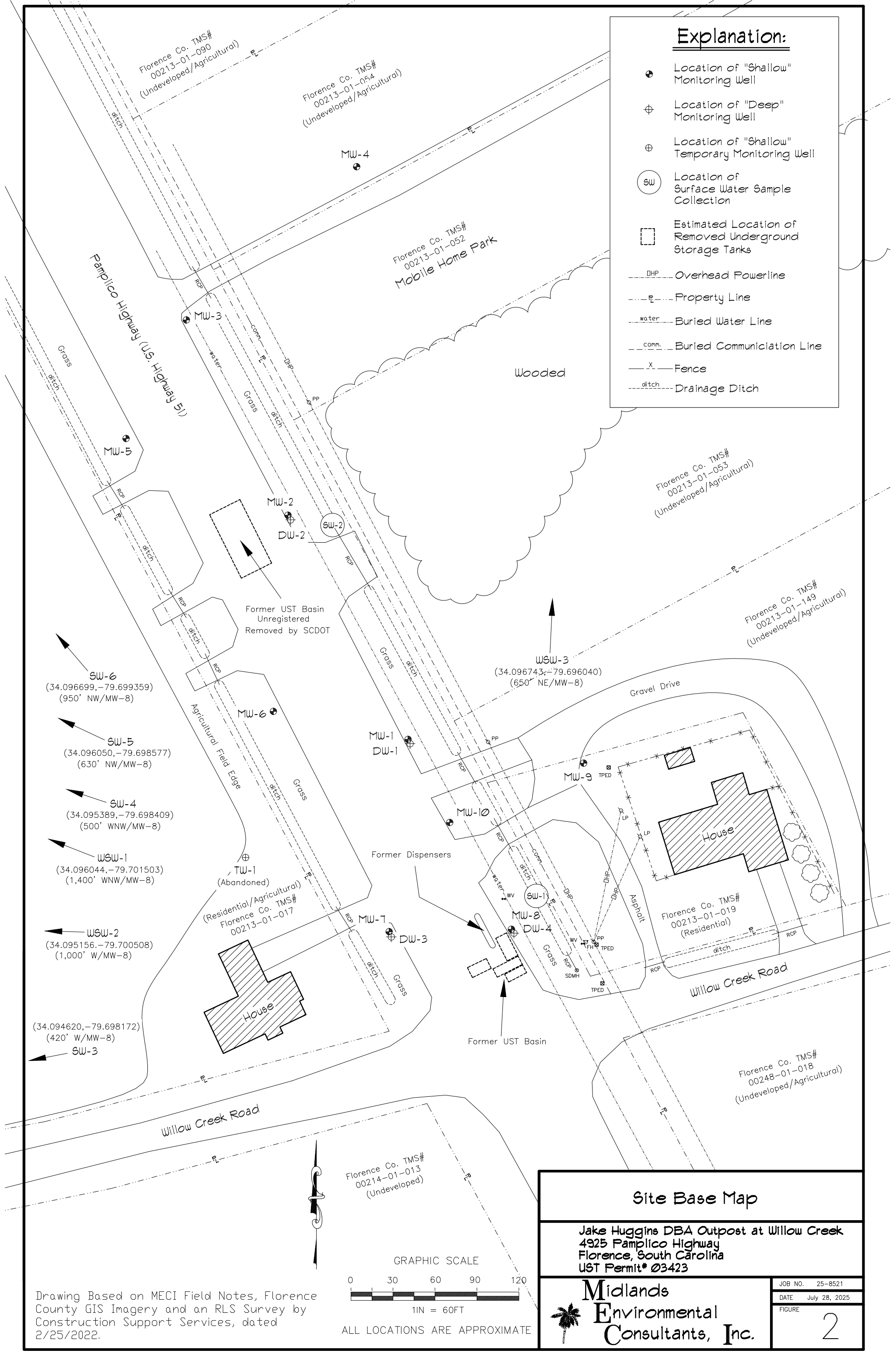
Jake Huggins DBA Outpost at Willowcreek, LLC.
 4925 Pamplico Highway, Florence, SC
 UST Permit# 18419

Figure 1

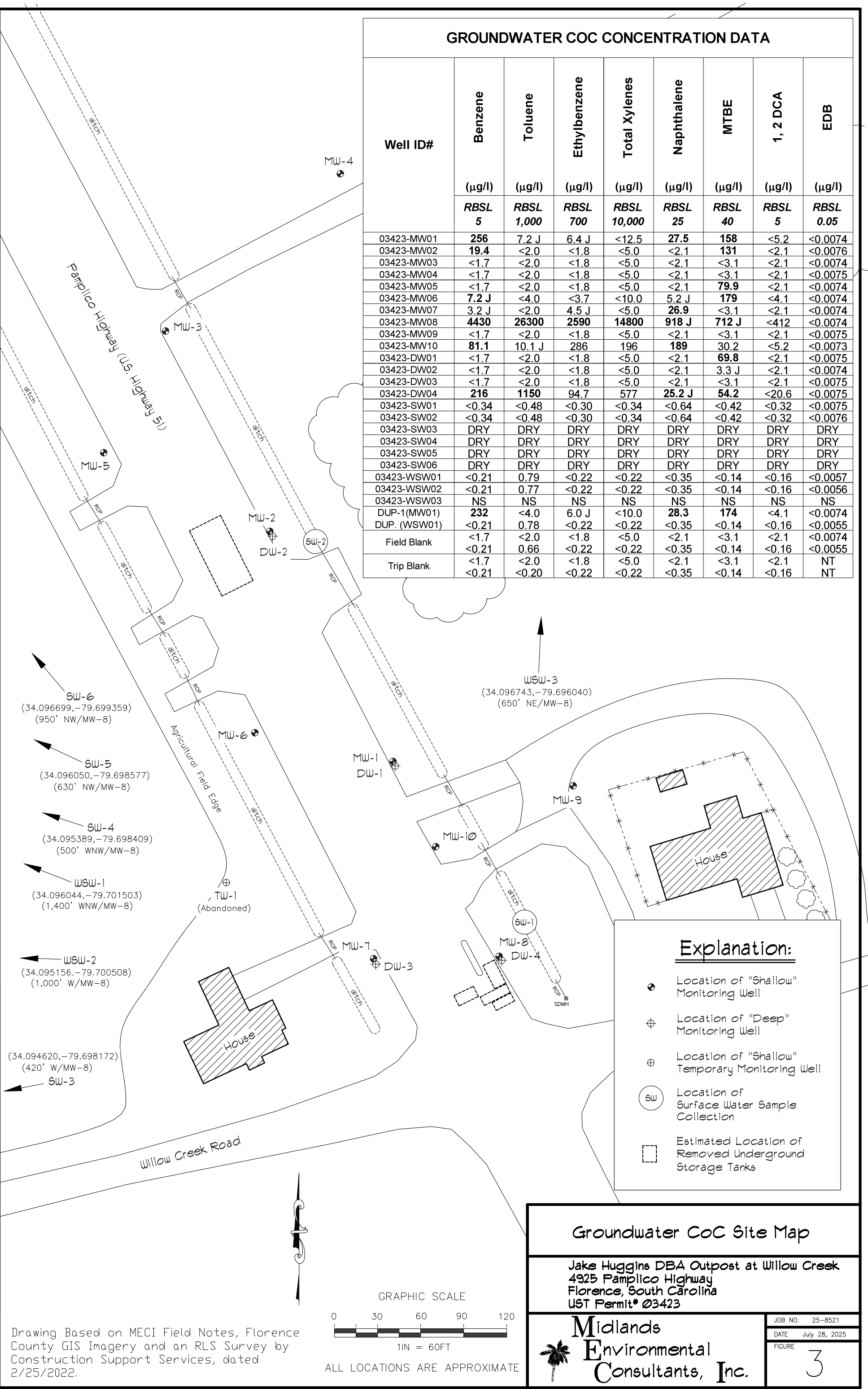
MECI# 25-8521

Explanation:

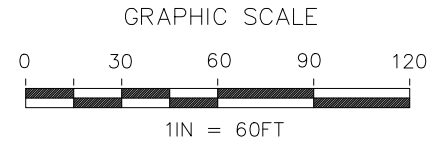
- Location of "Shallow" Monitoring Well
- Location of "Deep" Monitoring Well
- Location of "Shallow" Temporary Monitoring Well
- Location of Surface Water Sample Collection
- Estimated Location of Removed Underground Storage Tanks
- Overhead Powerline
- Property Line
- Buried Water Line
- Buried Communication Line
- Fence
- Drainage Ditch



GROUNDWATER COC CONCENTRATION DATA								
Well ID#	Benzene	Toluene	Ethylbenzene	Total Xylenes	Naphthalene	MTBE	1, 2 DCA	EDB
	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)
	RBSL 5	RBSL 1,000	RBSL 700	RBSL 10,000	RBSL 25	RBSL 40	RBSL 5	RBSL 0.05
03423-MW01	256	7.2 J	6.4 J	<12.5	27.5	158	<5.2	<0.0074
03423-MW02	19.4	<2.0	<1.8	<5.0	<2.1	131	<2.1	<0.0076
03423-MW03	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0074
03423-MW04	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0075
03423-MW05	<1.7	<2.0	<1.8	<5.0	<2.1	79.9	<2.1	<0.0074
03423-MW06	7.2 J	<4.0	<3.7	<10.0	5.2 J	179	<4.1	<0.0074
03423-MW07	3.2 J	<2.0	4.5 J	<5.0	26.9	<3.1	<2.1	<0.0074
03423-MW08	4430	26300	2590	14800	918 J	712 J	<412	<0.0074
03423-MW09	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0075
03423-MW10	81.1	10.1 J	286	196	189	30.2	<5.2	<0.0073
03423-DW01	<1.7	<2.0	<1.8	<5.0	<2.1	69.8	<2.1	<0.0075
03423-DW02	<1.7	<2.0	<1.8	<5.0	<2.1	3.3 J	<2.1	<0.0074
03423-DW03	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0075
03423-DW04	216	1150	94.7	577	25.2 J	54.2	<20.6	<0.0075
03423-SW01	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0075
03423-SW02	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0076
03423-SW03	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
03423-SW04	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
03423-SW05	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
03423-SW06	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
03423-WSW01	<0.21	0.79	<0.22	<0.22	<0.35	<0.14	<0.16	<0.0057
03423-WSW02	<0.21	0.77	<0.22	<0.22	<0.35	<0.14	<0.16	<0.0056
03423-WSW03	NS	NS	NS	NS	NS	NS	NS	NS
DUP-1(MW01)	232	<4.0	6.0 J	<10.0	28.3	174	<4.1	<0.0074
DUP. (WSW01)	<0.21	0.78	<0.22	<0.22	<0.35	<0.14	<0.16	<0.0055
Field Blank	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0074
	<0.21	0.66	<0.22	<0.22	<0.35	<0.14	<0.16	<0.0055
Trip Blank	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	NT
	<0.21	<0.20	<0.22	<0.22	<0.35	<0.14	<0.16	NT



Drawing Based on MECI Field Notes, Florence County GIS Imagery and an RLS Survey by Construction Support Services, dated 2/25/2022.



ALL LOCATIONS ARE APPROXIMATE

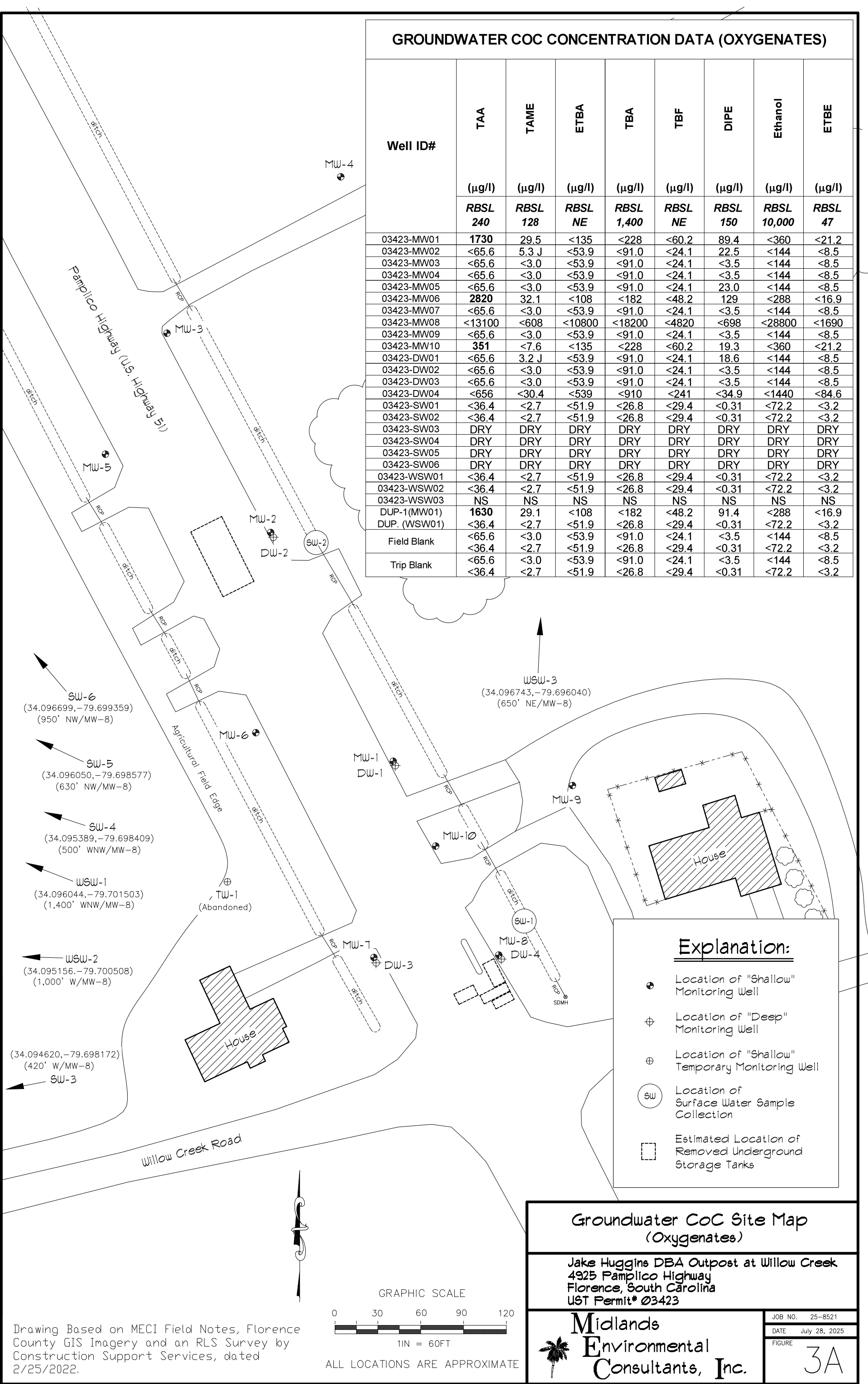
Groundwater CoC Site Map

Jake Huggins DBA Outpost at Willow Creek
4925 Pamplico Highway
Florence, South Carolina
UST Permit# 03423

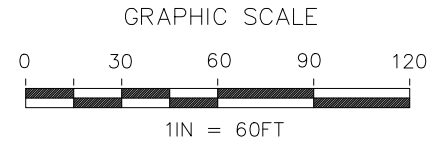
Midlands
Environmental
Consultants, Inc.

JOB NO. 25-8521
DATE July 28, 2025
FIGURE 3

GROUNDWATER COC CONCENTRATION DATA (OXYGENATES)								
Well ID#	TAA	TAME	ETBA	TBA	TBF	DIPE	Ethanol	ETBE
	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)
	RBSL 240	RBSL 128	RBSL NE	RBSL 1,400	RBSL NE	RBSL 150	RBSL 10,000	RBSL 47
03423-MW01	1730	29.5	<135	<228	<60.2	89.4	<360	<21.2
03423-MW02	<65.6	5.3 J	<53.9	<91.0	<24.1	22.5	<144	<8.5
03423-MW03	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
03423-MW04	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
03423-MW05	<65.6	<3.0	<53.9	<91.0	<24.1	23.0	<144	<8.5
03423-MW06	2820	32.1	<108	<182	<48.2	129	<288	<16.9
03423-MW07	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
03423-MW08	<13100	<608	<10800	<18200	<4820	<698	<28800	<1690
03423-MW09	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
03423-MW10	351	<7.6	<135	<228	<60.2	19.3	<360	<21.2
03423-DW01	<65.6	3.2 J	<53.9	<91.0	<24.1	18.6	<144	<8.5
03423-DW02	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
03423-DW03	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
03423-DW04	<65.6	<30.4	<53.9	<91.0	<24.1	<34.9	<1440	<84.6
03423-SW01	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
03423-SW02	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
03423-SW03	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
03423-SW04	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
03423-SW05	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
03423-SW06	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
03423-WSW01	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
03423-WSW02	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
03423-WSW03	NS	NS	NS	NS	NS	NS	NS	NS
DUP-1(MW01)	1630	29.1	<108	<182	<48.2	91.4	<288	<16.9
DUP. (WSW01)	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
Field Blank	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
Trip Blank	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2



Drawing Based on MECI Field Notes, Florence County GIS Imagery and an RLS Survey by Construction Support Services, dated 2/25/2022.



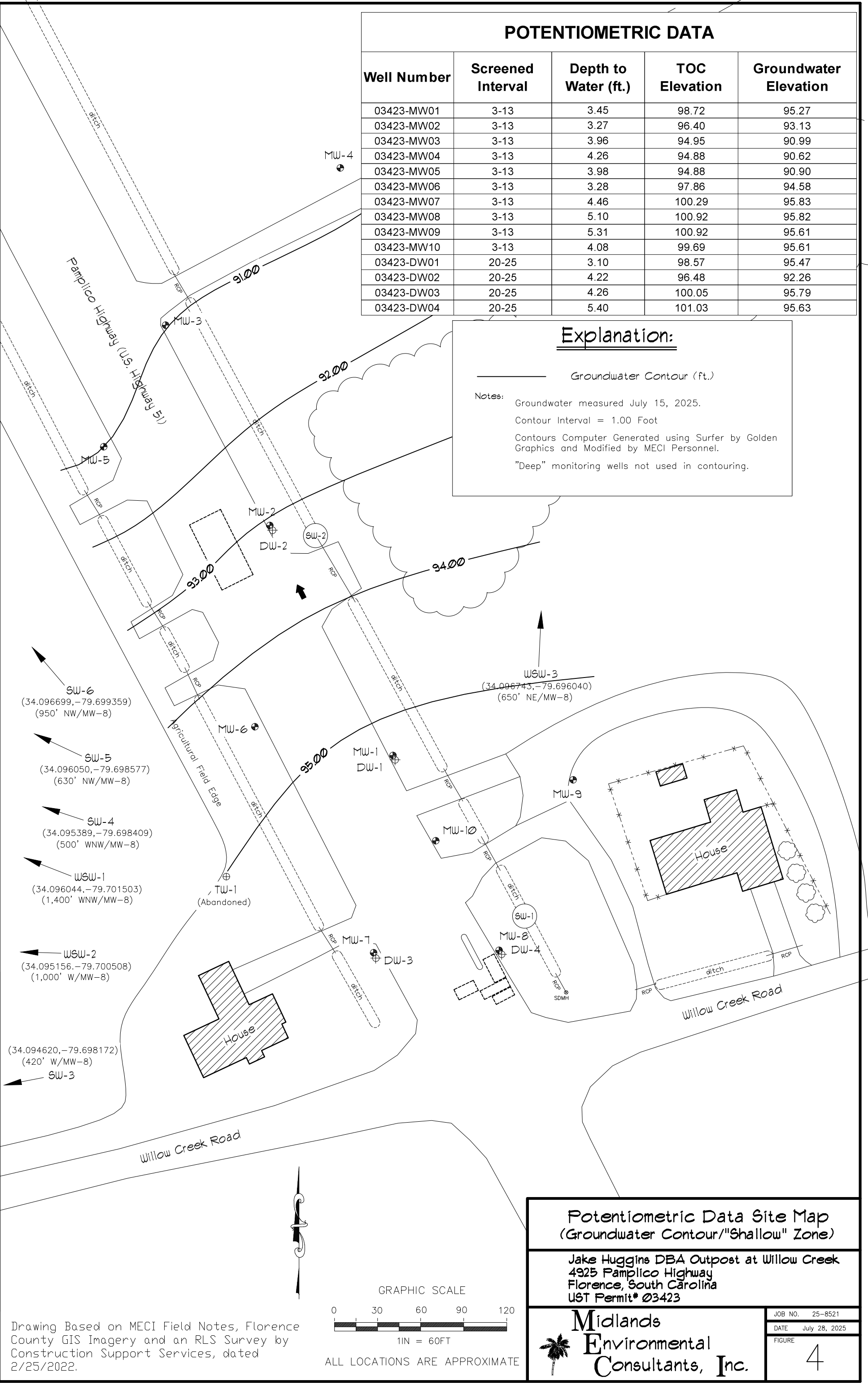
ALL LOCATIONS ARE APPROXIMATE

POTENTIOMETRIC DATA				
Well Number	Screened Interval	Depth to Water (ft.)	TOC Elevation	Groundwater Elevation
03423-MW01	3-13	3.45	98.72	95.27
03423-MW02	3-13	3.27	96.40	93.13
03423-MW03	3-13	3.96	94.95	90.99
03423-MW04	3-13	4.26	94.88	90.62
03423-MW05	3-13	3.98	94.88	90.90
03423-MW06	3-13	3.28	97.86	94.58
03423-MW07	3-13	4.46	100.29	95.83
03423-MW08	3-13	5.10	100.92	95.82
03423-MW09	3-13	5.31	100.92	95.61
03423-MW10	3-13	4.08	99.69	95.61
03423-DW01	20-25	3.10	98.57	95.47
03423-DW02	20-25	4.22	96.48	92.26
03423-DW03	20-25	4.26	100.05	95.79
03423-DW04	20-25	5.40	101.03	95.63

Explanation:

Groundwater Contour (ft.)

Notes: Groundwater measured July 15, 2025.
Contour Interval = 1.00 Foot
Contours Computer Generated using Surfer by Golden Graphics and Modified by MECI Personnel.
"Deep" monitoring wells not used in contouring.



Potentiometric Data Site Map
(Groundwater Contour/"Shallow" Zone)

Jake Huggins DBA Outpost at Willow Creek
4925 Pamplico Highway
Florence, South Carolina
UST Permit# 03423

Midlands
Environmental
Consultants, Inc.

JOB NO. 25-8521
DATE July 28, 2025
FIGURE

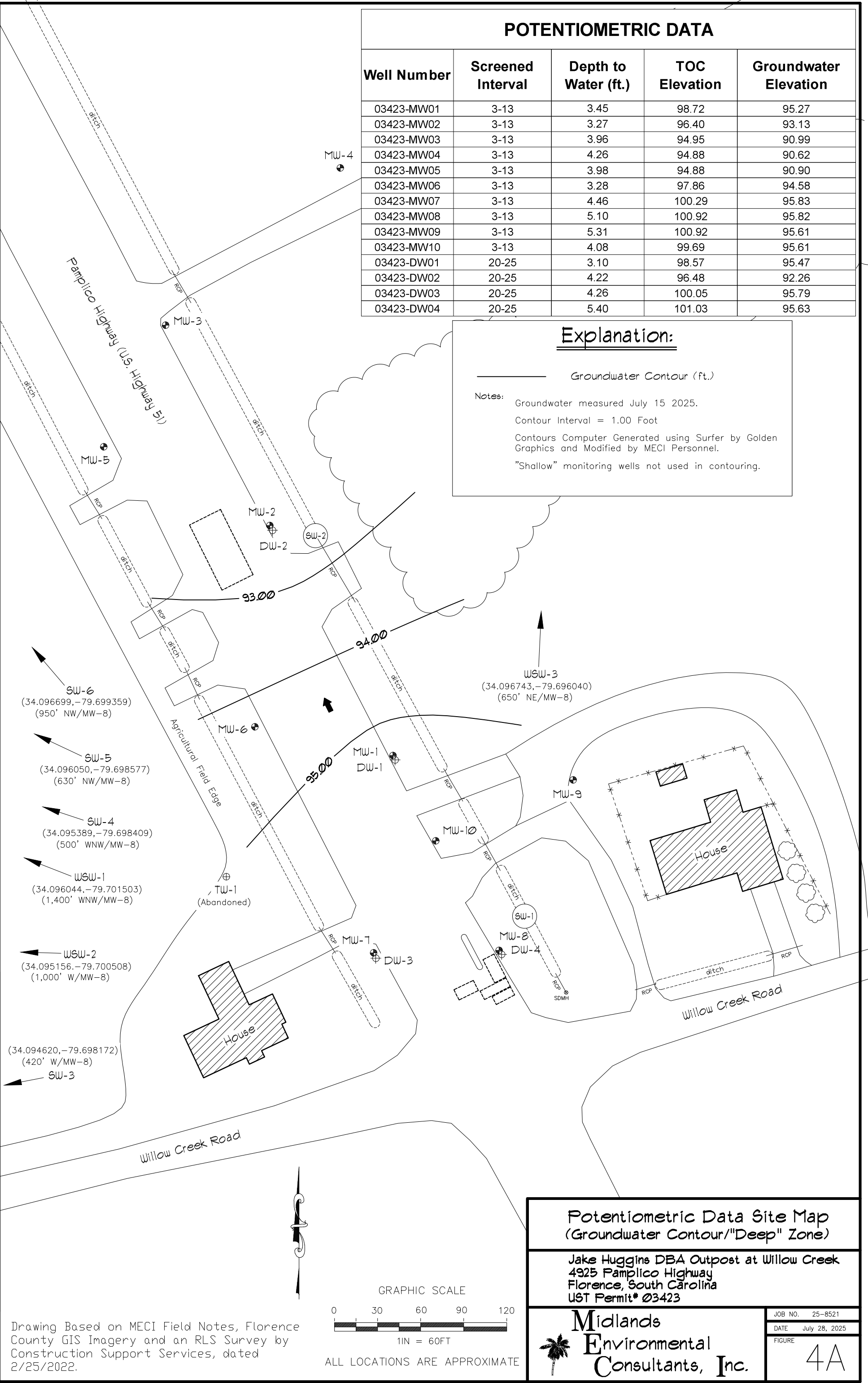
4

POTENTIOMETRIC DATA				
Well Number	Screened Interval	Depth to Water (ft.)	TOC Elevation	Groundwater Elevation
03423-MW01	3-13	3.45	98.72	95.27
03423-MW02	3-13	3.27	96.40	93.13
03423-MW03	3-13	3.96	94.95	90.99
03423-MW04	3-13	4.26	94.88	90.62
03423-MW05	3-13	3.98	94.88	90.90
03423-MW06	3-13	3.28	97.86	94.58
03423-MW07	3-13	4.46	100.29	95.83
03423-MW08	3-13	5.10	100.92	95.82
03423-MW09	3-13	5.31	100.92	95.61
03423-MW10	3-13	4.08	99.69	95.61
03423-DW01	20-25	3.10	98.57	95.47
03423-DW02	20-25	4.22	96.48	92.26
03423-DW03	20-25	4.26	100.05	95.79
03423-DW04	20-25	5.40	101.03	95.63

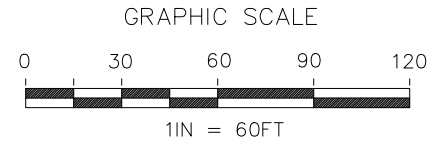
Explanation:

Groundwater Contour (ft.)

Notes: Groundwater measured July 15 2025.
Contour Interval = 1.00 Foot
Contours Computer Generated using Surfer by Golden Graphics and Modified by MECI Personnel.
"Shallow" monitoring wells not used in contouring.



Drawing Based on MECI Field Notes, Florence County GIS Imagery and an RLS Survey by Construction Support Services, dated 2/25/2022.



ALL LOCATIONS ARE APPROXIMATE

Potentiometric Data Site Map
(Groundwater Contour/"Deep" Zone)

Jake Huggins DBA Outpost at Willow Creek
4925 Pamplico Highway
Florence, South Carolina
UST Permit# 03423

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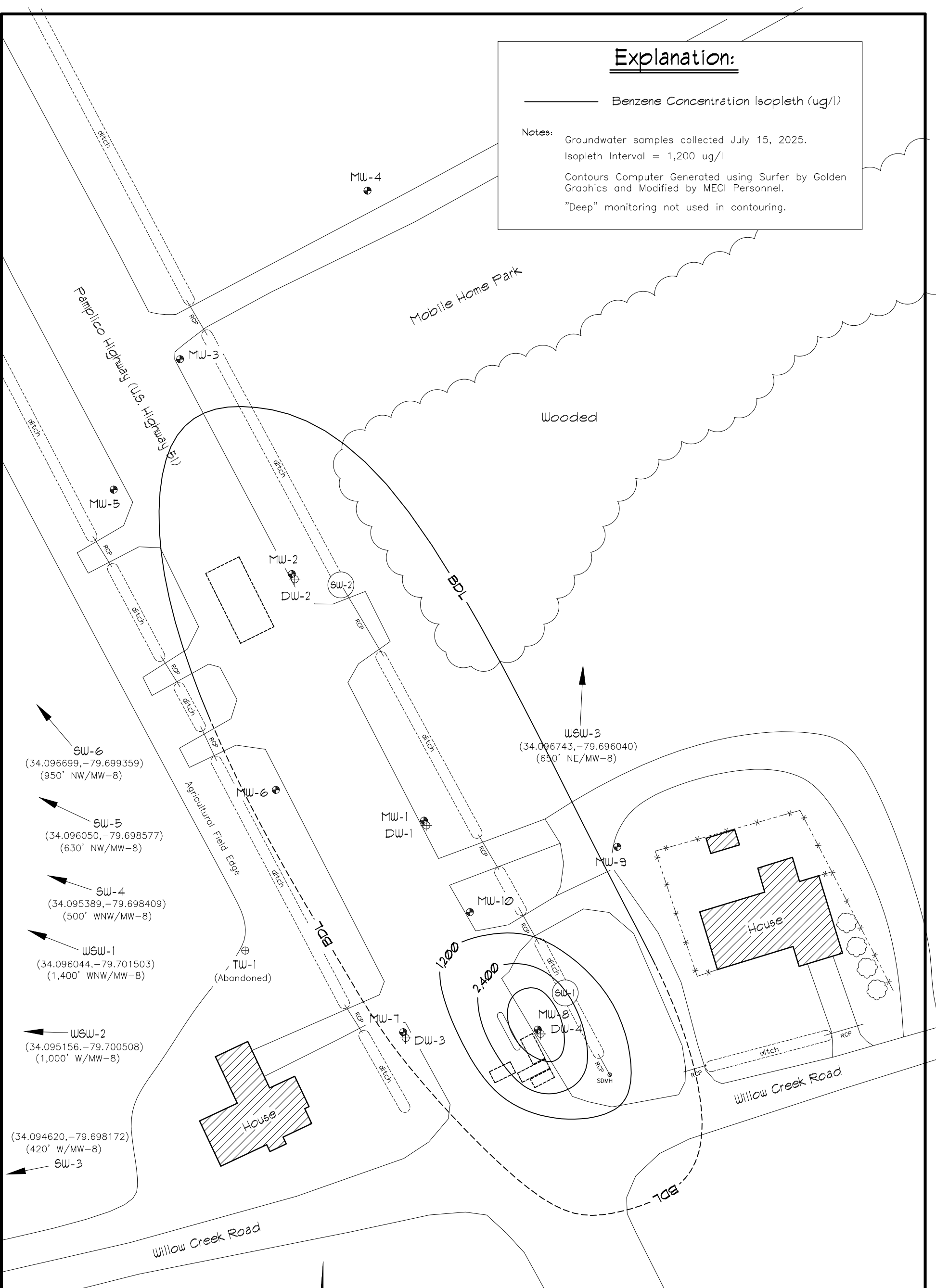
JOB NO. 25-8521
DATE July 28, 2025
FIGURE

4A

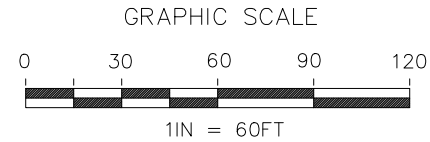
Explanation:

Benzene Concentration Isopleth (ug/l)

Notes: Groundwater samples collected July 15, 2025.
Isopleth Interval = 1,200 ug/l
Contours Computer Generated using Surfer by Golden Graphics and Modified by MECI Personnel.
"Deep" monitoring not used in contouring.



Drawing Based on MECI Field Notes, Florence County GIS Imagery and an RLS Survey by Construction Support Services, dated 2/25/2022.



ALL LOCATIONS ARE APPROXIMATE

Benzene Isopleth - "Shallow" Zone

Jake Huggins DBA Outpost at Willow Creek
4925 Pamplico Highway
Florence, South Carolina
UST Permit# 03423

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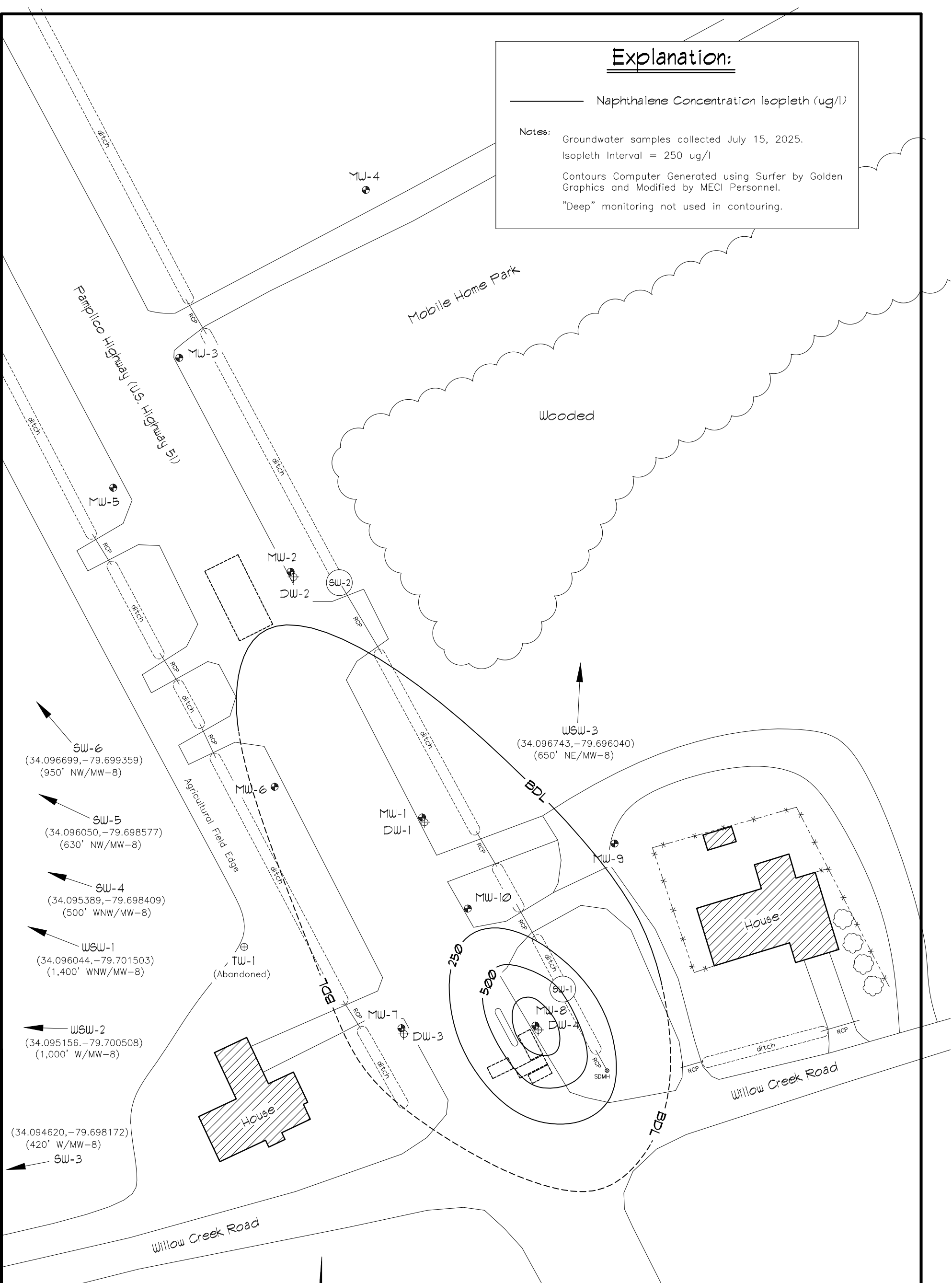
JOB NO. 25-8521
DATE July 28, 2025
FIGURE

5

Explanation:

Naphthalene Concentration Isopleth (ug/l)

Notes: Groundwater samples collected July 15, 2025.
Isopleth Interval = 250 ug/l
Contours Computer Generated using Surfer by Golden Graphics and Modified by MECI Personnel.
"Deep" monitoring not used in contouring.



Naphthalene Isopleth - "Shallow" Zone

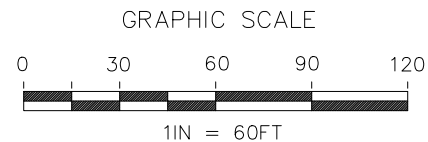
Jake Huggins DBA Outpost at Willow Creek
4925 Pamplico Highway
Florence, South Carolina
UST Permit# 03423

Midlands
Environmental
Consultants, Inc.

JOB NO. 25-8521
DATE July 28, 2025
FIGURE

5A

Drawing Based on MECI Field Notes, Florence County GIS Imagery and an RLS Survey by Construction Support Services, dated 2/25/2022.

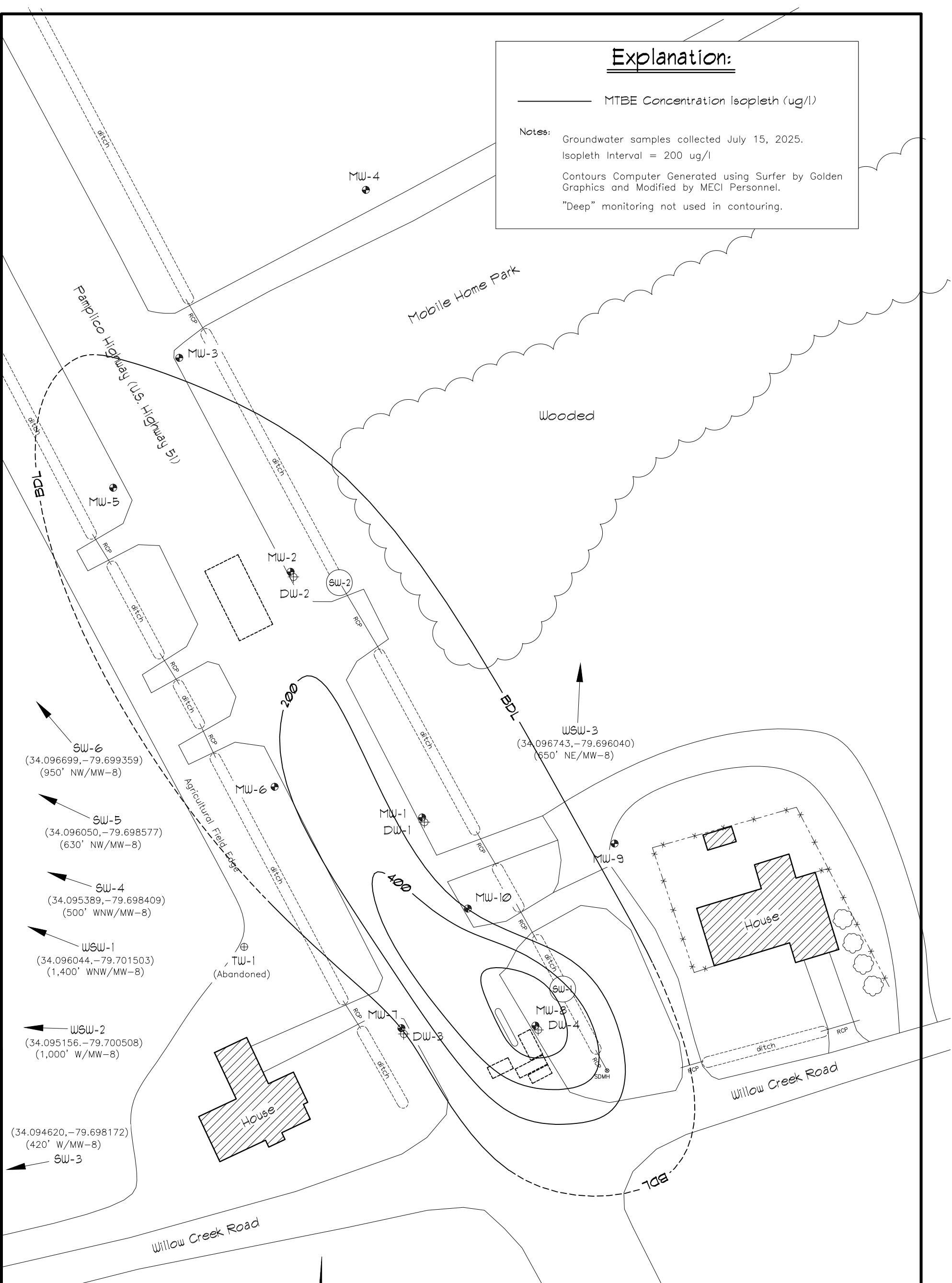


ALL LOCATIONS ARE APPROXIMATE

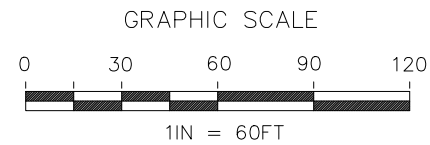
Explanation:

MTBE Concentration Isopleth (ug/l)

Notes: Groundwater samples collected July 15, 2025.
Isopleth Interval = 200 ug/l
Contours Computer Generated using Surfer by Golden Graphics and Modified by MECI Personnel.
"Deep" monitoring not used in contouring.



Drawing Based on MECI Field Notes, Florence County GIS Imagery and an RLS Survey by Construction Support Services, dated 2/25/2022.



MTBE Isopleth - "Shallow" Zone

Jake Huggins DBA Outpost at Willow Creek
4925 Pamplico Highway
Florence, South Carolina
UST Permit# 03423

Midlands
Environmental
Consultants, Inc.

JOB NO. 25-8521
DATE July 28, 2025
FIGURE

5B

APPENDIX A:

SITE SURVEY

(Not Applicable)

APPENDIX B:

SAMPLING LOGS, LABORATORY DATA SHEETS, & CHAIN-OF-CUSTODY FORMS

Monitoring Well Purge And Sampling Data

Field Personnel:

Sampling Date(s):

Sampling Case#:

Job Name:

Job Number:

Calibration Data for:

Calibration Successful? Yes or No (Please Circle)

pH: Yes No
Conductivity: Yes No
Dissolved Oxygen: Yes No
Turbidity: Yes No

Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height *(feet)	Gallons Purged		Notes
								product	initial H ₂ O	final H ₂ O			**calc.	actual	
MW-1	Initial	11:22	4.58	120.7	28.3	0.66	9.89				3 1/3	9.55	1.56	1.56	Slight odor Jup-7
	1st	11:24	4.47	118.6	27.9	0.90	12.60		3.45	4.15					
	2nd	11:26	4.40	115.8	27.6	0.99	28.10								
	3rd	11:28	4.38	110.6	27.4	1.22	30.44								
	4th														
	5th														
	Sampling	13:40	4.39	114.9	27.6	1.25	10.81			7.80			4.75 gal		
MW-2	Initial	10:47	4.40	159.7	26.2	1.73	9.15				3 1/3	9.73	1.59	1.59	No odor
	1st	10:49	4.38	150.8	26.1	1.88	13.10		3.27	4.10					
	2nd	10:51	4.33	149.7	25.8	1.82	18.6								
	3rd	10:53	4.28	140.6	25.4	1.88	23.60								
	4th														
	5th														
	Sampling	13:10	4.39	151.2	25.7	1.89	10.01			7.95			5 gal		
MW-3	Initial	10:00	5.56	373.7	28.8	2.87	9.30				3 1/3	9.04	1.47	1.47	No odor
	1st	10:02	5.10	370.2	28.2	2.91	12.60		3.96	4.25					
	2nd	10:04	4.95	368.4	28.1	2.98	18.90								
	3rd	10:06	4.93	360.5	27.4	3.02	24.10								
	4th														
	5th														
	Sampling	12:30	4.89	363.7	27.8	3.01	10.11			7.35			4.50 gal		
MW-4	Initial	10:01	5.50	156.3	25.1	1.82	9.32				3 1/3	8.74	1.42	1.42	No odor
	1st	10:03	5.39	150.2	24.8	1.90	12.60		4.26	4.88					
	2nd	10:05	5.35	149.6	24.3	1.99	20.11								
	3rd	10:07	5.28	148.1	24.2	2.10	30.12								
	4th														
	5th														
	Sampling	12:31	5.39	155.3	24.4	1.95	15.22			7.10			4.50 gal		

*= (Depth of Well) - (Depth to Water) = Water Height
One Well Volume = 0.17 for 1" well x 100 ft

**= One Well Volume x 5 = Gallons

*= (Depth of Well) - (Depth to Water = Water Height)

One Well Volume = x.047 for 1" wells * x .163 for 2" wells, or * x .66 for 4" wells, 1.469 for 6" wells

**= One Well Volume x 5 = Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	Ph/Conductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251

Monitoring Well Purge And Sampling Data

Field Personnel: TR, D. G. H. N.
Sampling Date(s): 7/15/20
Sampling Case#: 2

Job Name: 25-8521
Job Number: Take Huggins
Name:

Calibration Data for:

Calibration Successful? Yes or No (Please Circle)
pH: Yes No
Conductivity: Yes No
Dissolved Oxygen: Yes No
Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height *(feet)	Gallons Purged		Notes
								product	initial H ₂ O	final H ₂ O			**calc.	actual	
MW-5	Initial	10:15	4.46	116.6	29.1	2.10	9.35				3 1/3	9.02	1.47	Dry @ 4.50 gal	No odor
	1st	10:17	4.40	110.2	28.5	2.15	12.01								
	2nd	10:19	4.15	108.6	28.3	2.24	19.41	3.98	4.33						
	3rd	10:21	4.02	104.9	28.2	2.26	22.60								
	4th														
	5th														
	Sampling	12:40	4.09	107.3	28.9	2.24	16.40								
MW-6	Initial	10:26	5.02	133.5	29.0	2.03	9.88				3 1/3	9.72	1.58	Dry @ 4.75 gal	No odor
	1st	10:28	4.95	127.9	28.5	2.18	12.88								
	2nd	10:30	4.91	123.4	28.3	2.35	16.10	3.28	3.99						
	3rd	10:32	4.72	120.6	28.2	2.51	19.25								
	4th														
	5th														
	Sampling	12:43	4.68	129.5	28.8	2.50	10.01								
MW-7	Initial	10:33	5.02	124.2	27.7	1.80	9.33				3 1/3	8.54	1.39	Dry @ 6.95	No odor
	1st	10:35	4.99	120.8	25.8	1.82	12.10								
	2nd	10:37	4.83	118.2	25.9	1.88	20.11	4.46	5.10						
	3rd	10:39	4.80	116.5	25.6	1.89	25.60								
	4th														
	5th														
	Sampling	12:50	4.95	120.7	25.8	1.87	13.18								
MW-8	Initial	11:22	5.87	378.7	26.6	1.03	9.19				3 1/3	7.90	1.29	Dry @ 6.45	odor
	1st	11:24	5.80	370.2	26.4	1.10	13.80								
	2nd	11:26	5.76	368.9	26.3	1.18	15.90	5.10	6.02						
	3rd	11:28	5.70	366.4	26.1	1.22	20.11								
	4th														
	5th														
	Sampling	13:41	5.74	360.3	26.4	1.08	10.60								

*(Depth of Well) - (Depth to Water = Water Height
One Well Volume = x.047 for 1" wells * x .163 for 2" wells, or * x .66 for 4" wells, 1.480 for 6" wells

**= One Well Volume x 5 = Gallons Purged (calculated)

*= (Depth of Well) - (Depth to Water) = Water Height

One Well Volume = x.047 for 1" wells * x .163 for 2" wells, or * x .66 for 4" wells, 1.469 for 6" wells

**= One Well Volume x 5 = Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	Ph/Conductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251

Monitoring Well Purge And Sampling Data

Field Personnel: TR, D. G. H. W.
Sampling Date(s): 7/15/20
Sampling Case#: 2

Job Name: 25-8521
Job Number: Take Huggins
Name:

Calibration Data for :

Calibration Successful? Yes or No (Please Circle)
pH: Yes No
Conductivity: Yes No
Dissolved Oxygen: Yes No
Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height *(feet)	Gallons Purged		Notes
								product	initial H ₂ O	final H ₂ O			**calc.	actual	
MW-9	Initial	11:18	5.97	236.0	24.6	1.90	9.16								
	1st	11:20	5.88	230.6	24.1	1.90	13.10								
	2nd	11:22	5.83	227.1	23.8	1.978	14.45								
	3rd	11:24	5.80	220.8	23.7	1.70	19.20								
	4th														
	5th														
	Sampling	13:50	5.85	232.4	24.5	1.76	10.38								
MW-10	Initial	11:07	6.28	448.1	28.2	1.46	9.18								
	1st	11:09	6.20	440.3	28.1	1.40	13.88								
	2nd	11:09	6.18	435.9	27.8	1.37	15.10								
	3rd	11:13	6.10	430.2	27.3	1.30	19.20								
	4th														
	5th														
	Sampling	13:48	6.13	433.9	27.5	1.41	11.15								
DW-1	Initial	11:05	5.39	187.3	27.2	2.90	9.89								
	1st	11:09	5.45	130.8	26.8	2.88	12.10								
	2nd	11:13	5.52	128.2	26.5	2.82	20.44								
	3rd	11:17	5.66	122.9	26.3	2.79	25.90								
	4th														
	5th														
	Sampling	13:30	5.60	137.4	26.9	2.80	12.06								
DW-2	Initial	10:45	5.75	112.2	27.8	2.01	9.14								
	1st	10:49	5.81	108.9	27.2	1.95	12.04								
	2nd	10:53	5.89	106.4	27.0	1.91	20.88								
	3rd	10:57	5.99	104.3	27.3	1.88	22.60								
	4th														
	5th														
	Sampling	13:15	5.88	107.1	27.4	1.89	13.09								

*= (Depth of Well) - (Depth to Water = Water Height)

One Well Volume = x.047 for 1" wells * x.163 for 2" wells, or * x.66 for 4" wells, 1.469 for 6" wells

**= One Well Volume x 5 = Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	Ph/Conductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251

Monitoring Well Purge And Sampling Data

Field Personnel: TR, D. G. H. N.
Sampling Date(s): 7/15/20
Sampling Case#: 2

Job Name: 25-8521
Job Number: Take Huggins
Name:

Calibration Data for :

Calibration Successful? Yes or No (Please Circle)
pH: Yes No
Conductivity: Yes No
Dissolved Oxygen: Yes No
Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Dissolved Oxygen: <u>Yes</u> <u>No</u>			Turbidity: <u>Conductivity</u> <u>Calibrated Every 3 Months by QA Manager</u>				
								Depth to (feet):			Well Depth (feet)	Water Height *(feet)	Gallons Purged		Notes
								product	initial H ₂ O	final H ₂ O			**calc.	actual	
DW-3	Initial	10:16	6.33	132.0	27.7	1.30	9.09	4.26	4.98	20-25	20.74	3.38	Dry	No odor	
	1st	10:20	6.50	130.8	25.3	1.28	12.01					16.90	6.25 gal		
	2nd	10:24	6.22	129.9	25.4	1.22	13.10								
	3rd	10:28	6.19	124.2	25.3	1.20	16.11								
	4th														
	5th														
	Sampling	12:46	6.25	126.3	26.9	1.29	10.50								
DW-4	Initial	11:06	5.40	141.8	25.8	2.32	9.52	5.40	6.20	20-25	19.60	3.19	Dry	No odor	
	1st	11:10	5.43	138.6	25.3	2.30	10.50					15.95	9.75 gal		
	2nd	11:14	5.47	132.4	25.2	2.18	30.28								
	3rd	11:18	5.49	130.9	25.1	2.11	32.95								
	4th														
	5th														
	Sampling	13:31	5.41	137.3	25.4	2.19	10.18								
SW-1	Initial	11:29	7.10	92.9	30.1	3.22		(34.095076, -79.696772)							
	1st														
	2nd														
	3rd	Sampled	from	ditch											
	4th	alongside	HWY												
	5th														
	Sampling														
SW-2	Initial	10:46	6.18	158.7	27.8	1.89	9.15	(34.095847, -79.697296)							
	1st														
	2nd														
	3rd	Sampled	from	ditch											
	4th	alongside	HWY												
	5th														
	Sampling														

*= (Depth of Well) - (Depth to Water = Water Height)

One Well Volume = x.047 for 1" wells * x.163 for 2" wells, or * x.66 for 4" wells, 1.402 for 6" wells

**= One Well Volume x 5 = Gallons Purged (calculated)

*= (Depth of Well) - (Depth to Water = Water Height)

One Well Volume = x .047 for 1" wells, * x .163 for 2" wells, or * x .66 for 4" wells, 1.469 for 6" wells

**= One Well Volume x 5 = Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	Ph/Conductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251

Monitoring Well Purge And Sampling Data

Field Personnel: TX, D. G. H. N
Sampling Date(s): 7/15/20
Sampling Case#: 2

Job Name: 25-8521
Job Number: Take Huggins
Name: Take Huggins

Calibration Data for:

Calibration Successful? Yes or No (Please Circle)
pH: Yes No

Conductivity: Yes No

Dissolved Oxygen: Yes No

Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height *(feet)	Gallons Purged		Notes
								product	initial H ₂ O	final H ₂ O			**calc.	actual	
SW-3	Initial														
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling														
SW-4	Initial														
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling														
SW-5	Initial														
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling														
SW-6	Initial														
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Sampling														

*= (Depth of Well) - (Depth to Water = Water Height)

One Well Volume = x.047 for 1" wells * x.163 for 2" wells, or * x.66 for 4" wells, 1.469 for 6" wells

**= One Well Volume x 5 = Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	Ph/Conductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251

Monitoring Well Purge And Sampling Data

Field Personnel: TX, OG, PHN
Sampling Date(s): 7/15/20
Sampling Case#: 2

Job Name: 25-8521
Job Number: Take Huggins
Name:

Calibration Data for:
Calibration Successful? Yes or No (Please Circle)
pH: Yes No
Conductivity: Yes No
Dissolved Oxygen: Yes No
Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height *(feet)	Gallons Purged		Notes
								product	initial H ₂ O	final H ₂ O			**calc.	actual	
Dup-1 FB TB-1	Initial	13:40													
	1st														
	2nd														
	3rd														
	4th	13:53													
	5th														
WSW-1	Initial	11:45	7.15	110.6	15.9	2.20	30.15								
	1st														
	2nd														
	3rd														
	4th														
	5th														
WSW-2	Initial	11:55	8.10	105.9	16.7	6.50	2.85								
	1st														
	2nd														
	3rd														
	4th														
	5th														
WSW-3	Initial														
	1st														
	2nd														
	3rd														
	4th														
	5th														

*= (Depth of Well) - (Depth to Water = Water Height)

One Well Volume = x.047 for 1" wells, * x .163 for 2" wells, or * x .66 for 4" wells, 1.469 for 6" wells

**= One Well Volume x 5 = Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	Ph/Conductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251

Monitoring Well Purge And Sampling Data

Field Personnel: TX, D. G. H. N.
Sampling Date(s): 7/15/20
Sampling Case#: 2

Job Name: 25-8521
Job Number: Take Huggins
Name: Take Huggins

Calibration Data for :

Calibration Successful? Yes or No (Please Circle)
pH: Yes No
Conductivity: Yes No
Dissolved Oxygen: Yes No
Turbidity: Conductivity

Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height *(feet)	Gallons Purged		Notes
								product	initial H ₂ O	final H ₂ O			**calc.	actual	
WSW-4	Initial														
	1st														
	2nd														
	3rd														
	4th														
	5th														
WSW-Dup WSW-FB WSW-TB	Initial														
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Initial														
	1st														
	2nd														
	3rd														
	4th														
	5th														
	Initial														
	1st														
	2nd														
	3rd														
	4th														
	5th														

*= (Depth of Well) - (Depth to Water) = Water Height

One Well Volume = x.047 for 1" wells * x.163 for 2" wells, or * x.66 for 4" wells, 1.469 for 6" wells

**= One Well Volume x 5 = Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	Ph/Conductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251



July 28, 2025

Mr. Bryan Shane, P.G.
Midlands Environmental
PO Box 854
Lexington, SC 29071

RE: Project: JAKE HUGGIN'S DBA OUTPOST 3423
Pace Project No.: 92807874

Dear Mr. Shane, P.G.:

Enclosed are the analytical results for sample(s) received by the laboratory on July 16, 2025. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Charlotte

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Blake Hilton

Blake Hilton
blake.hilton@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Mr. Jeff Coleman, Midlands Environmental



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CERTIFICATIONS

Project: JAKE HUGGIN'S DBA OUTPOST 3423
Pace Project No.: 92807874

Pace Analytical Services Charlotte

South Carolina Laboratory ID: 99006
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Laboratory ID: 99006

South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DoH Drinking Water #: LA029
Virginia/VELAP Certification #: 460221

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SAMPLE ANALYTE COUNT

Project: JAKE HUGGIN'S DBA OUTPOST 3423

Pace Project No.: 92807874

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92807874001	MW-1	EPA 8011	SMS1	2	PASI-C
		EPA 8260D	TMH	20	PASI-C
92807874002	MW-2	EPA 8011	SMS1	2	PASI-C
		EPA 8260D	TMH	20	PASI-C
92807874003	MW-3	EPA 8011	SMS1	2	PASI-C
		EPA 8260D	TMH	20	PASI-C
92807874004	MW-4	EPA 8011	SMS1	2	PASI-C
		EPA 8260D	TMH	20	PASI-C
92807874005	MW-5	EPA 8011	SMS1	2	PASI-C
		EPA 8260D	TMH	20	PASI-C
92807874006	MW-6	EPA 8011	SMS1	2	PASI-C
		EPA 8260D	TMH	20	PASI-C
92807874007	MW-7	EPA 8011	SMS1	2	PASI-C
		EPA 8260D	TMH	20	PASI-C
92807874008	MW-8	EPA 8011	SMS1	2	PASI-C
		EPA 8260D	TMH	20	PASI-C
92807874009	MW-9	EPA 8011	SMS1	2	PASI-C
		EPA 8260D	TMH	20	PASI-C
92807874010	MW-10	EPA 8011	SMS1	2	PASI-C
		EPA 8260D	SAS	20	PASI-C
92807874011	DW-1	EPA 8011	SMS1	2	PASI-C
		EPA 8260D	TMH	20	PASI-C
92807874012	DW-2	EPA 8011	SMS1	2	PASI-C
		EPA 8260D	TMH	20	PASI-C
92807874013	DW-3	EPA 8011	SMS1	2	PASI-C
		EPA 8260D	TMH	20	PASI-C
92807874014	DW-4	EPA 8011	SMS1	2	PASI-C
		EPA 8260D	SAS	20	PASI-C
92807874015	SW-1	EPA 8011	SMS1	2	PASI-C
		EPA 8260D	LMB	20	PASI-C
92807874016	SW-2	EPA 8011	SMS1	2	PASI-C
		EPA 8260D	LMB	20	PASI-C
92807874017	DUP-1	EPA 8011	SMS1	2	PASI-C
		EPA 8260D	SAS	20	PASI-C
92807874018	FB	EPA 8011	SMS1	2	PASI-C
		EPA 8260D	TMH	20	PASI-C
92807874019	GAC	EPA 8011	SMS1	2	PASI-C

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SAMPLE ANALYTE COUNT

Project: JAKE HUGGIN'S DBA OUTPOST 3423

Pace Project No.: 92807874

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92807874020	TB	EPA 8260D	TMH	20	PASI-C
		EPA 8260D	TMH	20	PASI-C
92807874021	WSW-1	EPA 504.1	SMS1	2	PASI-C
		EPA 524.2	JN	11	PASI-C
92807874022	WSW-2	EPA 8260D	SAS	11	PASI-C
		EPA 504.1	SMS1	2	PASI-C
		EPA 524.2	JN	11	PASI-C
		EPA 8260D	SAS	11	PASI-C
92807874023	WSW-DUP	EPA 504.1	SMS1	2	PASI-C
		EPA 524.2	JN	11	PASI-C
		EPA 8260D	SAS	11	PASI-C
92807874024	WSW-FB	EPA 504.1	SMS1	2	PASI-C
		EPA 524.2	JN	11	PASI-C
		EPA 8260D	JN	11	PASI-C
92807874025	WSW-TB	EPA 524.2	JN	11	PASI-C
		EPA 8260D	JN	11	PASI-C

PASI-C = Pace Analytical Services - Charlotte

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: JAKE HUGGIN'S DBA OUTPOST 3423

Pace Project No.: 92807874

Sample: MW-1		Lab ID: 92807874001		Collected: 07/15/25 13:40		Received: 07/16/25 15:10		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8011 GCS EDB and DBCP		Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	07/22/25 07:53	07/22/25 19:39	106-93-4		
Surrogates									
1-Chloro-2-bromopropane (S)	132	%	60-140	1	07/22/25 07:53	07/22/25 19:39	301-79-56		
8260 MSV		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	1730	ug/L	250	2.5		07/17/25 22:20	75-85-4		
tert-Amylmethyl ether	29.5	ug/L	25.0	2.5		07/17/25 22:20	994-05-8		
Benzene	256	ug/L	12.5	2.5		07/17/25 22:20	71-43-2		
3,3-Dimethyl-1-Butanol	ND	ug/L	250	2.5		07/17/25 22:20	624-95-3		
tert-Butyl Alcohol	ND	ug/L	250	2.5		07/17/25 22:20	75-65-0		
tert-Butyl Formate	ND	ug/L	125	2.5		07/17/25 22:20	762-75-4		
1,2-Dichloroethane	ND	ug/L	12.5	2.5		07/17/25 22:20	107-06-2		
Diisopropyl ether	89.4	ug/L	12.5	2.5		07/17/25 22:20	108-20-3		
Ethanol	ND	ug/L	500	2.5		07/17/25 22:20	64-17-5		
Ethylbenzene	6.4J	ug/L	12.5	2.5		07/17/25 22:20	100-41-4		
Ethyl-tert-butyl ether	ND	ug/L	25.0	2.5		07/17/25 22:20	637-92-3		
Methyl-tert-butyl ether	158	ug/L	12.5	2.5		07/17/25 22:20	1634-04-4		
Naphthalene	27.5	ug/L	12.5	2.5		07/17/25 22:20	91-20-3		
Toluene	7.2J	ug/L	12.5	2.5		07/17/25 22:20	108-88-3		
Xylene (Total)	ND	ug/L	12.5	2.5		07/17/25 22:20	1330-20-7		
m&p-Xylene	ND	ug/L	25.0	2.5		07/17/25 22:20	179601-23-1		
o-Xylene	ND	ug/L	12.5	2.5		07/17/25 22:20	95-47-6		
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130	2.5		07/17/25 22:20	460-00-4		
1,2-Dichloroethane-d4 (S)	83	%	70-130	2.5		07/17/25 22:20	17060-07-0		
Toluene-d8 (S)	98	%	70-130	2.5		07/17/25 22:20	2037-26-5		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: JAKE HUGGIN'S DBA OUTPOST 3423

Pace Project No.: 92807874

Sample: MW-2		Lab ID: 92807874002		Collected: 07/15/25 13:10		Received: 07/16/25 15:10		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8011 GCS EDB and DBCP		Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	07/22/25 07:53	07/22/25 20:01	106-93-4	M1	
Surrogates									
1-Chloro-2-bromopropane (S)	125	%	60-140	1	07/22/25 07:53	07/22/25 20:01	301-79-56		
8260 MSV		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		07/17/25 18:06	75-85-4		
tert-Amylmethyl ether	5.3J	ug/L	10.0	1		07/17/25 18:06	994-05-8		
Benzene	19.4	ug/L	5.0	1		07/17/25 18:06	71-43-2		
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		07/17/25 18:06	624-95-3		
tert-Butyl Alcohol	ND	ug/L	100	1		07/17/25 18:06	75-65-0		
tert-Butyl Formate	ND	ug/L	50.0	1		07/17/25 18:06	762-75-4	P5	
1,2-Dichloroethane	ND	ug/L	5.0	1		07/17/25 18:06	107-06-2		
Diisopropyl ether	22.5	ug/L	5.0	1		07/17/25 18:06	108-20-3	M1	
Ethanol	ND	ug/L	200	1		07/17/25 18:06	64-17-5		
Ethylbenzene	ND	ug/L	5.0	1		07/17/25 18:06	100-41-4		
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		07/17/25 18:06	637-92-3		
Methyl-tert-butyl ether	131	ug/L	5.0	1		07/17/25 18:06	1634-04-4	M1	
Naphthalene	ND	ug/L	5.0	1		07/17/25 18:06	91-20-3		
Toluene	ND	ug/L	5.0	1		07/17/25 18:06	108-88-3		
Xylene (Total)	ND	ug/L	5.0	1		07/17/25 18:06	1330-20-7		
m&p-Xylene	ND	ug/L	10.0	1		07/17/25 18:06	179601-23-1		
o-Xylene	ND	ug/L	5.0	1		07/17/25 18:06	95-47-6		
Surrogates									
4-Bromofluorobenzene (S)	88	%	70-130	1		07/17/25 18:06	460-00-4		
1,2-Dichloroethane-d4 (S)	82	%	70-130	1		07/17/25 18:06	17060-07-0		
Toluene-d8 (S)	99	%	70-130	1		07/17/25 18:06	2037-26-5		

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ANALYTICAL RESULTS

Project: JAKE HUGGIN'S DBA OUTPOST 3423

Pace Project No.: 92807874

Sample: MW-3		Lab ID: 92807874003		Collected: 07/15/25 12:30		Received: 07/16/25 15:10		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8011 GCS EDB and DBCP		Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	07/22/25 07:53	07/22/25 20:33	106-93-4		
Surrogates									
1-Chloro-2-bromopropane (S)	112	%	60-140	1	07/22/25 07:53	07/22/25 20:33	301-79-56		
8260 MSV		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		07/17/25 18:26	75-85-4		
tert-Amylmethyl ether	ND	ug/L	10.0	1		07/17/25 18:26	994-05-8		
Benzene	ND	ug/L	5.0	1		07/17/25 18:26	71-43-2		
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		07/17/25 18:26	624-95-3		
tert-Butyl Alcohol	ND	ug/L	100	1		07/17/25 18:26	75-65-0		
tert-Butyl Formate	ND	ug/L	50.0	1		07/17/25 18:26	762-75-4		
1,2-Dichloroethane	ND	ug/L	5.0	1		07/17/25 18:26	107-06-2		
Diisopropyl ether	ND	ug/L	5.0	1		07/17/25 18:26	108-20-3		
Ethanol	ND	ug/L	200	1		07/17/25 18:26	64-17-5		
Ethylbenzene	ND	ug/L	5.0	1		07/17/25 18:26	100-41-4		
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		07/17/25 18:26	637-92-3		
Methyl-tert-butyl ether	ND	ug/L	5.0	1		07/17/25 18:26	1634-04-4		
Naphthalene	ND	ug/L	5.0	1		07/17/25 18:26	91-20-3		
Toluene	ND	ug/L	5.0	1		07/17/25 18:26	108-88-3		
Xylene (Total)	ND	ug/L	5.0	1		07/17/25 18:26	1330-20-7		
m&p-Xylene	ND	ug/L	10.0	1		07/17/25 18:26	179601-23-1		
o-Xylene	ND	ug/L	5.0	1		07/17/25 18:26	95-47-6		
Surrogates									
4-Bromofluorobenzene (S)	89	%	70-130	1		07/17/25 18:26	460-00-4		
1,2-Dichloroethane-d4 (S)	83	%	70-130	1		07/17/25 18:26	17060-07-0		
Toluene-d8 (S)	98	%	70-130	1		07/17/25 18:26	2037-26-5		

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ANALYTICAL RESULTS

Project: JAKE HUGGIN'S DBA OUTPOST 3423

Pace Project No.: 92807874

Sample: MW-4		Lab ID: 92807874004		Collected: 07/15/25 12:31		Received: 07/16/25 15:10		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8011 GCS EDB and DBCP		Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	07/22/25 07:53	07/22/25 20:44	106-93-4		
Surrogates									
1-Chloro-2-bromopropane (S)	110	%	60-140	1	07/22/25 07:53	07/22/25 20:44	301-79-56		
8260 MSV		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		07/17/25 18:45	75-85-4		
tert-Amylmethyl ether	ND	ug/L	10.0	1		07/17/25 18:45	994-05-8		
Benzene	ND	ug/L	5.0	1		07/17/25 18:45	71-43-2		
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		07/17/25 18:45	624-95-3		
tert-Butyl Alcohol	ND	ug/L	100	1		07/17/25 18:45	75-65-0		
tert-Butyl Formate	ND	ug/L	50.0	1		07/17/25 18:45	762-75-4		
1,2-Dichloroethane	ND	ug/L	5.0	1		07/17/25 18:45	107-06-2		
Diisopropyl ether	ND	ug/L	5.0	1		07/17/25 18:45	108-20-3		
Ethanol	ND	ug/L	200	1		07/17/25 18:45	64-17-5		
Ethylbenzene	ND	ug/L	5.0	1		07/17/25 18:45	100-41-4		
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		07/17/25 18:45	637-92-3		
Methyl-tert-butyl ether	ND	ug/L	5.0	1		07/17/25 18:45	1634-04-4		
Naphthalene	ND	ug/L	5.0	1		07/17/25 18:45	91-20-3		
Toluene	ND	ug/L	5.0	1		07/17/25 18:45	108-88-3		
Xylene (Total)	ND	ug/L	5.0	1		07/17/25 18:45	1330-20-7		
m&p-Xylene	ND	ug/L	10.0	1		07/17/25 18:45	179601-23-1		
o-Xylene	ND	ug/L	5.0	1		07/17/25 18:45	95-47-6		
Surrogates									
4-Bromofluorobenzene (S)	90	%	70-130	1		07/17/25 18:45	460-00-4		
1,2-Dichloroethane-d4 (S)	85	%	70-130	1		07/17/25 18:45	17060-07-0		
Toluene-d8 (S)	98	%	70-130	1		07/17/25 18:45	2037-26-5		

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ANALYTICAL RESULTS

Project: JAKE HUGGIN'S DBA OUTPOST 3423

Pace Project No.: 92807874

Sample: MW-5		Lab ID: 92807874005		Collected: 07/15/25 12:40		Received: 07/16/25 15:10		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8011 GCS EDB and DBCP		Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	07/22/25 07:53	07/22/25 21:38	106-93-4		
Surrogates									
1-Chloro-2-bromopropane (S)	101	%	60-140	1	07/22/25 07:53	07/22/25 21:38	301-79-56		
8260 MSV		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		07/17/25 19:05	75-85-4		
tert-Amylmethyl ether	ND	ug/L	10.0	1		07/17/25 19:05	994-05-8		
Benzene	ND	ug/L	5.0	1		07/17/25 19:05	71-43-2		
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		07/17/25 19:05	624-95-3		
tert-Butyl Alcohol	ND	ug/L	100	1		07/17/25 19:05	75-65-0		
tert-Butyl Formate	ND	ug/L	50.0	1		07/17/25 19:05	762-75-4		
1,2-Dichloroethane	ND	ug/L	5.0	1		07/17/25 19:05	107-06-2		
Diisopropyl ether	23.0	ug/L	5.0	1		07/17/25 19:05	108-20-3		
Ethanol	ND	ug/L	200	1		07/17/25 19:05	64-17-5		
Ethylbenzene	ND	ug/L	5.0	1		07/17/25 19:05	100-41-4		
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		07/17/25 19:05	637-92-3		
Methyl-tert-butyl ether	79.9	ug/L	5.0	1		07/17/25 19:05	1634-04-4		
Naphthalene	ND	ug/L	5.0	1		07/17/25 19:05	91-20-3		
Toluene	ND	ug/L	5.0	1		07/17/25 19:05	108-88-3		
Xylene (Total)	ND	ug/L	5.0	1		07/17/25 19:05	1330-20-7		
m&p-Xylene	ND	ug/L	10.0	1		07/17/25 19:05	179601-23-1		
o-Xylene	ND	ug/L	5.0	1		07/17/25 19:05	95-47-6		
Surrogates									
4-Bromofluorobenzene (S)	87	%	70-130	1		07/17/25 19:05	460-00-4		
1,2-Dichloroethane-d4 (S)	85	%	70-130	1		07/17/25 19:05	17060-07-0		
Toluene-d8 (S)	101	%	70-130	1		07/17/25 19:05	2037-26-5		

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ANALYTICAL RESULTS

Project: JAKE HUGGIN'S DBA OUTPOST 3423

Pace Project No.: 92807874

Sample: MW-6		Lab ID: 92807874006		Collected: 07/15/25 12:43		Received: 07/16/25 15:10		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8011 GCS EDB and DBCP		Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	07/22/25 07:53	07/22/25 21:59	106-93-4	M1	
Surrogates									
1-Chloro-2-bromopropane (S)	111	%	60-140	1	07/22/25 07:53	07/22/25 21:59	301-79-56		
8260 MSV		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	2820	ug/L	200	2		07/17/25 22:01	75-85-4		
tert-Amylmethyl ether	32.1	ug/L	20.0	2		07/17/25 22:01	994-05-8		
Benzene	7.2J	ug/L	10.0	2		07/17/25 22:01	71-43-2		
3,3-Dimethyl-1-Butanol	ND	ug/L	200	2		07/17/25 22:01	624-95-3		
tert-Butyl Alcohol	ND	ug/L	200	2		07/17/25 22:01	75-65-0		
tert-Butyl Formate	ND	ug/L	100	2		07/17/25 22:01	762-75-4		
1,2-Dichloroethane	ND	ug/L	10.0	2		07/17/25 22:01	107-06-2		
Diisopropyl ether	129	ug/L	10.0	2		07/17/25 22:01	108-20-3		
Ethanol	ND	ug/L	400	2		07/17/25 22:01	64-17-5		
Ethylbenzene	ND	ug/L	10.0	2		07/17/25 22:01	100-41-4		
Ethyl-tert-butyl ether	ND	ug/L	20.0	2		07/17/25 22:01	637-92-3		
Methyl-tert-butyl ether	179	ug/L	10.0	2		07/17/25 22:01	1634-04-4		
Naphthalene	5.2J	ug/L	10.0	2		07/17/25 22:01	91-20-3		
Toluene	ND	ug/L	10.0	2		07/17/25 22:01	108-88-3		
Xylene (Total)	ND	ug/L	10.0	2		07/17/25 22:01	1330-20-7		
m&p-Xylene	ND	ug/L	20.0	2		07/17/25 22:01	179601-23-1		
o-Xylene	ND	ug/L	10.0	2		07/17/25 22:01	95-47-6		
Surrogates									
4-Bromofluorobenzene (S)	84	%	70-130	2		07/17/25 22:01	460-00-4		
1,2-Dichloroethane-d4 (S)	92	%	70-130	2		07/17/25 22:01	17060-07-0		
Toluene-d8 (S)	101	%	70-130	2		07/17/25 22:01	2037-26-5		

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ANALYTICAL RESULTS

Project: JAKE HUGGIN'S DBA OUTPOST 3423

Pace Project No.: 92807874

Sample: MW-7		Lab ID: 92807874007		Collected: 07/15/25 12:50		Received: 07/16/25 15:10		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8011 GCS EDB and DBCP		Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	07/22/25 07:53	07/22/25 22:32	106-93-4		
Surrogates									
1-Chloro-2-bromopropane (S)	107	%	60-140	1	07/22/25 07:53	07/22/25 22:32	301-79-56		
8260 MSV		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		07/17/25 19:25	75-85-4		
tert-Amylmethyl ether	ND	ug/L	10.0	1		07/17/25 19:25	994-05-8		
Benzene	3.2J	ug/L	5.0	1		07/17/25 19:25	71-43-2		
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		07/17/25 19:25	624-95-3		
tert-Butyl Alcohol	ND	ug/L	100	1		07/17/25 19:25	75-65-0		
tert-Butyl Formate	ND	ug/L	50.0	1		07/17/25 19:25	762-75-4		
1,2-Dichloroethane	ND	ug/L	5.0	1		07/17/25 19:25	107-06-2		
Diisopropyl ether	ND	ug/L	5.0	1		07/17/25 19:25	108-20-3		
Ethanol	ND	ug/L	200	1		07/17/25 19:25	64-17-5		
Ethylbenzene	4.5J	ug/L	5.0	1		07/17/25 19:25	100-41-4		
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		07/17/25 19:25	637-92-3		
Methyl-tert-butyl ether	ND	ug/L	5.0	1		07/17/25 19:25	1634-04-4		
Naphthalene	26.9	ug/L	5.0	1		07/17/25 19:25	91-20-3		
Toluene	ND	ug/L	5.0	1		07/17/25 19:25	108-88-3		
Xylene (Total)	ND	ug/L	5.0	1		07/17/25 19:25	1330-20-7		
m&p-Xylene	ND	ug/L	10.0	1		07/17/25 19:25	179601-23-1		
o-Xylene	ND	ug/L	5.0	1		07/17/25 19:25	95-47-6		
Surrogates									
4-Bromofluorobenzene (S)	90	%	70-130	1		07/17/25 19:25	460-00-4		
1,2-Dichloroethane-d4 (S)	84	%	70-130	1		07/17/25 19:25	17060-07-0		
Toluene-d8 (S)	102	%	70-130	1		07/17/25 19:25	2037-26-5		

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ANALYTICAL RESULTS

Project: JAKE HUGGIN'S DBA OUTPOST 3423

Pace Project No.: 92807874

Sample: MW-8		Lab ID: 92807874008		Collected: 07/15/25 13:41		Received: 07/16/25 15:10		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8011 GCS EDB and DBCP		Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	07/22/25 07:53	07/22/25 22:42	106-93-4		
Surrogates									
1-Chloro-2-bromopropane (S)	134	%	60-140	1	07/22/25 07:53	07/22/25 22:42	301-79-56		
8260 MSV		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	20000	200		07/17/25 23:00	75-85-4		
tert-Amylmethyl ether	ND	ug/L	2000	200		07/17/25 23:00	994-05-8		
Benzene	4430	ug/L	1000	200		07/17/25 23:00	71-43-2		
3,3-Dimethyl-1-Butanol	ND	ug/L	20000	200		07/17/25 23:00	624-95-3		
tert-Butyl Alcohol	ND	ug/L	20000	200		07/17/25 23:00	75-65-0		
tert-Butyl Formate	ND	ug/L	10000	200		07/17/25 23:00	762-75-4		
1,2-Dichloroethane	ND	ug/L	1000	200		07/17/25 23:00	107-06-2		
Diisopropyl ether	ND	ug/L	1000	200		07/17/25 23:00	108-20-3		
Ethanol	ND	ug/L	40000	200		07/17/25 23:00	64-17-5		
Ethylbenzene	2590	ug/L	1000	200		07/17/25 23:00	100-41-4		
Ethyl-tert-butyl ether	ND	ug/L	2000	200		07/17/25 23:00	637-92-3		
Methyl-tert-butyl ether	712J	ug/L	1000	200		07/17/25 23:00	1634-04-4		
Naphthalene	918J	ug/L	1000	200		07/17/25 23:00	91-20-3		
Toluene	26300	ug/L	1000	200		07/17/25 23:00	108-88-3		
Xylene (Total)	14800	ug/L	1000	200		07/17/25 23:00	1330-20-7		
m&p-Xylene	9970	ug/L	2000	200		07/17/25 23:00	179601-23-1		
o-Xylene	4780	ug/L	1000	200		07/17/25 23:00	95-47-6		
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130	200		07/17/25 23:00	460-00-4		
1,2-Dichloroethane-d4 (S)	85	%	70-130	200		07/17/25 23:00	17060-07-0		
Toluene-d8 (S)	99	%	70-130	200		07/17/25 23:00	2037-26-5		

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ANALYTICAL RESULTS

Project: JAKE HUGGIN'S DBA OUTPOST 3423

Pace Project No.: 92807874

Sample: MW-9		Lab ID: 92807874009		Collected: 07/15/25 13:50		Received: 07/16/25 15:10		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8011 GCS EDB and DBCP		Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	07/22/25 07:53	07/22/25 22:53	106-93-4		
Surrogates									
1-Chloro-2-bromopropane (S)	103	%	60-140	1	07/22/25 07:53	07/22/25 22:53	301-79-56		
8260 MSV		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		07/17/25 19:44	75-85-4		
tert-Amylmethyl ether	ND	ug/L	10.0	1		07/17/25 19:44	994-05-8		
Benzene	ND	ug/L	5.0	1		07/17/25 19:44	71-43-2		
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		07/17/25 19:44	624-95-3		
tert-Butyl Alcohol	ND	ug/L	100	1		07/17/25 19:44	75-65-0		
tert-Butyl Formate	ND	ug/L	50.0	1		07/17/25 19:44	762-75-4		
1,2-Dichloroethane	ND	ug/L	5.0	1		07/17/25 19:44	107-06-2		
Diisopropyl ether	ND	ug/L	5.0	1		07/17/25 19:44	108-20-3		
Ethanol	ND	ug/L	200	1		07/17/25 19:44	64-17-5		
Ethylbenzene	ND	ug/L	5.0	1		07/17/25 19:44	100-41-4		
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		07/17/25 19:44	637-92-3		
Methyl-tert-butyl ether	ND	ug/L	5.0	1		07/17/25 19:44	1634-04-4		
Naphthalene	ND	ug/L	5.0	1		07/17/25 19:44	91-20-3		
Toluene	ND	ug/L	5.0	1		07/17/25 19:44	108-88-3		
Xylene (Total)	ND	ug/L	5.0	1		07/17/25 19:44	1330-20-7		
m&p-Xylene	ND	ug/L	10.0	1		07/17/25 19:44	179601-23-1		
o-Xylene	ND	ug/L	5.0	1		07/17/25 19:44	95-47-6		
Surrogates									
4-Bromofluorobenzene (S)	86	%	70-130	1		07/17/25 19:44	460-00-4		
1,2-Dichloroethane-d4 (S)	85	%	70-130	1		07/17/25 19:44	17060-07-0		
Toluene-d8 (S)	99	%	70-130	1		07/17/25 19:44	2037-26-5		

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ANALYTICAL RESULTS

Project: JAKE HUGGIN'S DBA OUTPOST 3423

Pace Project No.: 92807874

Sample: MW-10		Lab ID: 92807874010		Collected: 07/15/25 13:48		Received: 07/16/25 15:10		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8011 GCS EDB and DBCP		Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	07/22/25 07:53	07/22/25 23:04	106-93-4		
Surrogates									
1-Chloro-2-bromopropane (S)	119	%	60-140	1	07/22/25 07:53	07/22/25 23:04	301-79-56		
8260 MSV		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	351	ug/L	250	2.5		07/23/25 16:32	75-85-4		
tert-Amylmethyl ether	ND	ug/L	25.0	2.5		07/23/25 16:32	994-05-8		
Benzene	81.1	ug/L	12.5	2.5		07/23/25 16:32	71-43-2		
3,3-Dimethyl-1-Butanol	ND	ug/L	250	2.5		07/23/25 16:32	624-95-3		
tert-Butyl Alcohol	ND	ug/L	250	2.5		07/23/25 16:32	75-65-0		
tert-Butyl Formate	ND	ug/L	125	2.5		07/23/25 16:32	762-75-4	IH,L1,v1	
1,2-Dichloroethane	ND	ug/L	12.5	2.5		07/23/25 16:32	107-06-2		
Diisopropyl ether	19.3	ug/L	12.5	2.5		07/23/25 16:32	108-20-3		
Ethanol	ND	ug/L	500	2.5		07/23/25 16:32	64-17-5		
Ethylbenzene	286	ug/L	12.5	2.5		07/23/25 16:32	100-41-4		
Ethyl-tert-butyl ether	ND	ug/L	25.0	2.5		07/23/25 16:32	637-92-3		
Methyl-tert-butyl ether	30.2	ug/L	12.5	2.5		07/23/25 16:32	1634-04-4		
Naphthalene	189	ug/L	12.5	2.5		07/23/25 16:32	91-20-3		
Toluene	10.1J	ug/L	12.5	2.5		07/23/25 16:32	108-88-3		
Xylene (Total)	196	ug/L	12.5	2.5		07/23/25 16:32	1330-20-7		
m&p-Xylene	164	ug/L	25.0	2.5		07/23/25 16:32	179601-23-1		
o-Xylene	32.6	ug/L	12.5	2.5		07/23/25 16:32	95-47-6		
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130	2.5		07/23/25 16:32	460-00-4		
1,2-Dichloroethane-d4 (S)	96	%	70-130	2.5		07/23/25 16:32	17060-07-0		
Toluene-d8 (S)	100	%	70-130	2.5		07/23/25 16:32	2037-26-5		

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ANALYTICAL RESULTS

Project: JAKE HUGGIN'S DBA OUTPOST 3423

Pace Project No.: 92807874

Sample: DW-1		Lab ID: 92807874011		Collected: 07/15/25 13:30		Received: 07/16/25 15:10		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8011 GCS EDB and DBCP		Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	07/22/25 07:53	07/22/25 23:14	106-93-4		
Surrogates									
1-Chloro-2-bromopropane (S)	108	%	60-140	1	07/22/25 07:53	07/22/25 23:14	301-79-56		
8260 MSV		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		07/17/25 20:04	75-85-4		
tert-Amylmethyl ether	3.2J	ug/L	10.0	1		07/17/25 20:04	994-05-8		
Benzene	ND	ug/L	5.0	1		07/17/25 20:04	71-43-2		
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		07/17/25 20:04	624-95-3		
tert-Butyl Alcohol	ND	ug/L	100	1		07/17/25 20:04	75-65-0		
tert-Butyl Formate	ND	ug/L	50.0	1		07/17/25 20:04	762-75-4		
1,2-Dichloroethane	ND	ug/L	5.0	1		07/17/25 20:04	107-06-2		
Diisopropyl ether	18.6	ug/L	5.0	1		07/17/25 20:04	108-20-3		
Ethanol	ND	ug/L	200	1		07/17/25 20:04	64-17-5		
Ethylbenzene	ND	ug/L	5.0	1		07/17/25 20:04	100-41-4		
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		07/17/25 20:04	637-92-3		
Methyl-tert-butyl ether	69.8	ug/L	5.0	1		07/17/25 20:04	1634-04-4		
Naphthalene	ND	ug/L	5.0	1		07/17/25 20:04	91-20-3		
Toluene	ND	ug/L	5.0	1		07/17/25 20:04	108-88-3		
Xylene (Total)	ND	ug/L	5.0	1		07/17/25 20:04	1330-20-7		
m&p-Xylene	ND	ug/L	10.0	1		07/17/25 20:04	179601-23-1		
o-Xylene	ND	ug/L	5.0	1		07/17/25 20:04	95-47-6		
Surrogates									
4-Bromofluorobenzene (S)	89	%	70-130	1		07/17/25 20:04	460-00-4		
1,2-Dichloroethane-d4 (S)	85	%	70-130	1		07/17/25 20:04	17060-07-0		
Toluene-d8 (S)	100	%	70-130	1		07/17/25 20:04	2037-26-5		

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ANALYTICAL RESULTS

Project: JAKE HUGGIN'S DBA OUTPOST 3423

Pace Project No.: 92807874

Sample: DW-2		Lab ID: 92807874012		Collected: 07/15/25 13:15		Received: 07/16/25 15:10		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8011 GCS EDB and DBCP		Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	07/22/25 07:53	07/22/25 23:25	106-93-4		
Surrogates									
1-Chloro-2-bromopropane (S)	98	%	60-140	1	07/22/25 07:53	07/22/25 23:25	301-79-56		
8260 MSV		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		07/17/25 20:24	75-85-4		
tert-Amylmethyl ether	ND	ug/L	10.0	1		07/17/25 20:24	994-05-8		
Benzene	ND	ug/L	5.0	1		07/17/25 20:24	71-43-2		
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		07/17/25 20:24	624-95-3		
tert-Butyl Alcohol	ND	ug/L	100	1		07/17/25 20:24	75-65-0		
tert-Butyl Formate	ND	ug/L	50.0	1		07/17/25 20:24	762-75-4		
1,2-Dichloroethane	ND	ug/L	5.0	1		07/17/25 20:24	107-06-2		
Diisopropyl ether	ND	ug/L	5.0	1		07/17/25 20:24	108-20-3		
Ethanol	ND	ug/L	200	1		07/17/25 20:24	64-17-5		
Ethylbenzene	ND	ug/L	5.0	1		07/17/25 20:24	100-41-4		
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		07/17/25 20:24	637-92-3		
Methyl-tert-butyl ether	3.3J	ug/L	5.0	1		07/17/25 20:24	1634-04-4		
Naphthalene	ND	ug/L	5.0	1		07/17/25 20:24	91-20-3		
Toluene	ND	ug/L	5.0	1		07/17/25 20:24	108-88-3		
Xylene (Total)	ND	ug/L	5.0	1		07/17/25 20:24	1330-20-7		
m&p-Xylene	ND	ug/L	10.0	1		07/17/25 20:24	179601-23-1		
o-Xylene	ND	ug/L	5.0	1		07/17/25 20:24	95-47-6		
Surrogates									
4-Bromofluorobenzene (S)	86	%	70-130	1		07/17/25 20:24	460-00-4		
1,2-Dichloroethane-d4 (S)	85	%	70-130	1		07/17/25 20:24	17060-07-0		
Toluene-d8 (S)	98	%	70-130	1		07/17/25 20:24	2037-26-5		

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ANALYTICAL RESULTS

Project: JAKE HUGGIN'S DBA OUTPOST 3423

Pace Project No.: 92807874

Sample: DW-3		Lab ID: 92807874013		Collected: 07/15/25 12:46		Received: 07/16/25 15:10		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8011 GCS EDB and DBCP		Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	07/22/25 07:53	07/22/25 23:36	106-93-4		
Surrogates									
1-Chloro-2-bromopropane (S)	105	%	60-140	1	07/22/25 07:53	07/22/25 23:36	301-79-56		
8260 MSV		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		07/17/25 20:43	75-85-4		
tert-Amylmethyl ether	ND	ug/L	10.0	1		07/17/25 20:43	994-05-8		
Benzene	ND	ug/L	5.0	1		07/17/25 20:43	71-43-2		
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		07/17/25 20:43	624-95-3		
tert-Butyl Alcohol	ND	ug/L	100	1		07/17/25 20:43	75-65-0		
tert-Butyl Formate	ND	ug/L	50.0	1		07/17/25 20:43	762-75-4		
1,2-Dichloroethane	ND	ug/L	5.0	1		07/17/25 20:43	107-06-2		
Diisopropyl ether	ND	ug/L	5.0	1		07/17/25 20:43	108-20-3		
Ethanol	ND	ug/L	200	1		07/17/25 20:43	64-17-5		
Ethylbenzene	ND	ug/L	5.0	1		07/17/25 20:43	100-41-4		
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		07/17/25 20:43	637-92-3		
Methyl-tert-butyl ether	ND	ug/L	5.0	1		07/17/25 20:43	1634-04-4		
Naphthalene	ND	ug/L	5.0	1		07/17/25 20:43	91-20-3		
Toluene	ND	ug/L	5.0	1		07/17/25 20:43	108-88-3		
Xylene (Total)	ND	ug/L	5.0	1		07/17/25 20:43	1330-20-7		
m&p-Xylene	ND	ug/L	10.0	1		07/17/25 20:43	179601-23-1		
o-Xylene	ND	ug/L	5.0	1		07/17/25 20:43	95-47-6		
Surrogates									
4-Bromofluorobenzene (S)	87	%	70-130	1		07/17/25 20:43	460-00-4		
1,2-Dichloroethane-d4 (S)	87	%	70-130	1		07/17/25 20:43	17060-07-0		
Toluene-d8 (S)	101	%	70-130	1		07/17/25 20:43	2037-26-5		

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ANALYTICAL RESULTS

Project: JAKE HUGGIN'S DBA OUTPOST 3423

Pace Project No.: 92807874

Sample: DW-4		Lab ID: 92807874014		Collected: 07/15/25 13:31		Received: 07/16/25 15:10		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8011 GCS EDB and DBCP		Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	07/22/25 07:53	07/22/25 23:47	106-93-4		
Surrogates									
1-Chloro-2-bromopropane (S)	102	%	60-140	1	07/22/25 07:53	07/22/25 23:47	301-79-56		
8260 MSV		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	1000	10		07/23/25 13:10	75-85-4		
tert-Amylmethyl ether	ND	ug/L	100	10		07/23/25 13:10	994-05-8		
Benzene	216	ug/L	50.0	10		07/23/25 13:10	71-43-2		
3,3-Dimethyl-1-Butanol	ND	ug/L	1000	10		07/23/25 13:10	624-95-3		
tert-Butyl Alcohol	ND	ug/L	1000	10		07/23/25 13:10	75-65-0		
tert-Butyl Formate	ND	ug/L	500	10		07/23/25 13:10	762-75-4	IH,L1,v1	
1,2-Dichloroethane	ND	ug/L	50.0	10		07/23/25 13:10	107-06-2		
Diisopropyl ether	ND	ug/L	50.0	10		07/23/25 13:10	108-20-3		
Ethanol	ND	ug/L	2000	10		07/23/25 13:10	64-17-5		
Ethylbenzene	94.7	ug/L	50.0	10		07/23/25 13:10	100-41-4		
Ethyl-tert-butyl ether	ND	ug/L	100	10		07/23/25 13:10	637-92-3		
Methyl-tert-butyl ether	54.2	ug/L	50.0	10		07/23/25 13:10	1634-04-4		
Naphthalene	25.2J	ug/L	50.0	10		07/23/25 13:10	91-20-3		
Toluene	1150	ug/L	50.0	10		07/23/25 13:10	108-88-3		
Xylene (Total)	577	ug/L	50.0	10		07/23/25 13:10	1330-20-7		
m&p-Xylene	378	ug/L	100	10		07/23/25 13:10	179601-23-1		
o-Xylene	199	ug/L	50.0	10		07/23/25 13:10	95-47-6		
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130	10		07/23/25 13:10	460-00-4		
1,2-Dichloroethane-d4 (S)	95	%	70-130	10		07/23/25 13:10	17060-07-0		
Toluene-d8 (S)	101	%	70-130	10		07/23/25 13:10	2037-26-5		

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ANALYTICAL RESULTS

Project: JAKE HUGGIN'S DBA OUTPOST 3423

Pace Project No.: 92807874

Sample: SW-1		Lab ID: 92807874015		Collected: 07/15/25 11:29		Received: 07/16/25 15:10		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8011 GCS EDB and DBCP		Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	07/22/25 07:53	07/22/25 23:58	106-93-4		
Surrogates									
1-Chloro-2-bromopropane (S)	106	%	60-140	1	07/22/25 07:53	07/22/25 23:58	301-79-56		
8260 MSV Low Level SC		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		07/18/25 12:34	75-85-4		
tert-Amylmethyl ether	ND	ug/L	10.0	1		07/18/25 12:34	994-05-8		
Benzene	ND	ug/L	1.0	1		07/18/25 12:34	71-43-2		
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		07/18/25 12:34	624-95-3		
tert-Butyl Alcohol	ND	ug/L	100	1		07/18/25 12:34	75-65-0		
tert-Butyl Formate	ND	ug/L	50.0	1		07/18/25 12:34	762-75-4		
1,2-Dichloroethane	ND	ug/L	1.0	1		07/18/25 12:34	107-06-2		
Diisopropyl ether	ND	ug/L	1.0	1		07/18/25 12:34	108-20-3		
Ethanol	ND	ug/L	200	1		07/18/25 12:34	64-17-5		
Ethylbenzene	ND	ug/L	1.0	1		07/18/25 12:34	100-41-4		
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		07/18/25 12:34	637-92-3		
Methyl-tert-butyl ether	ND	ug/L	1.0	1		07/18/25 12:34	1634-04-4		
Naphthalene	ND	ug/L	1.0	1		07/18/25 12:34	91-20-3		
Toluene	ND	ug/L	1.0	1		07/18/25 12:34	108-88-3		
Xylene (Total)	ND	ug/L	1.0	1		07/18/25 12:34	1330-20-7		
m&p-Xylene	ND	ug/L	2.0	1		07/18/25 12:34	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		07/18/25 12:34	95-47-6		
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130	1		07/18/25 12:34	460-00-4		
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		07/18/25 12:34	17060-07-0		
Toluene-d8 (S)	104	%	70-130	1		07/18/25 12:34	2037-26-5		

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ANALYTICAL RESULTS

Project: JAKE HUGGIN'S DBA OUTPOST 3423

Pace Project No.: 92807874

Sample: SW-2		Lab ID: 92807874016		Collected: 07/15/25 10:46		Received: 07/16/25 15:10		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8011 GCS EDB and DBCP		Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	07/22/25 07:53	07/23/25 00:08	106-93-4		
Surrogates									
1-Chloro-2-bromopropane (S)	105	%	60-140	1	07/22/25 07:53	07/23/25 00:08	301-79-56		
8260 MSV Low Level SC		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		07/18/25 12:52	75-85-4		
tert-Amylmethyl ether	ND	ug/L	10.0	1		07/18/25 12:52	994-05-8		
Benzene	ND	ug/L	1.0	1		07/18/25 12:52	71-43-2		
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		07/18/25 12:52	624-95-3		
tert-Butyl Alcohol	ND	ug/L	100	1		07/18/25 12:52	75-65-0		
tert-Butyl Formate	ND	ug/L	50.0	1		07/18/25 12:52	762-75-4		
1,2-Dichloroethane	ND	ug/L	1.0	1		07/18/25 12:52	107-06-2		
Diisopropyl ether	ND	ug/L	1.0	1		07/18/25 12:52	108-20-3		
Ethanol	ND	ug/L	200	1		07/18/25 12:52	64-17-5		
Ethylbenzene	ND	ug/L	1.0	1		07/18/25 12:52	100-41-4		
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		07/18/25 12:52	637-92-3		
Methyl-tert-butyl ether	ND	ug/L	1.0	1		07/18/25 12:52	1634-04-4		
Naphthalene	ND	ug/L	1.0	1		07/18/25 12:52	91-20-3		
Toluene	ND	ug/L	1.0	1		07/18/25 12:52	108-88-3		
Xylene (Total)	ND	ug/L	1.0	1		07/18/25 12:52	1330-20-7		
m&p-Xylene	ND	ug/L	2.0	1		07/18/25 12:52	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		07/18/25 12:52	95-47-6		
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130	1		07/18/25 12:52	460-00-4		
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		07/18/25 12:52	17060-07-0		
Toluene-d8 (S)	103	%	70-130	1		07/18/25 12:52	2037-26-5		

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ANALYTICAL RESULTS

Project: JAKE HUGGIN'S DBA OUTPOST 3423

Pace Project No.: 92807874

Sample: DUP-1		Lab ID: 92807874017		Collected: 07/15/25 00:00		Received: 07/16/25 15:10		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8011 GCS EDB and DBCP		Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	07/22/25 07:53	07/23/25 00:19	106-93-4		
Surrogates									
1-Chloro-2-bromopropane (S)	107	%	60-140	1	07/22/25 07:53	07/23/25 00:19	301-79-56		
8260 MSV		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	1630	ug/L	200	2		07/23/25 11:57	75-85-4	IH,L1,v1	
tert-Amylmethyl ether	29.1	ug/L	20.0	2		07/23/25 11:57	994-05-8		
Benzene	232	ug/L	10.0	2		07/23/25 11:57	71-43-2		
3,3-Dimethyl-1-Butanol	ND	ug/L	200	2		07/23/25 11:57	624-95-3		
tert-Butyl Alcohol	ND	ug/L	200	2		07/23/25 11:57	75-65-0		
tert-Butyl Formate	ND	ug/L	100	2		07/23/25 11:57	762-75-4		
1,2-Dichloroethane	ND	ug/L	10.0	2		07/23/25 11:57	107-06-2		
Diisopropyl ether	91.4	ug/L	10.0	2		07/23/25 11:57	108-20-3		
Ethanol	ND	ug/L	400	2		07/23/25 11:57	64-17-5		
Ethylbenzene	6.0J	ug/L	10.0	2		07/23/25 11:57	100-41-4		
Ethyl-tert-butyl ether	ND	ug/L	20.0	2		07/23/25 11:57	637-92-3		
Methyl-tert-butyl ether	174	ug/L	10.0	2		07/23/25 11:57	1634-04-4		
Naphthalene	28.3	ug/L	10.0	2		07/23/25 11:57	91-20-3		
Toluene	ND	ug/L	10.0	2		07/23/25 11:57	108-88-3		
Xylene (Total)	ND	ug/L	10.0	2		07/23/25 11:57	1330-20-7		
m&p-Xylene	ND	ug/L	20.0	2		07/23/25 11:57	179601-23-1		
o-Xylene	ND	ug/L	10.0	2		07/23/25 11:57	95-47-6		
Surrogates									
4-Bromofluorobenzene (S)	105	%	70-130	2		07/23/25 11:57	460-00-4		
1,2-Dichloroethane-d4 (S)	98	%	70-130	2		07/23/25 11:57	17060-07-0		
Toluene-d8 (S)	101	%	70-130	2		07/23/25 11:57	2037-26-5		

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ANALYTICAL RESULTS

Project: JAKE HUGGIN'S DBA OUTPOST 3423

Pace Project No.: 92807874

Sample: FB		Lab ID: 92807874018		Collected: 07/15/25 13:53		Received: 07/16/25 15:10		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8011 GCS EDB and DBCP		Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	07/22/25 07:53	07/23/25 00:30	106-93-4		
Surrogates									
1-Chloro-2-bromopropane (S)	103	%	60-140	1	07/22/25 07:53	07/23/25 00:30	301-79-56		
8260 MSV		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		07/17/25 14:50	75-85-4		
tert-Amylmethyl ether	ND	ug/L	10.0	1		07/17/25 14:50	994-05-8		
Benzene	ND	ug/L	5.0	1		07/17/25 14:50	71-43-2		
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		07/17/25 14:50	624-95-3		
tert-Butyl Alcohol	ND	ug/L	100	1		07/17/25 14:50	75-65-0		
tert-Butyl Formate	ND	ug/L	50.0	1		07/17/25 14:50	762-75-4		
1,2-Dichloroethane	ND	ug/L	5.0	1		07/17/25 14:50	107-06-2		
Diisopropyl ether	ND	ug/L	5.0	1		07/17/25 14:50	108-20-3		
Ethanol	ND	ug/L	200	1		07/17/25 14:50	64-17-5		
Ethylbenzene	ND	ug/L	5.0	1		07/17/25 14:50	100-41-4		
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		07/17/25 14:50	637-92-3		
Methyl-tert-butyl ether	ND	ug/L	5.0	1		07/17/25 14:50	1634-04-4		
Naphthalene	ND	ug/L	5.0	1		07/17/25 14:50	91-20-3		
Toluene	ND	ug/L	5.0	1		07/17/25 14:50	108-88-3		
Xylene (Total)	ND	ug/L	5.0	1		07/17/25 14:50	1330-20-7		
m&p-Xylene	ND	ug/L	10.0	1		07/17/25 14:50	179601-23-1		
o-Xylene	ND	ug/L	5.0	1		07/17/25 14:50	95-47-6		
Surrogates									
4-Bromofluorobenzene (S)	88	%	70-130	1		07/17/25 14:50	460-00-4		
1,2-Dichloroethane-d4 (S)	91	%	70-130	1		07/17/25 14:50	17060-07-0		
Toluene-d8 (S)	101	%	70-130	1		07/17/25 14:50	2037-26-5		

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ANALYTICAL RESULTS

Project: JAKE HUGGIN'S DBA OUTPOST 3423

Pace Project No.: 92807874

Sample: GAC		Lab ID: 92807874019		Collected: 07/15/25 13:55		Received: 07/16/25 15:10		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8011 GCS EDB and DBCP		Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	07/22/25 07:53	07/23/25 00:40	106-93-4		
Surrogates									
1-Chloro-2-bromopropane (S)	111	%	60-140	1	07/22/25 07:53	07/23/25 00:40	301-79-56		
8260 MSV		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		07/17/25 21:22	75-85-4		
tert-Amylmethyl ether	ND	ug/L	10.0	1		07/17/25 21:22	994-05-8		
Benzene	ND	ug/L	5.0	1		07/17/25 21:22	71-43-2		
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		07/17/25 21:22	624-95-3		
tert-Butyl Alcohol	ND	ug/L	100	1		07/17/25 21:22	75-65-0		
tert-Butyl Formate	ND	ug/L	50.0	1		07/17/25 21:22	762-75-4		
1,2-Dichloroethane	ND	ug/L	5.0	1		07/17/25 21:22	107-06-2		
Diisopropyl ether	ND	ug/L	5.0	1		07/17/25 21:22	108-20-3		
Ethanol	ND	ug/L	200	1		07/17/25 21:22	64-17-5		
Ethylbenzene	ND	ug/L	5.0	1		07/17/25 21:22	100-41-4		
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		07/17/25 21:22	637-92-3		
Methyl-tert-butyl ether	ND	ug/L	5.0	1		07/17/25 21:22	1634-04-4		
Naphthalene	ND	ug/L	5.0	1		07/17/25 21:22	91-20-3		
Toluene	ND	ug/L	5.0	1		07/17/25 21:22	108-88-3		
Xylene (Total)	ND	ug/L	5.0	1		07/17/25 21:22	1330-20-7		
m&p-Xylene	ND	ug/L	10.0	1		07/17/25 21:22	179601-23-1		
o-Xylene	ND	ug/L	5.0	1		07/17/25 21:22	95-47-6		
Surrogates									
4-Bromofluorobenzene (S)	86	%	70-130	1		07/17/25 21:22	460-00-4		
1,2-Dichloroethane-d4 (S)	85	%	70-130	1		07/17/25 21:22	17060-07-0		
Toluene-d8 (S)	100	%	70-130	1		07/17/25 21:22	2037-26-5		

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ANALYTICAL RESULTS

Project: JAKE HUGGIN'S DBA OUTPOST 3423

Pace Project No.: 92807874

Sample: TB		Lab ID: 92807874020		Collected: 07/15/25 08:00		Received: 07/16/25 15:10		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260 MSV	Analytical Method: EPA 8260D								
	Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	1		07/17/25 14:30	75-85-4		
tert-Amylmethyl ether	ND	ug/L	10.0	1		07/17/25 14:30	994-05-8		
Benzene	ND	ug/L	5.0	1		07/17/25 14:30	71-43-2		
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		07/17/25 14:30	624-95-3		
tert-Butyl Alcohol	ND	ug/L	100	1		07/17/25 14:30	75-65-0		
tert-Butyl Formate	ND	ug/L	50.0	1		07/17/25 14:30	762-75-4		
1,2-Dichloroethane	ND	ug/L	5.0	1		07/17/25 14:30	107-06-2		
Diisopropyl ether	ND	ug/L	5.0	1		07/17/25 14:30	108-20-3		
Ethanol	ND	ug/L	200	1		07/17/25 14:30	64-17-5		
Ethylbenzene	ND	ug/L	5.0	1		07/17/25 14:30	100-41-4		
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		07/17/25 14:30	637-92-3		
Methyl-tert-butyl ether	ND	ug/L	5.0	1		07/17/25 14:30	1634-04-4		
Naphthalene	ND	ug/L	5.0	1		07/17/25 14:30	91-20-3		
Toluene	ND	ug/L	5.0	1		07/17/25 14:30	108-88-3		
Xylene (Total)	ND	ug/L	5.0	1		07/17/25 14:30	1330-20-7		
m&p-Xylene	ND	ug/L	10.0	1		07/17/25 14:30	179601-23-1		
o-Xylene	ND	ug/L	5.0	1		07/17/25 14:30	95-47-6		
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130	1		07/17/25 14:30	460-00-4		
1,2-Dichloroethane-d4 (S)	95	%	70-130	1		07/17/25 14:30	17060-07-0		
Toluene-d8 (S)	102	%	70-130	1		07/17/25 14:30	2037-26-5		

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ANALYTICAL RESULTS

Project: JAKE HUGGIN'S DBA OUTPOST 3423

Pace Project No.: 92807874

Sample: WSW-1		Lab ID: 92807874021		Collected: 07/15/25 11:45		Received: 07/16/25 15:10		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
504 GCS EDB and DBCP		Analytical Method: EPA 504.1 Preparation Method: EPA 504.1 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	07/22/25 07:55	07/22/25 13:37	106-93-4		
Surrogates									
1-Chloro-2-bromopropane (S)	112	%	70-130	1	07/22/25 07:55	07/22/25 13:37	301-79-56		
524.2 MSV SC List		Analytical Method: EPA 524.2 Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		07/18/25 22:11	71-43-2		
1,2-Dichloroethane	ND	ug/L	0.50	1		07/18/25 22:11	107-06-2		
Ethylbenzene	ND	ug/L	0.50	1		07/18/25 22:11	100-41-4		
Methyl-tert-butyl ether	ND	ug/L	0.50	1		07/18/25 22:11	1634-04-4		
Naphthalene	ND	ug/L	0.50	1		07/18/25 22:11	91-20-3		
Toluene	0.79	ug/L	0.50	1		07/18/25 22:11	108-88-3		
Xylene (Total)	ND	ug/L	0.50	1		07/18/25 22:11	1330-20-7		
m&p-Xylene	ND	ug/L	1.0	1		07/18/25 22:11	179601-23-1		
o-Xylene	ND	ug/L	0.50	1		07/18/25 22:11	95-47-6		
Surrogates									
1,2-Dichlorobenzene-d4 (S)	92	%	70-130	1		07/18/25 22:11	2199-69-1		
4-Bromofluorobenzene (S)	101	%	70-130	1		07/18/25 22:11	460-00-4		
8260 MSV Low Level SC		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		07/18/25 05:50	75-85-4		
tert-Amylmethyl ether	ND	ug/L	10.0	1		07/18/25 05:50	994-05-8		
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		07/18/25 05:50	624-95-3		
tert-Butyl Alcohol	ND	ug/L	100	1		07/18/25 05:50	75-65-0		
tert-Butyl Formate	ND	ug/L	50.0	1		07/18/25 05:50	762-75-4		
Diisopropyl ether	ND	ug/L	1.0	1		07/18/25 05:50	108-20-3		
Ethanol	ND	ug/L	200	1		07/18/25 05:50	64-17-5		
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		07/18/25 05:50	637-92-3		
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130	1		07/18/25 05:50	460-00-4		
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		07/18/25 05:50	17060-07-0		
Toluene-d8 (S)	103	%	70-130	1		07/18/25 05:50	2037-26-5		

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ANALYTICAL RESULTS

Project: JAKE HUGGIN'S DBA OUTPOST 3423

Pace Project No.: 92807874

Sample: WSW-2		Lab ID: 92807874022		Collected: 07/15/25 11:55		Received: 07/16/25 15:10		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
504 GCS EDB and DBCP		Analytical Method: EPA 504.1 Preparation Method: EPA 504.1 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	07/22/25 07:55	07/22/25 14:00	106-93-4		
Surrogates									
1-Chloro-2-bromopropane (S)	114	%	70-130	1	07/22/25 07:55	07/22/25 14:00	301-79-56		
524.2 MSV SC List		Analytical Method: EPA 524.2 Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		07/18/25 22:38	71-43-2		
1,2-Dichloroethane	ND	ug/L	0.50	1		07/18/25 22:38	107-06-2		
Ethylbenzene	ND	ug/L	0.50	1		07/18/25 22:38	100-41-4		
Methyl-tert-butyl ether	ND	ug/L	0.50	1		07/18/25 22:38	1634-04-4		
Naphthalene	ND	ug/L	0.50	1		07/18/25 22:38	91-20-3		
Toluene	0.77	ug/L	0.50	1		07/18/25 22:38	108-88-3		
Xylene (Total)	ND	ug/L	0.50	1		07/18/25 22:38	1330-20-7		
m&p-Xylene	ND	ug/L	1.0	1		07/18/25 22:38	179601-23-1		
o-Xylene	ND	ug/L	0.50	1		07/18/25 22:38	95-47-6		
Surrogates									
1,2-Dichlorobenzene-d4 (S)	90	%	70-130	1		07/18/25 22:38	2199-69-1		
4-Bromofluorobenzene (S)	108	%	70-130	1		07/18/25 22:38	460-00-4		
8260 MSV Low Level SC		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		07/18/25 06:08	75-85-4		
tert-Amylmethyl ether	ND	ug/L	10.0	1		07/18/25 06:08	994-05-8		
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		07/18/25 06:08	624-95-3		
tert-Butyl Alcohol	ND	ug/L	100	1		07/18/25 06:08	75-65-0		
tert-Butyl Formate	ND	ug/L	50.0	1		07/18/25 06:08	762-75-4		
Diisopropyl ether	ND	ug/L	1.0	1		07/18/25 06:08	108-20-3		
Ethanol	ND	ug/L	200	1		07/18/25 06:08	64-17-5		
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		07/18/25 06:08	637-92-3		
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130	1		07/18/25 06:08	460-00-4		
1,2-Dichloroethane-d4 (S)	110	%	70-130	1		07/18/25 06:08	17060-07-0		
Toluene-d8 (S)	103	%	70-130	1		07/18/25 06:08	2037-26-5		

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ANALYTICAL RESULTS

Project: JAKE HUGGIN'S DBA OUTPOST 3423

Pace Project No.: 92807874

Sample: WSW-DUP		Lab ID: 92807874023		Collected: 07/15/25 00:00		Received: 07/16/25 15:10		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
504 GCS EDB and DBCP		Analytical Method: EPA 504.1 Preparation Method: EPA 504.1 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	07/22/25 07:55	07/22/25 20:03	106-93-4		
Surrogates									
1-Chloro-2-bromopropane (S)	96	%	70-130	1	07/22/25 07:55	07/22/25 20:03	301-79-56		
524.2 MSV SC List		Analytical Method: EPA 524.2 Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		07/18/25 23:04	71-43-2		
1,2-Dichloroethane	ND	ug/L	0.50	1		07/18/25 23:04	107-06-2		
Ethylbenzene	ND	ug/L	0.50	1		07/18/25 23:04	100-41-4		
Methyl-tert-butyl ether	ND	ug/L	0.50	1		07/18/25 23:04	1634-04-4		
Naphthalene	ND	ug/L	0.50	1		07/18/25 23:04	91-20-3		
Toluene	0.78	ug/L	0.50	1		07/18/25 23:04	108-88-3		
Xylene (Total)	ND	ug/L	0.50	1		07/18/25 23:04	1330-20-7		
m&p-Xylene	ND	ug/L	1.0	1		07/18/25 23:04	179601-23-1		
o-Xylene	ND	ug/L	0.50	1		07/18/25 23:04	95-47-6		
Surrogates									
1,2-Dichlorobenzene-d4 (S)	88	%	70-130	1		07/18/25 23:04	2199-69-1		
4-Bromofluorobenzene (S)	99	%	70-130	1		07/18/25 23:04	460-00-4		
8260 MSV Low Level SC		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		07/18/25 06:26	75-85-4		
tert-Amylmethyl ether	ND	ug/L	10.0	1		07/18/25 06:26	994-05-8		
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		07/18/25 06:26	624-95-3		
tert-Butyl Alcohol	ND	ug/L	100	1		07/18/25 06:26	75-65-0		
tert-Butyl Formate	ND	ug/L	50.0	1		07/18/25 06:26	762-75-4		
Diisopropyl ether	ND	ug/L	1.0	1		07/18/25 06:26	108-20-3		
Ethanol	ND	ug/L	200	1		07/18/25 06:26	64-17-5		
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		07/18/25 06:26	637-92-3		
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130	1		07/18/25 06:26	460-00-4		
1,2-Dichloroethane-d4 (S)	96	%	70-130	1		07/18/25 06:26	17060-07-0		
Toluene-d8 (S)	100	%	70-130	1		07/18/25 06:26	2037-26-5		

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ANALYTICAL RESULTS

Project: JAKE HUGGIN'S DBA OUTPOST 3423

Pace Project No.: 92807874

Sample: WSW-FB		Lab ID: 92807874024		Collected: 07/15/25 11:59		Received: 07/16/25 15:10		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
504 GCS EDB and DBCP		Analytical Method: EPA 504.1 Preparation Method: EPA 504.1 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	07/22/25 07:55	07/22/25 20:14	106-93-4		
Surrogates									
1-Chloro-2-bromopropane (S)	94	%	70-130	1	07/22/25 07:55	07/22/25 20:14	301-79-56		
524.2 MSV SC List		Analytical Method: EPA 524.2 Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		07/18/25 17:22	71-43-2		
1,2-Dichloroethane	ND	ug/L	0.50	1		07/18/25 17:22	107-06-2		
Ethylbenzene	ND	ug/L	0.50	1		07/18/25 17:22	100-41-4		
Methyl-tert-butyl ether	ND	ug/L	0.50	1		07/18/25 17:22	1634-04-4		
Naphthalene	ND	ug/L	0.50	1		07/18/25 17:22	91-20-3		
Toluene	0.66	ug/L	0.50	1		07/18/25 17:22	108-88-3		
Xylene (Total)	ND	ug/L	0.50	1		07/18/25 17:22	1330-20-7		
m&p-Xylene	ND	ug/L	1.0	1		07/18/25 17:22	179601-23-1		
o-Xylene	ND	ug/L	0.50	1		07/18/25 17:22	95-47-6		
Surrogates									
1,2-Dichlorobenzene-d4 (S)	95	%	70-130	1		07/18/25 17:22	2199-69-1		
4-Bromofluorobenzene (S)	110	%	70-130	1		07/18/25 17:22	460-00-4		
8260 MSV Low Level SC		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		07/17/25 15:51	75-85-4		
tert-Amylmethyl ether	ND	ug/L	10.0	1		07/17/25 15:51	994-05-8		
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		07/17/25 15:51	624-95-3		
tert-Butyl Alcohol	ND	ug/L	100	1		07/17/25 15:51	75-65-0		
tert-Butyl Formate	ND	ug/L	50.0	1		07/17/25 15:51	762-75-4		
Diisopropyl ether	ND	ug/L	1.0	1		07/17/25 15:51	108-20-3		
Ethanol	ND	ug/L	200	1		07/17/25 15:51	64-17-5		
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		07/17/25 15:51	637-92-3		
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130	1		07/17/25 15:51	460-00-4		
1,2-Dichloroethane-d4 (S)	122	%	70-130	1		07/17/25 15:51	17060-07-0		
Toluene-d8 (S)	101	%	70-130	1		07/17/25 15:51	2037-26-5		

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ANALYTICAL RESULTS

Project: JAKE HUGGIN'S DBA OUTPOST 3423

Pace Project No.: 92807874

Sample: WSW-TB		Lab ID: 92807874025		Collected: 07/15/25 08:00		Received: 07/16/25 15:10		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV SC List		Analytical Method: EPA 524.2 Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		07/18/25 17:49	71-43-2		
1,2-Dichloroethane	ND	ug/L	0.50	1		07/18/25 17:49	107-06-2		
Ethylbenzene	ND	ug/L	0.50	1		07/18/25 17:49	100-41-4		
Methyl-tert-butyl ether	ND	ug/L	0.50	1		07/18/25 17:49	1634-04-4		
Naphthalene	ND	ug/L	0.50	1		07/18/25 17:49	91-20-3		
Toluene	ND	ug/L	0.50	1		07/18/25 17:49	108-88-3		
Xylene (Total)	ND	ug/L	0.50	1		07/18/25 17:49	1330-20-7		
m&p-Xylene	ND	ug/L	1.0	1		07/18/25 17:49	179601-23-1		
o-Xylene	ND	ug/L	0.50	1		07/18/25 17:49	95-47-6		
Surrogates									
1,2-Dichlorobenzene-d4 (S)	93	%	70-130	1		07/18/25 17:49	2199-69-1		
4-Bromofluorobenzene (S)	110	%	70-130	1		07/18/25 17:49	460-00-4		
8260 MSV Low Level SC		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		07/17/25 16:10	75-85-4		
tert-Amylmethyl ether	ND	ug/L	10.0	1		07/17/25 16:10	994-05-8		
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		07/17/25 16:10	624-95-3		
tert-Butyl Alcohol	ND	ug/L	100	1		07/17/25 16:10	75-65-0		
tert-Butyl Formate	ND	ug/L	50.0	1		07/17/25 16:10	762-75-4		
Diisopropyl ether	ND	ug/L	1.0	1		07/17/25 16:10	108-20-3		
Ethanol	ND	ug/L	200	1		07/17/25 16:10	64-17-5		
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		07/17/25 16:10	637-92-3		
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130	1		07/17/25 16:10	460-00-4		
1,2-Dichloroethane-d4 (S)	121	%	70-130	1		07/17/25 16:10	17060-07-0		
Toluene-d8 (S)	103	%	70-130	1		07/17/25 16:10	2037-26-5		

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QUALITY CONTROL DATA

Project: JAKE HUGGIN'S DBA OUTPOST 3423

Pace Project No.: 92807874

QC Batch:	948751	Analysis Method:	EPA 524.2
QC Batch Method:	EPA 524.2	Analysis Description:	524.2 MSV
		Laboratory:	Pace Analytical Services - Charlotte

Associated Lab Samples: 92807874021, 92807874022, 92807874023, 92807874024, 92807874025

METHOD BLANK: 4875802

Matrix: Water

Associated Lab Samples: 92807874021, 92807874022, 92807874023, 92807874024, 92807874025

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	0.50	07/18/25 14:18	
Benzene	ug/L	ND	0.50	07/18/25 14:18	
Ethylbenzene	ug/L	ND	0.50	07/18/25 14:18	
m&p-Xylene	ug/L	ND	1.0	07/18/25 14:18	
Methyl-tert-butyl ether	ug/L	ND	0.50	07/18/25 14:18	
Naphthalene	ug/L	ND	0.50	07/18/25 14:18	
o-Xylene	ug/L	ND	0.50	07/18/25 14:18	
Toluene	ug/L	ND	0.50	07/18/25 14:18	
Xylene (Total)	ug/L	ND	0.50	07/18/25 14:18	
1,2-Dichlorobenzene-d4 (S)	%	98	70-130	07/18/25 14:18	
4-Bromofluorobenzene (S)	%	112	70-130	07/18/25 14:18	

LABORATORY CONTROL SAMPLE: 4875803

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	20	18.9	95	70-130	
Benzene	ug/L	20	20.8	104	70-130	
Ethylbenzene	ug/L	20	21.0	105	70-130	
m&p-Xylene	ug/L	40	42.4	106	70-130	
Methyl-tert-butyl ether	ug/L	20	19.5	98	70-130	
Naphthalene	ug/L	20	18.1	91	70-130	
o-Xylene	ug/L	20	22.1	110	70-130	
Toluene	ug/L	20	20.9	105	70-130	
Xylene (Total)	ug/L	60	64.5	108		
1,2-Dichlorobenzene-d4 (S)	%			122	70-130	
4-Bromofluorobenzene (S)	%			123	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: JAKE HUGGIN'S DBA OUTPOST 3423
Pace Project No.: 92807874

QC Batch: 948402 Analysis Method: EPA 8260D
QC Batch Method: EPA 8260D Analysis Description: 8260 MSV Low Level SC
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92807874024, 92807874025

METHOD BLANK: 4873735 Matrix: Water

Associated Lab Samples: 92807874024, 92807874025

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	100	07/17/25 14:03	
Diisopropyl ether	ug/L	ND	1.0	07/17/25 14:03	
Ethanol	ug/L	ND	200	07/17/25 14:03	
Ethyl-tert-butyl ether	ug/L	ND	10.0	07/17/25 14:03	
tert-Amyl Alcohol	ug/L	ND	100	07/17/25 14:03	
tert-Amylmethyl ether	ug/L	ND	10.0	07/17/25 14:03	
tert-Butyl Alcohol	ug/L	ND	100	07/17/25 14:03	
tert-Butyl Formate	ug/L	ND	50.0	07/17/25 14:03	
1,2-Dichloroethane-d4 (S)	%	120	70-130	07/17/25 14:03	
4-Bromofluorobenzene (S)	%	100	70-130	07/17/25 14:03	
Toluene-d8 (S)	%	102	70-130	07/17/25 14:03	

LABORATORY CONTROL SAMPLE: 4873736

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	400	425	106	70-130	
Diisopropyl ether	ug/L	20	21.2	106	70-130	
Ethanol	ug/L	800	949	119	70-130	
Ethyl-tert-butyl ether	ug/L	40	42.3	106	70-130	
tert-Amyl Alcohol	ug/L	400	436	109	70-130	
tert-Amylmethyl ether	ug/L	40	39.8	100	70-130	
tert-Butyl Alcohol	ug/L	200	225	112	70-130	
tert-Butyl Formate	ug/L	160	185	115	70-130	
1,2-Dichloroethane-d4 (S)	%			110	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE SAMPLE: 4873737

Parameter	Units	92807872029 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	400	340	85	39-157	
Diisopropyl ether	ug/L	ND	20	22.2	111	63-144	
Ethanol	ug/L	ND	800	758	95	39-176	
Ethyl-tert-butyl ether	ug/L	ND	40	42.1	105	66-137	
tert-Amyl Alcohol	ug/L	ND	400	360	90	54-153	
tert-Amylmethyl ether	ug/L	ND	40	38.6	96	69-139	
tert-Butyl Alcohol	ug/L	ND	200	241	121	43-188	

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QUALITY CONTROL DATA

Project: JAKE HUGGIN'S DBA OUTPOST 3423

Pace Project No.: 92807874

MATRIX SPIKE SAMPLE: 4873737

Parameter	Units	92807872029 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
tert-Butyl Formate	ug/L	ND	160	ND	12	10-170	
1,2-Dichloroethane-d4 (S)	%				103	70-130	
4-Bromofluorobenzene (S)	%				101	70-130	
Toluene-d8 (S)	%				98	70-130	

SAMPLE DUPLICATE: 4873738

Parameter	Units	92807872031 Result	Dup Result	RPD	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		
Diisopropyl ether	ug/L	ND	ND		
Ethanol	ug/L	ND	ND		
Ethyl-tert-butyl ether	ug/L	ND	ND		
tert-Amyl Alcohol	ug/L	ND	ND		
tert-Amylmethyl ether	ug/L	ND	ND		
tert-Butyl Alcohol	ug/L	ND	ND		
tert-Butyl Formate	ug/L	ND	ND		
1,2-Dichloroethane-d4 (S)	%	118	104		
4-Bromofluorobenzene (S)	%	99	98		
Toluene-d8 (S)	%	105	102		

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QUALITY CONTROL DATA

Project: JAKE HUGGIN'S DBA OUTPOST 3423
Pace Project No.: 92807874

QC Batch: 948411 Analysis Method: EPA 8260D
QC Batch Method: EPA 8260D Analysis Description: 8260 MSV Low Level SC
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92807874021, 92807874022, 92807874023

METHOD BLANK: 4873757 Matrix: Water
Associated Lab Samples: 92807874021, 92807874022, 92807874023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	100	07/17/25 23:19	
Diisopropyl ether	ug/L	ND	1.0	07/17/25 23:19	
Ethanol	ug/L	ND	200	07/17/25 23:19	
Ethyl-tert-butyl ether	ug/L	ND	10.0	07/17/25 23:19	
tert-Amyl Alcohol	ug/L	ND	100	07/17/25 23:19	
tert-Amylmethyl ether	ug/L	ND	10.0	07/17/25 23:19	
tert-Butyl Alcohol	ug/L	ND	100	07/17/25 23:19	
tert-Butyl Formate	ug/L	ND	50.0	07/17/25 23:19	
1,2-Dichloroethane-d4 (S)	%	108	70-130	07/17/25 23:19	
4-Bromofluorobenzene (S)	%	99	70-130	07/17/25 23:19	
Toluene-d8 (S)	%	102	70-130	07/17/25 23:19	

LABORATORY CONTROL SAMPLE: 4873758

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	400	428	107	70-130	
Diisopropyl ether	ug/L	20	19.8	99	70-130	
Ethanol	ug/L	800	902	113	70-130	
Ethyl-tert-butyl ether	ug/L	40	40.1	100	70-130	
tert-Amyl Alcohol	ug/L	400	437	109	70-130	
tert-Amylmethyl ether	ug/L	40	37.6	94	70-130	
tert-Butyl Alcohol	ug/L	200	166	83	70-130	
tert-Butyl Formate	ug/L	160	152	95	70-130	
1,2-Dichloroethane-d4 (S)	%			94	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			102	70-130	

MATRIX SPIKE SAMPLE: 4873759

Parameter	Units	92807872032 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	400	381	95	39-157	
Diisopropyl ether	ug/L	ND	20	20.9	105	63-144	
Ethanol	ug/L	ND	800	888	111	39-176	
Ethyl-tert-butyl ether	ug/L	ND	40	41.8	104	66-137	
tert-Amyl Alcohol	ug/L	ND	400	406	102	54-153	
tert-Amylmethyl ether	ug/L	ND	40	36.2	91	69-139	
tert-Butyl Alcohol	ug/L	ND	200	200	100	43-188	

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QUALITY CONTROL DATA

Project: JAKE HUGGIN'S DBA OUTPOST 3423

Pace Project No.: 92807874

MATRIX SPIKE SAMPLE: 4873759

Parameter	Units	92807872032 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
tert-Butyl Formate	ug/L	ND	160	102	64	10-170	
1,2-Dichloroethane-d4 (S)	%				99	70-130	
4-Bromofluorobenzene (S)	%				97	70-130	
Toluene-d8 (S)	%				98	70-130	

SAMPLE DUPLICATE: 4873760

Parameter	Units	92807872034 Result	Dup Result	RPD	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		
Diisopropyl ether	ug/L	0.79J	0.76J		
Ethanol	ug/L	ND	ND		
Ethyl-tert-butyl ether	ug/L	ND	ND		
tert-Amyl Alcohol	ug/L	ND	ND		
tert-Amylmethyl ether	ug/L	ND	ND		
tert-Butyl Alcohol	ug/L	ND	ND		
tert-Butyl Formate	ug/L	ND	ND		
1,2-Dichloroethane-d4 (S)	%	106	108		
4-Bromofluorobenzene (S)	%	99	98		
Toluene-d8 (S)	%	107	97		

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QUALITY CONTROL DATA

Project: JAKE HUGGIN'S DBA OUTPOST 3423
Pace Project No.: 92807874

QC Batch:	948666	Analysis Method:	EPA 8260D
QC Batch Method:	EPA 8260D	Analysis Description:	8260 MSV Low Level SC
		Laboratory:	Pace Analytical Services - Charlotte

Associated Lab Samples: 92807874015, 92807874016

METHOD BLANK: 4875117 Matrix: Water

Associated Lab Samples: 92807874015, 92807874016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	1.0	07/18/25 10:09	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	07/18/25 10:09	
Benzene	ug/L	ND	1.0	07/18/25 10:09	
Diisopropyl ether	ug/L	ND	1.0	07/18/25 10:09	
Ethanol	ug/L	ND	200	07/18/25 10:09	
Ethyl-tert-butyl ether	ug/L	ND	10.0	07/18/25 10:09	
Ethylbenzene	ug/L	ND	1.0	07/18/25 10:09	
m&p-Xylene	ug/L	ND	2.0	07/18/25 10:09	
Methyl-tert-butyl ether	ug/L	ND	1.0	07/18/25 10:09	
Naphthalene	ug/L	ND	1.0	07/18/25 10:09	
o-Xylene	ug/L	ND	1.0	07/18/25 10:09	
tert-Amyl Alcohol	ug/L	ND	100	07/18/25 10:09	
tert-Amylmethyl ether	ug/L	ND	10.0	07/18/25 10:09	
tert-Butyl Alcohol	ug/L	ND	100	07/18/25 10:09	
tert-Butyl Formate	ug/L	ND	50.0	07/18/25 10:09	
Toluene	ug/L	ND	1.0	07/18/25 10:09	
Xylene (Total)	ug/L	ND	1.0	07/18/25 10:09	
1,2-Dichloroethane-d4 (S)	%	94	70-130	07/18/25 10:09	
4-Bromofluorobenzene (S)	%	98	70-130	07/18/25 10:09	
Toluene-d8 (S)	%	104	70-130	07/18/25 10:09	

LABORATORY CONTROL SAMPLE: 4875118

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	20	20.6	103	70-130	
3,3-Dimethyl-1-Butanol	ug/L	400	387	97	70-130	
Benzene	ug/L	20	20.1	101	70-130	
Diisopropyl ether	ug/L	20	18.5	93	70-130	
Ethanol	ug/L	800	730	91	70-130	
Ethyl-tert-butyl ether	ug/L	40	37.3	93	70-130	
Ethylbenzene	ug/L	20	19.7	99	70-130	
m&p-Xylene	ug/L	40	40.5	101	70-130	
Methyl-tert-butyl ether	ug/L	20	19.5	97	70-130	
Naphthalene	ug/L	20	20.8	104	70-130	
o-Xylene	ug/L	20	20.4	102	70-130	
tert-Amyl Alcohol	ug/L	400	388	97	70-130	
tert-Amylmethyl ether	ug/L	40	37.8	94	70-130	
tert-Butyl Alcohol	ug/L	200	211	105	70-130	
tert-Butyl Formate	ug/L	160	156	98	70-130	

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QUALITY CONTROL DATA

Project: JAKE HUGGIN'S DBA OUTPOST 3423

Pace Project No.: 92807874

LABORATORY CONTROL SAMPLE: 4875118

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene	ug/L	20	20.0	100	70-130	
Xylene (Total)	ug/L	60	61.0	102	70-130	
1,2-Dichloroethane-d4 (S)	%			101	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4875119 4875120

Parameter	Units	92807878004		MS		MSD		MS		MSD		% Rec		RPD	Qual
		Result	Conc.	Spike Conc.	Result	Spike Conc.	Result	% Rec	Result	% Rec	Result	Limits	Limits		
1,2-Dichloroethane	ug/L	ND	20	20	22.8	20	21.7	114	109	109	70-137	5			
3,3-Dimethyl-1-Butanol	ug/L	ND	400	400	419	400	402	105	100	100	39-157	4			
Benzene	ug/L	ND	20	20	22.9	20	22.1	115	110	110	70-151	4			
Diisopropyl ether	ug/L	ND	20	20	20.4	20	19.2	102	96	96	63-144	6			
Ethanol	ug/L	ND	800	800	774	800	764	97	96	96	39-176	1			
Ethyl-tert-butyl ether	ug/L	ND	40	40	41.7	40	39.6	104	99	99	66-137	5			
Ethylbenzene	ug/L	ND	20	20	22.6	20	21.4	113	107	107	66-153	6			
m&p-Xylene	ug/L	ND	40	40	46.1	40	43.3	115	108	108	69-152	6			
Methyl-tert-butyl ether	ug/L	ND	20	20	21.3	20	20.6	106	103	103	54-156	3			
Naphthalene	ug/L	ND	20	20	22.7	20	22.6	113	113	113	61-148	1			
o-Xylene	ug/L	ND	20	20	23.4	20	22.2	117	111	111	70-148	5			
tert-Amyl Alcohol	ug/L	ND	400	400	431	400	418	108	104	104	54-153	3			
tert-Amylmethyl ether	ug/L	ND	40	40	41.5	40	40.3	104	101	101	69-139	3			
tert-Butyl Alcohol	ug/L	ND	200	200	168	200	169	84	84	84	43-188	0			
tert-Butyl Formate	ug/L	ND	160	160	189	160	149	118	93	93	10-170	24			
Toluene	ug/L	ND	20	20	22.5	20	21.5	112	107	107	59-148	4			
Xylene (Total)	ug/L	ND	60	60	69.5	60	65.6	116	109	109	63-158	6			
1,2-Dichloroethane-d4 (S)	%							100	99	99	70-130				
4-Bromofluorobenzene (S)	%							101	99	99	70-130				
Toluene-d8 (S)	%							97	97	97	70-130				

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QUALITY CONTROL DATA

Project: JAKE HUGGIN'S DBA OUTPOST 3423

Pace Project No.: 92807874

QC Batch:	948425	Analysis Method:	EPA 8260D
QC Batch Method:	EPA 8260D	Analysis Description:	8260 MSV SC
		Laboratory:	Pace Analytical Services - Charlotte
Associated Lab Samples:	92807874001, 92807874002, 92807874003, 92807874004, 92807874005, 92807874006, 92807874007, 92807874008, 92807874009, 92807874011, 92807874012, 92807874013, 92807874018, 92807874019, 92807874020		

METHOD BLANK: 4873901

Matrix: Water

Associated Lab Samples: 92807874001, 92807874002, 92807874003, 92807874004, 92807874005, 92807874006, 92807874007, 92807874008, 92807874009, 92807874011, 92807874012, 92807874013, 92807874018, 92807874019, 92807874020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	07/17/25 13:51	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	07/17/25 13:51	
Benzene	ug/L	ND	5.0	07/17/25 13:51	
Diisopropyl ether	ug/L	ND	5.0	07/17/25 13:51	
Ethanol	ug/L	ND	200	07/17/25 13:51	
Ethyl-tert-butyl ether	ug/L	ND	10.0	07/17/25 13:51	
Ethylbenzene	ug/L	ND	5.0	07/17/25 13:51	
m&p-Xylene	ug/L	ND	10.0	07/17/25 13:51	
Methyl-tert-butyl ether	ug/L	ND	5.0	07/17/25 13:51	
Naphthalene	ug/L	ND	5.0	07/17/25 13:51	
o-Xylene	ug/L	ND	5.0	07/17/25 13:51	
tert-Amyl Alcohol	ug/L	ND	100	07/17/25 13:51	
tert-Amylmethyl ether	ug/L	ND	10.0	07/17/25 13:51	
tert-Butyl Alcohol	ug/L	ND	100	07/17/25 13:51	
tert-Butyl Formate	ug/L	ND	50.0	07/17/25 13:51	
Toluene	ug/L	ND	5.0	07/17/25 13:51	
Xylene (Total)	ug/L	ND	5.0	07/17/25 13:51	
1,2-Dichloroethane-d4 (S)	%	85	70-130	07/17/25 13:51	
4-Bromofluorobenzene (S)	%	87	70-130	07/17/25 13:51	
Toluene-d8 (S)	%	98	70-130	07/17/25 13:51	

LABORATORY CONTROL SAMPLE: 4873902

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	20	15.5	77	70-130	
3,3-Dimethyl-1-Butanol	ug/L	400	423	106	70-130	
Benzene	ug/L	20	20.3	102	70-130	
Diisopropyl ether	ug/L	20	17.1	85	70-130	
Ethanol	ug/L	800	771	96	70-130	
Ethyl-tert-butyl ether	ug/L	40	32.4	81	70-130	
Ethylbenzene	ug/L	20	19.3	97	70-130	
m&p-Xylene	ug/L	40	39.8	100	70-130	
Methyl-tert-butyl ether	ug/L	20	15.9	79	70-130	
Naphthalene	ug/L	20	21.6	108	70-130	
o-Xylene	ug/L	20	19.7	99	70-130	

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QUALITY CONTROL DATA

Project: JAKE HUGGIN'S DBA OUTPOST 3423

Pace Project No.: 92807874

LABORATORY CONTROL SAMPLE: 4873902

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Amyl Alcohol	ug/L	400	421	105	70-130	
tert-Amylmethyl ether	ug/L	40	38.1	95	70-130	
tert-Butyl Alcohol	ug/L	200	169	84	70-130	
tert-Butyl Formate	ug/L	160	169	105	70-130	
Toluene	ug/L	20	17.8	89	70-130	
Xylene (Total)	ug/L	60	59.6	99	70-130	
1,2-Dichloroethane-d4 (S)	%			86	70-130	
4-Bromofluorobenzene (S)	%			90	70-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE SAMPLE: 4873903

Parameter	Units	92807874002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	20	21.3	107	70-137	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	336	84	39-157	
Benzene	ug/L	19.4	20	40.6	106	70-151	
Diisopropyl ether	ug/L	22.5	20	52.3	149	63-144	M1
Ethanol	ug/L	ND	800	768	96	39-176	
Ethyl-tert-butyl ether	ug/L	ND	40	41.9	105	66-137	
Ethylbenzene	ug/L	ND	20	22.1	110	66-153	
m&p-Xylene	ug/L	ND	40	43.8	109	69-152	
Methyl-tert-butyl ether	ug/L	131	20	165	171	54-156	M1
Naphthalene	ug/L	ND	20	22.2	108	61-148	
o-Xylene	ug/L	ND	20	21.9	110	70-148	
tert-Amyl Alcohol	ug/L	ND	400	372	93	54-153	
tert-Amylmethyl ether	ug/L	5.3J	40	43.2	95	69-139	
tert-Butyl Alcohol	ug/L	ND	200	297	139	43-188	
tert-Butyl Formate	ug/L	ND	160	ND	3	10-170	P5
Toluene	ug/L	ND	20	20.3	101	59-148	
Xylene (Total)	ug/L	ND	60	65.7	110	63-158	
1,2-Dichloroethane-d4 (S)	%				102	70-130	
4-Bromofluorobenzene (S)	%				101	70-130	
Toluene-d8 (S)	%				98	70-130	

SAMPLE DUPLICATE: 4873904

Parameter	Units	92807874003 Result	Dup Result	RPD	Qualifiers
1,2-Dichloroethane	ug/L	ND	ND		
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		
Benzene	ug/L	ND	ND		
Diisopropyl ether	ug/L	ND	ND		
Ethanol	ug/L	ND	ND		
Ethyl-tert-butyl ether	ug/L	ND	ND		
Ethylbenzene	ug/L	ND	ND		

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QUALITY CONTROL DATA

Project: JAKE HUGGIN'S DBA OUTPOST 3423

Pace Project No.: 92807874

SAMPLE DUPLICATE: 4873904

Parameter	Units	92807874003 Result	Dup Result	RPD	Qualifiers
m&p-Xylene	ug/L	ND	ND		
Methyl-tert-butyl ether	ug/L	ND	ND		
Naphthalene	ug/L	ND	ND		
o-Xylene	ug/L	ND	ND		
tert-Amyl Alcohol	ug/L	ND	ND		
tert-Amylmethyl ether	ug/L	ND	ND		
tert-Butyl Alcohol	ug/L	ND	ND		
tert-Butyl Formate	ug/L	ND	ND		
Toluene	ug/L	ND	ND		
Xylene (Total)	ug/L	ND	ND		
1,2-Dichloroethane-d4 (S)	%	83	107		
4-Bromofluorobenzene (S)	%	89	99		
Toluene-d8 (S)	%	98	101		

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QUALITY CONTROL DATA

Project: JAKE HUGGIN'S DBA OUTPOST 3423

Pace Project No.: 92807874

QC Batch:	949119	Analysis Method:	EPA 8260D
QC Batch Method:	EPA 8260D	Analysis Description:	8260 MSV SC
		Laboratory:	Pace Analytical Services - Charlotte

Associated Lab Samples: 92807874010, 92807874014, 92807874017

METHOD BLANK: 4877726 Matrix: Water

Associated Lab Samples: 92807874010, 92807874014, 92807874017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	07/23/25 10:26	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	07/23/25 10:26	
Benzene	ug/L	ND	5.0	07/23/25 10:26	
Diisopropyl ether	ug/L	ND	5.0	07/23/25 10:26	
Ethanol	ug/L	ND	200	07/23/25 10:26	
Ethyl-tert-butyl ether	ug/L	ND	10.0	07/23/25 10:26	
Ethylbenzene	ug/L	ND	5.0	07/23/25 10:26	
m&p-Xylene	ug/L	ND	10.0	07/23/25 10:26	
Methyl-tert-butyl ether	ug/L	ND	5.0	07/23/25 10:26	
Naphthalene	ug/L	ND	5.0	07/23/25 10:26	
o-Xylene	ug/L	ND	5.0	07/23/25 10:26	
tert-Amyl Alcohol	ug/L	ND	100	07/23/25 10:26	
tert-Amylmethyl ether	ug/L	ND	10.0	07/23/25 10:26	
tert-Butyl Alcohol	ug/L	ND	100	07/23/25 10:26	
tert-Butyl Formate	ug/L	ND	50.0	07/23/25 10:26	IH,v1
Toluene	ug/L	ND	5.0	07/23/25 10:26	
Xylene (Total)	ug/L	ND	5.0	07/23/25 10:26	
1,2-Dichloroethane-d4 (S)	%	94	70-130	07/23/25 10:26	
4-Bromofluorobenzene (S)	%	98	70-130	07/23/25 10:26	
Toluene-d8 (S)	%	101	70-130	07/23/25 10:26	

LABORATORY CONTROL SAMPLE: 4877727

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	20	20.0	100	70-130	
3,3-Dimethyl-1-Butanol	ug/L	400	334	84	70-130	
Benzene	ug/L	20	20.6	103	70-130	
Diisopropyl ether	ug/L	20	19.2	96	70-130	
Ethanol	ug/L	800	678	85	70-130	
Ethyl-tert-butyl ether	ug/L	40	40.7	102	70-130	
Ethylbenzene	ug/L	20	20.2	101	70-130	
m&p-Xylene	ug/L	40	41.9	105	70-130	
Methyl-tert-butyl ether	ug/L	20	19.3	97	70-130	
Naphthalene	ug/L	20	22.7	114	70-130	
o-Xylene	ug/L	20	21.0	105	70-130	
tert-Amyl Alcohol	ug/L	400	386	96	70-130	
tert-Amylmethyl ether	ug/L	40	39.6	99	70-130	
tert-Butyl Alcohol	ug/L	200	160	80	70-130	
tert-Butyl Formate	ug/L	160	219	137	70-130	IH,L1,v1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: JAKE HUGGIN'S DBA OUTPOST 3423

Pace Project No.: 92807874

LABORATORY CONTROL SAMPLE: 4877727

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene	ug/L	20	19.8	99	70-130	
Xylene (Total)	ug/L	60	62.9	105	70-130	
1,2-Dichloroethane-d4 (S)	%			95	70-130	
4-Bromofluorobenzene (S)	%			103	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE SAMPLE: 4877728

Parameter	Units	92808428001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	25	ND	127	70-137	
3,3-Dimethyl-1-Butanol	ug/L	ND	500	2200J	439	39-157	M1
Benzene	ug/L	755	25	812	229	70-151	M1
Diisopropyl ether	ug/L	ND	25	103J	139	63-144	
Ethanol	ug/L	ND	1000	ND	165	39-176	
Ethyl-tert-butyl ether	ug/L	ND	50	ND	118	66-137	
Ethylbenzene	ug/L	71.1J	25	105J	135	66-153	
m&p-Xylene	ug/L	ND	50	166J	138	69-152	
Methyl-tert-butyl ether	ug/L	3080	25	3200	499	54-156	M1
Naphthalene	ug/L	ND	25	115J	307	61-148	M1
o-Xylene	ug/L	ND	25	ND	127	70-148	
tert-Amyl Alcohol	ug/L	9320	500	9910	118	54-153	
tert-Amylmethyl ether	ug/L	ND	50	169J	339	69-139	M1
tert-Butyl Alcohol	ug/L	ND	250	ND	93	43-188	
tert-Butyl Formate	ug/L	ND	200	ND	136	10-170	IH,v1
Toluene	ug/L	ND	25	ND	117	59-148	
Xylene (Total)	ug/L	ND	75	ND	0	63-158	
1,2-Dichloroethane-d4 (S)	%				95	70-130	
4-Bromofluorobenzene (S)	%				104	70-130	
Toluene-d8 (S)	%				101	70-130	

SAMPLE DUPLICATE: 4877729

Parameter	Units	92808428002 Result	Dup Result	RPD	Qualifiers
1,2-Dichloroethane	ug/L	ND	ND		
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		
Benzene	ug/L	425	436	2	
Diisopropyl ether	ug/L	ND	ND		
Ethanol	ug/L	ND	ND		
Ethyl-tert-butyl ether	ug/L	ND	ND		
Ethylbenzene	ug/L	208	210	1	
m&p-Xylene	ug/L	135J	136J		
Methyl-tert-butyl ether	ug/L	2770	2800	1	
Naphthalene	ug/L	ND	ND		
o-Xylene	ug/L	68.8J	68.1J		

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QUALITY CONTROL DATA

Project: JAKE HUGGIN'S DBA OUTPOST 3423

Pace Project No.: 92807874

SAMPLE DUPLICATE: 4877729

Parameter	Units	92808428002 Result	Dup Result	RPD	Qualifiers
tert-Amyl Alcohol	ug/L	ND	ND		
tert-Amylmethyl ether	ug/L	ND	ND		
tert-Butyl Alcohol	ug/L	ND	ND		
tert-Butyl Formate	ug/L	ND	ND		IH,v1
Toluene	ug/L	ND	ND		
Xylene (Total)	ug/L	203	ND		
1,2-Dichloroethane-d4 (S)	%	96	99		
4-Bromofluorobenzene (S)	%	98	99		
Toluene-d8 (S)	%	100	101		

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QUALITY CONTROL DATA

Project: JAKE HUGGIN'S DBA OUTPOST 3423

Pace Project No.: 92807874

QC Batch:	949146	Analysis Method:	EPA 504.1
QC Batch Method:	EPA 504.1	Analysis Description:	GCS 504 EDB DBCP
		Laboratory:	Pace Analytical Services - Charlotte

Associated Lab Samples: 92807874021, 92807874022, 92807874023, 92807874024

METHOD BLANK: 4877789 Matrix: Water

Associated Lab Samples: 92807874021, 92807874022, 92807874023, 92807874024

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	07/22/25 12:17	
1-Chloro-2-bromopropane (S)	%	111	70-130	07/22/25 12:17	

LABORATORY CONTROL SAMPLE & LCSD: 4877790

4877791

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	0.25	0.31	0.32	124	130	70-130	5	20	
1-Chloro-2-bromopropane (S)	%				116	123	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4877793

4877794

Parameter	Units	92807874022 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	0.25	0.25	0.29	0.30	114	120	65-135	5	
1-Chloro-2-bromopropane (S)	%						109	114	70-130		

SAMPLE DUPLICATE: 4877792

Parameter	Units	92807874021 Result	Dup Result	RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		
1-Chloro-2-bromopropane (S)	%	112	111		

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QUALITY CONTROL DATA

Project: JAKE HUGGIN'S DBA OUTPOST 3423

Pace Project No.: 92807874

QC Batch:	949144	Analysis Method:	EPA 8011
QC Batch Method:	EPA 8011	Analysis Description:	GCS 8011 EDB DBCP
		Laboratory:	Pace Analytical Services - Charlotte

Associated Lab Samples: 92807874001, 92807874002, 92807874003, 92807874004

METHOD BLANK: 4877777 Matrix: Water

Associated Lab Samples: 92807874001, 92807874002, 92807874003, 92807874004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	07/23/25 13:50	
1-Chloro-2-bromopropane (S)	%	127	60-140	07/23/25 13:50	

LABORATORY CONTROL SAMPLE & LCSD: 4877778

4877779

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	0.25	0.35	0.34	139	138	60-140	1	20	
1-Chloro-2-bromopropane (S)	%				129	126	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4877781

4877782

Parameter	Units	92807874002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	0.25	0.25	0.35	0.36	144	145	60-140	1	M1
1-Chloro-2-bromopropane (S)	%						114	116	60-140		

SAMPLE DUPLICATE: 4877780

Parameter	Units	92807874001 Result	Dup Result	RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		
1-Chloro-2-bromopropane (S)	%	132	110		

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QUALITY CONTROL DATA

Project: JAKE HUGGIN'S DBA OUTPOST 3423
Pace Project No.: 92807874

QC Batch:	949145	Analysis Method:	EPA 8011
QC Batch Method:	EPA 8011	Analysis Description:	GCS 8011 EDB DBCP
		Laboratory:	Pace Analytical Services - Charlotte
Associated Lab Samples:	92807874005, 92807874006, 92807874007, 92807874008, 92807874009, 92807874010, 92807874011, 92807874012, 92807874013, 92807874014, 92807874015, 92807874016, 92807874017, 92807874018, 92807874019		

METHOD BLANK:	4877783	Matrix:	Water
Associated Lab Samples:	92807874005, 92807874006, 92807874007, 92807874008, 92807874009, 92807874010, 92807874011, 92807874012, 92807874013, 92807874014, 92807874015, 92807874016, 92807874017, 92807874018, 92807874019		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	07/22/25 21:06	
1-Chloro-2-bromopropane (S)	%	119	60-140	07/22/25 21:06	

LABORATORY CONTROL SAMPLE & LCSD:		4877784	4877785							
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	0.25	0.33	0.32	133	129	60-140	4	20	
1-Chloro-2-bromopropane (S)	%				122	118	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		4877787	4877788								
Parameter	Units	92807874006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	0.25	0.25	0.41	0.41	164	164	60-140	0	M1
1-Chloro-2-bromopropane (S)	%						113	121	60-140		

SAMPLE DUPLICATE: 4877786					
Parameter	Units	92807874005 Result	Dup Result	RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		
1-Chloro-2-bromopropane (S)	%	101	103		

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QUALIFIERS

Project: JAKE HUGGIN'S DBA OUTPOST 3423
Pace Project No.: 92807874

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.
A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

ANALYTE QUALIFIERS

IH	This analyte exceeded secondary source verification criteria high for the initial calibration. The reported results should be considered an estimated value.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
P5	The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.
v1	The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the associated samples may have a high bias.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: JAKE HUGGIN'S DBA OUTPOST 3423

Pace Project No.: 92807874

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92807874021	WSW-1	EPA 504.1	949146	EPA 504.1	949214
92807874022	WSW-2	EPA 504.1	949146	EPA 504.1	949214
92807874023	WSW-DUP	EPA 504.1	949146	EPA 504.1	949214
92807874024	WSW-FB	EPA 504.1	949146	EPA 504.1	949214
92807874001	MW-1	EPA 8011	949144	EPA 8011	949212
92807874002	MW-2	EPA 8011	949144	EPA 8011	949212
92807874003	MW-3	EPA 8011	949144	EPA 8011	949212
92807874004	MW-4	EPA 8011	949144	EPA 8011	949212
92807874005	MW-5	EPA 8011	949145	EPA 8011	949213
92807874006	MW-6	EPA 8011	949145	EPA 8011	949213
92807874007	MW-7	EPA 8011	949145	EPA 8011	949213
92807874008	MW-8	EPA 8011	949145	EPA 8011	949213
92807874009	MW-9	EPA 8011	949145	EPA 8011	949213
92807874010	MW-10	EPA 8011	949145	EPA 8011	949213
92807874011	DW-1	EPA 8011	949145	EPA 8011	949213
92807874012	DW-2	EPA 8011	949145	EPA 8011	949213
92807874013	DW-3	EPA 8011	949145	EPA 8011	949213
92807874014	DW-4	EPA 8011	949145	EPA 8011	949213
92807874015	SW-1	EPA 8011	949145	EPA 8011	949213
92807874016	SW-2	EPA 8011	949145	EPA 8011	949213
92807874017	DUP-1	EPA 8011	949145	EPA 8011	949213
92807874018	FB	EPA 8011	949145	EPA 8011	949213
92807874019	GAC	EPA 8011	949145	EPA 8011	949213
92807874021	WSW-1	EPA 524.2	948751		
92807874022	WSW-2	EPA 524.2	948751		
92807874023	WSW-DUP	EPA 524.2	948751		
92807874024	WSW-FB	EPA 524.2	948751		
92807874025	WSW-TB	EPA 524.2	948751		
92807874015	SW-1	EPA 8260D	948666		
92807874016	SW-2	EPA 8260D	948666		
92807874021	WSW-1	EPA 8260D	948411		
92807874022	WSW-2	EPA 8260D	948411		
92807874023	WSW-DUP	EPA 8260D	948411		
92807874024	WSW-FB	EPA 8260D	948402		
92807874025	WSW-TB	EPA 8260D	948402		
92807874001	MW-1	EPA 8260D	948425		
92807874002	MW-2	EPA 8260D	948425		
92807874003	MW-3	EPA 8260D	948425		
92807874004	MW-4	EPA 8260D	948425		
92807874005	MW-5	EPA 8260D	948425		
92807874006	MW-6	EPA 8260D	948425		
92807874007	MW-7	EPA 8260D	948425		
92807874008	MW-8	EPA 8260D	948425		
92807874009	MW-9	EPA 8260D	948425		
92807874010	MW-10	EPA 8260D	949119		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: JAKE HUGGIN'S DBA OUTPOST 3423
Pace Project No.: 92807874

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92807874011	DW-1	EPA 8260D	948425		
92807874012	DW-2	EPA 8260D	948425		
92807874013	DW-3	EPA 8260D	948425		
92807874014	DW-4	EPA 8260D	949119		
92807874017	DUP-1	EPA 8260D	949119		
92807874018	FB	EPA 8260D	948425		
92807874019	GAC	EPA 8260D	948425		
92807874020	TB	EPA 8260D	948425		

REPORT OF LABORATORY ANALYSIS

Effective Date: 05/24/2024

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☒ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐Sample Condition
Upon Receipt

Client Name:

MECI

Project #:

WO#: 92807874

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client
☐ Commercial ☒ Pace ☐ Other: _____

92807874

Custody Seal Present? ☐ Yes ☐ No Seals Intact? ☐ Yes ☐ No ☐ N/ADate/Initials Person Examining Contents: APCPacking Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☐ OtherBiological Tissue Frozen? ☒ Yes ☐ No ☐ N/A

Thermometer:

☒ IR Gun ID: 927053Type of Ice: ☒ Wet ☐ Blue ☐ NoneCooler Temp: 23.2.8Correction Factor: 0.0

Add/Subtract (°C)

Cooler Temp Corrected (°C): 23.2.8USDA Regulated Soil (☐ N/A, water sample)

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begunDid samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ NoDid samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

Comments/Discrepancy:

Chain of Custody Present? ☒ Yes ☐ No ☐ N/A 1.Samples Arrived within Hold Time? ☒ Yes ☐ No ☐ N/A 2.Short Hold Time Analysis (<72 hr.)? ☐ Yes ☒ No ☐ N/A 3.Rush Turn Around Time Requested? ☐ Yes ☒ No ☐ N/A 4.Sufficient Volume? ☒ Yes ☐ No ☐ N/A 5.Correct Containers Used? ☒ Yes ☐ No ☐ N/A 6.-Pace Containers Used? ☒ Yes ☐ No ☐ N/AContainers Intact? ☒ Yes ☐ No ☐ N/A 7.Dissolved analysis: Samples Field Filtered? ☐ Yes ☒ No ☐ N/A 8.Sample Labels Match COC? ☒ Yes ☐ No ☐ N/A 9.-Includes Date/Time/ID/Analysis Matrix: NYHeadspace in VOA Vials (>5-6mm)? ☐ Yes ☒ No ☐ N/A 7-16Trip Blank Present? ☒ Yes ☐ No ☐ N/A 11.Trip Blank Custody Seals Present? ☒ Yes ☐ No ☐ N/A

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____

Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____

Effective Date: 05/24/2024

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of boxes to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project #

W0#: 92807874

PM: BH

Due Date: 07/24/25

CLIENT: 92-MIDLAND

Laboratory Receiving location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client _____ Profile/EZ (Circle one) _____ Notes _____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic Zn Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9A-40 mL Amber NH4Cl (N/A) (Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit) VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH4)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
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pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Effective Date: 05/24/2024

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of boxes to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project #

②

Laboratory Receiving location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client _____ Profile/EZ (Circle one) _____ Notes _____

Item#	CC	1	2	3	4	5	6	7	8	9	10	11	12
BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)													
BP3U-250 mL Plastic Unpreserved (N/A)													
BP2U-500 mL Plastic Unpreserved (N/A)													
BP1U-1 liter Plastic Unpreserved (N/A)													
BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)													
BP3N-250 mL plastic HNO3 (pH < 2)													
BP4Z-125 mL Plastic Zn Acetate & NaOH (>9)													
BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)													
WGFU-Wide-mouthed Glass jar Unpreserved													
AG1U-1 liter Amber Unpreserved (N/A) (Cl-)													
AG1H-1 liter Amber HCl (pH < 2)													
AG3U-250 mL Amber Unpreserved (N/A) (Cl-)													
AG1S-1 liter Amber H2SO4 (pH < 2)													
AG3S-250 mL Amber H2SO4 (pH < 2)													
DG9A-40 mL Amber NH4Cl (N/A) (Cl-)													
DG9H-40 mL VOA HCl (N/A)													
VG9T-40 mL VOA Na2S2O3 (N/A)													
VG9U-40 mL VOA Unpreserved (N/A)													
DG9V-40 mL VOA H3PO4 (N/A)													
KP7U-50 mL Plastic Unpreserved (N/A)													
V/GK (3 vials per kit)-VPH/Gas kit (N/A)													
SP5T-125 mL Sterile Plastic (N/A - lab)													
SP2T-250 mL Sterile Plastic (N/A - lab)													
BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)													
AG0U-100 mL Amber Unpreserved (N/A) (Cl-)													
VSGU-20 mL Scintillation vials (N/A)													
DG9U-40 mL Amber Unpreserved vials (N/A)													

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

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Effective Date: 05/24/2024

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of boxes to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project #

3

Laboratory Receiving location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client _____ Profile/EZ (Circle one) _____ Notes _____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic 2N Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9A-40 mL Amber NH4Cl (N/A) (Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH4)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
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pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Effective Date: 05/24/2024

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of boxes to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project #

4

Laboratory Receiving location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client _____ Profile/EZ (Circle one) _____ Notes _____

Item#																												
BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)																												
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BP2U-500 mL Plastic Unpreserved (N/A)																												
BP1U-1 liter Plastic Unpreserved (N/A)																												
BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)																												
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AG1H-1 liter Amber HCl (pH < 2)																												
AG3U-250 mL Amber Unpreserved (N/A) (Cl-)																												
AG1S-1 liter Amber H2SO4 (pH < 2)																												
AG3S-250 mL Amber H2SO4 (pH < 2)																												
DG94-40 mL Amber Nitric (N/A)(Cl-)																												
DG9H-40 mL VOA HCl (N/A)																												
VG9T-40 mL VOA Na2S2O3 (N/A)																												
VG9U-40 mL VOA Unpreserved (N/A)																												
DG9V-40 mL VOA H3PO4 (N/A)																												
KP7U-50 mL Plastic Unpreserved (N/A)																												
V/GK (3 vials per kit)-VPH/Gas kit (N/A)																												
SP5T-125 mL Sterile Plastic (N/A- lab)																												
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pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Company Name: Midlands Environmental Consultants, Inc.
Street Address: 231 Dooley Road, Lexington, SC 29073

Customer Project #:

Project Name: Jake Higgins DBA outpost at Willow Creek
Site Collection Info/Facility ID (as applicable): UST#3423

Time Zone Collected: [] AK [] PT [] MT [] CT [] X [] ET

Date Deliverables: [] Level II [] Level III [] Level IV

[] EQUIS [] Other

Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW), Sediment (SED), Sludge (SL), Leachate (LL), Biosolid (BS), Other (OT)

Customer Sample ID

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Time	Collected or Composite End Date	Time	# Cont.	Res. Chlorine Results	Units
DW-1	GW	G	7/15	13:30	6				
DW-2									
DW-3									
DW-4									
SW-1	SW	G	7/15	11:29	6				
SW-2	SW	G	7/15	10:46	6				
SW-3									
SW-4									
SW-5									
SW-6									

Additional Instructions from Pace®:

REPORT "J" VALUES

Collected By: (Printed Name) Troy Douglas
Signature: [Signature]
Received by/Company: [Signature]
Date/Time: 7/16/25 9:25
Received by/Company: [Signature]
Date/Time: 7/16/25 15:10
Received by/Company: [Signature]
Date/Time: [Signature]
Date/Time: [Signature]

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields
Contact/Report To: Bryan T. Shane, P.G.
Phone #: 803-808-2043
E-Mail: jlc@mecl.net
Cc E-Mail: [Signature]

Invoice To: Lynn Shane
Invoice E-Mail: lshane@mecl.net
Purchase Order # (if applicable):
Quote #:

Regulatory Program (DW, RW, RCL, etc.) as applicable: Reportable [] Yes [] No

Rush (Pre-approval required): [] Same Day [] 1 Day [] 2 Day [] 3 Day [] Other [] Yes [] No

Field Filtered (if applicable): [] Yes [] No

DW PWSID # or WW Permit # as applicable:

County / State origin of sample(s): SOUTH CAROLINA

LAB USE ONLY - ARIIX Workorder/Login Label Here



Scan QR Code for instructions

Specify Container Size **	6	6	6	6	6	6	6	6	6
Identify Container Preservative Type***	4	4	4	4	4	4	4	4	4
Analysis Requested									

BTEXNM, DCA, OXY'S 8260D									
EDB 8011									
BTEXNM, DCA 524.2									
EDB 504.1									
OXYGENATES 8260D LOW LEVEL									
LEAD 6010									
BTEXNM, DCA, OXY'S 8260D LOW LEVEL									

No Odor
No Odor
No Odor
No Odor

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Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

login Label Here

Scan QR Code for instructions

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Invoice To: Lynn Shane
Invoice E-Mail: lshane@meci.net
Purchase Order # 11f

Quote #:

County / State origin of sample(s):	SOUTH CAROLINA
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Rush (Pre-approval required):
☐ Same Day ☐ 1 Day ☐ 2 Day ☐ 3 Day ☐ Other

DW PWSID # or WW Permit # as applicable:

Date Results Requested:	
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Field Filtered (if applicable): ☐ Yes ☐ No

P), Soil/Solid (ss), Oil (OL), Wipe (WP), Tissue (TS), Bioassay

Matrix +

DM	G
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Lab Use Only				Sample Comment
AccNum / Client ID:	Table #:	Profile / Template:	Petlog / Bottle Ord. ID:	
				Preservation non-conformance identified for sample.

[illegible][illegible]

Day	Dr
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1

	(continued)
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Page: 4 of 4

APPENDIX C:

TAX MAP

(Not Applicable)

APPENDIX D:
SOIL BORING/FIELD SCREENING LOGS & 1903 FORMS
(Not Applicable)

APPENDIX E:
WELL COMPLETION LOGS & 1903 FORMS
(Not Applicable)

APPENDIX F:
AQUIFER EVALUATION SUMMARY FORMS, DATA, GRAPHS, EQUATIONS
(Not Applicable)

APPENDIX G:
DISPOSAL MANIFEST



July 28, 2025

Re: Treatment of Purge Water
Jake Huggins DBA Outpost at Willowcreek
Florence, South Carolina
Florence County
UST Permit# 03423
MECI Project# 25-8521

To Whom it May Concern;

Midlands Environmental Consultants, Inc. is providing the following letter as certification that treatment of the referenced purge water complied with the conditions of "Proposed Conditions for Use of Portable Activated Carbon Units for the Treatment of Small Volumes of Petroleum Hydrocarbon Contaminated Groundwater", as described in the following:

Applicability:

Groundwater treated was obtained as a result development of wells and sampling.

Conditions:

1. The purge/bail water from all wells is mixed before usage of the Activated Carbon Unit.
2. No free-product was detected in any of the purge water drums.
3. Analytical results of from well sampling show average concentrations of petroleum hydrocarbon constituents less than 5000 parts per billion (ppb) Benzene and less than 20,000 ppb total BTEX.
4. The existing carbon pack will be replaced/reactivated every 5,000 gallons.
5. Record of usage is maintained by Contractor.
6. Any and all recommendations and conditions issued by the Manufacturer have been adhered to.
7. Any and all recommendations and conditions (even on a site by site basis) issued by the SCDES must be adhered to.

All purge waters were treated on-site using an up-flow treatment drum loaded with 80 pounds of activated carbon. Carbon will be loaded to a maximum of 3 pounds of total organic compounds or 5,000 gallons of development/purge water, whichever occurs first.

July 28, 2025

-A total of 85.50 gallons of purge water was treated on July 15, 2025 during groundwater sampling activities performed at the above referenced site.

Midlands Environmental also tracks cumulative organic compounds adsorbed on the activated carbon to ensure the capacity of carbon mass is not over-charged. This data is available upon request.

Should you have any questions or comments, please contact the undersigned.

Sincerely,
Midlands Environmental Consultants, Inc.



Jeff L. Coleman
Senior Scientist

APPENDIX H:
LOCAL ZONING REGULATIONS
(Not Applicable)

APPENDIX I:
FATE AND TRANSPORT MODELING
(Not Applicable)

APPENDIX J:
ACCESS AGREEMENTS
(Not Applicable)

APPENDIX K:
DATA VERIFICATION CHECKLIST

Contractor Checklist

Item#	Item	Yes	No	N/A
1	Are Facility Name, Permit #, and address provided?	X		
2	Is UST Owner/Operator name, address, & phone number provided?	X		
3	Is name, address, & phone number of current property owner provided?	X		
4	Is the DHEC Certified UST Site Rehabilitation Contractor's Name, Address, telephone number, and certification number provided?	X		
5	Is the name, address, telephone number, and certification number of the well driller that installed borings/monitoring wells provided?			X
6	Is the name, address, telephone number, and certification number of the certified laboratory(ies) performing analytical analyses provided?	X		
7	Has the facility history been summarized?	X		
8	Has the regional geology and hydrogeology been described?	X		
9	Are the receptor survey results provided as required?			X
10	Has current use of the site and adjacent land been described?	X		
11	Has the site-specific geology and hydrogeology been described?	X		
12	Has the primary soil type been described?	X		
13	Have field screening results been described?			X
14	Has a description of the soil sample collection and preservation been detailed?			X
15	Has the field screening methodology and procedure been detailed?			X
16	Has the monitoring well installation and development dates been provided?			X
17	Has the method of well development been detailed?			X
18	Has justification been provided for the locations of the monitoring wells?			X
19	Have the monitoring wells been labeled in accordance with the UST QAPP guidelines?	X		
20	Has the groundwater sampling methodology been detailed?	X		
21	Have the groundwater sampling dates and groundwater measurements been provided? (Table 2 & Figures 4-4A)	X		
22	Has the purging methodology been detailed?	X		
23	Has the volume of water purged from each well been provided along with measurements to verify that purging is complete? (Appendix B)	X		
24	If free-product is present, has the thickness been provided?			X
25	Does the report include a brief discussion of the assessment done and the results?	X		
26	Does the report include a brief discussion of the aquifer evaluation and results?			X
27	Does the report include a brief discussion of the fate & transport models used?			X

Item#	Item	Yes	No	N/A
28	Are the site-conceptual model tables included? (Tier 1 Risk Evaluation)			X
29	Have the exposure pathways been analyzed? (Tier 2 Risk Evaluation)			X
30	Have the SSTLs for each compound and pathway been calculated? (Tier 2 Risk Evaluation)			X
31	Have recommendations for further action been provided and explained?	X		
32	Has the soil analytical data for the site been provided in tabular format?			X
33	Has the potentiometric data for the site been provided in tabular format? (Table 2)	X		
34	Has the current and historical laboratory data been provided in tabular format? (Table 1)	X		
35	Have the aquifer characteristics been provided and summarized on the appropriate form? (Appendix F)			X
36	Have the Site conceptual model tables been included? (Tier 1 Risk Evaluation)			X
37	Has the topographic map been provided with all required elements? (Figure 1)	X		
38	Has the site base map been provided with all required elements? (Figure 2)	X		
39	Have the CoC site maps been provided? (Figure 3-3A)	X		
40	Has the site potentiometric map been provided? (Figure 4-4A)	X		
41	Have the geologic cross-sections been provided?			X
42	Have maps showing the predicted migration of the CoCs through time been provided? (Tier 2 Risk Evaluation)			X
43	Has the site survey been provided and include all necessary elements? (Appendix A)			X
44	Have the sampling logs, chain of custody forms, and the analytical data package been included with all required elements? (Appendix B)	X		
45	Is the laboratory performing the analyses properly certified?	X		
46	Has the tax map been included with all necessary elements? (Appendix C)			X
47	Have the soil boring/field screening logs been provided? (Appendix E)			X
48	Have the well completion logs and SCDES Form 1903 been provided? (Appendix E)			X
49	Have the aquifer evaluation forms, data, graphs, equations, etc. been provided? (Appendix F)			X
50	Have the disposal manifests been provided? (Appendix G)	X		
51	Has a copy of the local zoning regulations been provided? (Appendix H)			X
52	Has all fate and transport modeling been provided? (Appendix I)			X
53	Have copies of all access agreements obtained by the contractor been provided? (Appendix J)			X
54	Has a copy of this form been attached to the final report and are explanations for any missing or incomplete data been provided? (Appendix K)	X		

APPENDIX L:
DETAILED RECEPTOR INFORMATION

	Receptor ID: (03423-WSW01)
	Parcel ID: 00213-01-130
	Property Owner Name: Willie B Winchester Jr.
	Property Owner Address: 3101 Willow Creek Rd, Florence, SC 29505
	WSW Details: Well is inside barn building. Sample collected from spigot on water supply well. GPS: 34.096044, -79.701503

	Receptor ID: (03423-WSW02)
	Parcel ID: 00213-01-130
	Property Owner Name: Willie B Winchester Jr.
	Property Owner Address: 3101 Willow Creek Rd, Florence, SC 29505
	WSW Details: Sample collected from spigot on WSW. GPS: 34.095156, -79.700508

	Receptor ID: (03423-WSW03)
	Parcel ID: 00213-01-052
	Property Owner Name: Linda L Huggins
	Property Owner Address: 3695 Willow Creek Rd, Florence, SC 29505
	WSW Details: Well has been disconnected. Unable to sample with bailer due to metal elbow at well head. GPS: 34.096743, -79.701503

	Receptor ID: (03423-Possible WSW)
	Parcel ID: 00214-01-016
	Property Owner Name: Trent P Stallings
	Property Owner Address: 3118 Willow Creek Rd, Florence, SC 29505
	WSW Details: Possible well house attached to residence. Resident did not respond to attempts to make contact. GPS: 34.094158, -79.700555

	Receptor ID: (03423-SW01)	
	Parcel ID:	SCDOT Right of Way
	Property Owner Name:	SCDOT
	Property Owner Address:	PO Box 191, Columbia, SC 29201
SW Details: Surface water sample collected from drainage ditch. GPS: 34.095076, -79.696772		

	Receptor ID: (03423-SW02)	
	Parcel ID:	SCDOT Right of Way
	Property Owner Name:	SCDOT
	Property Owner Address:	PO Box 191, Columbia, SC 29201
SW Details: Surface water sample collected from drainage ditch. GPS: 34.095847, -79.697296		

	Receptor ID: (03423-SW03)	
	Parcel ID:	00213-01-017
	Property Owner Name:	Barbara M Williams
	Property Owner Address:	9296 Grays Highway, Ridgeland, SC 29936
SW Details: Surface water sample collected from stream. GPS: 34.094620, -79.698172		



Receptor ID: (03423-SW04)
Parcel ID: 00213-01-017
Property Owner Name: Barbara M Williams
Property Owner Address: 9296 Grays Highway, Ridgeland, SC 29936
SW Details: Surface water sample collected from stream. GPS: 34.095389, -79.698409



Receptor ID: (03423-SW05)
Parcel ID: 00213-01-017
Property Owner Name: Barbara M Williams
Property Owner Address: 9282 Grays Highway, Ridgeland, SC 29936
SW Details: Surface water sample collected from stream. GPS: 34.096050, -79.698577



Receptor ID: (03423-SW06)
Parcel ID: 00213-01-017
Property Owner Name: Barbara M Williams
Property Owner Address: 9372 Grays Highway, Ridgeland, SC 29936
SW Details: Surface water sample collected from stream. GPS: 34.096699, -79.699359

APPENDIX M:
MANN-KENDALL STATISTICAL ANALYSES

GSI MANN-KENDALL TOOLKIT

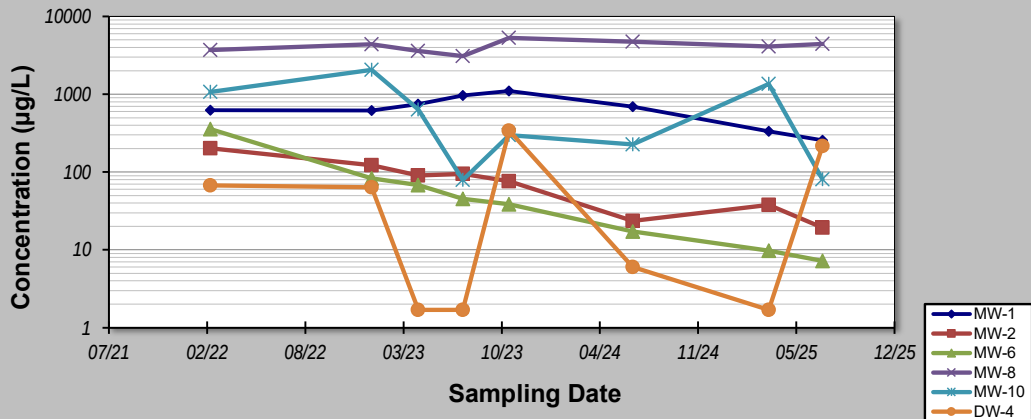
for Constituent Trend Analysis

Evaluation Date: **28-Jul-25**
 Facility Name: **Jake Huggins DBA Outpost @ Willowcreek**
 Conducted By: **Jeff Coleman**

Job ID: **UST#03423**
 Constituent: **BENZENE**
 Concentration Units: **µg/L**

Sampling Point ID: **MW-1** **MW-2** **MW-6** **MW-8** **MW-10** **DW-4**

Sampling Event	Sampling Date	BENZENE CONCENTRATION (µg/L)						
1	15-Feb-22	624	203	356	3720	1070	67.5	
2	9-Jan-23	620	122	83.3	4390	2060	63.6	
3	14-Apr-23	749	90.2	68.1	3620	634	1.7	
4	14-Jul-23	964	95.2	45.4	3110	79.3	1.7	
5	16-Oct-23	1100	76.3	38.5	5330	299	341	
6	24-Jun-24	695	23.5	17.3	4760	227	6	
7	28-Mar-25	333	37.8	9.8	4110	1360	1.7	
8	15-Jul-25	256	19.4	7.2	4430	81.1	216	
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Coefficient of Variation:		0.43	0.73	1.48	0.17	0.98	1.44	
Mann-Kendall Statistic (S):		-6	-24	-28	6	-10	-1	
Confidence Factor:		72.6%	99.9%	>99.9%	72.6%	86.2%	50.0%	
Concentration Trend:		Stable	Decreasing	Decreasing	No Trend	Stable	No Trend	



Notes:

- At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
- Confidence in Trend = Confidence (in percent) that constituent concentration is increasing ($S > 0$) or decreasing ($S < 0$): $>95\%$ = Increasing or Decreasing; $\geq 90\%$ = Probably Increasing or Probably Decreasing; $< 90\%$ and $S > 0$ = No Trend; $< 90\%$, $S \leq 0$, and $COV \geq 1$ = No Trend; $< 90\%$ and $COV < 1$ = Stable.
- Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.

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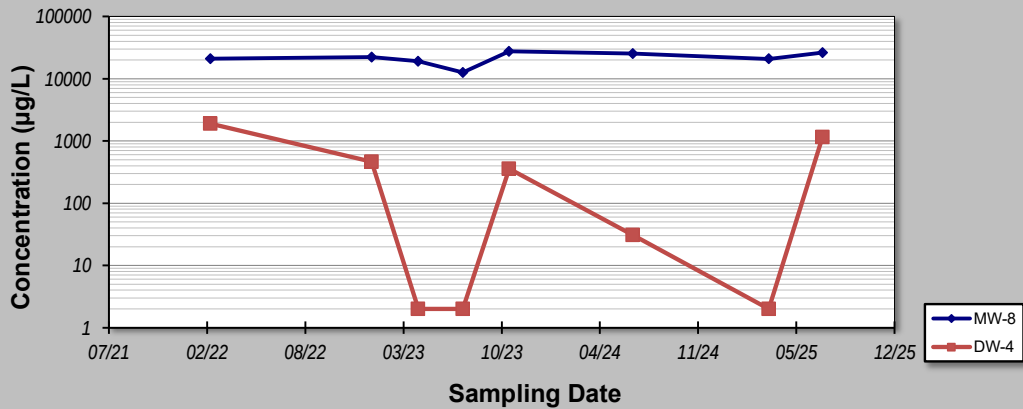
for Constituent Trend Analysis

Evaluation Date: **28-Jul-25**
 Facility Name: **Jake Huggins DBA Outpost @ Willowcreek**
 Conducted By: **Jeff Coleman**

Job ID: **UST#03423**
 Constituent: **TOLUENE**
 Concentration Units: **µg/L**

Sampling Point ID: **MW-8** **DW-4**

Sampling Event	Sampling Date	TOLUENE CONCENTRATION (µg/L)					
1	15-Feb-22	21100	1890				
2	9-Jan-23	22300	464				
3	14-Apr-23	19200	2				
4	14-Jul-23	12600	2				
5	16-Oct-23	27500	359				
6	24-Jun-24	25300	30.8				
7	28-Mar-25	20900	2				
8	15-Jul-25	26300	1150				
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20							
Coefficient of Variation:		0.22	1.42				
Mann-Kendall Statistic (S):		6	-5				
Confidence Factor:		72.6%	68.3%				
Concentration Trend:		No Trend	No Trend				



Notes:

- At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
- Confidence in Trend = Confidence (in percent) that constituent concentration is increasing ($S > 0$) or decreasing ($S < 0$): $> 95\%$ = Increasing or Decreasing; $\geq 90\%$ = Probably Increasing or Probably Decreasing; $< 90\%$ and $S > 0$ = No Trend; $< 90\%$, $S \leq 0$, and $COV \geq 1$ = No Trend; $< 90\%$ and $COV < 1$ = Stable.
- Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.

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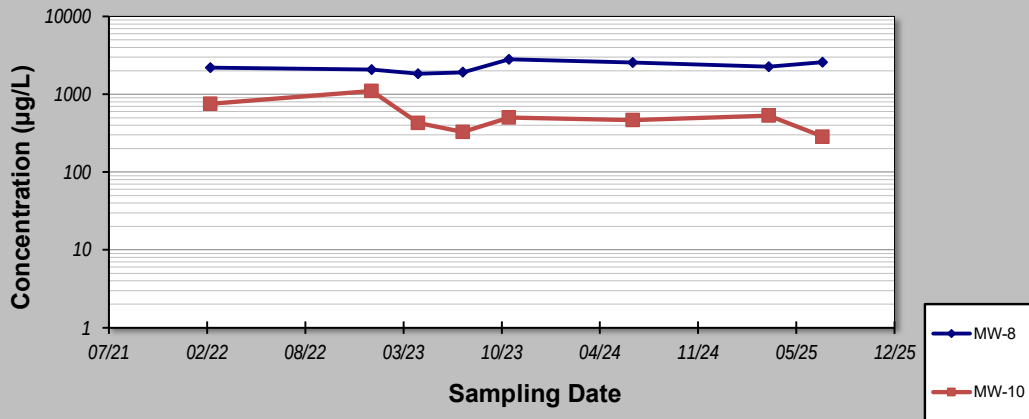
for Constituent Trend Analysis

Evaluation Date: **28-Jul-25**
 Facility Name: **Jake Huggins DBA Outpost @ Willowcreek**
 Conducted By: **Jeff Coleman**

Job ID: **UST#03423**
 Constituent: **ETHYLBENZENE**
 Concentration Units: **µg/L**

Sampling Point ID: **MW-8** **MW-10**

Sampling Event	Sampling Date	ETHYLBENZENE CONCENTRATION (µg/L)					
1	15-Feb-22	2200	753				
2	9-Jan-23	2080	1100				
3	14-Apr-23	1840	428				
4	14-Jul-23	1920	329				
5	16-Oct-23	2810	503				
6	24-Jun-24	2570	465				
7	28-Mar-25	2260	533				
8	15-Jul-25	2590	286				
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19							
20							
Coefficient of Variation:		0.15	0.48				
Mann-Kendall Statistic (S):		10	-10				
Confidence Factor:		86.2%	86.2%				
Concentration Trend:		No Trend	Stable				



Notes:

- At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
- Confidence in Trend = Confidence (in percent) that constituent concentration is increasing ($S > 0$) or decreasing ($S < 0$): $> 95\%$ = Increasing or Decreasing; $\geq 90\%$ = Probably Increasing or Probably Decreasing; $< 90\%$ and $S > 0$ = No Trend; $< 90\%$, $S \leq 0$, and $COV \geq 1$ = No Trend; $< 90\%$ and $COV < 1$ = Stable.
- Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.

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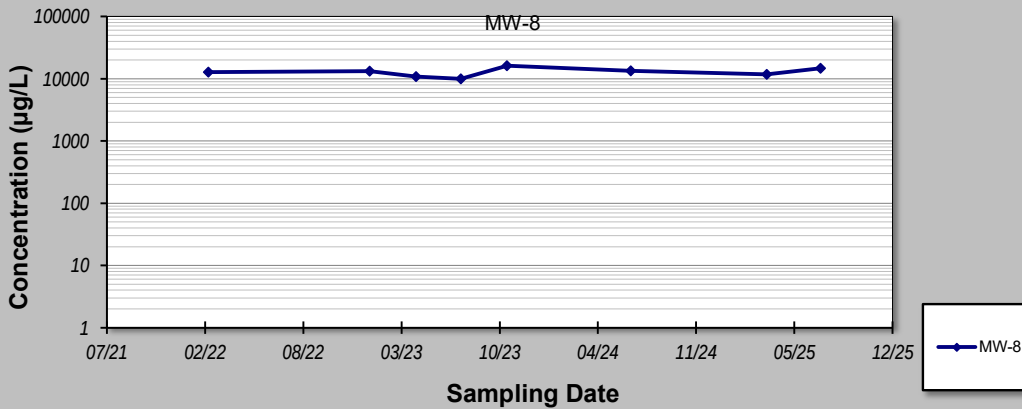
for Constituent Trend Analysis

Evaluation Date: **28-Jul-25**
 Facility Name: **Jake Huggins DBA Outpost @ Willowcreek**
 Conducted By: **Jeff Coleman**

Job ID: **UST#03423**
 Constituent: **XYLENES**
 Concentration Units: **µg/L**

Sampling Point ID: **MW-8**

Sampling Event	Sampling Date	XYLENES CONCENTRATION (µg/L)						
1	15-Feb-22	12800						
2	9-Jan-23	13300						
3	14-Apr-23	10800						
4	14-Jul-23	10000						
5	16-Oct-23	16200						
6	24-Jun-24	13400						
7	28-Mar-25	11800						
8	15-Jul-25	14800						
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20								
Coefficient of Variation:		0.16						
Mann-Kendall Statistic (S):		6						
Confidence Factor:		72.6%						
Concentration Trend:		No Trend						



Notes:

- At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
- Confidence in Trend = Confidence (in percent) that constituent concentration is increasing ($S > 0$) or decreasing ($S < 0$): $> 95\%$ = Increasing or Decreasing; $\geq 90\%$ = Probably Increasing or Probably Decreasing; $< 90\%$ and $S > 0$ = No Trend; $< 90\%$, $S \leq 0$, and $COV \geq 1$ = No Trend; $< 90\%$ and $COV < 1$ = Stable.
- Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.

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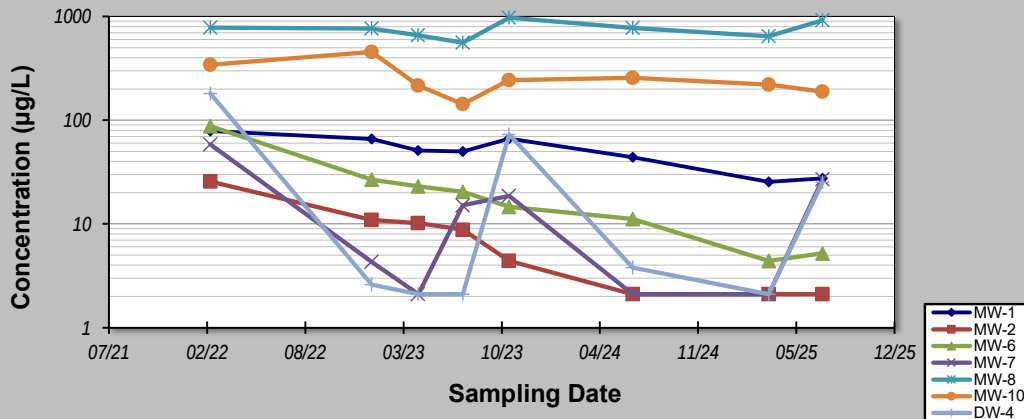
for Constituent Trend Analysis

Evaluation Date: **28-Jul-25**
 Facility Name: **Jake Huggins DBA Outpost @ Willowcreek**
 Conducted By: **Jeff Coleman**

Job ID: **UST#03423**
 Constituent: **NAPHTHALENE**
 Concentration Units: **µg/L**

Sampling Point ID: **MW-1 MW-2 MW-6 MW-7 MW-8 MW-10 DW-4**

Sampling Event	Sampling Date	NAPHTHALENE CONCENTRATION (µg/L)						
1	15-Feb-22	78.7	25.7	87.5	58.3	781	342	181
2	9-Jan-23	66	10.9	26.7	4.3	766	455	2.6
3	14-Apr-23	51.1	10.2	23	2.1	661	216	2.1
4	14-Jul-23	49.9	8.8	20.4	15.1	558	143	2.1
5	16-Oct-23	66.5	4.4	14.6	18.6	975	244	72.7
6	24-Jun-24	44	2.1	11.2	2.1	778	256	3.8
7	28-Mar-25	25.4	2.1	4.4	2.1	646	221	2.1
8	15-Jul-25	27.5	2.1	5.2	26.9	918	189	25.2
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20								
Coefficient of Variation:		0.37	0.96	1.11	1.20	0.18	0.38	1.74
Mann-Kendall Statistic (S):		-20	-25	-26	-3	0	-10	-3
Confidence Factor:		99.3%	100.0%	100.0%	59.4%	45.2%	86.2%	59.4%
Concentration Trend:		Decreasing	Decreasing	Decreasing	No Trend	Stable	Stable	No Trend



Notes:

- At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
- Confidence in Trend = Confidence (in percent) that constituent concentration is increasing ($S > 0$) or decreasing ($S < 0$): $> 95\%$ = Increasing or Decreasing; $\geq 90\%$ = Probably Increasing or Probably Decreasing; $< 90\%$ and $S > 0$ = No Trend; $< 90\%$, $S \leq 0$, and $COV \geq 1$ = No Trend; $< 90\%$ and $COV < 1$ = Stable.
- Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.

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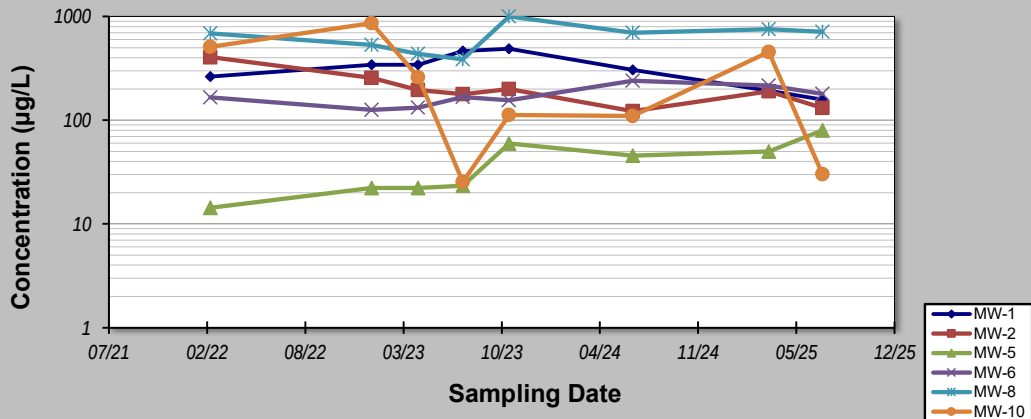
for Constituent Trend Analysis

Evaluation Date: **28-Jul-25**
 Facility Name: **Jake Huggins DBA Outpost @ Willowcreek**
 Conducted By: **Jeff Coleman**

Job ID: **UST#03423**
 Constituent: **MTBE**
 Concentration Units: **µg/L**

Sampling Point ID: **MW-1** **MW-2** **MW-5** **MW-6** **MW-8** **MW-10**

Sampling Event	Sampling Date	MTBE CONCENTRATION (µg/L)					
1	15-Feb-22	264	405	14.3	166	690	510
2	9-Jan-23	342	256	22.2	126	531	865
3	14-Apr-23	343	195	22.3	132	435	260
4	14-Jul-23	465	178	23.4	167	388	25.4
5	16-Oct-23	488	200	59.5	156	1000	112
6	24-Jun-24	306	122	45.6	241	696	110
7	28-Mar-25	193	190	50.1	216	756	457
8	15-Jul-25	158	131	79.9	179	712	30.2
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Coefficient of Variation:		0.37	0.43	0.58	0.23	0.30	1.00
Mann-Kendall Statistic (S):		-6	-18	24	14	8	-12
Confidence Factor:		72.6%	98.4%	99.9%	94.6%	80.1%	91.1%
Concentration Trend:		Stable	Decreasing	Increasing	Prob. Increasing	No Trend	Prob. Decreasing



Notes:

- At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
- Confidence in Trend = Confidence (in percent) that constituent concentration is increasing ($S > 0$) or decreasing ($S < 0$): $> 95\%$ = Increasing or Decreasing; $\geq 90\%$ = Probably Increasing or Probably Decreasing; $< 90\%$ and $S > 0$ = No Trend; $< 90\%$, $S \leq 0$, and $COV \geq 1$ = No Trend; $< 90\%$ and $COV < 1$ = Stable.
- Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.

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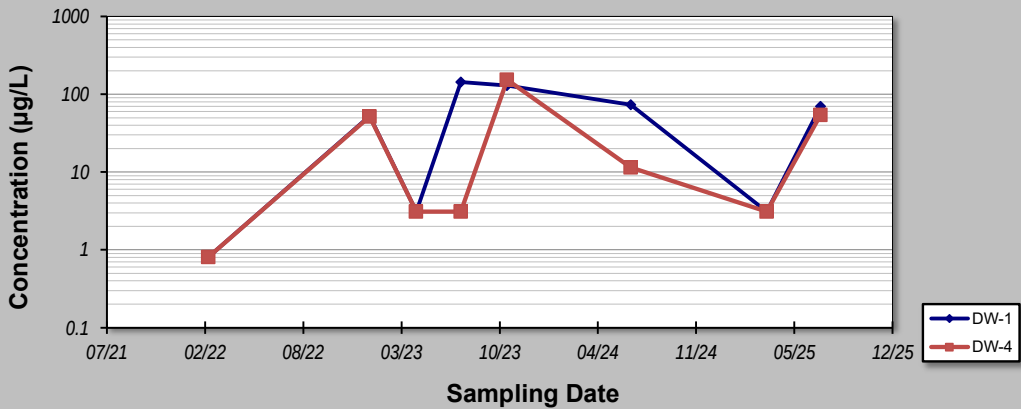
for Constituent Trend Analysis

Evaluation Date: **28-Jul-25**
 Facility Name: **Jake Huggins DBA Outpost @ Willowcreek**
 Conducted By: **Jeff Coleman**

Job ID: **UST#03423**
 Constituent: **MTBE**
 Concentration Units: **µg/L**

Sampling Point ID: **DW-1** **DW-4**

Sampling Event	Sampling Date	MTBE CONCENTRATION (µg/L)							
1	15-Feb-22	0.81	0.81						
2	9-Jan-23	52.9	51.8						
3	14-Apr-23	3.1	3.1						
4	14-Jul-23	144	3.1						
5	16-Oct-23	129	153						
6	24-Jun-24	73.2	11.5						
7	28-Mar-25	3.1	3.1						
8	15-Jul-25	69.8	54.2						
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20									
Coefficient of Variation:		0.94	1.50						
Mann-Kendall Statistic (S):		5	9						
Confidence Factor:		68.3%	83.2%						
Concentration Trend:		No Trend	No Trend						



Notes:

- At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
- Confidence in Trend = Confidence (in percent) that constituent concentration is increasing ($S > 0$) or decreasing ($S < 0$): $> 95\%$ = Increasing or Decreasing; $\geq 90\%$ = Probably Increasing or Probably Decreasing; $< 90\%$ and $S > 0$ = No Trend; $< 90\%$, $S \leq 0$, and $COV \geq 1$ = No Trend; $< 90\%$ and $COV < 1$ = Stable.
- Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.

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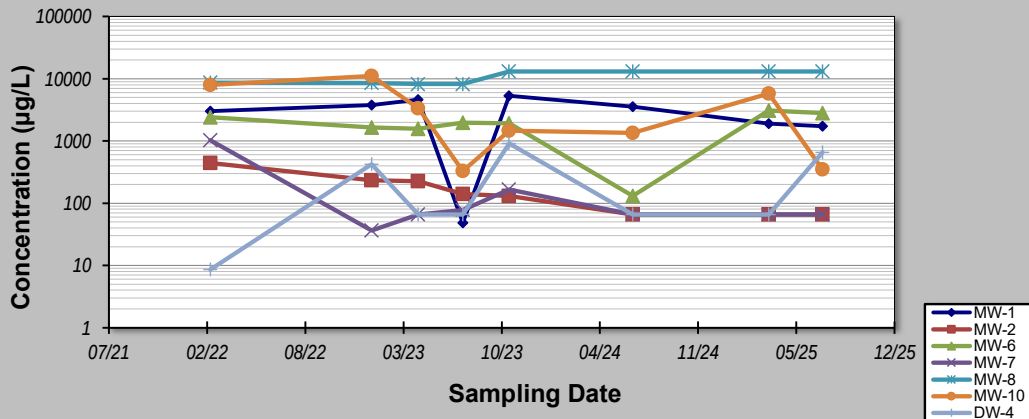
for Constituent Trend Analysis

Evaluation Date: **28-Jul-25**
 Facility Name: **Jake Huggins DBA Outpost @ Willowcreek**
 Conducted By: **Jeff Coleman**

Job ID: **UST#03423**
 Constituent: **TAA**
 Concentration Units: **µg/L**

Sampling Point ID: **MW-1** **MW-2** **MW-6** **MW-7** **MW-8** **MW-10** **DW-4**

Sampling Event	Sampling Date	TAA CONCENTRATION (µg/L)						
1	15-Feb-22	3030	442	2410	1030	8690	7950	8.6
2	9-Jan-23	3770	233	1640	36.4	8510	11100	422
3	14-Apr-23	4640	225	1570	65.6	8200	3350	65.6
4	14-Jul-23	48.3	141	1960	77.7	8200	328	65.6
5	16-Oct-23	5340	131	1930	166	13100	1460	913
6	24-Jun-24	3560	65.6	131	65.6	13100	1350	65.6
7	28-Mar-25	1900	65.6	3080	65.6	13100	5750	65.6
8	15-Jul-25	1730	65.6	2820	65.6	13100	351	656
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19								
20								
Coefficient of Variation:		0.57	0.75	0.47	1.72	0.23	1.00	1.21
Mann-Kendall Statistic (S):		-6	-25	4	-4	11	-12	8
Confidence Factor:		72.6%	100.0%	64.0%	64.0%	88.7%	91.1%	80.1%
Concentration Trend:		Stable	Decreasing	No Trend	No Trend	No Trend	Prob. Decreasing	No Trend



Notes:

- At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
- Confidence in Trend = Confidence (in percent) that constituent concentration is increasing ($S > 0$) or decreasing ($S < 0$): $> 95\%$ = Increasing or Decreasing; $\geq 90\%$ = Probably Increasing or Probably Decreasing; $< 90\%$ and $S > 0$ = No Trend; $< 90\%$, $S \leq 0$, and $COV \geq 1$ = No Trend; $< 90\%$ and $COV < 1$ = Stable.
- Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.

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GSI MANN-KENDALL TOOLKIT

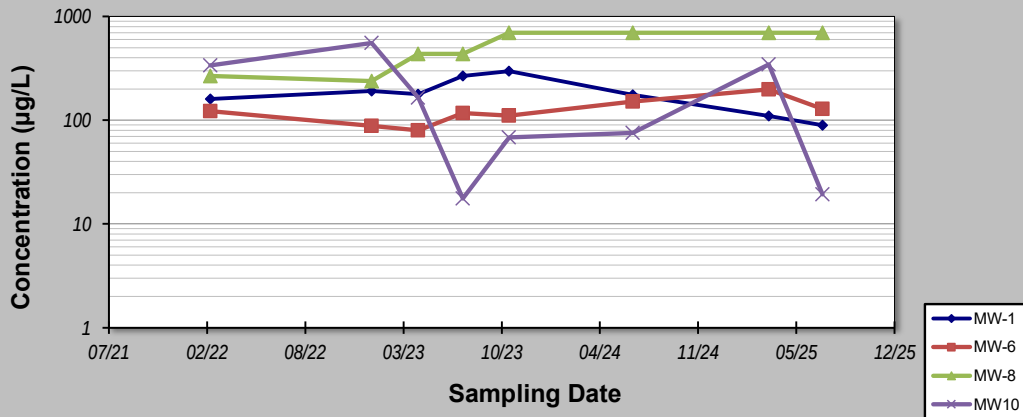
for Constituent Trend Analysis

Evaluation Date: **28-Jul-25**
 Facility Name: **Jake Huggins DBA Outpost @ Willowcreek**
 Conducted By: **Jeff Coleman**

Job ID: **UST#03423**
 Constituent: **DIPE**
 Concentration Units: **µg/L**

Sampling Point ID: **MW-1** **MW-6** **MW-8** **MW10**

Sampling Event	Sampling Date	DIPE CONCENTRATION (µg/L)							
1	15-Feb-22	160	122	268	339				
2	9-Jan-23	191	88.1	239	555				
3	14-Apr-23	178	80.1	436	165				
4	14-Jul-23	268	117	436	17.6				
5	16-Oct-23	297	111	698	68.1				
6	24-Jun-24	176	151	698	75.3				
7	28-Mar-25	110	199	698	346				
8	15-Jul-25	89.4	129	698	19.3				
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
Coefficient of Variation:		0.38	0.30	0.39	0.99				
Mann-Kendall Statistic (S):		-8	12	19	-8				
Confidence Factor:		80.1%	91.1%	98.9%	80.1%				
Concentration Trend:		Stable	Prob. Increasing	Increasing	Stable				

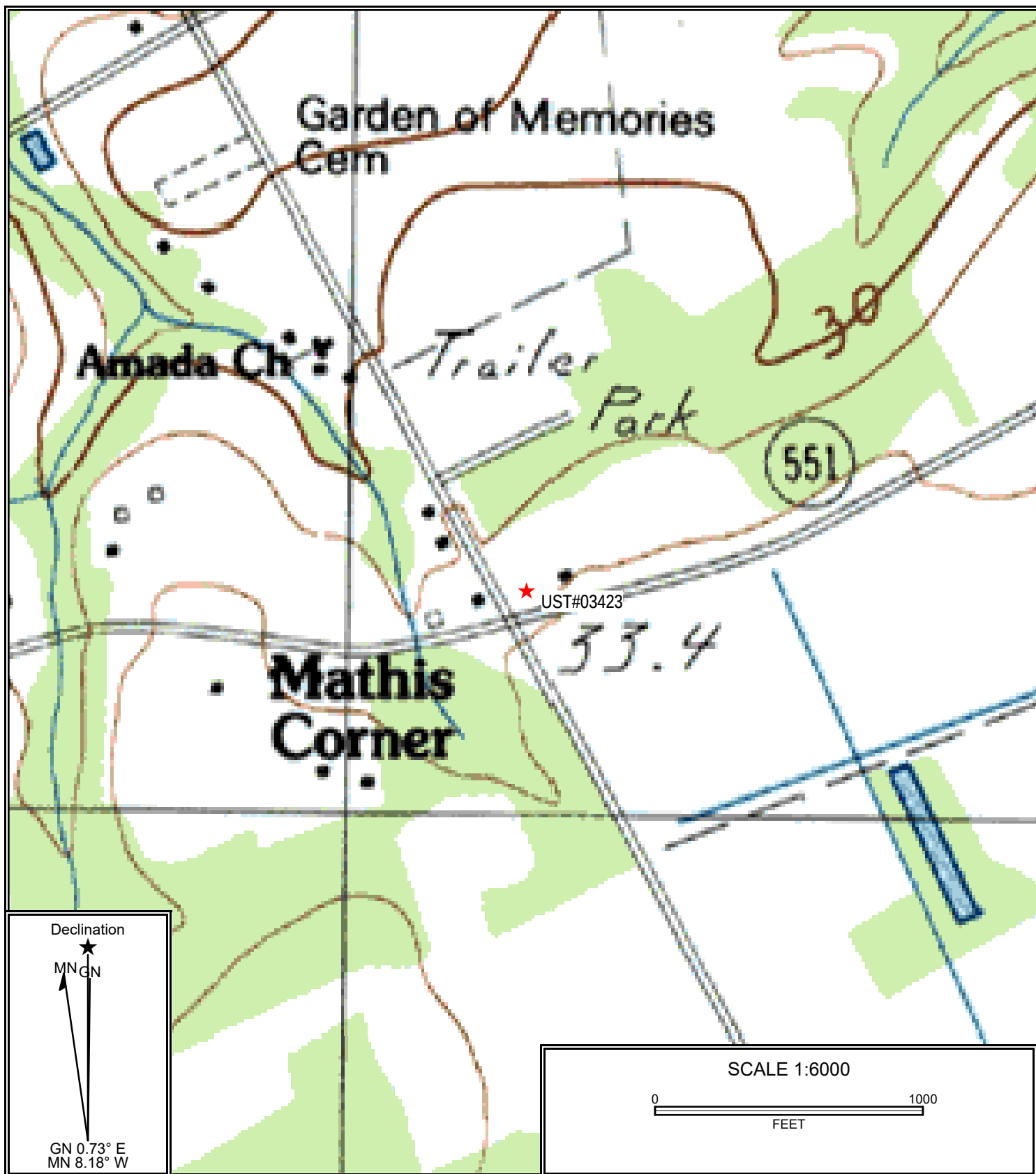


Notes:

- At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
- Confidence in Trend = Confidence (in percent) that constituent concentration is increasing ($S > 0$) or decreasing ($S < 0$): $> 95\%$ = Increasing or Decreasing; $\geq 90\%$ = Probably Increasing or Probably Decreasing; $< 90\%$ and $S > 0$ = No Trend; $< 90\%$, $S \leq 0$, and $COV \geq 1$ = No Trend; $< 90\%$ and $COV < 1$ = Stable.
- Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.

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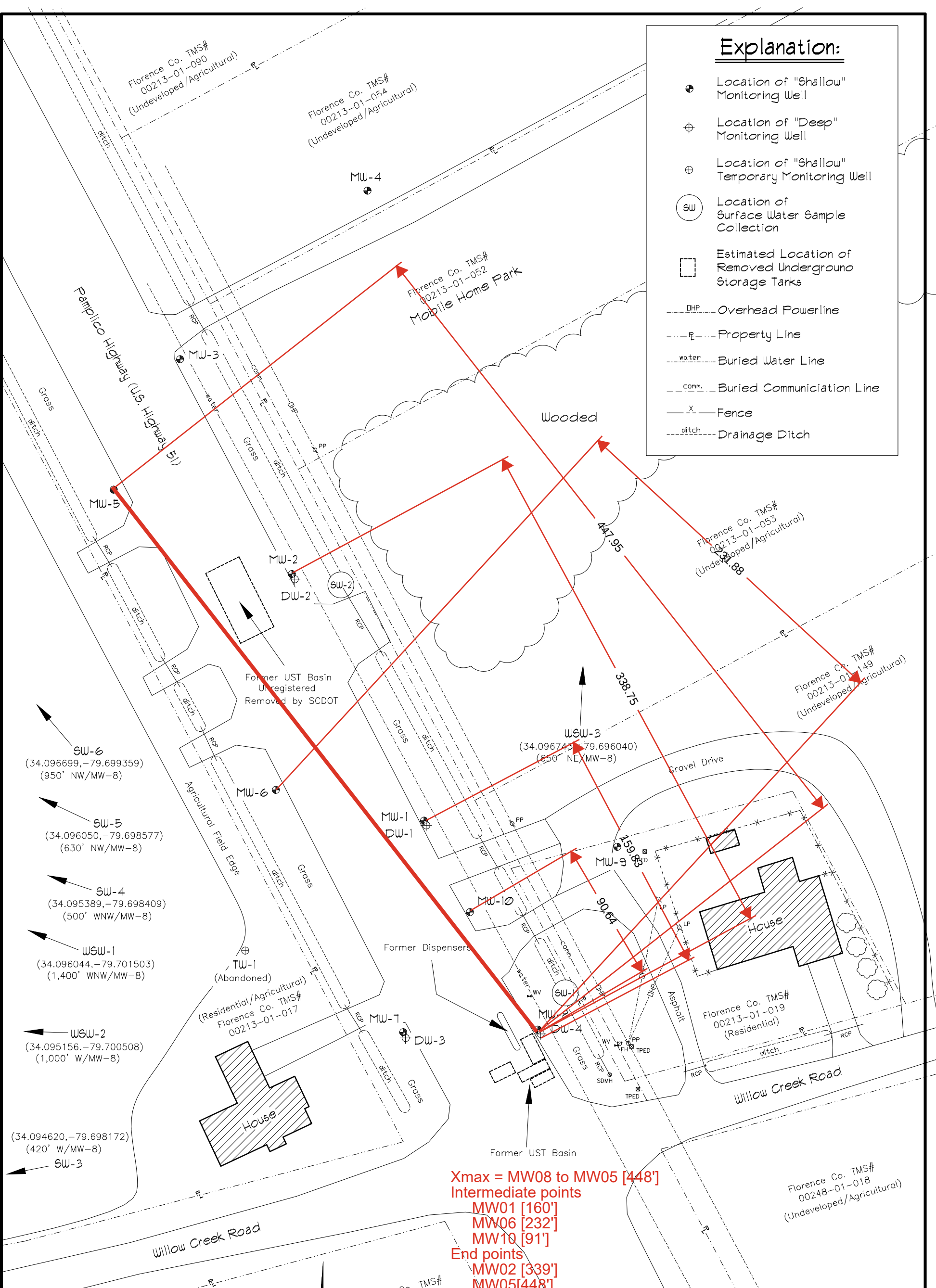
Email

Date Received 9-2-25Permit Number 03423Project Manager Robert DunnName of Contractor MECIDescription ModelDocket Number 57cedrScanned MJW

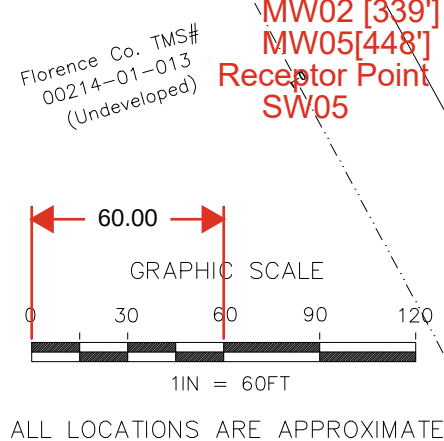
Verified _____

Explanation:

- Location of "Shallow" Monitoring Well
- Location of "Deep" Monitoring Well
- Location of "Shallow" Temporary Monitoring Well
- Location of Surface Water Sample Collection
- Estimated Location of Removed Underground Storage Tanks
- Overhead Powerline
- Property Line
- Buried Water Line
- Buried Communication Line
- Fence
- Drainage Ditch



Xmax = MW08 to MW05 [448']
Intermediate points
MW01 [160']
MW06 [232']
MW10 [91']
End points
MW02 [339']
MW05[448']
Receptor Point
SW05



Drawing Based on MECI Field Notes, Florence County GIS Imagery and an RLS Survey by Construction Support Services, dated 2/25/2022.

Site Base Map

Jake Huggins DBA Outpost at Willow Creek
4925 Pamplico Highway
Florence, South Carolina
UST Permit# 03423

Midlands Environmental Consultants, Inc.

JOB NO. 25-8491
DATE April 9, 2025
FIGURE

Domenico Model

UST # 03423

Site Name: JAKE HUGGINS DBA

Modeler: ROBERT A. DUNN

Date: 8/28/2025

Transport Parameters

$x_{\max}$	448	ft
$y_{\max}$	0	ft
z	0	ft
Source Width	30	ft
Source Thickness	15	ft
Plume Length	448	ft
α_x	16.99483	ft
α_y	1.699483	ft
α_z	1.00E-99	ft

Simulation Time t_{sim} 50 yrs**Groundwater Flow Parameters**

K	2.28E+03	ft/yr
dh/dx	0.011669659	
θ	0.3	dec. %
v_x	88.68940754	ft/yr

Aquifer Characteristics

ρ_d	1.7	kg/L
f_{oc}	0.0002	

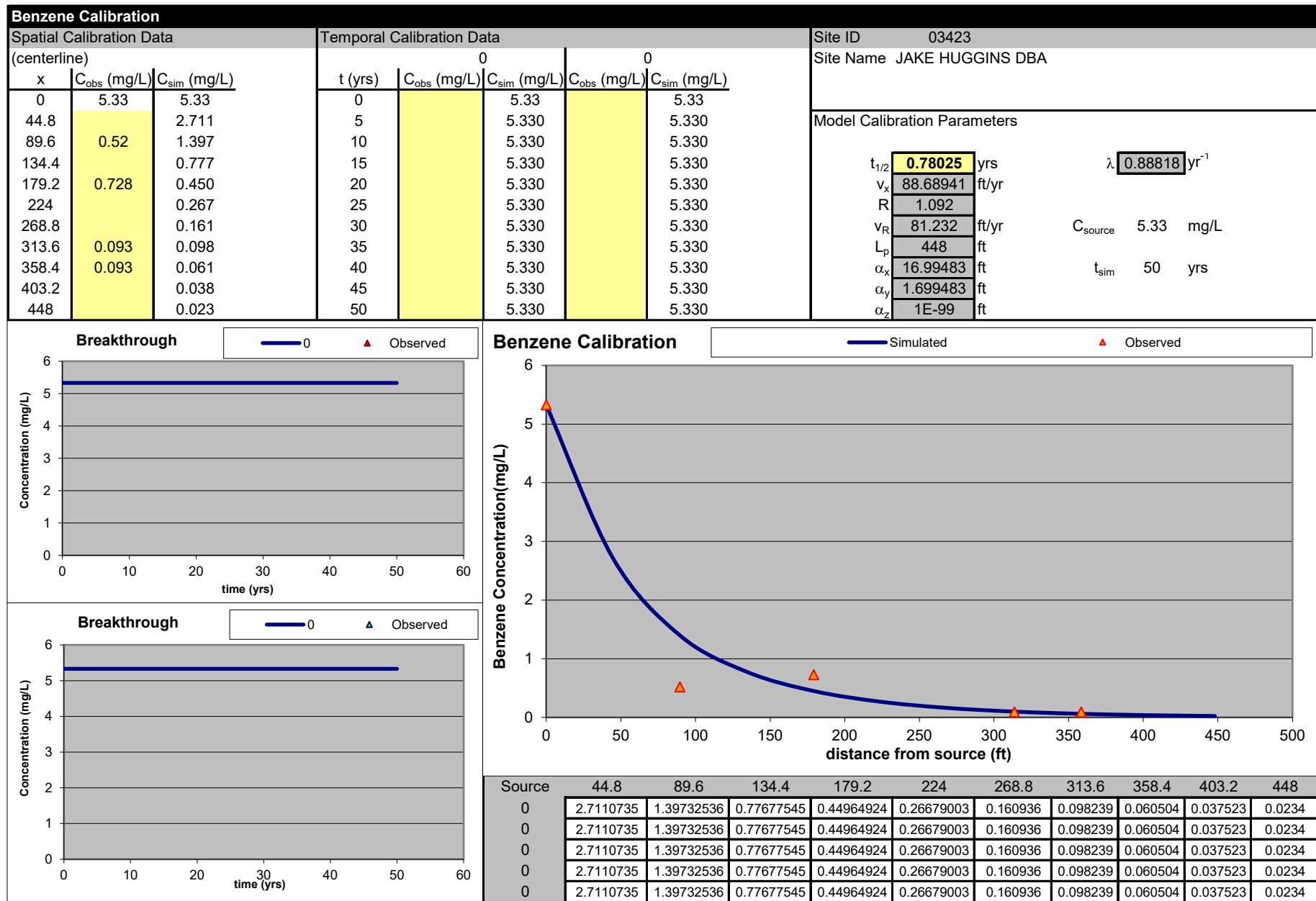
**Retarded Velocity
(ft/yr)****Source Area CoC Data**

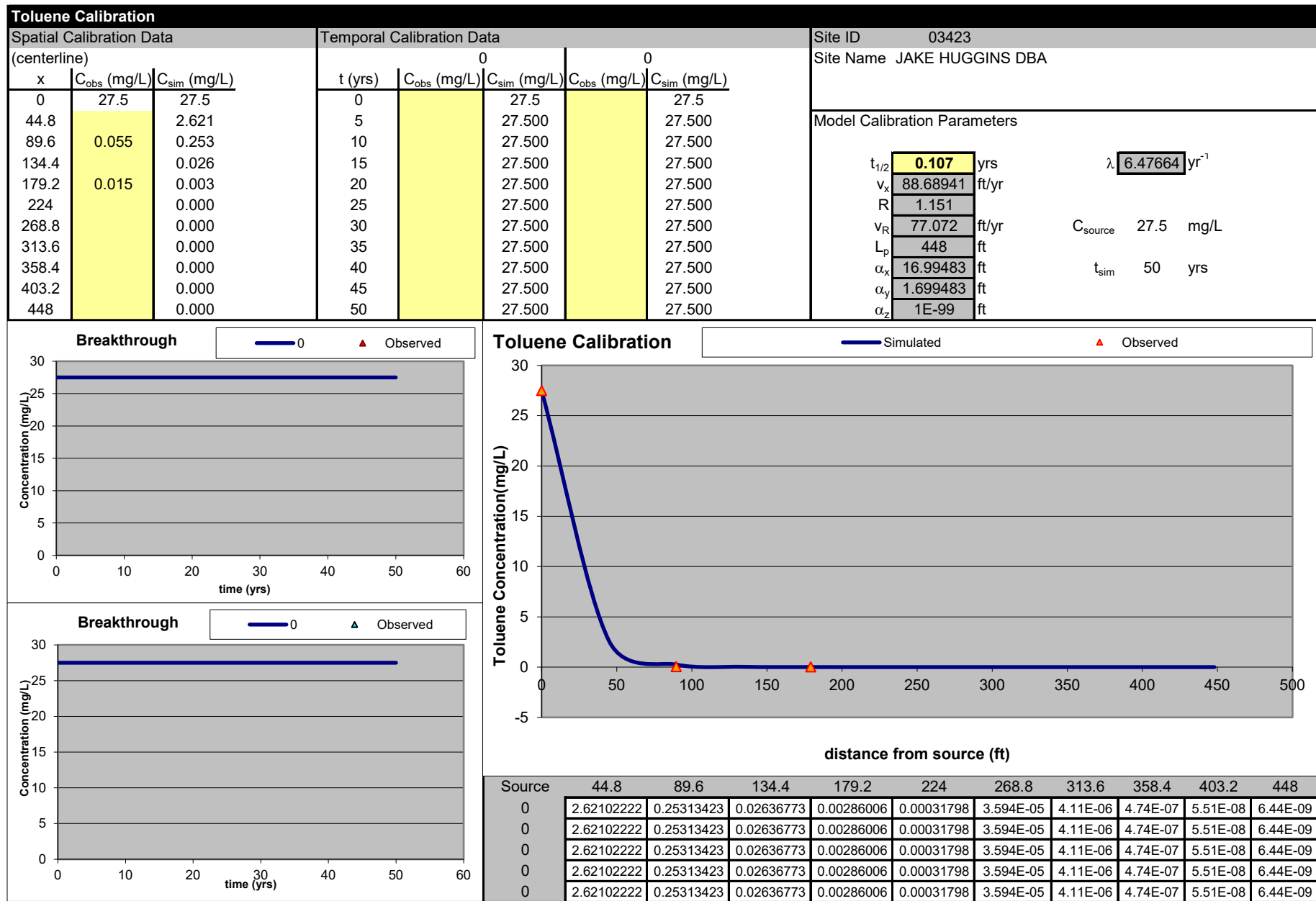
CoC	C_{source} (mg/L)	K_{oc} (L/kg)	CoC	R	v_R
Benzene	5.33	81	Benzene	1.092	81.23
Toluene	27.5	133	Toluene	1.151	77.07
Ethylbenzene	2.81	176	Ethylbenzene	1.199	73.94
Xylenes	16.2	639	Xylenes	1.724	51.44
Naphthalene	0.975	1543	Naphthalene	2.749	32.27
MtBE	0.652	11	MtBE	1.012	87.60
EDB		28	EDB	1.032	85.96
1,2-DCA		17.5	1,2-DCA	1.020	86.96

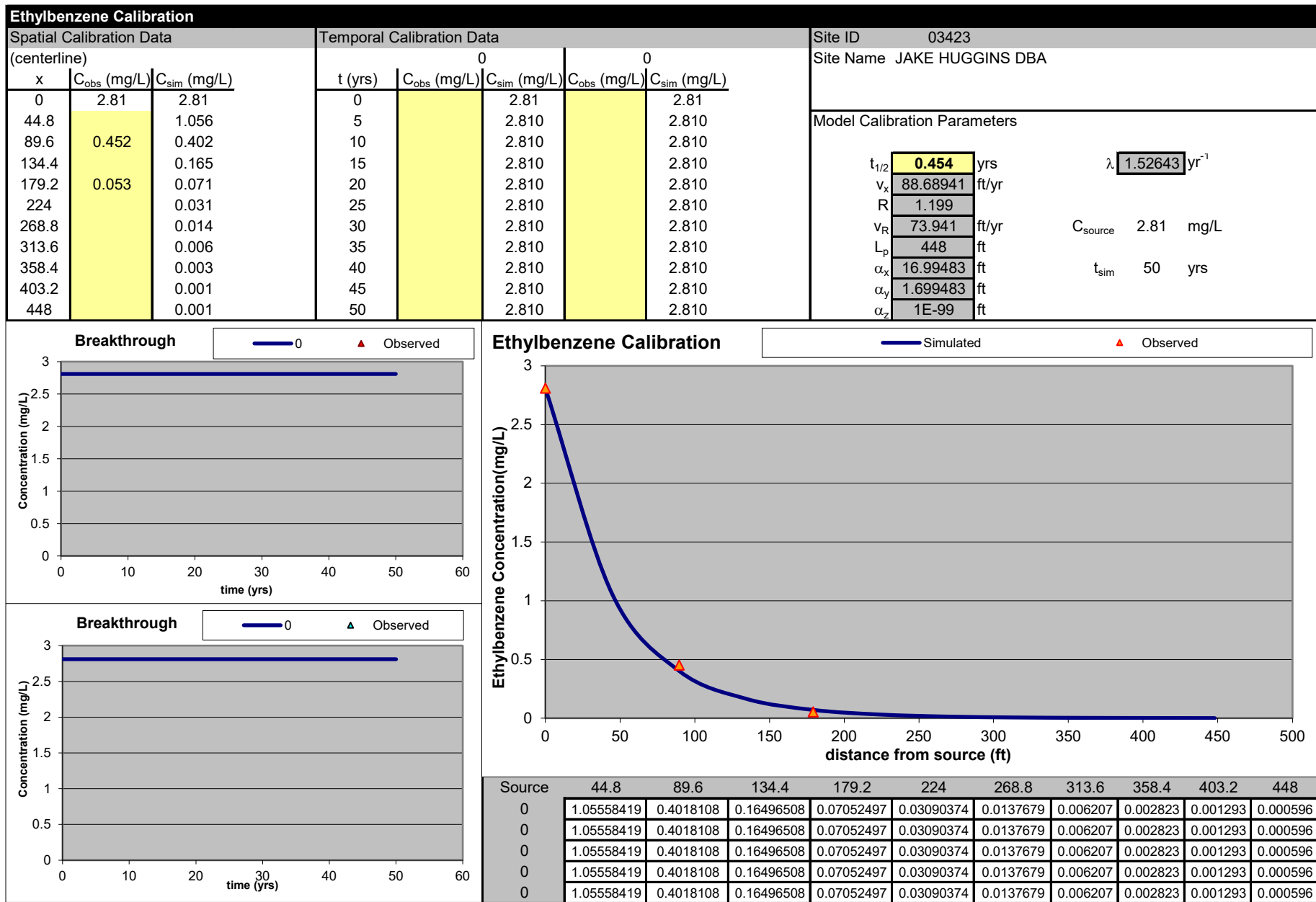
Simulation Points for Breakthrough Curves

x	0	ft
y	0	ft
z	0	ft

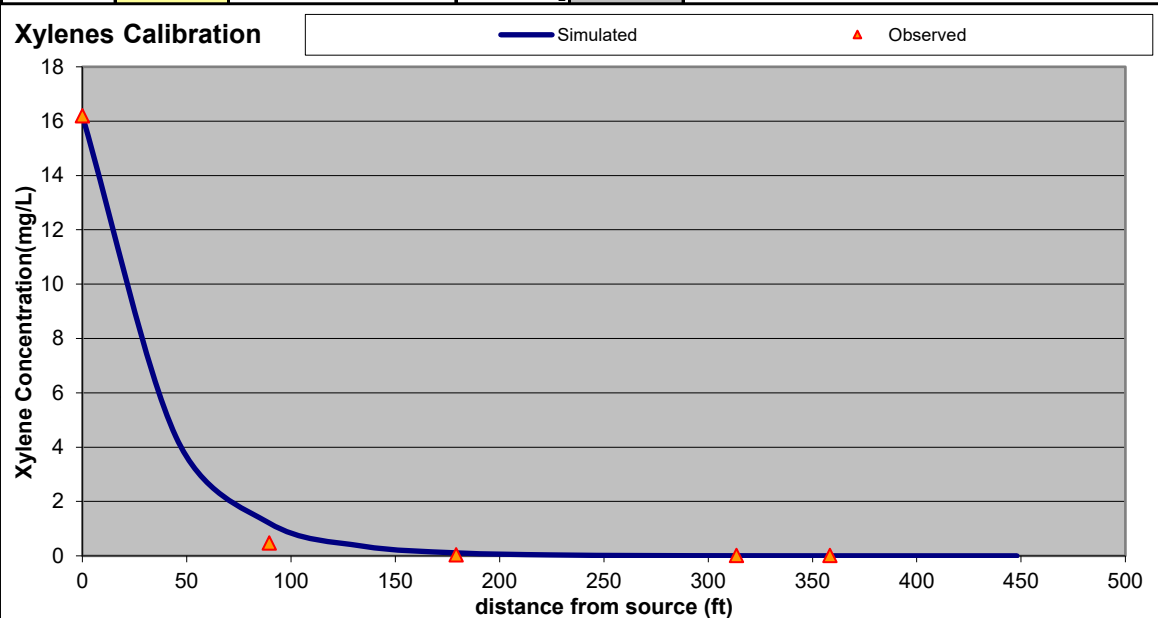
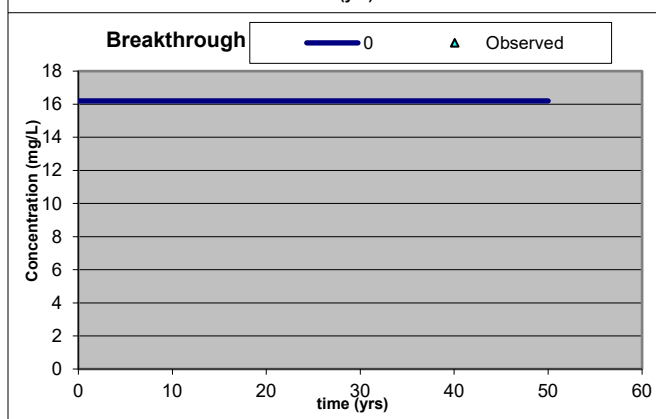
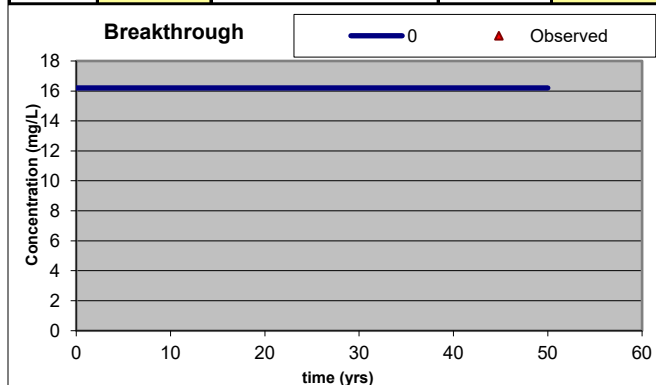
$$C(x, y, z, t) = \left(\frac{C_0}{8} \right) \exp \left[\left(\frac{x}{2\alpha_x} \right) \left(1 - \sqrt{1 + \frac{4\lambda\alpha_x}{v}} \right) \right] \operatorname{erfc} \left[\frac{x - vt \sqrt{1 + \frac{4\lambda\alpha_x}{v}}}{2\sqrt{\alpha_x vt}} \right] \left\{ \operatorname{erf} \left[\frac{y + \frac{Y}{2}}{2\sqrt{\alpha_y x}} \right] - \operatorname{erf} \left[\frac{y - \frac{Y}{2}}{2\sqrt{\alpha_y x}} \right] \right\} \left\{ \operatorname{erf} \left[\frac{z + Z}{2\sqrt{\alpha_z x}} \right] - \operatorname{erf} \left[\frac{z - Z}{2\sqrt{\alpha_z x}} \right] \right\}$$



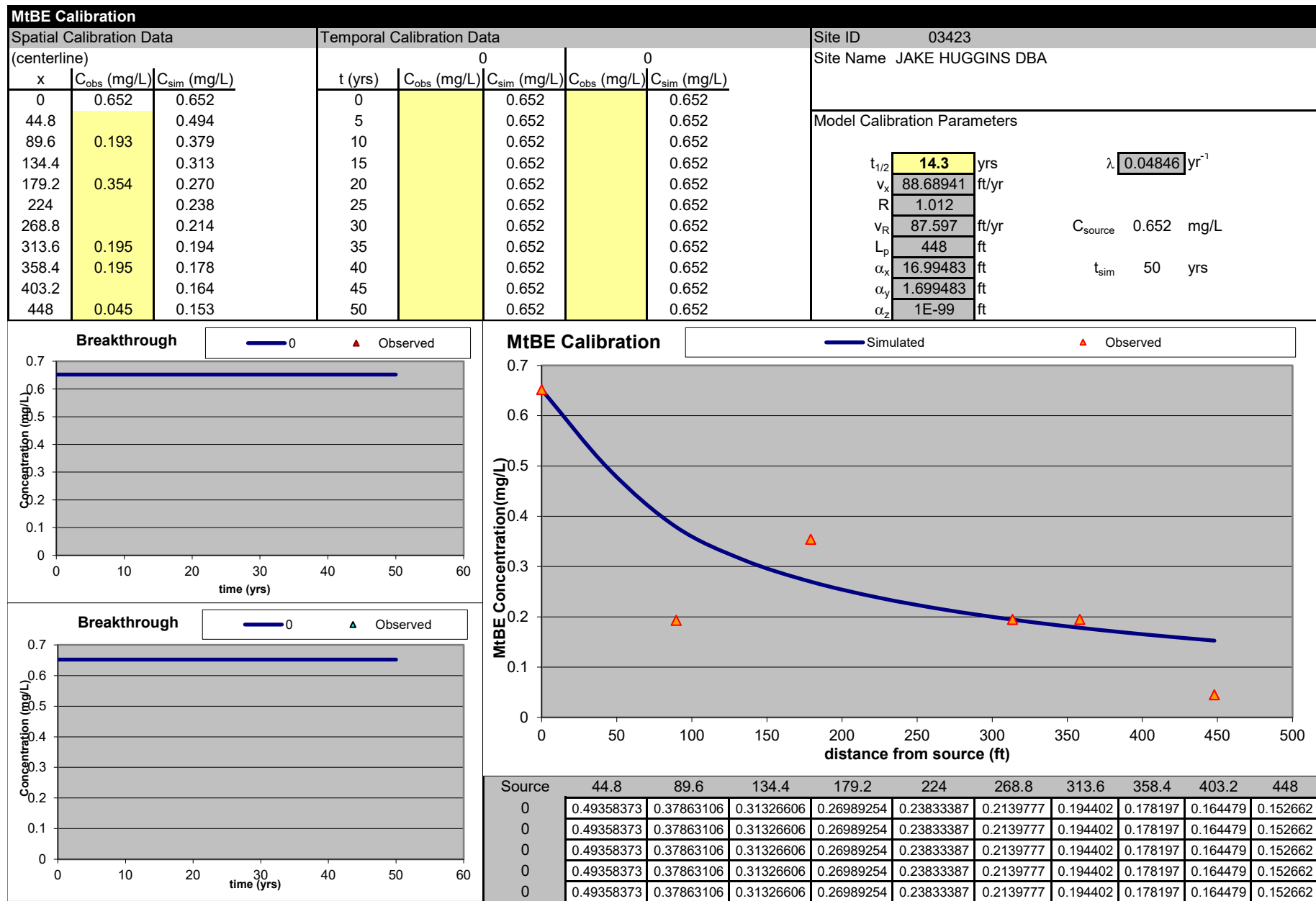


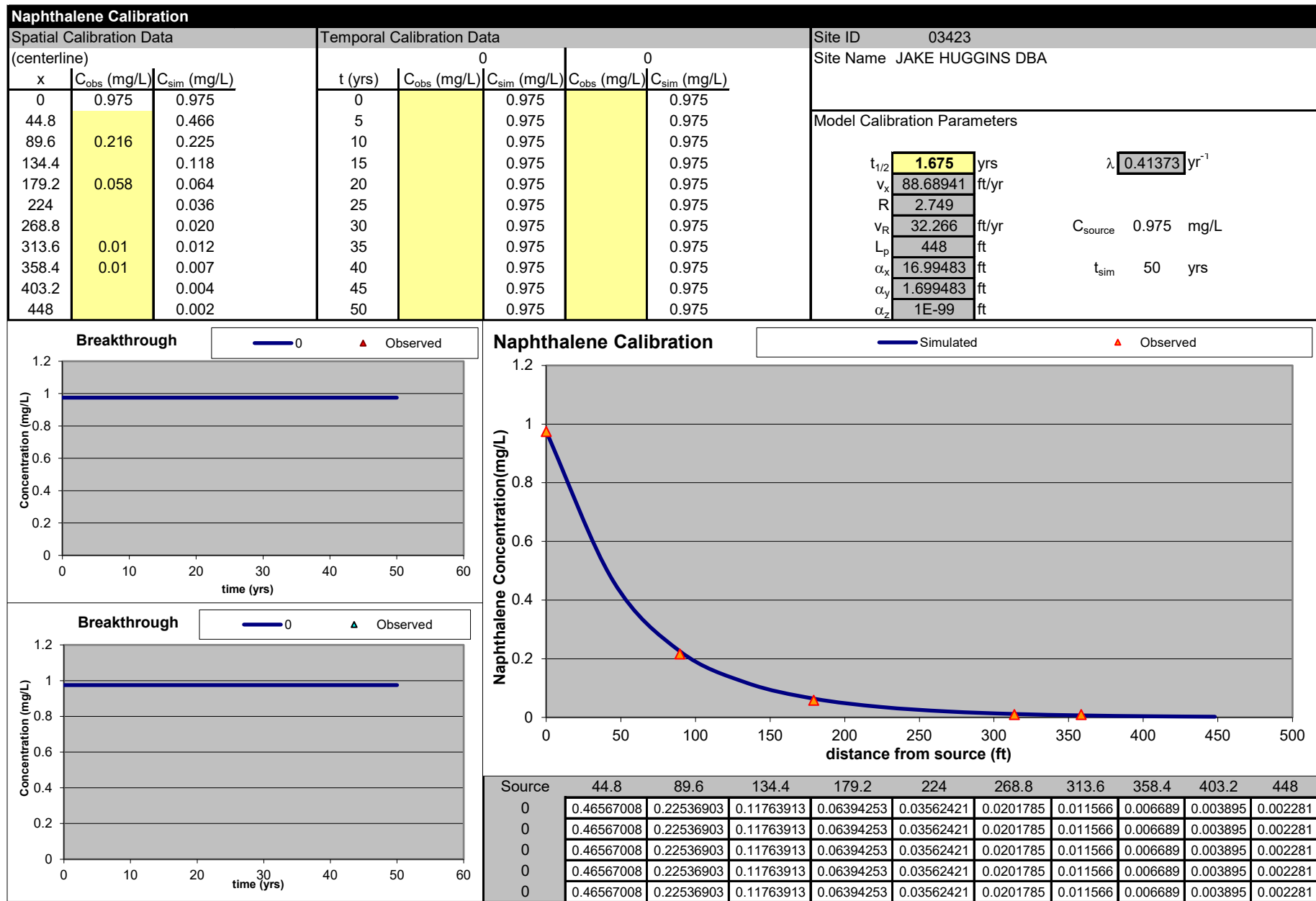


Spatial Calibration Data			Temporal Calibration Data				Site ID 03423						
(centerline)							Site Name JAKE HUGGINS DBA						
x	C _{obs} (mg/L)	C _{sim} (mg/L)	t (yrs)	C _{obs} (mg/L)	C _{sim} (mg/L)	C _{obs} (mg/L)	C _{sim} (mg/L)						
0	16.2	16.2	0		16.2		16.2						
44.8		4.389	5		16.200		16.200						
89.6	0.476	1.205	10		16.200		16.200						
134.4		0.357	15		16.200		16.200						
179.2	0.034	0.110	20		16.200		16.200						
224		0.035	25		16.200		16.200						
268.8		0.011	30		16.200		16.200						
313.6	0.01	0.004	35		16.200		16.200						
358.4	0.01	0.001	40		16.200		16.200						
403.2		0.000	45		16.200		16.200						
448		0.000	50		16.200		16.200						
								Model Calibration Parameters					
								t _{1/2}	0.41	yrs	λ	1.69024	yr ⁻¹
								v _x	88.68941	ft/yr			
								R	1.724				
								v _R	51.438	ft/yr	C _{source}	16.2	mg/L
								L _p	448	ft			
								α _x	16.99483	ft	t _{sim}	50	yrs
								α _y	1.699483	ft			
								α _z	1E-99	ft			



Source	44.8	89.6	134.4	179.2	224	268.8	313.6	358.4	403.2	448
0	4.38878353	1.20480142	0.35672084	0.10998208	0.03475623	0.0111669	0.003631	0.001191	0.000393	0.000131
0	4.38878353	1.20480142	0.35672084	0.10998208	0.03475623	0.0111669	0.003631	0.001191	0.000393	0.000131
0	4.38878353	1.20480142	0.35672084	0.10998208	0.03475623	0.0111669	0.003631	0.001191	0.000393	0.000131
0	4.38878353	1.20480142	0.35672084	0.10998208	0.03475623	0.0111669	0.003631	0.001191	0.000393	0.000131
0	4.38878353	1.20480142	0.35672084	0.10998208	0.03475623	0.0111669	0.003631	0.001191	0.000393	0.000131





SSTLs

t 1000 yrs

UST Permit # 03423

Site Name: JAKE HUGGINS DBA

SSTLs in mg/L				RBSLs (mg/L):		0.005	1.000	0.700	10.000	0.040	0.025		
MW #	x (ft)	y (ft)	z (ft)	Benzene SSTL	Toluene SSTL	Ethylbenzene SSTL	Xylenes SSTL	MtBE SSTL	Naphthalene SSTL				
MW01	500	0	0	1.959	>99999	8077.012	>99999	0.185	19.778				
MW02	364	0	0	0.468	>99999	768.421	>99999	0.148	3.900				
MW05	223	0	0	0.099	82362.935	62.500	4543.632	0.109	0.675				
MW06	380	0	0	0.555	>99999	1016.005	>99999	0.152	4.733				
MW08	630	0	0	7.454	>99999	74050.278	>99999	0.222	90.330				
MW10	558	0	0	3.567	>99999	21772.307	>99999	0.202	39.067				
λ (yr ⁻¹):				0.888	6.477	1.526	1.690	0.048	0.414				
R:				1.092	1.151	1.199	1.724	1.012	2.749				
Pure Substance Solubility:				1750	526	169	175	5110	31				
Effective Solubility:				44.39	26.54	3.7	21.68	173	6.7				

Domenico Model (Oxygenates)

UST # 03423

Site Name: JAKE HUGGINS DBA

Modeler: ROBERT A. DUNN

Date: 8/28/2025

Transport Parameters

$x_{\max}$	448	ft
$y_{\max}$	0	ft
z	0	ft
Source Width	30	ft
Source Thickness	15	ft
Plume Length	448	ft
α_x	16.99483	ft
α_y	1.699483	ft
α_z	1.00E-99	ft

Simulation Time t_{sim} 50 yrs**Groundwater Flow Parameters**

K	2280	ft/yr
dh/dx	0.011669659	
θ	0.3	dec. %
v_x	88.68940754	ft/yr

Aquifer Characteristics

ρ_d	1.7	kg/L
f_{oc}	0.0002	

**Retarded Velocity
(ft/yr)****Source Area CoC Data**

CoC	C_{source} (mg/L)	K_{oc} (L/kg)
tBA	11.4	1
tAA	8.4	1
DIPE	0.344	1.5
tAME	0.38	1.5
EtBE		1.5
Ethanol		0.5

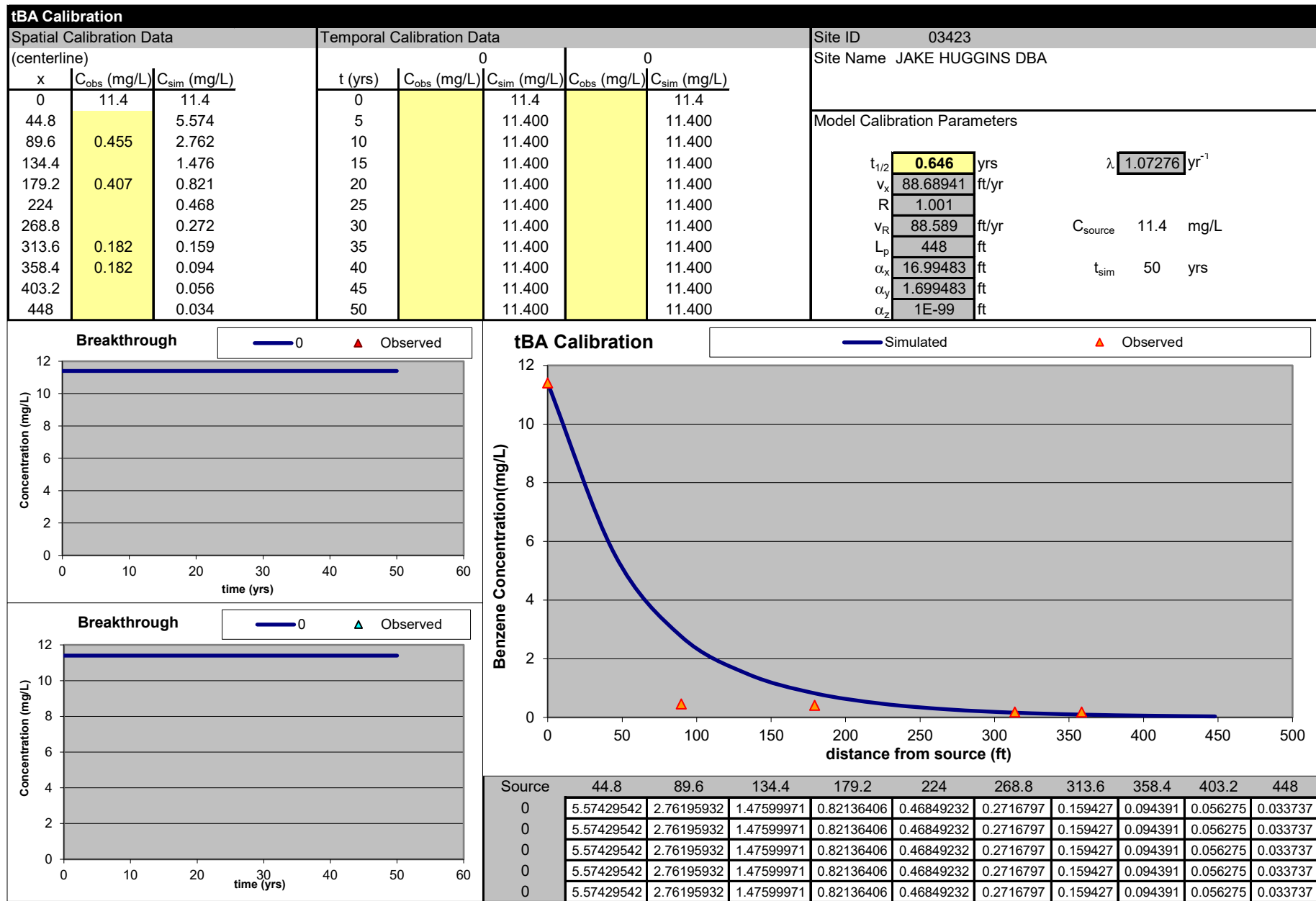
CoC	R	v_R
tBA	1.001	88.59
tAA	1.001	88.59
DIPE	1.002	88.54
tAME	1.002	88.54
EtBE	1.002	88.54
Ethanol	1.001	88.64

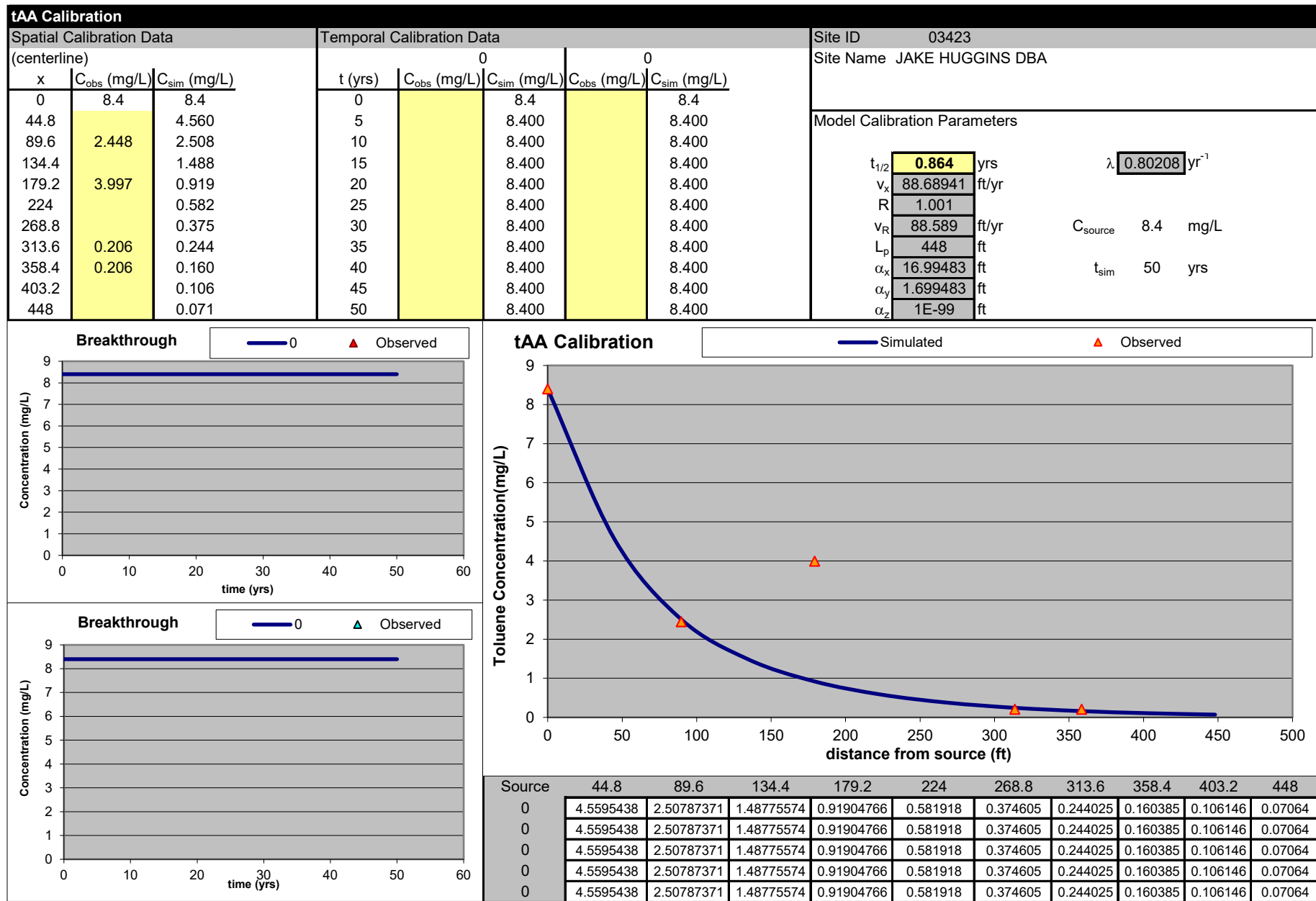
Simulation Points for Breakthrough Curves

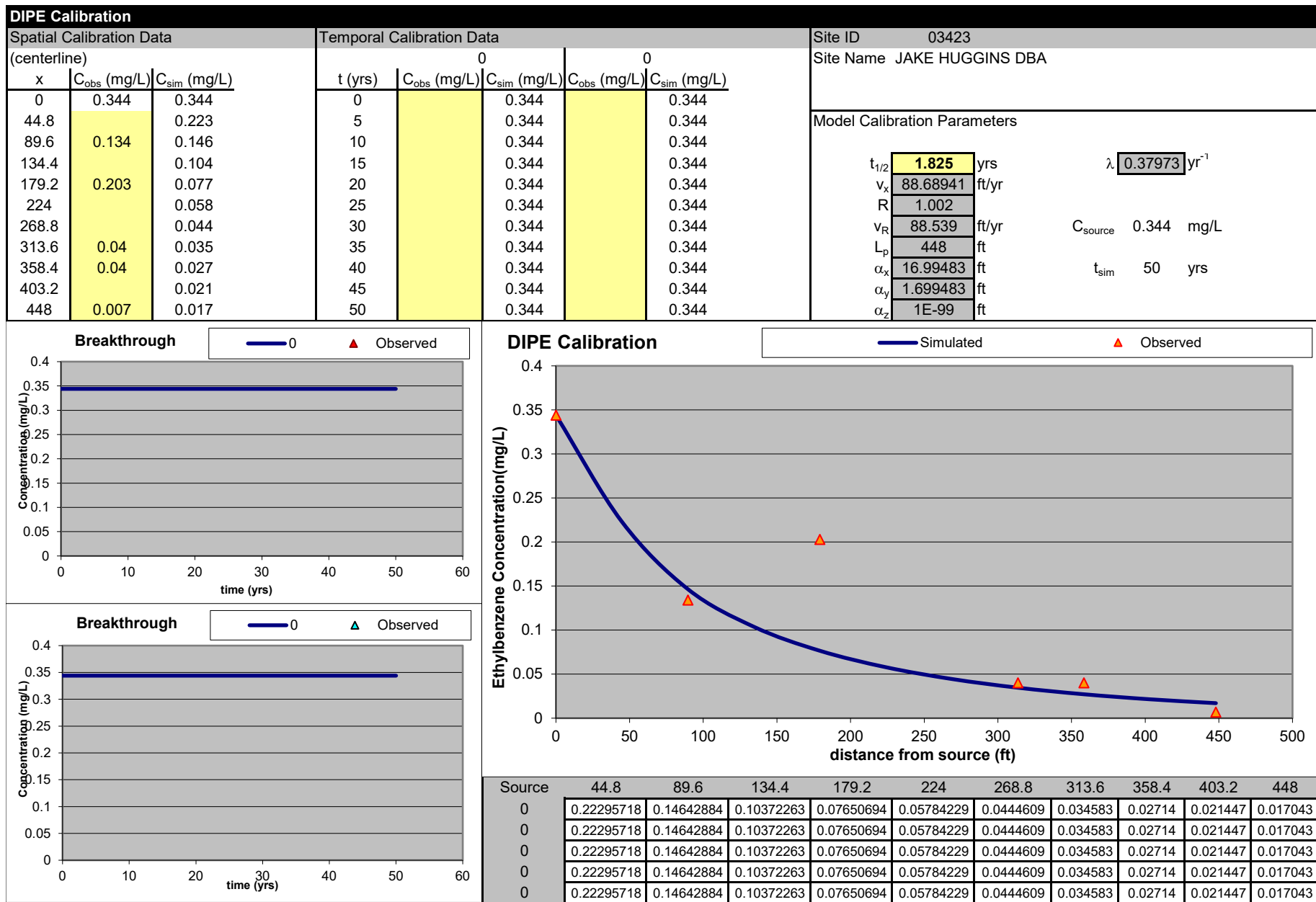
x	ft
y	ft
z	ft

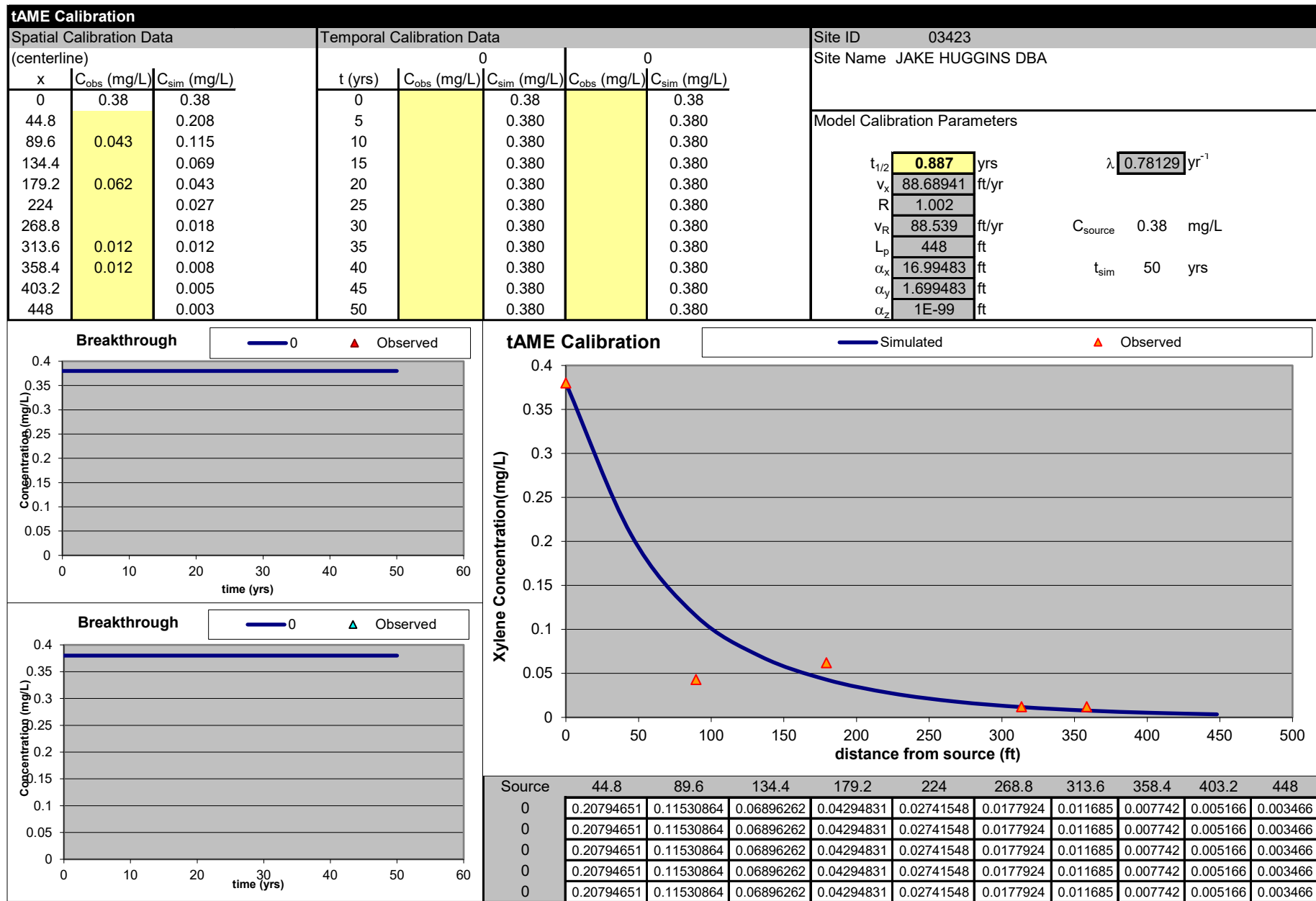
x	ft
y	ft
z	ft

$$C(x, y, z, t) = \left(\frac{C_0}{8} \right) \exp \left[\left(\frac{x}{2\alpha_x} \right) \left(1 - \sqrt{1 + \frac{4\lambda\alpha_x}{v}} \right) \right] \operatorname{erfc} \left[\frac{x - vt \sqrt{1 + \frac{4\lambda\alpha_x}{v}}}{2\sqrt{\alpha_x vt}} \right] \left\{ \operatorname{erf} \left[\frac{y + \frac{Y}{2}}{2\sqrt{\alpha_y x}} \right] - \operatorname{erf} \left[\frac{y - \frac{Y}{2}}{2\sqrt{\alpha_y x}} \right] \right\} \left\{ \operatorname{erf} \left[\frac{z + Z}{2\sqrt{\alpha_z x}} \right] - \operatorname{erf} \left[\frac{z - Z}{2\sqrt{\alpha_z x}} \right] \right\}$$









Equation 1

$$C(x, y, z, t) = \left(\frac{C_0}{8}\right) \times \exp \left[\left(\frac{x}{2\alpha_x}\right) \left(1 - \sqrt{1 + \frac{4\lambda\alpha_x}{v}}\right) \right] \times \operatorname{erfc} \left[\frac{x - vt\sqrt{1 + \frac{4\lambda\alpha_x}{v}}}{2\sqrt{\alpha_x vt}} \right] \times \left\{ \operatorname{erf} \left[\frac{y + \frac{Y}{2}}{2\sqrt{\alpha_y x}} \right] - \operatorname{erf} \left[\frac{y - \frac{Y}{2}}{2\sqrt{\alpha_y x}} \right] \right\} \times \left\{ \operatorname{erf} \left[\frac{z + Z}{2\sqrt{\alpha_z x}} \right] - \operatorname{erf} \left[\frac{z - Z}{2\sqrt{\alpha_z x}} \right] \right\}$$

C_0	Concentration of CoC at source (mg/L)
Y	width of source perpendicular to GW flow (m)
Z	vertical thickness of source (m)
x	distance from source to receptor (m)
y	y-coordinate of receptor relative to source (m)
z	z-coordinate of receptor relative to source (m)
α_x	longitudinal dispersivity (m) (x/10)
α_y	transverse dispersivity (m) ($\alpha_x/3$)
α_z	vertical dispersivity (m) ($\alpha_x/20$)
v	contaminant velocity (m/s)*

If the CoC adsorbs, the contaminant velocity (v) is replaced by the retarded velocity (v/R), where R is the retardation factor in the saturated zone.

$$R = 1 + \frac{K_{oc} \times F_{oc} \times B_d \times 10^{-6}}{\Phi}$$

K_{oc}	chemical specific soil/water partitioning coefficient (ml/g)
f_{oc}	naturally occurring organic carbon (mg/kg) in soil
B_d	soil bulk density
Φ	porosity (decimal %)

erf	error function
erfc	complementary error function
	the erf and the erfc are dimensionless numbers that can be derived from an erf and erfc table. These tables can be found in many hydrogeology textbooks
λ	first order decay rate (1/sec)
	if the first order decay rates have not been determined on a site-specific basis that decay rate shall be assumed to be 0.
t	time contaminant transport takes place (sec)

Equation 2

If the receptor is not located along the x-axis centerline, y and z≠0 and λ=0

$$C(x, y, z, t) = \left(\frac{C_0}{8} \right) \times \operatorname{erfc} \left[\frac{(x - vt)}{2\sqrt{\alpha_x vt}} \right] \times \left\{ \operatorname{erf} \left[\frac{y + \frac{Y}{2}}{2\sqrt{\alpha_y x}} \right] - \operatorname{erf} \left[\frac{y - \frac{Y}{2}}{2\sqrt{\alpha_y x}} \right] \right\} \times \operatorname{erf} \left\{ \left[\frac{z + Z}{2\sqrt{\alpha_z x}} \right] - \operatorname{erf} \left[\frac{z - Z}{2\sqrt{\alpha_z x}} \right] \right\}$$

Equation 3

If receptor is long the centerline (x-axis) and hydraulically downgradient of the source. In that case, y=z=0 and λ=0

$$C(x, 0, 0, t) = \left(\frac{C_0}{2} \right) \times \operatorname{erfc} \left[\frac{(x - vt)}{2\sqrt{\alpha_x vt}} \right] \times \operatorname{erf} \left[\frac{Y}{4\sqrt{\alpha_y x}} \right] \times \operatorname{erf} \left[\frac{Z}{2\sqrt{\alpha_z x}} \right]$$

SSTL Calculations

$$C_{sstl} = \frac{8 \times C_{rbsl}}{\exp \left[\left(\frac{x}{2\alpha_x} \right) \left(1 - \sqrt{1 + \frac{4\lambda\alpha_x}{v}} \right) \right] \times \operatorname{erfc} \left[\frac{x - vt\sqrt{1 + \frac{\lambda\alpha_x}{v}}}{2\sqrt{\alpha_x vt}} \right] \times \left\{ \operatorname{erf} \left[\frac{y + \frac{Y}{2}}{2\sqrt{\alpha_y x}} \right] - \operatorname{erf} \left[\frac{y - \frac{Y}{2}}{2\sqrt{\alpha_y x}} \right] \right\} \times \operatorname{erf} \left\{ \left[\frac{z + Z}{2\sqrt{\alpha_z x}} \right] - \operatorname{erf} \left[\frac{z - Z}{2\sqrt{\alpha_z x}} \right] \right\}}$$

Site ID	3423
CoC	MTBE
Source	DW01
Receptor	SW05

C_0		mg/L
Y	9.144	m
Z	4.572	m
x	152.40	m
y		m
z		m
V_s	4.45E-07	m/s
Time	1000.0	years
λ		/s

Output Data

EXP(	0.0000)=	1.0000
ERFC(	-15.0045)=	2.0000
ERF(	0.0822)=	0.0925
ERF(	0.2121)=	0.2358
α_x	15.24	
α_y	5.0800	
α_z	0.762	

C(x,y,z,t)= 0.000000 mg/L

C(x,y,z,t)= 0.00000 ug/L

SSTL Output

C_{RBSL} =	0.04	mg/L
C_{SSTL} =	7.335056	mg/L
C_{SSTL} =	7335.056	ug/L

Site ID	3423
CoC	BENZENE
Source	DW04
Receptor	SW05

C_0		mg/L
Y	9.144	m
Z	4.572	m
x	192.00	m
y		m
z		m
V_s	4.45E-07	m/s
Time	1000.0	years
λ		/s

Output Data

EXP(	0.0000	)=	1.0000
ERFC(	-13.3297	)=	2.0000
ERF(	0.0652	)=	0.0735
ERF(	0.1684	)=	0.1882
α_x	19.20		
α_y	6.4000		
α_z	0.960		

C(x,y,z,t)= 0.000000 mg/L

C(x,y,z,t)= 0.00000 ug/L

SSTL Output

C_{RBSL}	=	0.005	mg/L
C_{SSTL}	=	1.4461	mg/L
C_{SSTL}	=	1446.1	ug/L

Site ID	3423
CoC	MTBE
Source	DW04
Receptor	SW05

C_0		mg/L
Y	9.144	m
Z	4.572	m
x	192.00	m
y		m
z		m
V_s	4.45E-07	m/s
Time	1000.0	years
λ		/s

Output Data

EXP(	0.0000	)=	1.0000
ERFC(	-13.3297	)=	2.0000
ERF(	0.0652	)=	0.0735
ERF(	0.1684	)=	0.1882
α_x	19.20		
α_y	6.4000		
α_z	0.960		

C(x,y,z,t)= 0.000000 mg/L

C(x,y,z,t)= 0.00000 ug/L

SSTL Output

C_{RBSL} =	0.04	mg/L
C_{SSTL} =	11.5688	mg/L
C_{SSTL} =	11568.8	ug/L

Site ID	3423
CoC	TAA
Source	DW04
Receptor	SW05

C_0		mg/L
Y	9.144	m
Z	4.572	m
x	192.00	m
y		m
z		m
V_s	4.45E-07	m/s
Time	1000.0	years
λ		/s

Output Data

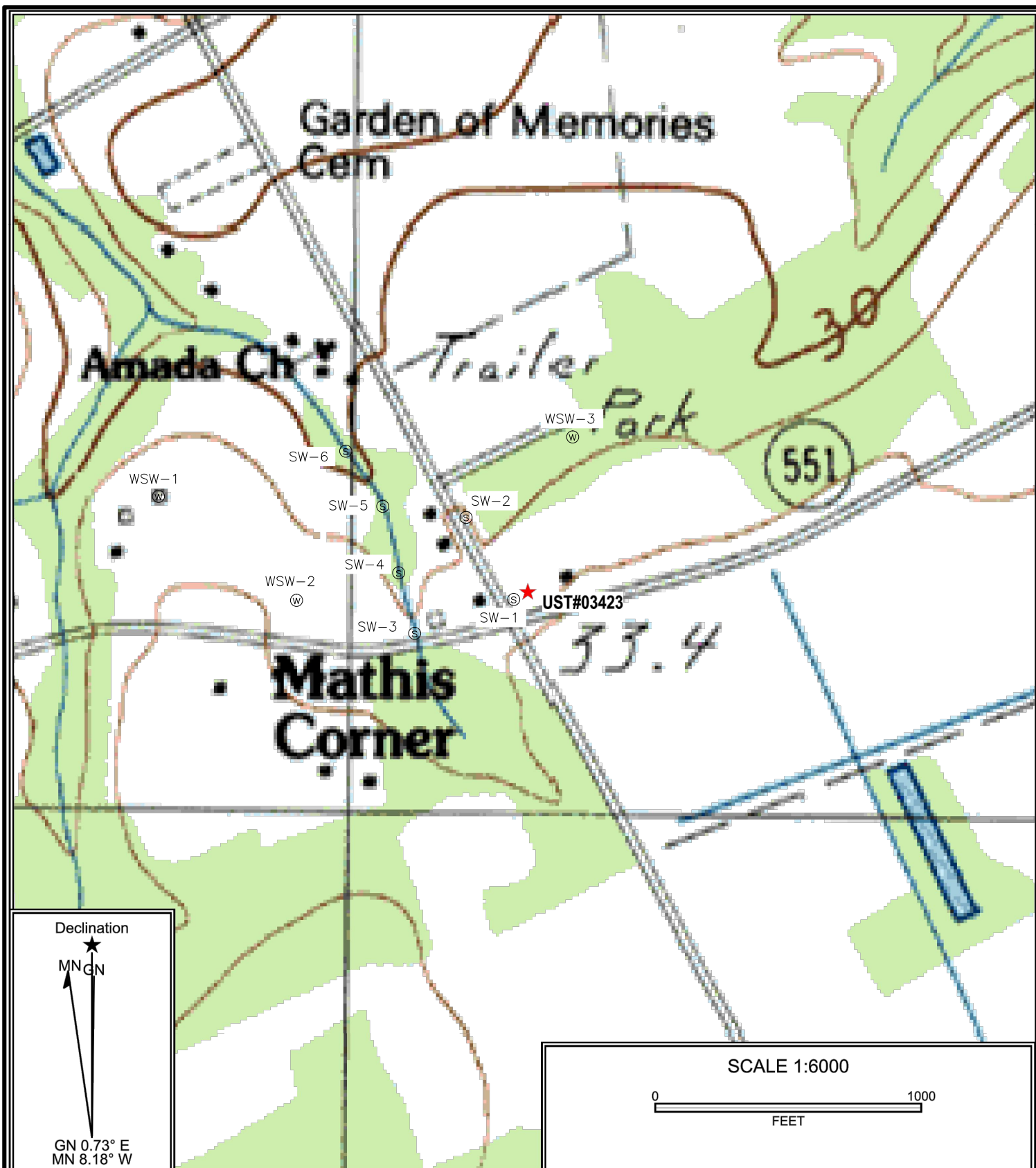
EXP(	0.0000)=	1.0000
ERFC(	-13.3297)=	2.0000
ERF(	0.0652)=	0.0735
ERF(	0.1684)=	0.1882
α_x	19.20	
α_y	6.4000	
α_z	0.960	

C(x,y,z,t)= 0.000000 mg/L

C(x,y,z,t)= 0.00000 ug/L

SSTL Output

C_{RBSL} =	0.24	mg/L
C_{SSTL} =	69.41281	mg/L
C_{SSTL} =	69412.81	ug/L



Reference: Evergreen, South Carolina
 USGS 7.5 Min. Quad
 Contour Interval - 2 Meters

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Site Location

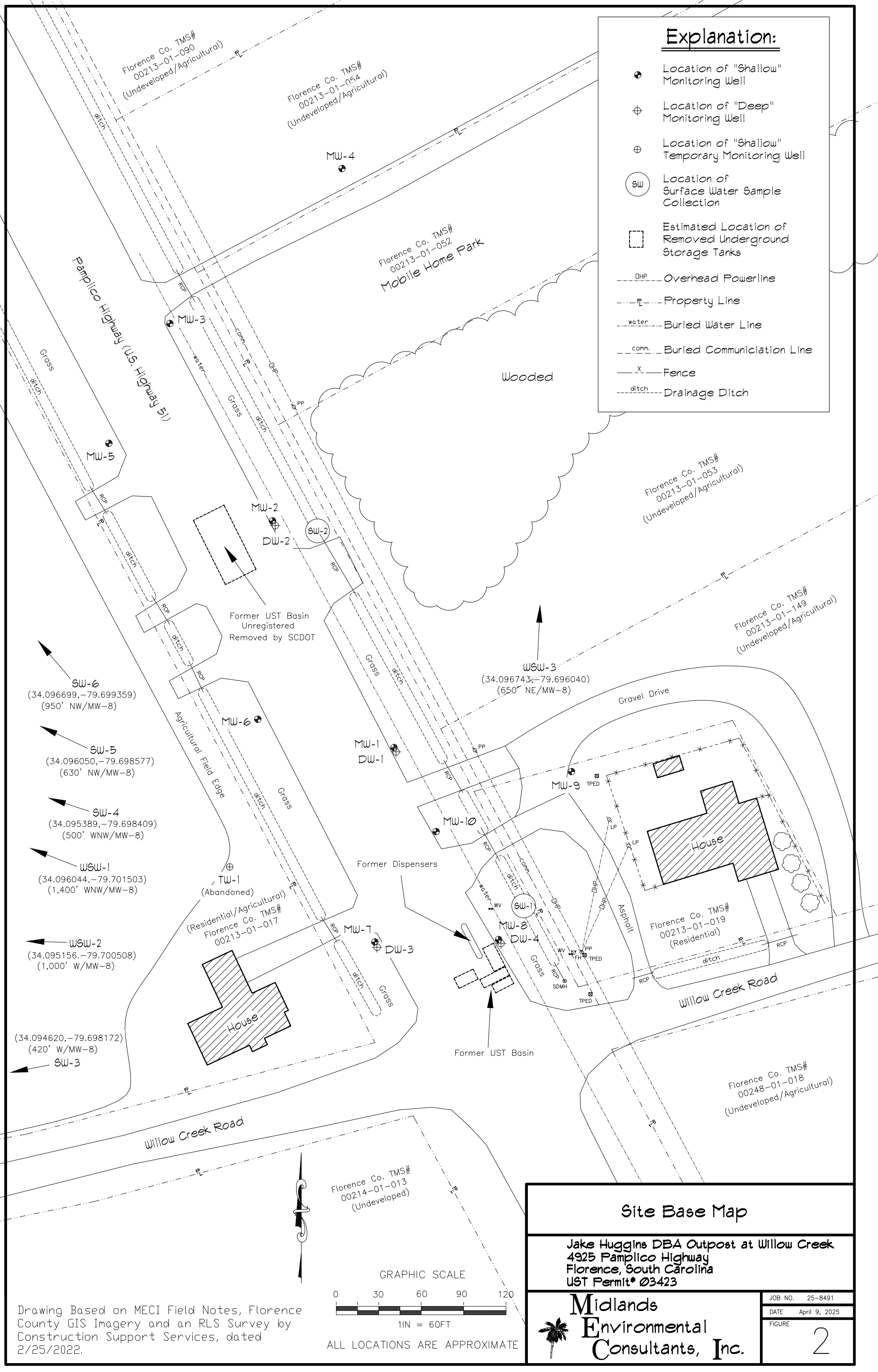
Jake Huggins DBA Outpost at Willowcreek, LLC.
 4925 Pamplico Highway, Florence, SC
 UST Permit# 18419

Figure 1

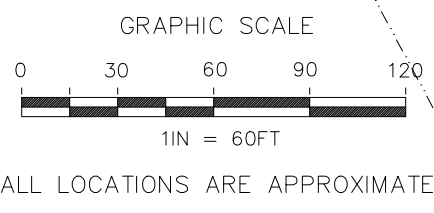
MECI# 25-8491

Explanation:

- Location of "Shallow" Monitoring Well
- Location of "Deep" Monitoring Well
- Location of "Shallow" Temporary Monitoring Well
- Location of Surface Water Sample Collection
- Estimated Location of Removed Underground Storage Tanks
- Overhead Powerline
- Property Line
- Buried Water Line
- Buried Communication Line
- Fence
- Drainage Ditch



Drawing Based on MECI Field Notes, Florence County GIS Imagery and an RLS Survey by Construction Support Services, dated 2/25/2022.



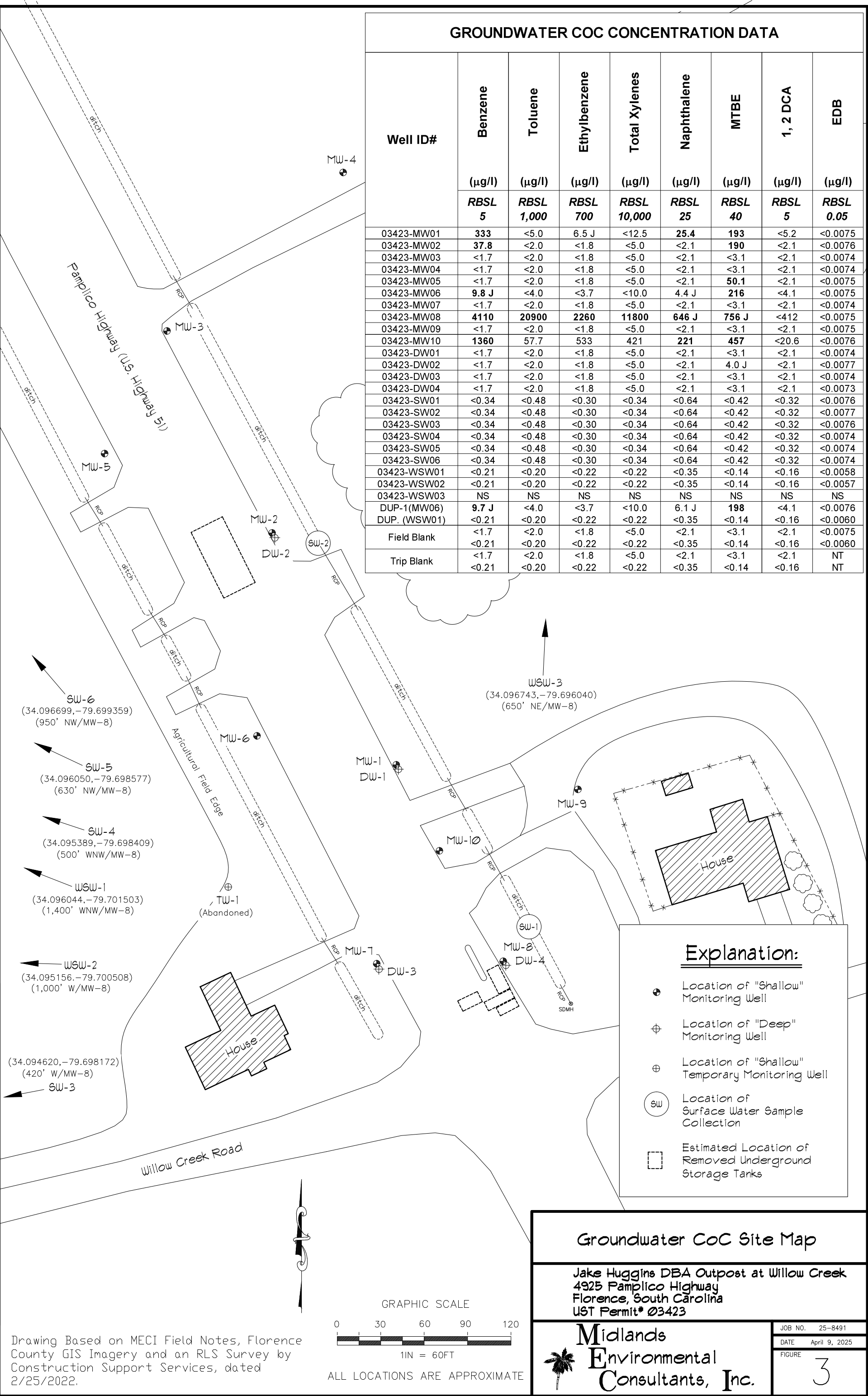
Site Base Map

Jake Huggins DBA Outpost at Willow Creek
4925 Pamplico Highway
Florence, South Carolina
UST Permit# 03423

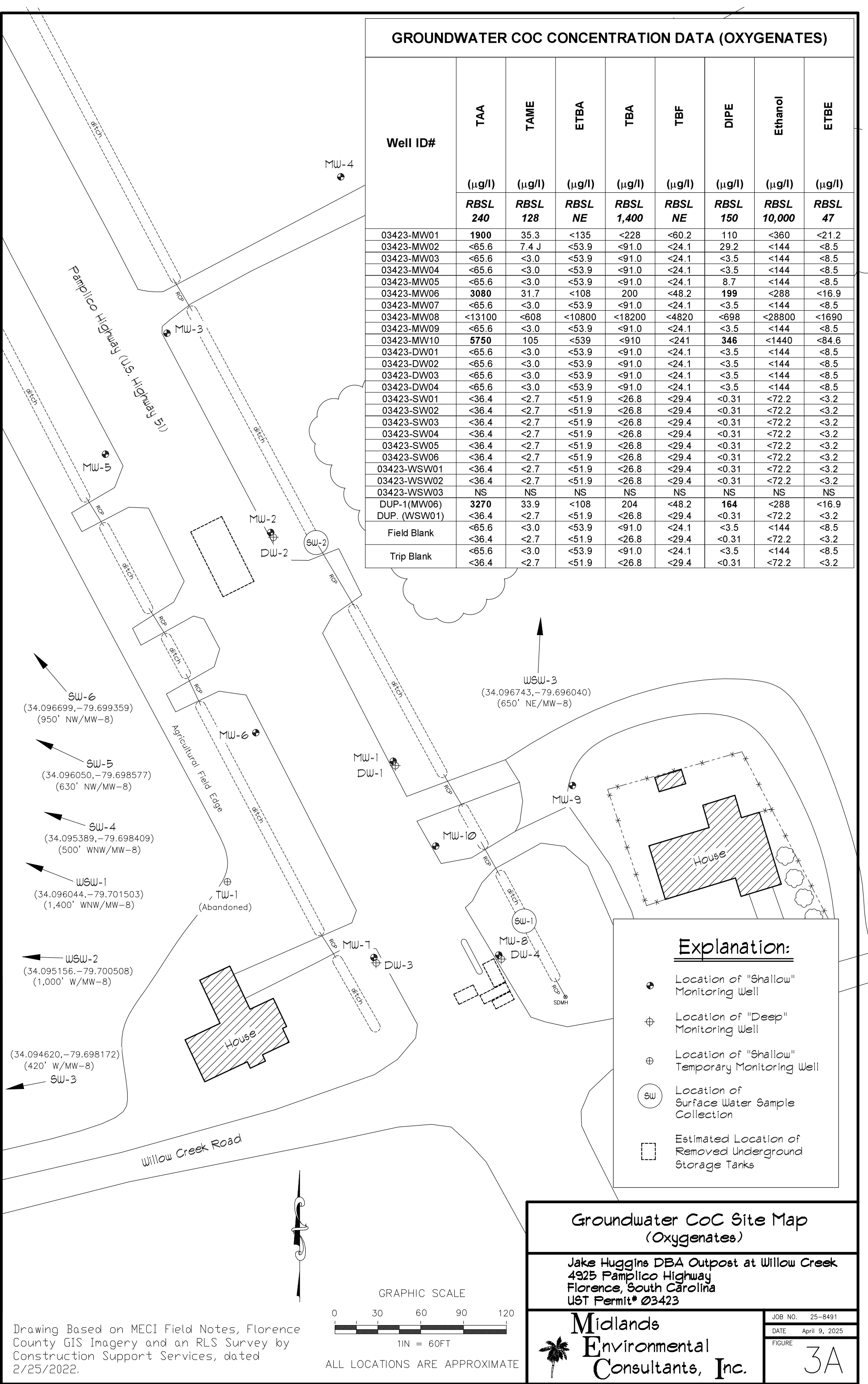
Midlands
Environmental
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JOB NO. 25-8491
DATE April 9, 2025
FIGURE 2

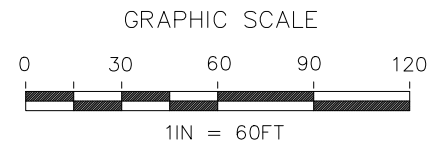
GROUNDWATER COC CONCENTRATION DATA								
Well ID#	Benzene	Toluene	Ethylbenzene	Total Xylenes	Naphthalene	MTBE	1, 2 DCA	EDB
	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)
	RBSL 5	RBSL 1,000	RBSL 700	RBSL 10,000	RBSL 25	RBSL 40	RBSL 5	RBSL 0.05
03423-MW01	333	<5.0	6.5 J	<12.5	25.4	193	<5.2	<0.0075
03423-MW02	37.8	<2.0	<1.8	<5.0	<2.1	190	<2.1	<0.0076
03423-MW03	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0074
03423-MW04	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0074
03423-MW05	<1.7	<2.0	<1.8	<5.0	<2.1	50.1	<2.1	<0.0075
03423-MW06	9.8 J	<4.0	<3.7	<10.0	4.4 J	216	<4.1	<0.0075
03423-MW07	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0074
03423-MW08	4110	20900	2260	11800	646 J	756 J	<412	<0.0075
03423-MW09	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0075
03423-MW10	1360	57.7	533	421	221	457	<20.6	<0.0076
03423-DW01	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0074
03423-DW02	<1.7	<2.0	<1.8	<5.0	<2.1	4.0 J	<2.1	<0.0077
03423-DW03	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0074
03423-DW04	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0073
03423-SW01	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0076
03423-SW02	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0077
03423-SW03	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0076
03423-SW04	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0074
03423-SW05	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0074
03423-SW06	<0.34	<0.48	<0.30	<0.34	<0.64	<0.42	<0.32	<0.0074
03423-WSW01	<0.21	<0.20	<0.22	<0.22	<0.35	<0.14	<0.16	<0.0058
03423-WSW02	<0.21	<0.20	<0.22	<0.22	<0.35	<0.14	<0.16	<0.0057
03423-WSW03	NS	NS	NS	NS	NS	NS	NS	NS
DUP-1(MW06)	9.7 J	<4.0	<3.7	<10.0	6.1 J	198	<4.1	<0.0076
DUP. (WSW01)	<0.21	<0.20	<0.22	<0.22	<0.35	<0.14	<0.16	<0.0060
Field Blank	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	<0.0075
	<0.21	<0.20	<0.22	<0.22	<0.35	<0.14	<0.16	<0.0060
Trip Blank	<1.7	<2.0	<1.8	<5.0	<2.1	<3.1	<2.1	NT
	<0.21	<0.20	<0.22	<0.22	<0.35	<0.14	<0.16	NT



GROUNDWATER COC CONCENTRATION DATA (OXYGENATES)								
Well ID#	TAA	TAME	ETBA	TBA	TBF	DIPE	Ethanol	ETBE
	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)
	RBSL 240	RBSL 128	RBSL NE	RBSL 1,400	RBSL NE	RBSL 150	RBSL 10,000	RBSL 47
03423-MW01	1900	35.3	<135	<228	<60.2	110	<360	<21.2
03423-MW02	<65.6	7.4 J	<53.9	<91.0	<24.1	29.2	<144	<8.5
03423-MW03	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
03423-MW04	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
03423-MW05	<65.6	<3.0	<53.9	<91.0	<24.1	8.7	<144	<8.5
03423-MW06	3080	31.7	<108	200	<48.2	199	<288	<16.9
03423-MW07	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
03423-MW08	<13100	<608	<10800	<18200	<4820	<698	<28800	<1690
03423-MW09	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
03423-MW10	5750	105	<539	<910	<241	346	<1440	<84.6
03423-DW01	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
03423-DW02	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
03423-DW03	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
03423-DW04	<65.6	<3.0	<53.9	<91.0	<24.1	<3.5	<144	<8.5
03423-SW01	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
03423-SW02	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
03423-SW03	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
03423-SW04	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
03423-SW05	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
03423-SW06	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
03423-WSW01	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
03423-WSW02	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
03423-WSW03	NS	NS	NS	NS	NS	NS	NS	NS
DUP-1(MW06)	3270	33.9	<108	204	<48.2	164	<288	<16.9
DUP. (WSW01)	<36.4	<2.7	<51.9	<26.8	<29.4	<0.31	<72.2	<3.2
Field Blank	<65.6 <36.4	<3.0 <2.7	<53.9 <51.9	<91.0 <26.8	<24.1 <29.4	<3.5 <0.31	<144 <72.2	<8.5 <3.2
Trip Blank	<65.6 <36.4	<3.0 <2.7	<53.9 <51.9	<91.0 <26.8	<24.1 <29.4	<3.5 <0.31	<144 <72.2	<8.5 <3.2



Drawing Based on MECI Field Notes, Florence County GIS Imagery and an RLS Survey by Construction Support Services, dated 2/25/2022.



ALL LOCATIONS ARE APPROXIMATE

Groundwater CoC Site Map (Oxygenates)

Jake Huggins DBA Outpost at Willow Creek
4925 Pamplico Highway
Florence, South Carolina
UST Permit# 03423

Midlands Environmental Consultants, Inc.

JOB NO. 25-8491

DATE April 9, 2025

FIGURE

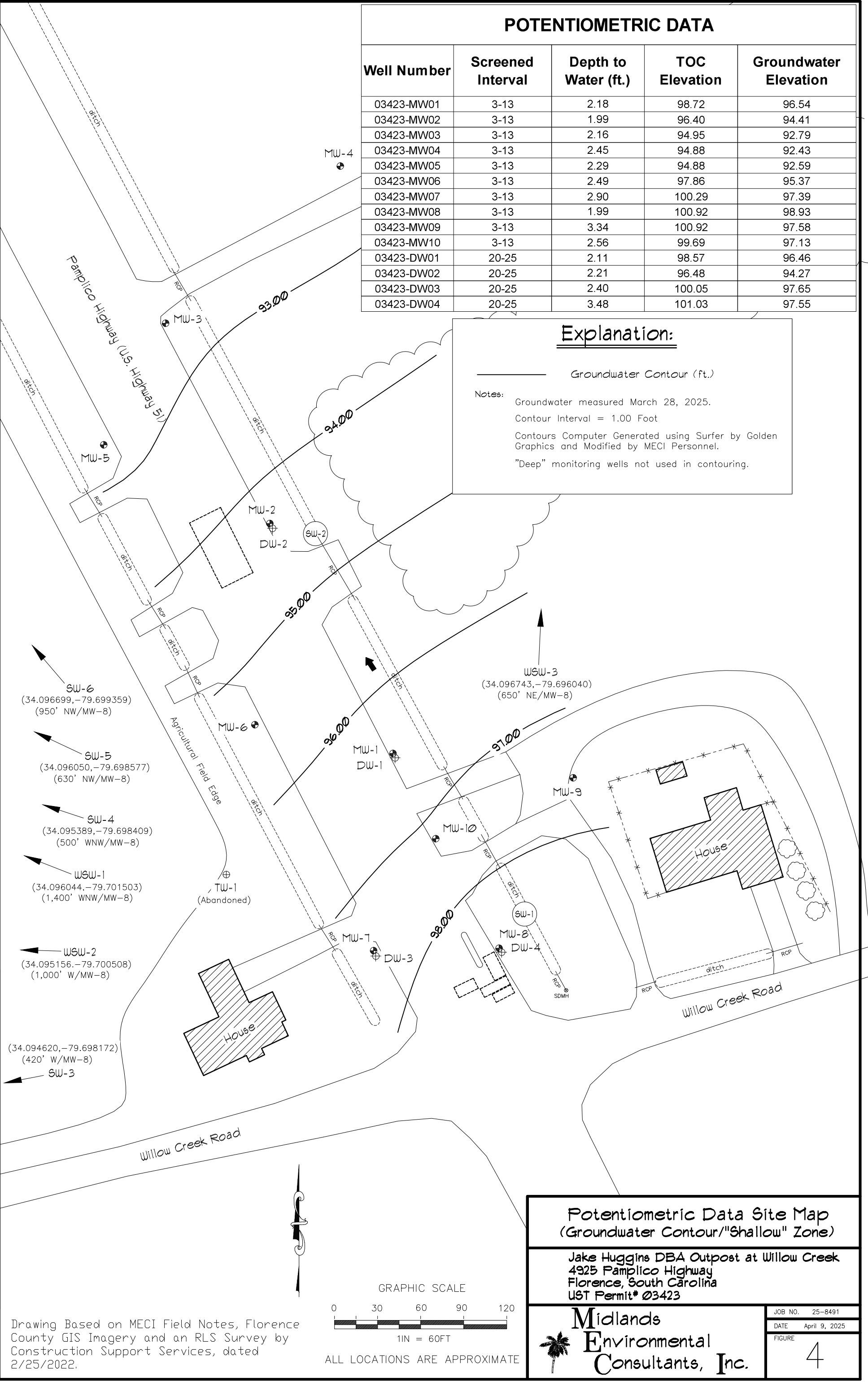
3A

POTENTIOMETRIC DATA				
Well Number	Screened Interval	Depth to Water (ft.)	TOC Elevation	Groundwater Elevation
03423-MW01	3-13	2.18	98.72	96.54
03423-MW02	3-13	1.99	96.40	94.41
03423-MW03	3-13	2.16	94.95	92.79
03423-MW04	3-13	2.45	94.88	92.43
03423-MW05	3-13	2.29	94.88	92.59
03423-MW06	3-13	2.49	97.86	95.37
03423-MW07	3-13	2.90	100.29	97.39
03423-MW08	3-13	1.99	100.92	98.93
03423-MW09	3-13	3.34	100.92	97.58
03423-MW10	3-13	2.56	99.69	97.13
03423-DW01	20-25	2.11	98.57	96.46
03423-DW02	20-25	2.21	96.48	94.27
03423-DW03	20-25	2.40	100.05	97.65
03423-DW04	20-25	3.48	101.03	97.55

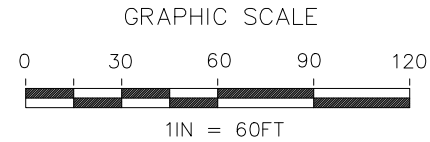
Explanation:

Groundwater Contour (ft.)

Notes:
Groundwater measured March 28, 2025.
Contour Interval = 1.00 Foot
Contours Computer Generated using Surfer by Golden Graphics and Modified by MECI Personnel.
"Deep" monitoring wells not used in contouring.



Drawing Based on MECI Field Notes, Florence County GIS Imagery and an RLS Survey by Construction Support Services, dated 2/25/2022.



ALL LOCATIONS ARE APPROXIMATE

Potentiometric Data Site Map
(Groundwater Contour/"Shallow" Zone)

Jake Huggins DBA Outpost at Willow Creek
4925 Pamplico Highway
Florence, South Carolina
UST Permit# 03423

Midlands
Environmental
Consultants, Inc.

JOB NO. 25-8491
DATE April 9, 2025
FIGURE

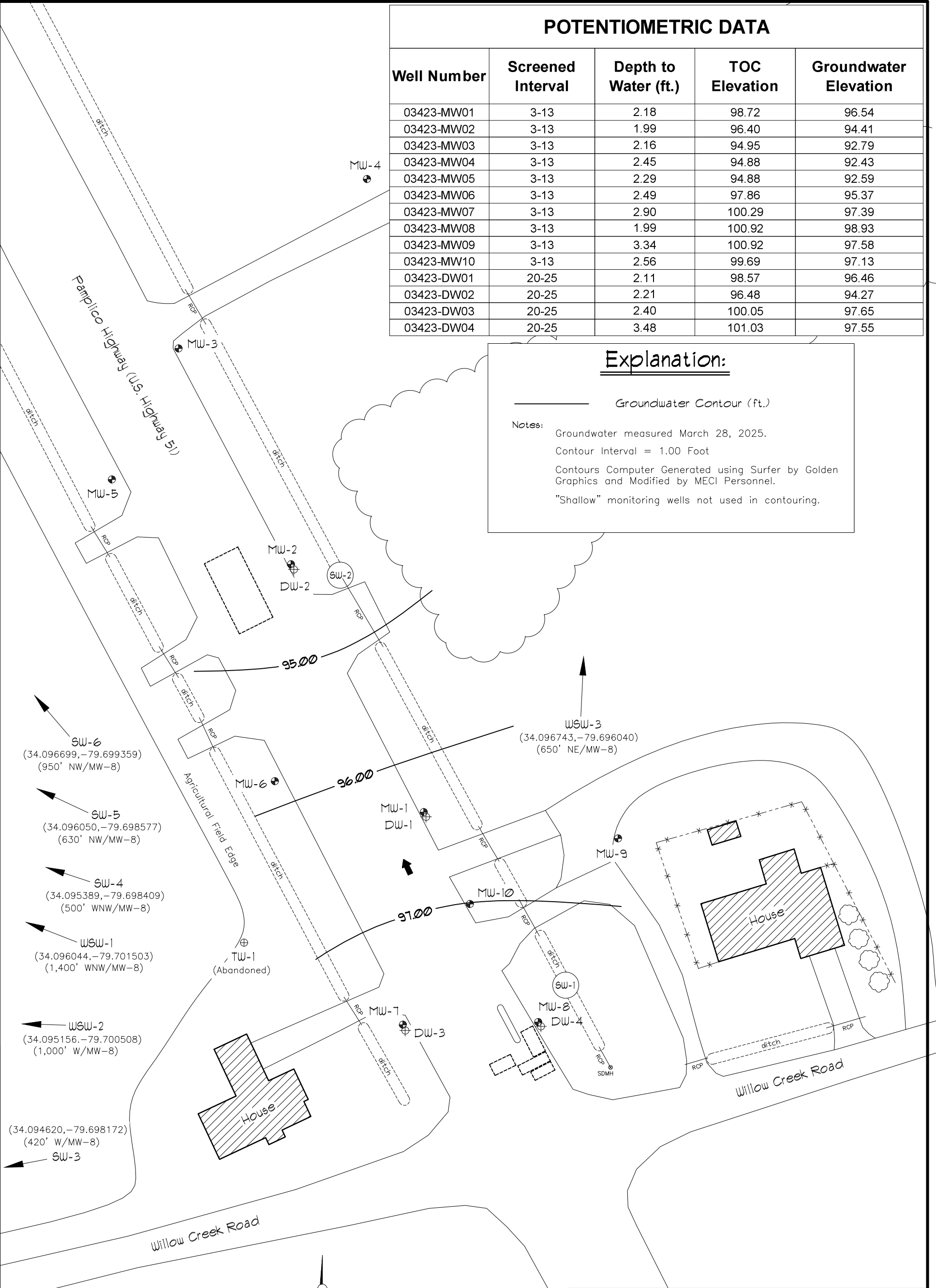
4

POTENTIOMETRIC DATA				
Well Number	Screened Interval	Depth to Water (ft.)	TOC Elevation	Groundwater Elevation
03423-MW01	3-13	2.18	98.72	96.54
03423-MW02	3-13	1.99	96.40	94.41
03423-MW03	3-13	2.16	94.95	92.79
03423-MW04	3-13	2.45	94.88	92.43
03423-MW05	3-13	2.29	94.88	92.59
03423-MW06	3-13	2.49	97.86	95.37
03423-MW07	3-13	2.90	100.29	97.39
03423-MW08	3-13	1.99	100.92	98.93
03423-MW09	3-13	3.34	100.92	97.58
03423-MW10	3-13	2.56	99.69	97.13
03423-DW01	20-25	2.11	98.57	96.46
03423-DW02	20-25	2.21	96.48	94.27
03423-DW03	20-25	2.40	100.05	97.65
03423-DW04	20-25	3.48	101.03	97.55

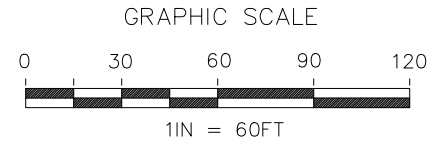
Explanation:

Groundwater Contour (ft.)

Notes:
Groundwater measured March 28, 2025.
Contour Interval = 1.00 Foot
Contours Computer Generated using Surfer by Golden Graphics and Modified by MECI Personnel.
"Shallow" monitoring wells not used in contouring.



Drawing Based on MECI Field Notes, Florence County GIS Imagery and an RLS Survey by Construction Support Services, dated 2/25/2022.



Potentiometric Data Site Map
(Groundwater Contour/"Deep" Zone)

Jake Huggins DBA Outpost at Willow Creek
4925 Pamplico Highway
Florence, South Carolina
UST Permit# 03423

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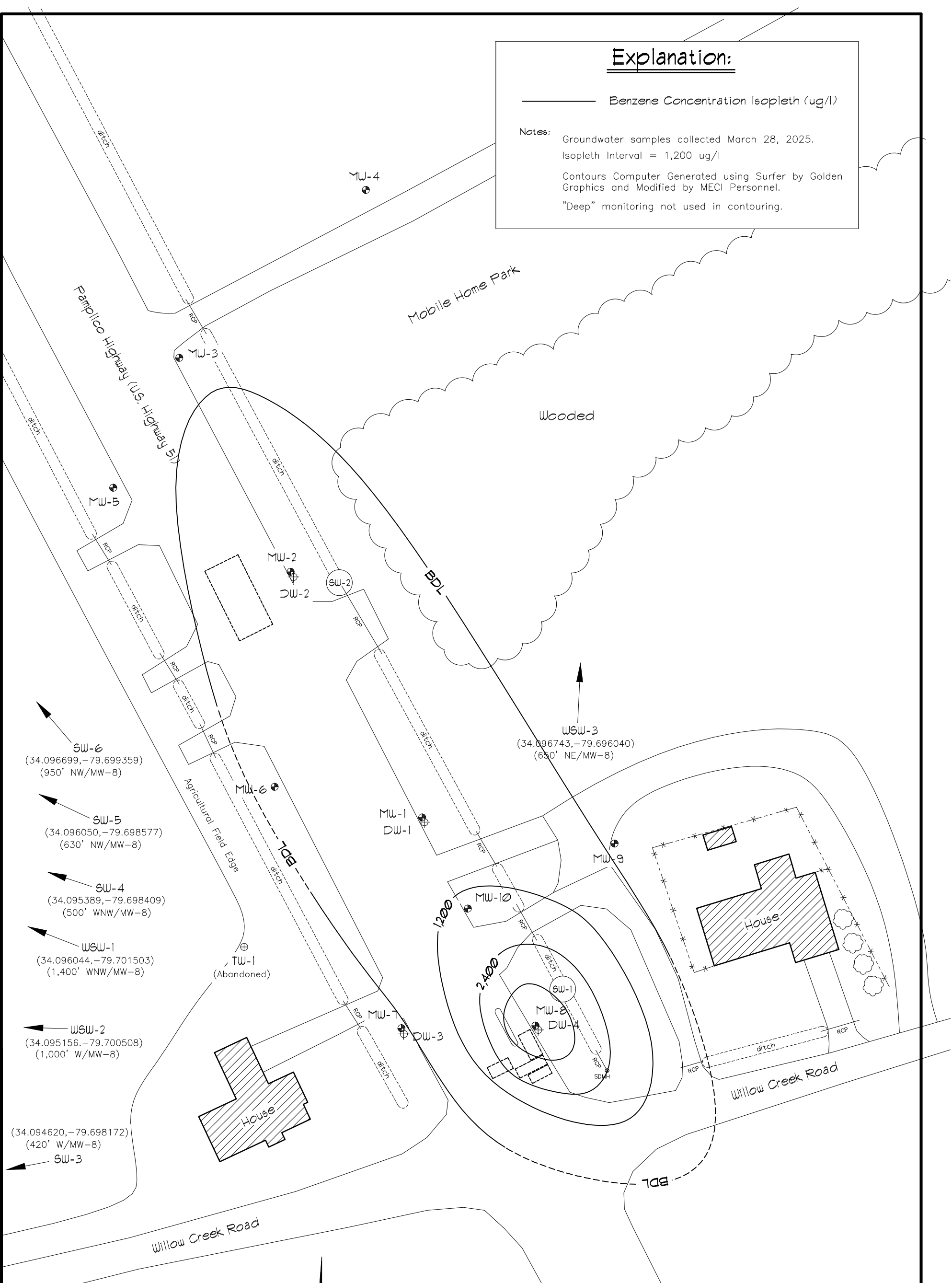
JOB NO. 25-8491
DATE April 9, 2025
FIGURE

4A

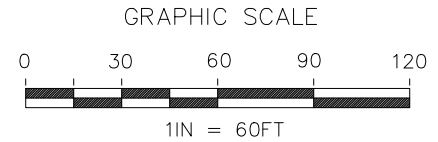
Explanation:

Benzene Concentration Isopleth (ug/l)

Notes: Groundwater samples collected March 28, 2025.
Isopleth Interval = 1,200 ug/l
Contours Computer Generated using Surfer by Golden Graphics and Modified by MECI Personnel.
"Deep" monitoring not used in contouring.



Drawing Based on MECI Field Notes, Florence County GIS Imagery and an RLS Survey by Construction Support Services, dated 2/25/2022.



ALL LOCATIONS ARE APPROXIMATE

Benzene Isopleth - "Shallow" Zone

Jake Huggins DBA Outpost at Willow Creek
4925 Pamplico Highway
Florence, South Carolina
UST Permit# 03423

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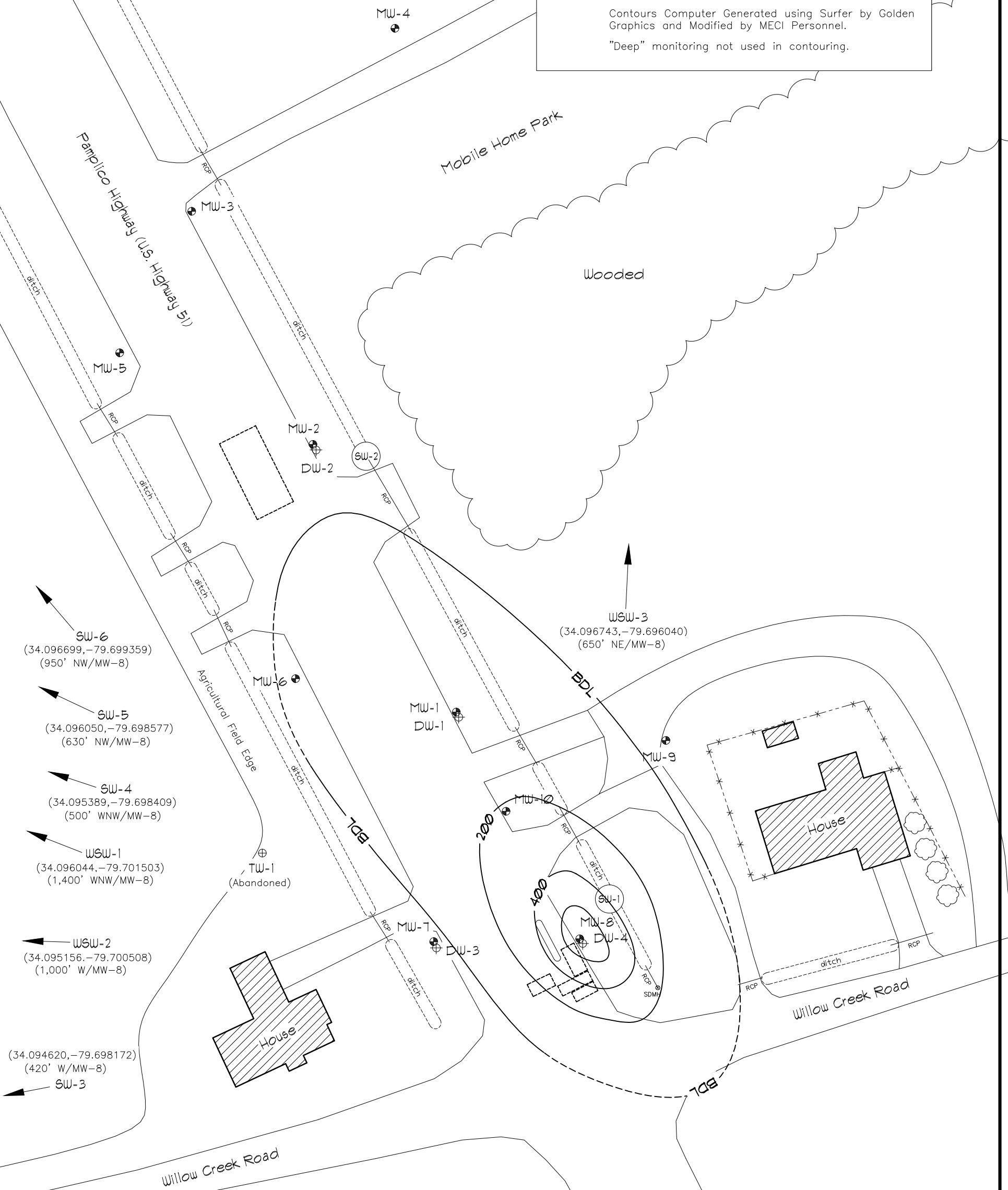
JOB NO. 25-8491
DATE April 9, 2025
FIGURE

5

Explanation:

Naphthalene Concentration Isopleth (ug/l)

Notes: Groundwater samples collected March 28, 2025.
Isopleth Interval = 200 ug/l
Contours Computer Generated using Surfer by Golden Graphics and Modified by MECI Personnel.
"Deep" monitoring not used in contouring.



Naphthalene Isopleth - "Shallow" Zone

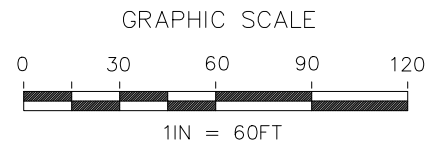
Jake Huggins DBA Outpost at Willow Creek
4925 Pamplico Highway
Florence, South Carolina
UST Permit# 03423

Midlands
Environmental
Consultants, Inc.

JOB NO. 25-8491
DATE April 9, 2025
FIGURE

5A

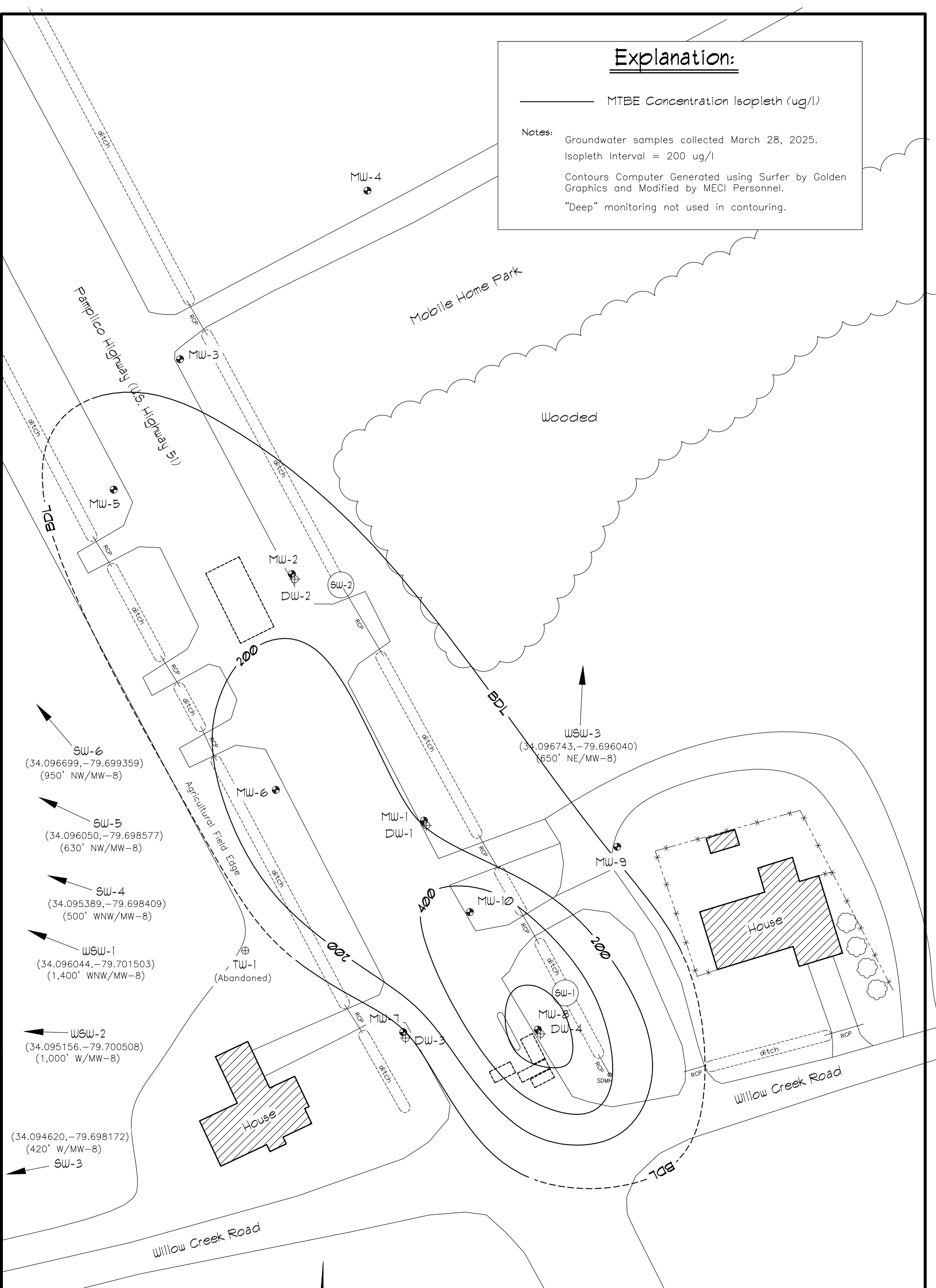
Drawing Based on MECI Field Notes, Florence County GIS Imagery and an RLS Survey by Construction Support Services, dated 2/25/2022.



Explanation:

MTBE Concentration Isopleth (ug/l)

Notes: Groundwater samples collected March 28, 2025.
Isopleth Interval = 200 ug/l
Contours Computer Generated using Surfer by Golden Graphics and Modified by MECI Personnel.
"Deep" monitoring not used in contouring.



MTBE Isopleth - "Shallow" Zone

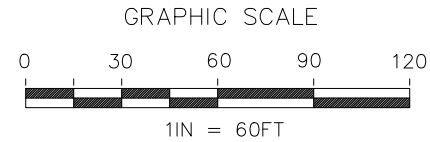
Jake Huggins DBA Outpost at Willow Creek
4925 Pamplico Highway
Florence, South Carolina
UST Permit# 03423

Midlands
Environmental
Consultants, Inc.

JOB NO. 25-8491
DATE April 9, 2025
FIGURE

5B

Drawing Based on MECI Field Notes, Florence County GIS Imagery and an RLS Survey by Construction Support Services, dated 2/25/2022.



ALL LOCATIONS ARE APPROXIMATE

	Receptor ID: (03423-WSW01)
	Parcel ID: 00213-01-130
	Property Owner Name: Willie B Winchester Jr.
	Property Owner Address: 3101 Willow Creek Rd, Florence, SC 29505
	WSW Details: Well is inside barn building. Sample collected from spigot on water supply well. GPS: 34.096044, -79.701503

	Receptor ID: (03423-WSW02)
	Parcel ID: 00213-01-130
	Property Owner Name: Willie B Winchester Jr.
	Property Owner Address: 3101 Willow Creek Rd, Florence, SC 29505
	WSW Details: Sample collected from spigot on WSW. GPS: 34.095156, -79.700508

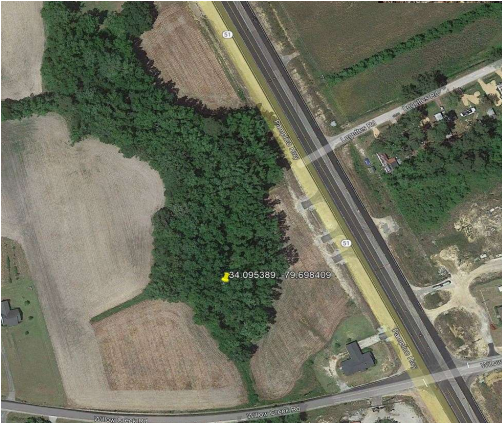
	Receptor ID: (03423-WSW03)
	Parcel ID: 00213-01-052
	Property Owner Name: Linda L Huggins
	Property Owner Address: 3695 Willow Creek Rd, Florence, SC 29505
	WSW Details: Well has been disconnected. Unable to sample with bailer due to metal elbow at well head. GPS: 34.096743, -79.701503

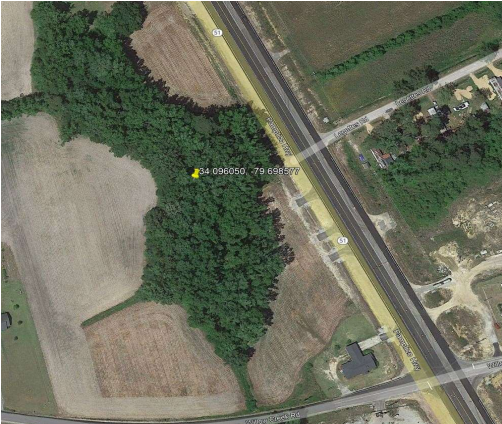
	Receptor ID: (03423-Possible WSW)
	Parcel ID: 00214-01-016
	Property Owner Name: Trent P Stallings
	Property Owner Address: 3118 Willow Creek Rd, Florence, SC 29505
	WSW Details: Possible well house attached to residence. Resident did not respond to attempts to make contact. GPS: 34.094158, -79.700555

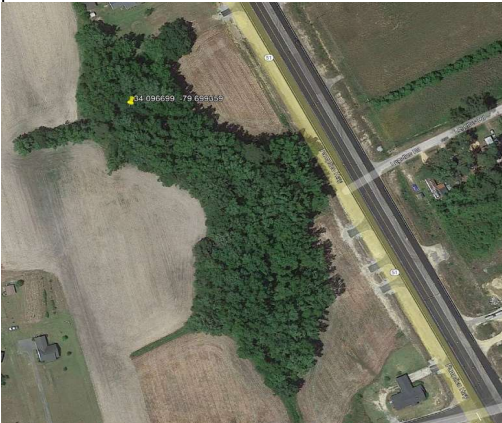
	Receptor ID: (03423-SW01)	
	Parcel ID:	SCDOT Right of Way
	Property Owner Name:	SCDOT
	Property Owner Address:	PO Box 191, Columbia, SC 29201
SW Details: Surface water sample collected from drainage ditch. GPS: 34.095076, -79.696772		

	Receptor ID: (03423-SW02)	
	Parcel ID:	SCDOT Right of Way
	Property Owner Name:	SCDOT
	Property Owner Address:	PO Box 191, Columbia, SC 29201
SW Details: Surface water sample collected from drainage ditch. GPS: 34.095847, -79.697296		

	Receptor ID: (03423-SW03)	
	Parcel ID:	00213-01-017
	Property Owner Name:	Barbara M Williams
	Property Owner Address:	9296 Grays Highway, Ridgeland, SC 29936
SW Details: Surface water sample collected from stream. GPS: 34.094620, -79.698172		

		Receptor ID: (03423-SW04)
		Parcel ID: 00213-01-017
		Property Owner Name: Barbara M Williams
		Property Owner Address: 9296 Grays Highway, Ridgeland, SC 29936
		SW Details: Surface water sample collected from stream. GPS: 34.095389, -79.698409

		Receptor ID: (03423-SW05)
		Parcel ID: 00213-01-017
		Property Owner Name: Barbara M Williams
		Property Owner Address: 9282 Grays Highway, Ridgeland, SC 29936
		SW Details: Surface water sample collected from stream. GPS: 34.096050, -79.698577

		Receptor ID: (03423-SW06)
		Parcel ID: 00213-01-017
		Property Owner Name: Barbara M Williams
		Property Owner Address: 9372 Grays Highway, Ridgeland, SC 29936
		SW Details: Surface water sample collected from stream. GPS: 34.096699, -79.699359



Summary of Slug Test
Underground Storage Tank Management Division

Site Data

SITE ID #: 03423 COUNTY: Florence
FACILITY NAME: Jake Huggins Date Performed: 2/14/2022

SLUG DATA

See Appendix F Table 3 Figure for a list of all data measurements.
(water level logs, etc.)(Complete as appropriate).

Water Level Recovery Data was measured by Level Troll 500
(Hermit Data Logger, Manually with Water Level Indicator, etc.)(List Method)

Complete the following table for each well tested.

COMPLETE A SECOND SHEET IF MORE THAN FOUR WELLS ARE TESTED

Slug Test Conducted in well(s) number
Static Water Level (feet)
Initial Rise/Drawdown in well (+/-feet)
Radius of well casing (feet)
Effective Radius of Well (feet)
Static Saturated Aquifer Thickness (feet)
Length of Well Screen (feet)

03423-MW02	03423-MW07		
2.64	2.91		
0.981	0.918		
0.083	0.083		
0.33	0.33		
10.92	9.91		
10	10		

Calculations

See Appendix F Table Figure for calculations

The method for aquifer calculations was Bouwer-Rice

The aquifer is confined semi-confined X water table (Check as Appropriate).

A hydraulic gradient of 1.18E-02 ft./ft. ("Shallow")

Calculated values by well were as follows:

Slug Test Conducted in Well(s) number
Thickness of Aquifer (feet)
Hydraulic Conductivity (cm/sec)
Hydraulic Conductivity (ft/day)
Hydraulic Conductivity (feet/year)
Effective Porosity (%)
Soil Type (i.e. silty sand, clay, etc.)
Seepage Velocity (feet/day)
Seepage Velocity (feet/year)

03423-MW02	03423-MW07	Mathematical Mean
10.92	9.91	N/A
2.21E-03	1.00E-03	1.61E-03
6.26E+00	2.84E+00	4.55E+00
2.28E+03	1.04E+03	1.66E+03
20.00%	20.00%	20.00%
SAND	SAND	N/A
3.69E-01	1.68E-01	2.68E-01
134.73	61.23	97.98



Summary of Slug Test
Underground Storage Tank Management Division

Site Data

SITE ID #: 03423 COUNTY: Florence
FACILITY NAME: Jake Huggins Date Performed: 2/14/2022

SLUG DATA

See Appendix F Table 3 Figure for a list of all data measurements.
(water level logs, etc.)(Complete as appropriate).

Water Level Recovery Data was measured by Level Troll 500
(Hermit Data Logger, Manually with Water Level Indicator, etc.)(List Method)

Complete the following table for each well tested.

COMPLETE A SECOND SHEET IF MORE THAN FOUR WELLS ARE TESTED

Slug Test Conducted in well(s) number	03423-DW02	03423-DW03
Static Water Level (feet)	2.51	3.86
Initial Rise/Drawdown in well (+/-feet)	1.961	2.290
Radius of well casing (feet)	0.083	0.083
Effective Radius of Well (feet)	0.33	0.33
Static Saturated Aquifer Thickness (feet)	25.00	25.00
Length of Well Screen (feet)	5	5

Calculations

See Appendix F Table Figure for calculations

The method for aquifer calculations was Bouwer-Rice

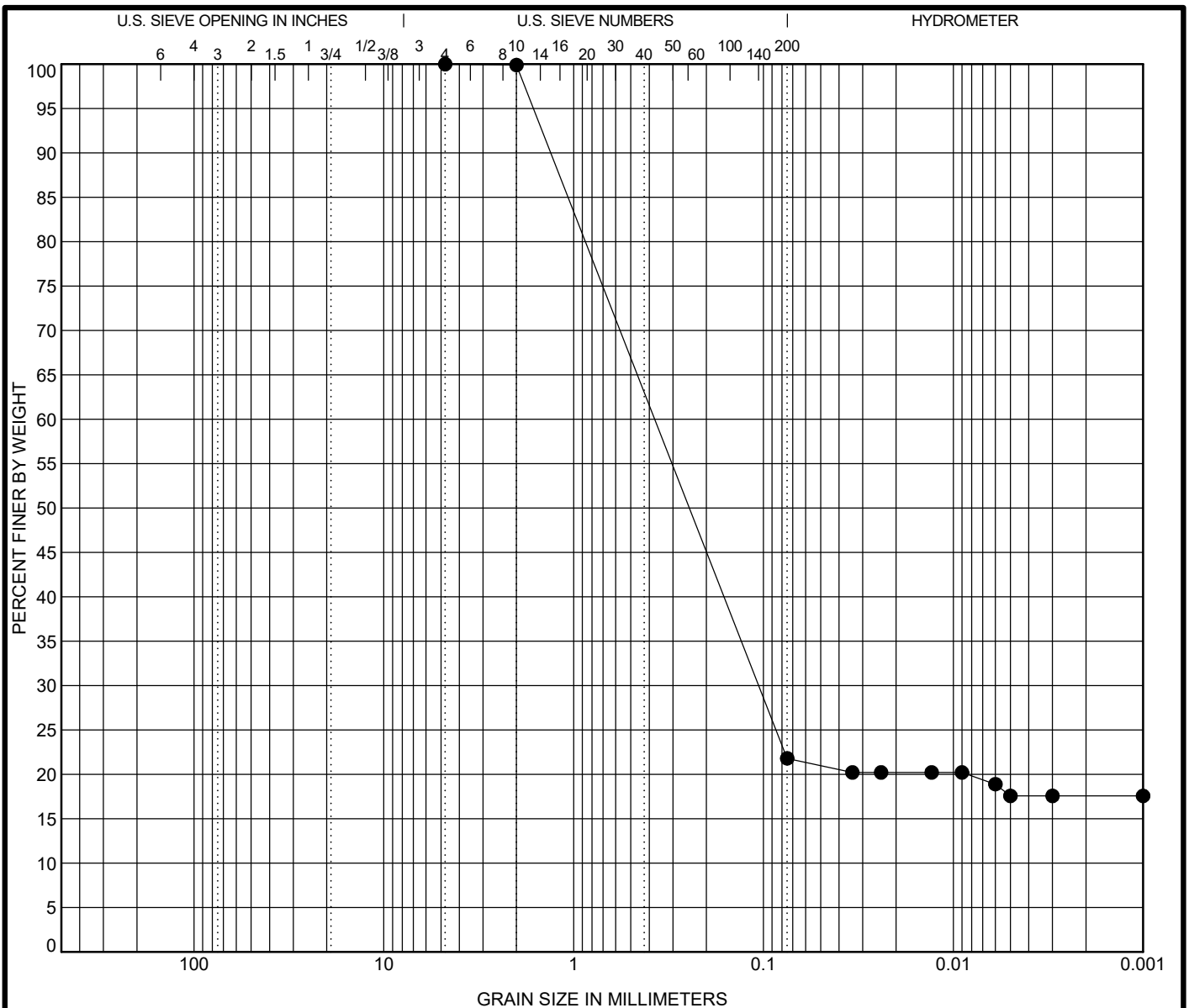
The aquifer is confined X unconfined water table (Check as Appropriate).

A hydraulic gradient of 1.03E-02 ft./ft. ("Deep")

Calculated values by well were as follows:

Slug Test Conducted in Well(s) number	03423-DW02	03423-DW03	Mathematical Mean
Thickness of Aquifer (feet)	25.00	25.00	N/A
Hydraulic Conductivity (cm/sec)	8.63E-04	1.56E-04	5.09E-04
Hydraulic Conductivity (ft/day)	2.45E+00	4.42E-01	1.44E+00
Hydraulic Conductivity (feet/year)	8.93E+02	1.61E+02	5.27E+02
Effective Porosity (%)	20.00%	20.00%	20.00%
Soil Type (i.e. silty sand, clay, etc.)	SAND	SAND	N/A
Seepage Velocity (feet/day)	1.26E-01	2.27E-02	7.43E-02
Seepage Velocity (feet/year)	45.97	8.30	27.14

DHEC 3531 (04/2015)



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen	Sample Description					LL	PL	PI	Test Method
● SB-1 8.0-10.0 ft	CLAYEY SAND (SC), orangish brown					--	--	--	Atterberg ASTM D4318
Test Method	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay	
ASTM D7928	4.75	0.374	0.106		0.0	78.2	4.2	17.6	

Percent Finer

Sieve Size	200	10	4
% Finer	21.8	99.9	100.0

Tested By	Tested Date	Reviewed by	Calc by
EC	2/2/22	SRH	EC

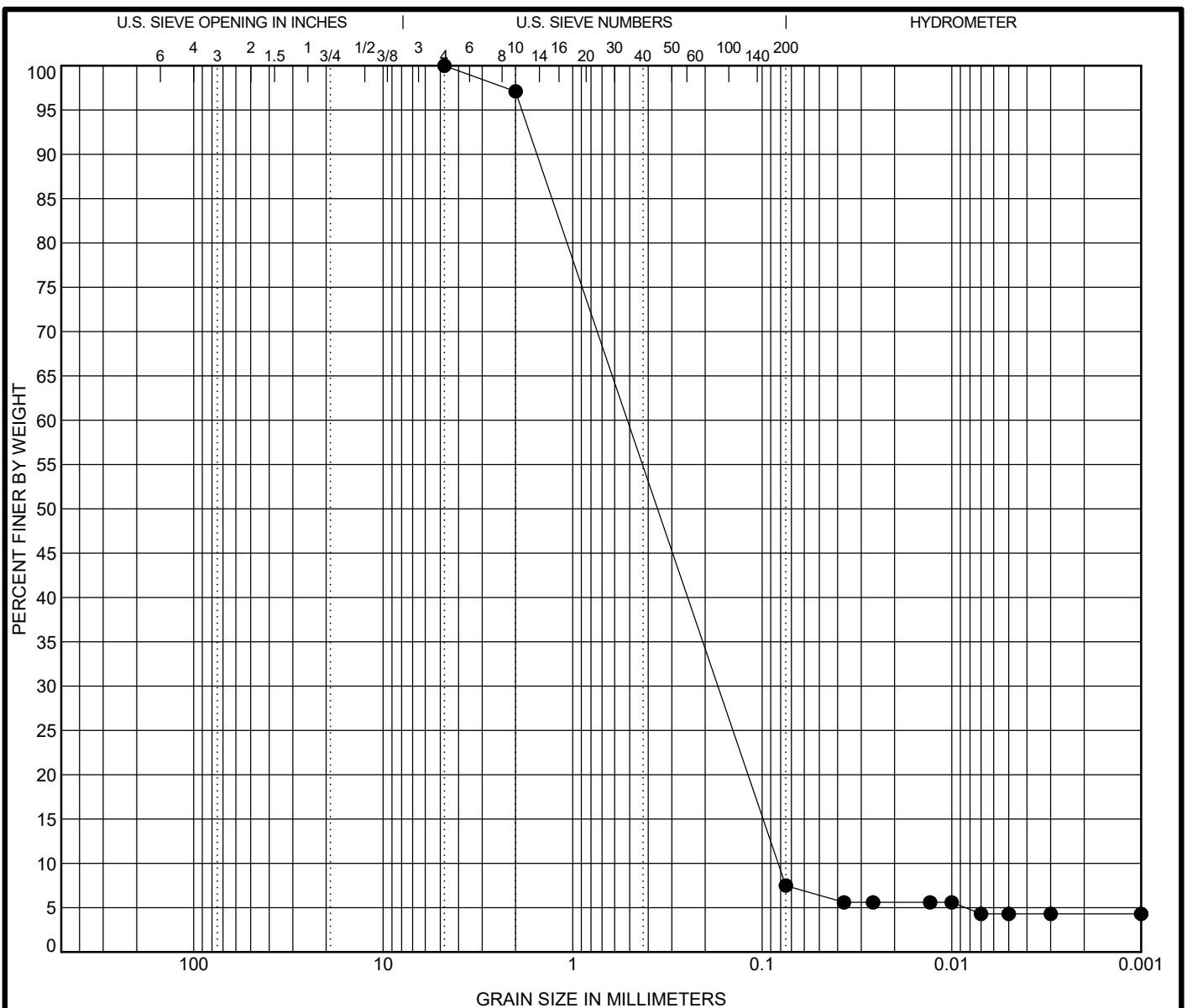


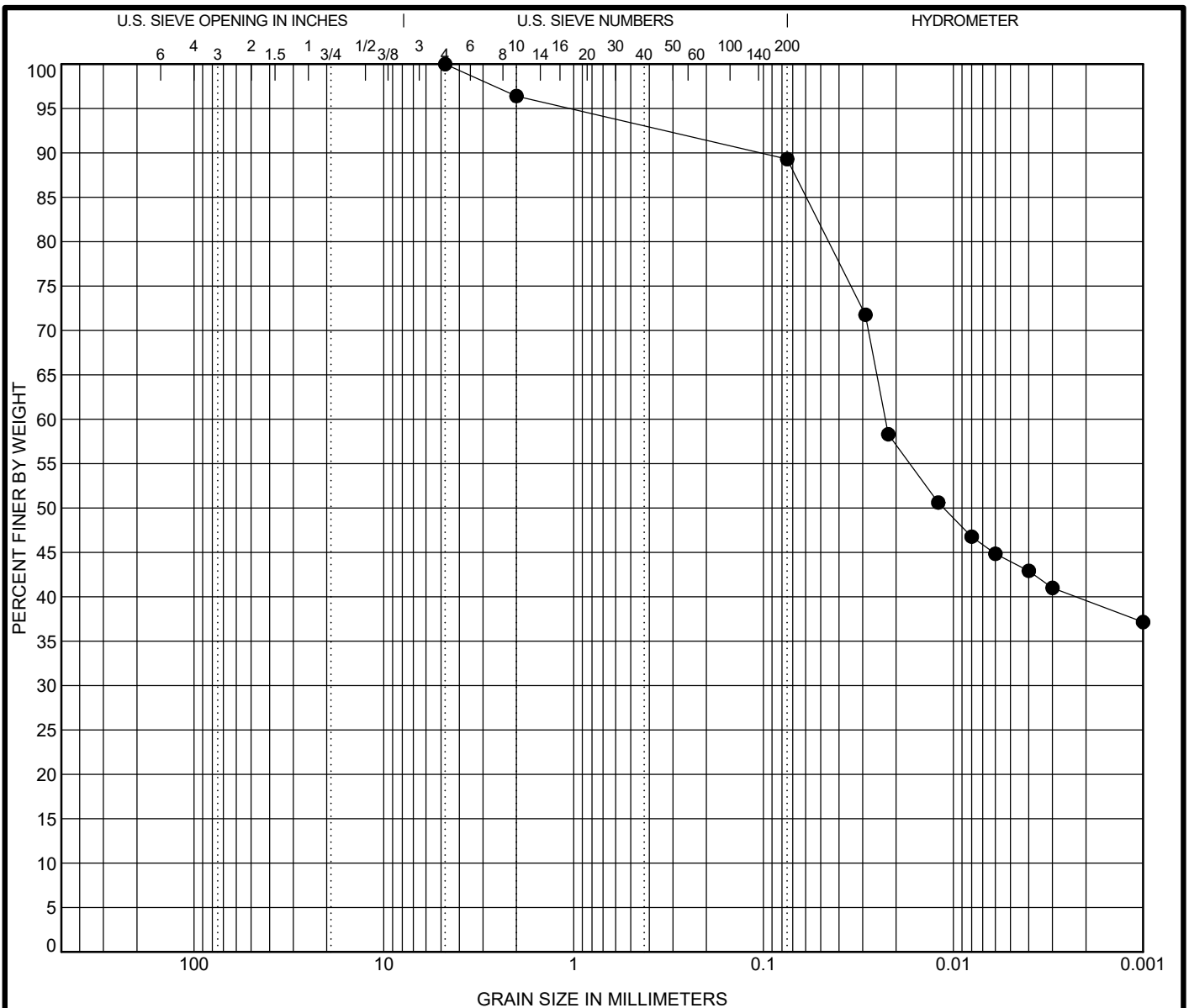
Schnabel
ENGINEERING

GRADATION CURVE

Project: Mildands Environmental Services
Jake Huggins
SC

Contract: 21C19040.00.15-17





COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen	Sample Description					LL	PL	PI	Test Method
● SB-1 32.0-34.0 ft	SILTY CLAY (CL-ML), grayish brown					--	--	--	Atterberg ASTM D4318
Test Method	D100	D60	D30	D10	%Gravel	%Sand	%Silt		%Clay
ASTM D7928	4.75	0.023			0.0	10.7	49.7		39.6

Percent Finer

Sieve Size	200	10	4
% Finer	89.3	96.4	100.0

Tested By	Tested Date	Reviewed by	Calc by
EC	2/2/22	SRH	EC

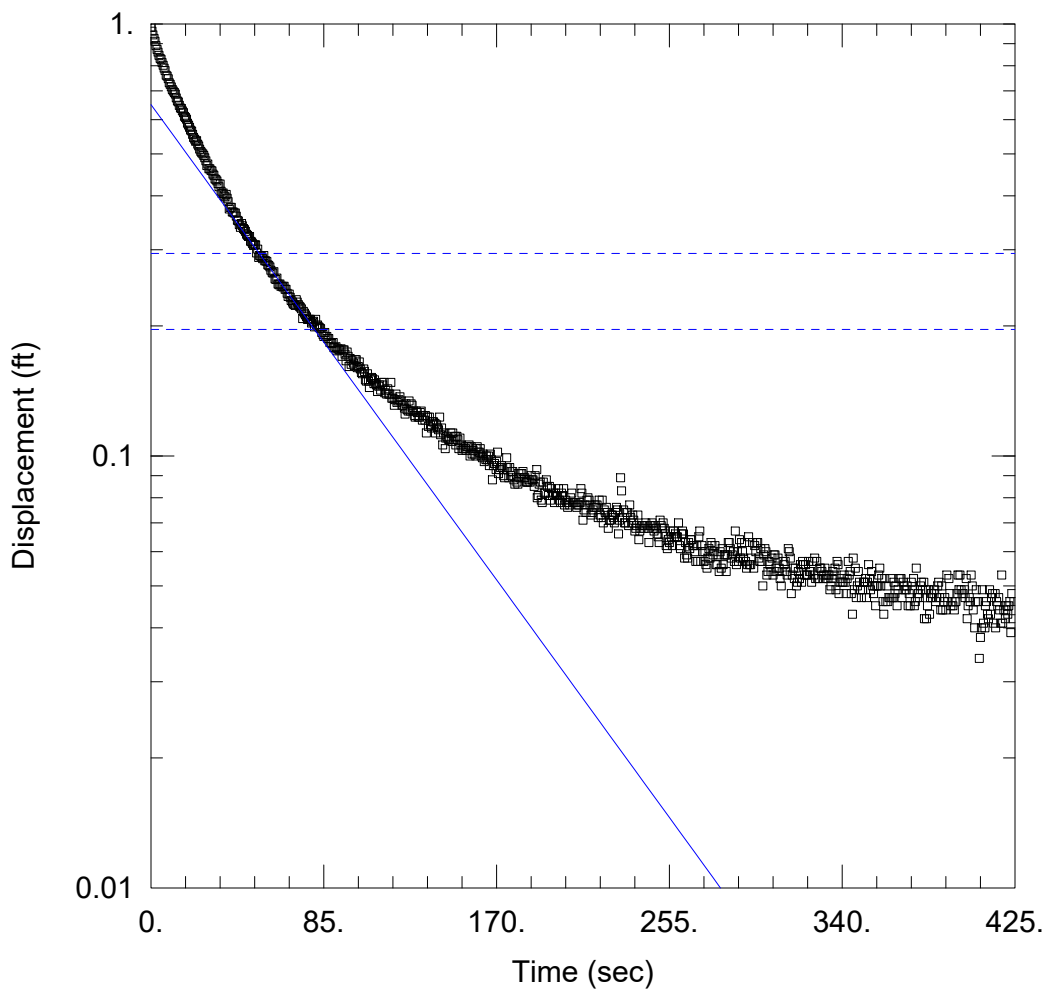


Schnabel
ENGINEERING

GRADATION CURVE

Project: Mildands Environmental Services
Jake Huggins
SC

Contract: 21C19040.00.15-17



WELL TEST ANALYSIS

Data Set: M:\active\21-7709\AQTESOLV\MW2.aqt

Date: 03/04/22

Time: 09:35:30

PROJECT INFORMATION

Company: MECI

Client: SCDHEC

Project: 21-7709

Location: Florence

Test Well: MW-2

Test Date: 2/14/2022

AQUIFER DATA

Saturated Thickness: 10.92 ft

Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (MW-2)

Initial Displacement: 0.981 ft

Total Well Penetration Depth: 13. ft

Casing Radius: 0.083 ft

Static Water Column Height: 10.92 ft

Screen Length: 10. ft

Well Radius: 0.33 ft

Gravel Pack Porosity: 0.28

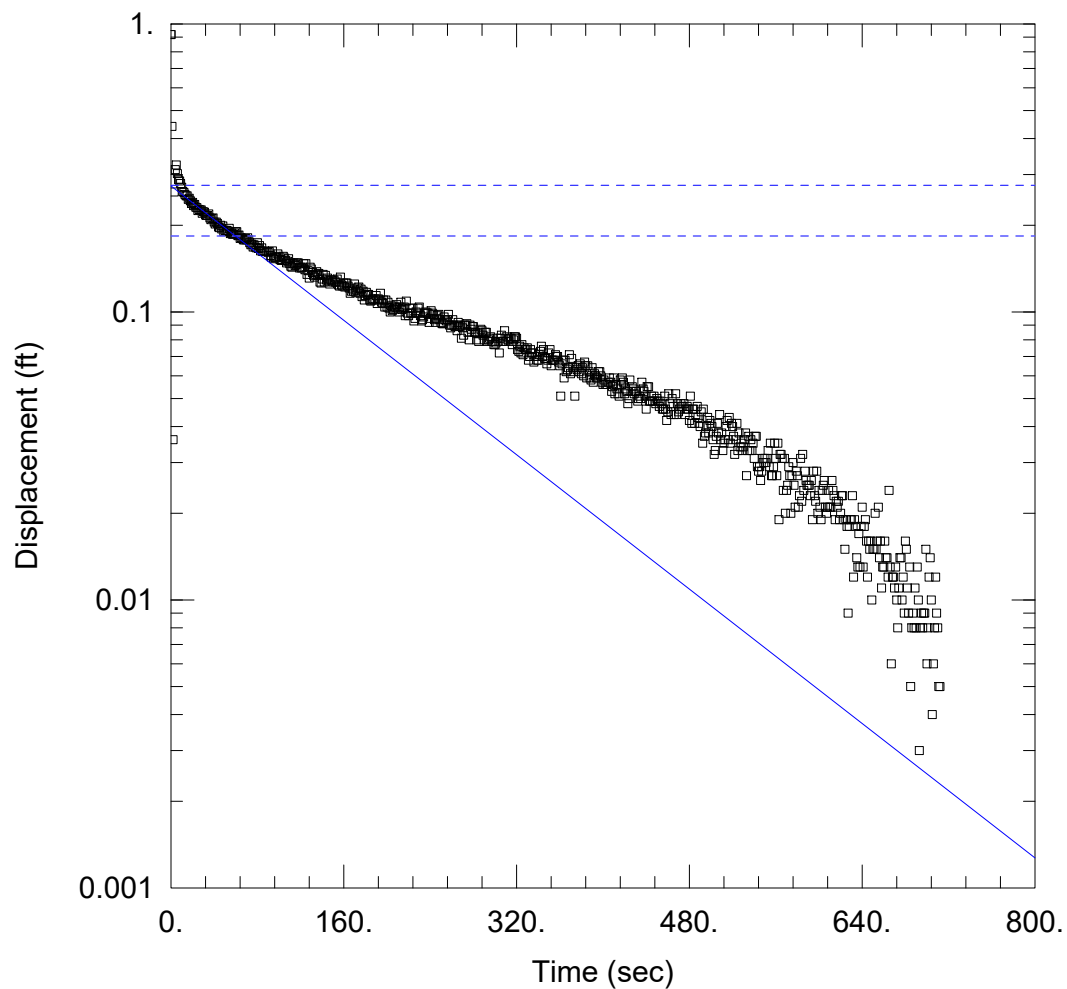
SOLUTION

Aquifer Model: Unconfined

$K = 0.002207$ cm/sec

Solution Method: Bouwer-Rice

$y_0 = 0.6505$ ft



WELL TEST ANALYSIS

Data Set: M:\active\21-7709\AQTESOLV\MW7.aqt

Date: 03/04/22

Time: 09:36:39

PROJECT INFORMATION

Company: MECI

Client: SCDHEC

Project: 21-7709

Location: Florence

Test Well: MW-7

Test Date: 2/14/2022

AQUIFER DATA

Saturated Thickness: 9.91 ft

Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (MW-7)

Initial Displacement: 0.918 ft

Static Water Column Height: 9.91 ft

Total Well Penetration Depth: 13. ft

Screen Length: 10. ft

Casing Radius: 0.083 ft

Well Radius: 0.33 ft

Gravel Pack Porosity: 0.28

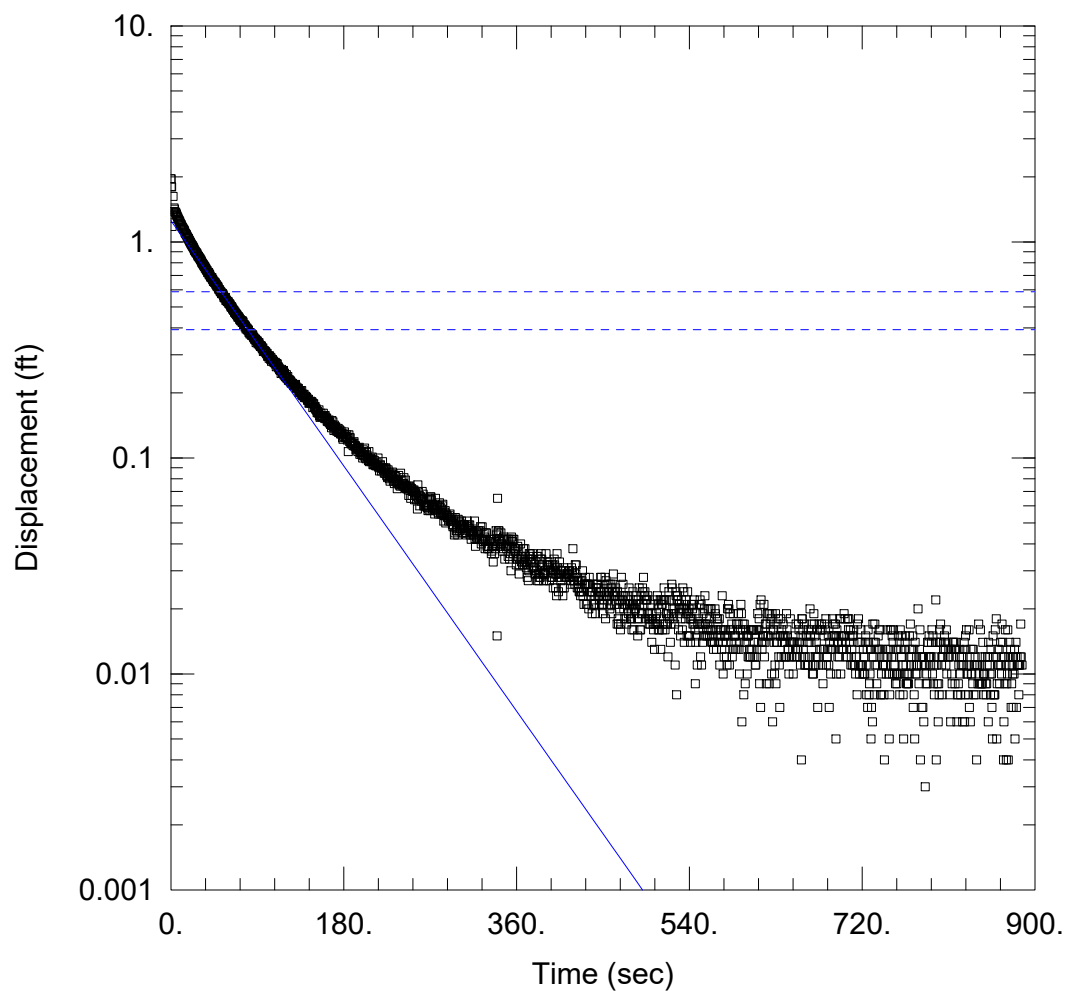
SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

$K = 0.001003$ cm/sec

$y_0 = 0.274$ ft



WELL TEST ANALYSIS

Data Set: M:\active\21-7709\AQTESOLV\DW-2.aqt

Date: 03/04/22

Time: 09:38:42

PROJECT INFORMATION

Company: MECI

Client: SCDHEC

Project: 21-7709

Location: Florence

Test Well: DW-2

Test Date: 2/15/2022

AQUIFER DATA

Saturated Thickness: 25. ft

Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (DW-2)

Initial Displacement: 1.961 ft

Static Water Column Height: 22.69 ft

Total Well Penetration Depth: 25. ft

Screen Length: 5. ft

Casing Radius: 0.083 ft

Well Radius: 0.33 ft

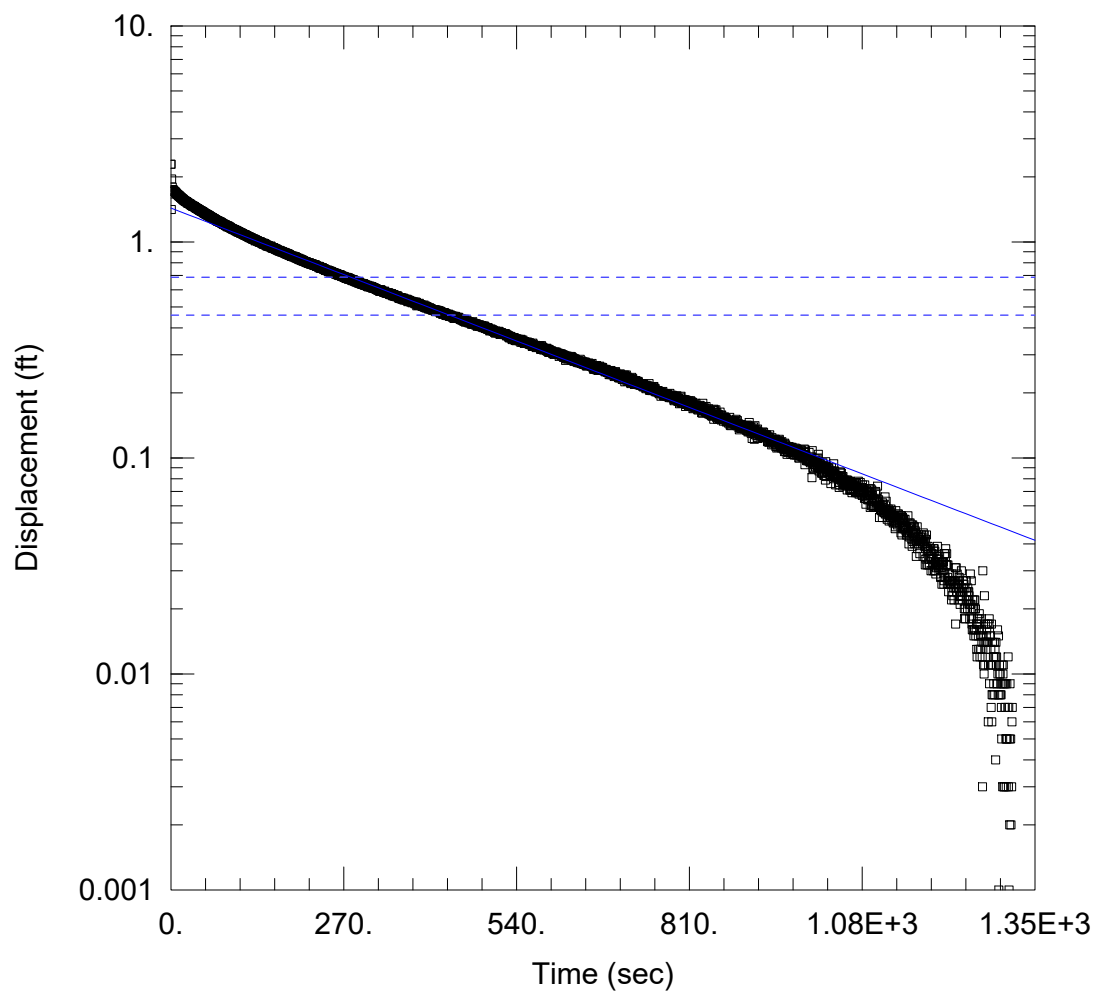
SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

$K = 0.0008627$ cm/sec

$y_0 = 1.253$ ft



WELL TEST ANALYSIS

Data Set: M:\active\21-7709\AQTESOLV\DW-3.aqt

Date: 03/04/22

Time: 09:39:38

PROJECT INFORMATION

Company: MECI

Client: SCDHEC

Project: 21-7709

Location: Florence

Test Well: DW-3

Test Date: 2/15/2022

AQUIFER DATA

Saturated Thickness: 25. ft

Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (DW-3)

Initial Displacement: 2.29 ft

Static Water Column Height: 22.31 ft

Total Well Penetration Depth: 25. ft

Screen Length: 5. ft

Casing Radius: 0.083 ft

Well Radius: 0.33 ft

SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

$K = 0.0001558$ cm/sec

$y_0 = 1.434$ ft