



Advanced Environmental Concepts, Inc.

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*1751 Pulaski Hwy Havre De Grace, MD 21078 (410)939-5550*

## **October 2016 Monitoring Well Sampling Report**

### **Site Location:**

Winfield BP  
1631 West Liberty Road  
Sykesville, MD

MDE Case # 2006-0466CL  
Facility I.D. No. 6338

### **Prepared For:**

**Mr. Tim Watkins  
Tevis Oil Inc.  
P.O. Box 26  
Westminster, MD 21158**

**November 9, 2016**

**SIGNATURE SHEET**

*Prepared by:*

**Name:** Gregory A Beal

**Company:** Advanced Environmental Concepts, Inc.

**Address:** 1751-1 Pulaski Hwy

**City/State/Zip:** Havre de Grace, Maryland 21078

**Telephone:** (410) 939-5550

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## 1.0 Introduction

This Monitoring Well Sampling Report has been prepared to satisfy the requirements set forth by the Maryland Department of the Environment (MDE) for the Winfield BP located at 1631 West Liberty Rd. Sykesville, MD; referred to herein as the "site".

## 2.0 Groundwater Monitoring

Groundwater monitoring activities for October of 2016 included the gauging and sampling of the monitoring well network as well as the sampling of the domestic supply water well.

### 2.1 Monitoring Well Gauging & Sampling

On 10/05/2016, AEC personnel arrived on site to gauge and sample all site monitoring wells. Prior to sampling, each well was gauged for presence/absence of LPH as well as depth to groundwater with an electronic oil/water interface meter. LPH was not detected in any of the site wells. After gauging, each well was purged a total of three well volumes of water. Purged groundwater was treated with activated carbon prior to being discharged to the ground. After purging, groundwater was allowed to recover to a minimum of 90% pre purge levels prior to sample collection. Groundwater samples were collected using pre-packaged, single use, disposable bailers and placed in laboratory supplied VOA's and then placed in a cooler with ice and chain of custody record for delivery to the laboratory.

All groundwater samples were delivered on ice with a chain of custody record, trip blank and temperature blank to AECs laboratory to be analyzed by EPA Method 8260 for volatile organic compounds (VOCs).

### 2.2 Domestic Supply Well Sampling

On 10/5/2016, AEC personnel collected quarterly samples from the supply well servicing the store. All samples were collected by an MDE certified drinking water sampler and placed in a cooler with ice, chain of custody record, trip blank and temperature blank for delivery to AECs laboratory to be analyzed by EPA Method 524 for volatile organic compounds (VOCs).

## 3.0 Results of Groundwater Sampling

### 3.1 Groundwater Elevation & Flow Direction

Relative groundwater elevation, calculated using depth to groundwater measurements collected from the shallow monitoring wells during the 10/5/2016 sampling event, ranged from 55.44 feet in MW-2 (highest) to 51.67 feet in MW-4 (lowest). Based on the survey data and the depth to groundwater measurements collected, the groundwater elevation contours for the shallow wells depict groundwater flow to be primarily to the west.

Relative groundwater elevation, calculated using depth to groundwater measurements collected from the deep monitoring wells during the 10/5/2016 sampling event, ranged from 55.73 feet in MW-6d (highest) to 51.89 feet in MW-9d (lowest). Based on the survey data and the depth to groundwater measurements collected, the groundwater elevation contours for the shallow wells depict groundwater flow to be primarily to the west.

### 3.2 Monitoring Well Sampling Results

Method detectable concentrations of VOCs were observed in the groundwater samples collected from the sites monitoring well network to include:

MW-4	17.6ug/l of MTBE
MW-5s	641ug/l of MTBE and 19.8ug/l of TAME
MW-8d	1,200ug/l of MTBE
PW-1	136 ug/l of MTBE and 5.31 of TAME

A Quick Reference Historical Groundwater Sampling Summary Table which summarizes current and historical groundwater sampling analytical results can be found in Attachment B. A full Report of Analysis and Chain of Custody Record can be found in Attachment C.

### **3.3 Domestic Supply Well Sampling Results**

#### **3.3.1 Site Well**

Method detectable concentrations of VOCs were not observed in the drinking water sample collected from the drinking water well during the October 2016 sampling event.

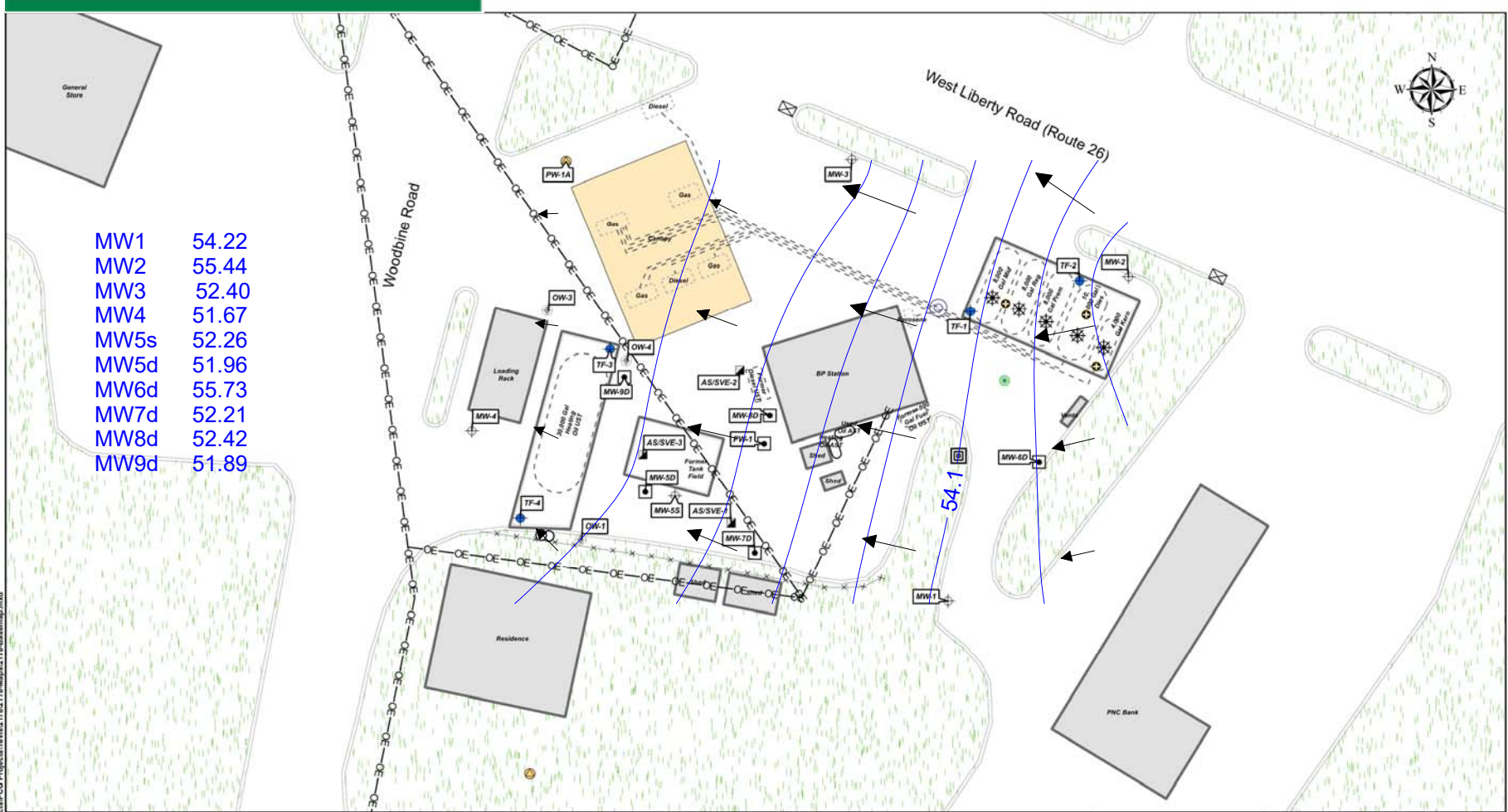
A table summarizing the results of the recent sampling as well as all historical sampling can be found in Appendix B.

### **4.0 Future Activities**

This report will be provided to MDE's Oil Control Program. MDE will respond with future requirements upon data review.

**Appendix A**  
**Site Maps**

MW1	54.22
MW2	55.44
MW3	52.40
MW4	51.67
MW5s	52.26
MW5d	51.96
MW6d	55.73
MW7d	52.21
MW8d	52.42
MW9d	51.89



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Legend			
	AS/SVE Location		

0 30 60 Feet

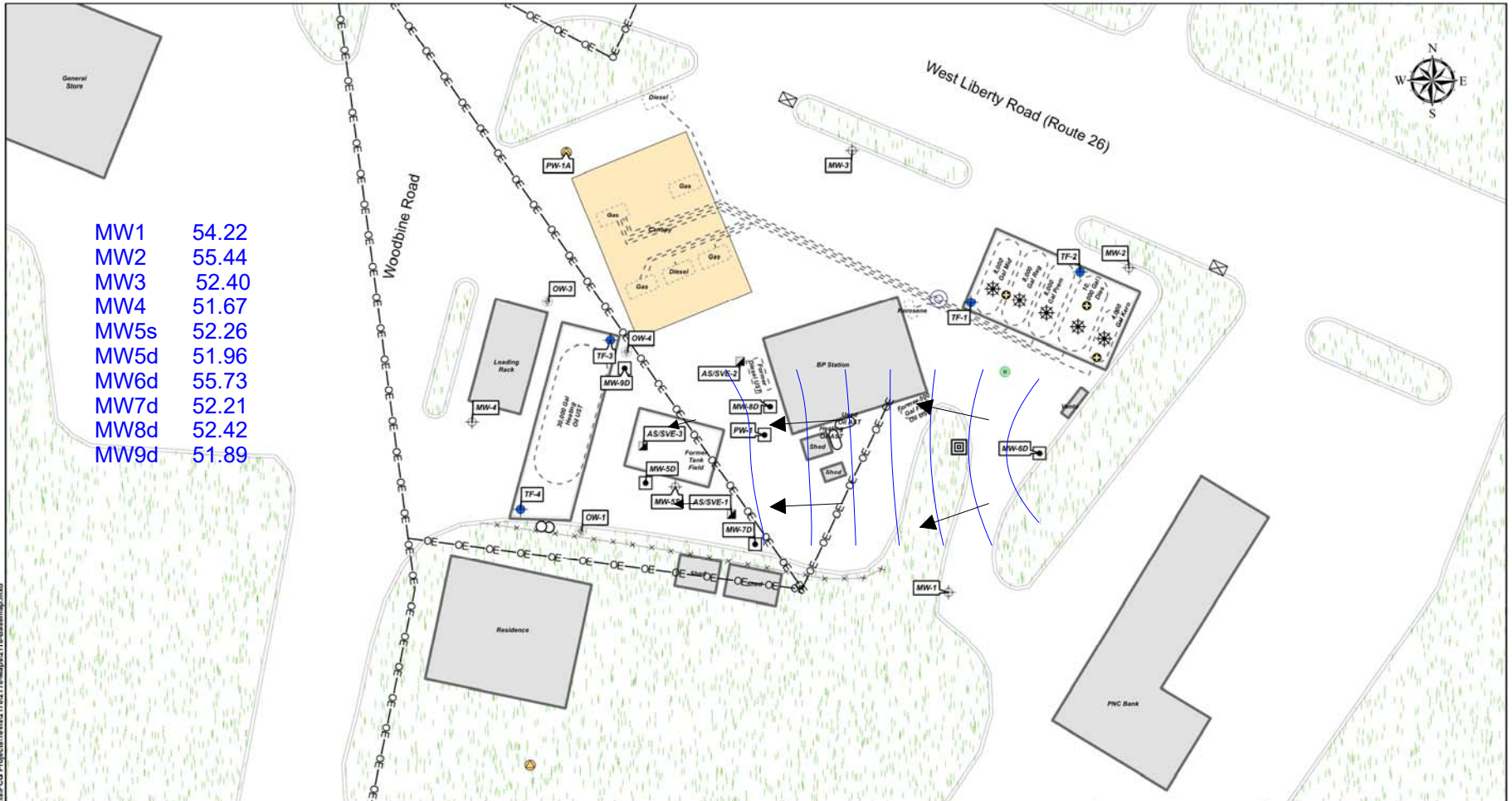
Source: Carol County, MD aerial photography

Tevis Winfield  
Shallow MW  
Groundwater  
Flow Direction  
.5ft contours

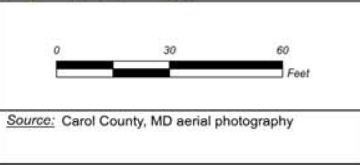
Winfield BP  
1631 West Liberty Road  
Sykesville, Maryland 21784

DESIGNED BY: CAF	DRAWN BY: SKJ	UPDATED BY: ---	FIGURE NO.:
APPROVED BY:	PROJECT NO.:	DATE:	1
	2178	11/17/2015	

MW1	54.22
MW2	55.44
MW3	52.40
MW4	51.67
MW5s	52.26
MW5d	51.96
MW6d	55.73
MW7d	52.21
MW8d	52.42
MW9d	51.89



Legend	
	Shallow Monitoring Well
	Deep Monitoring Well
	Tank Field Well
	Abandoned Well
	Potable Well
	AS/SVE Location
	Fill Valve
	Vapor Recovery
	Vent
	Grease Trap
	Sanitary Cleanout
	Transition Sump
	Catch Basin
	Curb/Edge of Pavement
	Fence
	Overhead Electric
	Product Line
	Building
	Canopy
	Dispenser
	Tank Field
	UST
	AST
	Vegetation



Deep Well  
Groundwater  
Flow  
.5ft contours

Winfield BP 1631 West Liberty Road Sykesville, Maryland 21784			
DESIGNED BY CAF	DRAWN BY SKJ	REPORTED BY SKJ	FIGURE NO. 1
APPROVED BY	PROJECT NO. 2178	DATE 11/17/2015	

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**Appendix B**  
**Groundwater Gauging & Analytical Tables**







Groundwater Analytical Data Summary  
Tevis Oil- Winfield BP

ID	TOC	Date	Depth to Groundwater	Groundwater Elevation	BENZENE	TOLUENE	Ethyl-benzene	XYLENES	MTBE	TBA	TAME	DIPE	ETBE	TPH-DRO	TPH-GRO
MDE GNCS, Type I and II Aquifers					5	1,000	700	10,000	20	NG	NG	NG	NG	47	47
MW-4 TOS=unknown BOS=84.18	100.23 100.25	07/13/05	--	--	--	--	--	--	--	--	--	--	--	--	--
		01/19/06	--	--	--	--	--	--	--	--	--	--	--	--	--
		05/18/06	47.04	53.19	< 0.5	< 0.7	< 0.8	< 0.8	< 0.5	--	--	--	--	50 J	< 20
		07/13/06	47.80	52.43	< 0.5	< 0.7	< 0.8	< 0.8	< 0.5	--	--	--	--	--	--
		01/02/07	46.34	53.89	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1,000	< 1,000
		08/09/07	47.60	52.63	< 0.5	< 0.7	< 0.8	< 0.8	< 0.5	< 10	< 0.8	< 0.8	< 0.8	< 290	< 20
		10/10/07	--	--	--	--	--	--	--	--	--	--	--	--	--
		01/30/08	50.13	50.12	< 0.5	< 0.7	< 0.8	< 0.8	0.6 J	< 10	< 0.8	< 0.8	< 0.8	< 150	< 20
		04/30/08	48.25	52.00	--	--	--	--	--	--	--	--	--	--	--
		07/15/08	46.73	53.52	< 0.5	< 0.7	< 0.8	< 0.8	< 0.5	< 10	< 0.8	< 0.8	< 0.8	69 J	< 20
		10/22/08	48.94	51.31	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00	< 300	< 100
		02/04/09	47.65	52.60	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00	< 40.0	< 25.0
		04/27/09	47.68	52.57	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00	< 40.0	< 25.0
		07/20/09	46.64	53.61	< 1.00	< 1.00	< 1.00	< 1.00	2.15	< 5.00	< 1.00	< 1.00	< 1.00	< 40.0	< 25.0
		10/20/09	47.13	53.12	< 1.00	< 1.00	< 1.00	< 1.00	3.12	< 5.00	< 1.00	< 1.00	< 1.00	93.8 J	39.6 J
		01/20/10	42.79	57.46	< 1.00	< 1.00	< 1.00	< 1.00	16.5	< 5.00	< 1.00	< 1.00	< 1.00	< 300	< 100
		04/29/10	41.52	58.73	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00	--	--
		07/16/10	45.37	54.88	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00	--	--
		10/11/10	48.20	52.05	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00	--	--
		02/11/11	49.26	50.99	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00	--	--
		04/07/11	46.53	53.72	< 1.00	< 1.00	< 1.00	< 1.00	115	< 5.00	< 1.00	< 1.00	< 1.00	--	--
		07/21/11	45.58	54.67	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00	--	--
		10/25/11	46.11	54.14	< 1.00	< 1.00	< 1.00	< 1.00	201	< 5.00	6.44	< 1.00	< 1.00	--	--
		01/12/12	43.86	56.39	< 1.00	< 1.00	< 1.00	< 1.00	54.0	< 5.00	< 1.00	< 1.00	< 1.00	--	--
		04/27/12	46.12	54.13	< 1.00	< 1.00	< 1.00	< 1.00	82.3	< 5.00	2.30	< 1.00	< 1.00	--	--
		07/05/12	46.73	53.52	< 1.00	< 1.00	< 1.00	< 1.00	258 QK	12.6	7.16	< 1.00	< 1.00	--	--
		10/10/12	49.00	51.25	< 1.00	< 1.00	< 1.00	< 1.00	348	5.79	5.52	< 1.00	< 1.00	--	--
		01/22/13	46.95	53.30	< 1.00	< 1.00	< 1.00	< 1.00	256	< 5.00	5.79	< 1.00	< 1.00	--	--
		04/03/13	44.62	55.63	< 1.00	< 1.00	< 1.00	< 1.00	368 QK	< 5.00	6.70	< 1.00	< 1.00	--	--
		07/24/13	46.03	54.22	1.00	< 1.00 VC	< 1.00	< 1.00	467 QB	6.35	8.63	< 1.00 VC	< 1.00	--	--
		10/11/13	48.74	51.51	< 1.00	< 1.00	< 1.00	< 1.00	9.60	< 5.00	< 1.00	< 1.00	< 1.00	--	--
		11/13/13	48.55	51.70	< 1.00	< 1.00	< 1.00	< 1.00	170	5.73	5.16	< 1.00	< 1.00	--	--
		12/26/13	47.73	52.52	1.46	< 1.00	< 1.00	< 1.00	386	7.16	12.4	< 1.00	< 1.00	--	--
		01/29/14 <sup>2</sup>	--	--	--	--	--	--	--	--	--	--	--	--	--
		02/07/14	--	56	< 1.00	< 1.00	< 1.00	< 1.00	908	< 5.00 2a	18.4	< 1.00	< 1.00	--	--
		02/25/14	44.19	56.06	< 1.00	< 1.00	< 1.00	< 1.00	1,020	6.45	18.2	< 1.00	< 1.00	--	--
		03/19/14	43.51	56.74	< 1.00	< 1.00	< 1.00	< 1.00	604	< 5.00	17.8	< 1.00	< 1.00	--	--
		04/03/14	42.75	57.50	< 2.00	< 2.00	< 2.00	< 2.00	416	< 2.00	< 10.0	13.5	< 2.00	< 2.00	< 2.00
		04/03/14	60.08	40.17	3.10	< 2.00	< 2.00	< 2.00	545	< 2.00	19.8	24.9	< 2.00	< 2.00	< 2.00
		04/17/14	42.35	57.90	< 2.00	< 2.00	< 2.00	< 2.00	504	< 2.00	< 10.0	8.66 2e	< 2.00	< 2.00 2e	< 2.00 2e
		04/17/14	61.92	38.33	< 2.00	< 2.00	< 2.00	< 2.00	514	< 2.00	11.6	12.4 2e	< 2.00	< 2.00 2e	< 2.00 2e
		05/02/14	41.37	58.88	< 1.00	< 1.00	< 1.00	< 1.00	168 2b	< 5.00	4.34	< 1.00 2d	< 1.00	--	--
		5/28/2014	40.09	60.16	< 1.00	< 1.00 2d	< 1.00 2d	< 1.00 2d	140	< 5.00	3.45	< 1.00 2d	< 1.00	--	--
		06/25/14	41.24	59.01	< 1.00	< 1.00	< 1.00	< 1.00	116	< 5.00	3.41	< 1.00	< 1.00	--	--
		07/08/14	41.94	58.31	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00	--	--
		08/05/14	43.55	56.70	< 1.00	< 1.00	< 1.00	< 1.00	19.5	< 5.00	< 1.00	< 1.00	< 1.00	--	--
		09/05/14	44.74	55.51	< 1.00	< 1.00	< 1.00	< 1.00	251	< 5.00	8.31	< 1.00	< 1.00	--	--
		10/03/14	45.88	54.37	< 1.00	< 1.00	< 1.00	< 1.00	186	5.98	7.49	< 1.00	< 1.00	--	--
		11/04/14	45.35	54.90	< 1.00	< 1.00	< 1.00	< 1.00	61.9	< 5.00	1.56	< 1.00	< 1.00	--	--
		12/05/14	47.11	53.14	< 1.00	< 1.00	< 1.00	< 1.00	157	< 5.00	4.42	< 1.00	< 1.00	--	--
		1/29/2015	46.89	53.36	< 1.00	< 1.00	< 1.00	< 1.00	225	< 5.00	5.48	< 1.00	< 1.00	--	--
		02/09/15	46.82	53.43	< 1.00	< 1.00	< 1.00	< 1.00	184	< 5.00	4.62	< 1.00	< 1.00	--	--
		3/27/2015	45.04	55.21	< 1.00	< 1.00	< 1.00	< 1.00	245	< 5.00	6.83	< 1.00	< 1.00	--	--
		4/28/2015	45.25	55.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00	--	--
		5/29/2015	45.87	54.38	< 1.00	< 1.00	< 1.00	< 1.00	25.0	< 5.00	< 1.00	< 1.00	< 1.00	--	--
		6/24/2015	44.75	55.50	1.53	< 1.00	< 1.00	< 1.00	388	6.50	14.2	< 1.00	< 1.00	--	--
		07/01/15	44.15	56.10	1.73	< 1.00	< 1.00	< 1.00	468	5.97	17.9	< 1.00	< 1.00	--	--
		15/08/13	44.99	55.26	< 1.00	< 1.00	< 1.00	< 1.00	172	< 5.00	4.91	< 1.00	< 1.00	--	--
		09/02/15	46.13	54.12	< 1.00	< 1.00	< 1.00	< 1.00	278	6.56	8.13	< 1.00	< 1.00	--	--
		10/08/15	47.42	52.83	< 1.00	< 1.00	< 1.00	< 1.00	336	15.9	8.09	< 1.00	< 1.00	--	--
		10/5/2016	48.58	51.67	ND	ND	ND	ND	17.6	ND	ND	ND	ND	ND	ND

Groundwater Analytical Data Summary  
Tevis Oil- Winfield BP

ID	TOC	Date	Depth to Groundwater	Groundwater Elevation	BENZENE	TOLUENE	Ethyl-benzene	XYLENES	MTBE	TBA	TAME	DIPE	ETBE	TPH-DRO	TPH-GRO
MDE GNCS, Type I and II Aquifers					5	1,000	700	10,000	20	NG	NG	NG	NG	47	47
MW-5S TOS = 10' BOS = 85'	100.67	10/11/07	49.65	51.02	16 J	< 4	< 4	8 J	2,100	< 50	52	< 4	< 4	3,900	2,600
		01/30/08	50.01	50.66	11	< 1	< 2	7 J	1,600	46 J	54	< 2	< 2	860 J	2,600
		04/30/08	48.10	52.57	11	< 1	< 2	9 J	1,800	31 J	55	< 2	< 2	1,100	2,400
		07/15/08	46.58	54.09	9 J	< 3	< 3	5 J	1,400	< 40	44	< 3	< 3	130	1,900
		10/22/08	48.83	51.84	2.81	< 1.00	< 1.00	1.39	1,680	24.4	27.2	< 1.00	< 1.00	< 300	507
		02/04/09	47.57	53.10	9.11	< 1.00	< 1.00	5.74	2,780	172	58.1	< 1.00	< 1.00	< 40.0	321
		04/27/09	47.58	53.09	14.6	< 2.00	< 2.00	6.60	2,820	108	95.2	< 2.00	< 2.00	< 40.0	521
		07/20/09	46.50	54.17	16.3	< 1.00	< 1.00	5.44	3,980	73.3	74.8	1.02	< 1.00	< 40.0	634
		10/20/09	46.98	53.69	2.9	< 1.00	< 1.00	1.13	827	12.1	16.8	< 1.00	< 1.00	110 J	466
		01/20/10	42.71	57.96	20.6	< 1.00	< 1.00	5.95	2,380	78.1	75.7	< 1.00	< 1.00	< 300	129
		04/29/10	41.40	59.27	23.4	< 1.00	< 1.00	4.25	2,790	67.2	74.1	< 1.00	< 1.00	--	--
		07/16/10	45.23	55.44	27.2	< 1.00	< 1.00	2.84	3,240	82.3	91.8	1.07	< 1.00	--	--
		10/11/10	48.08	52.59	36.2	< 2.00	< 2.00	9.14	3,780	125	174	< 2.00	< 2.00	--	--
		02/11/11	49.11	51.56	12.0	< 2.00	< 2.00	< 2.00	1,720	23.7	63.4	< 2.00	< 2.00	--	--
		04/07/11	46.42	54.25	4.02	< 1.00	< 1.00	< 1.00	1,430	38.1	26.9	< 1.00	< 1.00	--	--
		07/21/11	45.45	55.22	11.9	< 2.00	< 2.00	< 2.00	1,490	82.1	67.5	< 2.00	< 2.00	--	--
		10/25/11	45.98	54.69	39.1	< 2.00	< 2.00	< 2.00	5,950	256	238	2.82	< 2.00	--	--
		01/12/12	43.69	56.98	3.56	< 2.00	< 2.00	< 2.00	365	< 10.0	20.4	< 2.00	< 2.00	--	--
		04/27/12	45.88	54.79	24.0	< 2.00	< 2.00	< 2.00	2,010	154	160	< 2.00	< 2.00	--	--
		07/05/12	46.55	54.12	4.96	< 2.00	< 2.00	< 2.00	2,260 QK	62.1	97.5	< 2.00	< 2.00	--	--
		08/17/12	47.33	53.34	6.08	< 1.00	< 1.00	< 1.00	3,550	168	76.8	< 1.00	< 1.00	--	--
		09/14/12	48.18	52.49	3.60	< 2.00	< 2.00	< 2.00	2,480 QK	684	125	< 2.00	< 2.00	--	--
		10/10/12	49.00	51.67	3.15	< 1.00	< 1.00	< 1.00	1,800	45.6	60.6	< 1.00	< 1.00	--	--
		11/14/12	47.34	53.33	32.2	< 2.00	4.02	< 2.00	2,050	585	210	2.84	< 2.00	--	--
		12/11/12	47.48	53.19	17.5	< 2.00	< 2.00	< 2.00	2,550	87.9	104	< 2.00	< 2.00	--	--
		01/22/13	46.88	53.79	24.3	< 2.00	< 2.00	< 2.00	8,530	794	232	< 2.00	< 2.00	--	--
		02/15/13	45.08	55.59	6.28	< 1.00	< 1.00	< 2.00	1,250 QK	97.5	61.8	< 1.00	< 1.00	--	--
		03/26/13	44.40	56.27	6.76	< 2.00	< 2.00	< 2.00	1,490 QK	46.1	51.5	< 2.00	< 2.00	--	--
		04/03/13	44.52	56.15	< 2.00	< 2.00	< 2.00	< 2.00	303 QK	< 10.0	13.9	< 2.00	< 2.00	--	--
		05/10/13	44.64	56.03	< 1.00	< 1.00	< 1.00	< 1.00	20.5	< 5.00	< 1.00	< 1.00	< 1.00	--	--
		06/28/13	45.04	55.63	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	< 1.00	--	--
		07/24/13	45.81	54.86	2.70	< 2.00	< 2.00	< 2.00	667	< 10.0	30.9	< 2.00	< 2.00	--	--
		08/22/13	46.84	53.83	13.3	< 2.00	< 2.00	< 2.00	1,950	145	119	< 2.00	< 2.00 VC	--	--
		09/20/13	47.87	52.80	11.3	< 2.00	< 2.00	< 2.00	1,210 QKVC	40.0	84.9	< 2.00	< 2.00	--	--
		10/11/13	48.55	52.12	12.0	< 1.00	< 1.00	< 1.00	2,110	97.7	106	< 1.00	< 1.00	--	--
		11/13/13	48.44	52.23	11.3	< 1.00	< 1.00	< 1.00	1,620	104	91.7	< 1.00	< 1.00	--	--
		12/26/13	47.58	53.09	2.60	< 1.00	< 1.00	< 1.00	1,800	21.9	86.4	1.16	< 1.00	--	--
		01/29/14	45.54	55.13	13.0	< 1.00	< 1.00	< 1.00	2,260	55.8	106	< 1.00	< 1.00	--	--
		02/25/14	44.05	56.62	< 1.00	< 1.00	< 1.00	< 1.00	339	< 5.00	14.0	< 1.00	< 1.00	--	--
		03/19/14	43.36	57.31	< 1.00	< 1.00	< 1.00	< 1.00	123	< 5.00	5.42	< 1.00	< 1.00	--	--
		04/03/14	42.59	58.08	--	--	--	--	0	--	--	--	--	--	--
		04/17/14	42.41	58.26	--	--	--	--	0	--	--	--	--	--	--
		05/02/14	41.20	59.47	< 1.00	< 1.00	< 1.00	< 1.00	0	< 5.00	< 1.00	< 1.00 2d	< 1.00	--	--
		05/28/14	39.95	60.72	< 1.00	< 1.00 2d	< 1.00 2d	< 1.00 2d	80.2	< 5.00	4.14	< 1.00 2d	< 1.00	--	--
		06/25/14	41.07	59.60	1.27	< 1.00	< 1.00	< 1.00	189	< 5.00	8.02	< 1.00	< 1.00	--	--
		07/08/14	39.76	60.91	< 1.00	< 1.00	< 1.00	< 1.00	30.5	< 5.00	1.34	< 1.00	< 1.00	--	--
		08/05/14	43.31	57.36	3.50	< 1.00	< 1.00	< 1.00	644	27.5	34.0	< 1.00	< 1.00	--	--
		09/05/14	44.61	56.06	< 1.00	< 1.00	< 1.00	< 1.00	30.5	< 5.00	1.18	< 1.00	< 1.00	--	--
		10/03/14	45.73	54.94	12.4	< 1.00	< 1.00	< 1.00	1,750	97.3	108	< 1.00	< 1.00	--	--
		11/04/14	45.20	55.47	2.40	< 1.00	< 1.00	< 1.00	1,200	26.3	60.0	< 1.00	< 1.00	--	--
		12/05/14	46.99	53.68	1.71	< 1.00	< 1.00	< 1.00	1,020	21.7	46.3	< 1.00	< 1.00	--	--
		01/29/15	45.72	54.95	1.53	< 1.00	< 1.00	< 1.00	550	9.66	28.4	< 1.00	< 1.00	--	--
		02/09/15	45.81	54.86	< 1.00	< 1.00	< 1.00	< 1.00	0	< 5.00	< 1.00	< 1.00	< 1.00	--	--
		03/27/15	44.76	55.91	< 1.00	< 1.00	< 1.00	< 1.00	177	< 5.00	10.1	< 1.00	< 1.00	--	--
		04/28/15	45.02	55.65	< 1.00	< 1.00	< 1.00	< 1.00	0	< 5.00	< 1.00	< 1.00	< 1.00	--	--
		05/29/15	45.59	55.08	< 1.00	< 1.00	< 1.00	< 1.00	6.58	< 5.00 2e	< 1.00	< 1.00	< 1.00	--	--
		06/24/15	44.53	56.14	< 1.00	< 1.00	< 1.00	< 1.00	155	< 5.00	8.10	< 1.00	< 1.00	--	--
		07/01/15	43.98	56.69	< 1.00	< 1.00	< 1.00	< 1.00	48.5	< 5.00	2.46	< 1.00	< 1.00	--	--
		8/13/2015	44.76	55.91	< 2.00	< 2.00	< 2.00	< 2.00	53.6	< 10.0	< 2.00	< 2.00	< 2.00	--	--
		09/02/15	45.91	54.76	3.04	< 1.00	< 1.00	< 1.00	930	25.9	40.1	< 1.00	< 1.00	--	--
		10/08/15	47.25	53.42	5.16	< 1.00	< 1.00	< 1.00	1,200	86.2	46.6	1.06	< 1.00	--	--
		10/5/2016	48.41	52.26	ND	ND	ND	ND	641	ND	19.8	ND	ND	ND	710









Groundwater Analytical Data Summary  
Tevis Oil- Winfield BP

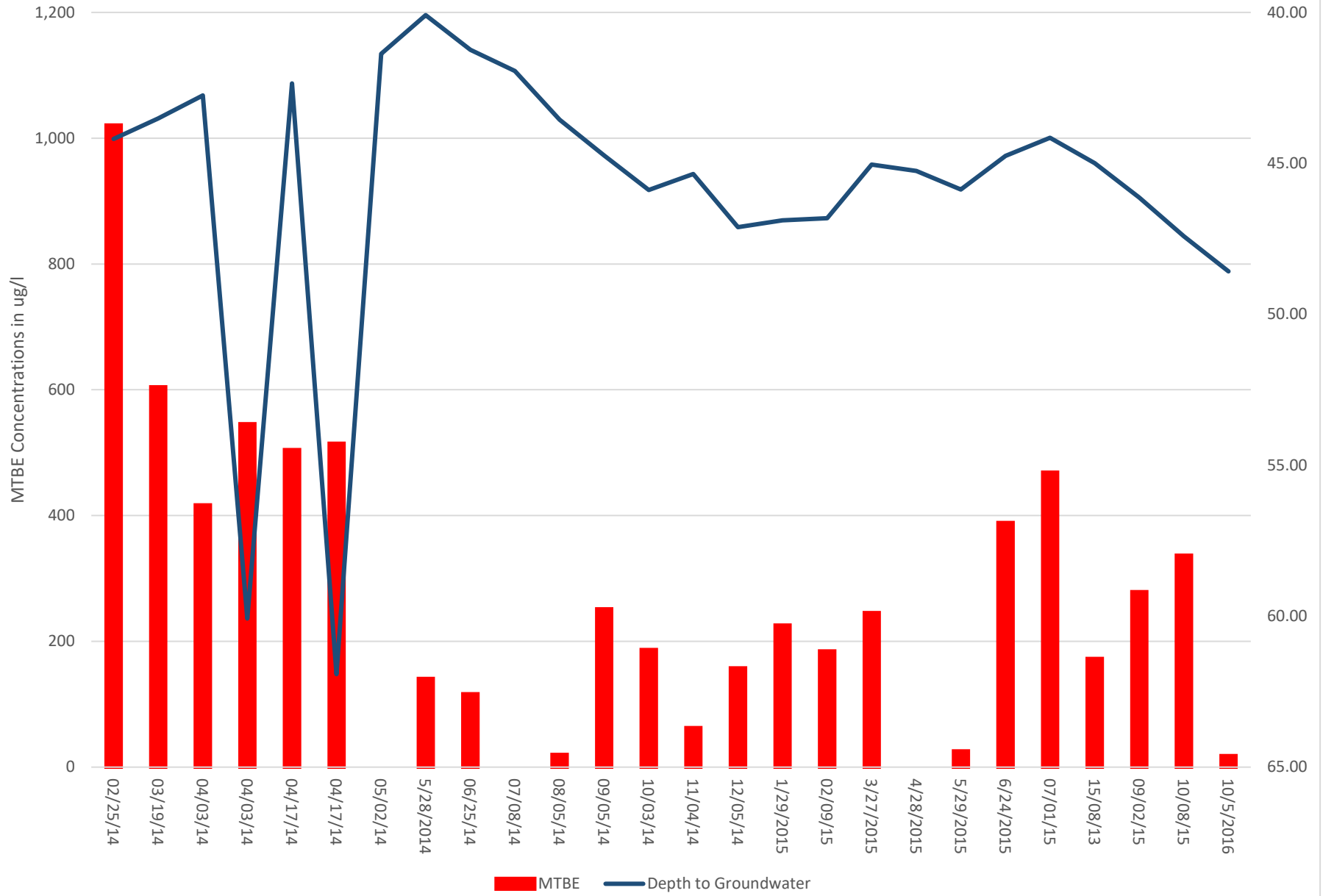
ID	TOC	Date	Depth to Groundwater	Groundwater Elevation	BENZENE	TOLUENE	Ethyl-benzene	XYLENES	MTBE	TBA	TAME	DIPE	ETBE	TPH-DRO	TPH-GRO
MDE GNCS, Type I and II Aquifers	Column1	Column2	Column3	Column4	5	1,000	700	10,000	20	NG	NG2	NG3	NG4	47	475
MW-8D TOS=114' BOS=134'	101.37	04/29/10	41.96	59.41	2.46	<2.00	<2.00	<2.00	1,410	19.9	82.5	<2.00	<2.00	--	--
		07/16/10	45.78	55.59	<2.00	<2.00	<2.00	<2.00	1,850 J	22.9	36.2	<2.00	<2.00	--	--
		10/11/10	48.68	52.69	<2.00	<2.00	<2.00	2.50	1,860	34.0	94.2	<2.00	<2.00	--	--
		02/11/11	49.67	51.70	<1.00	<1.00	<1.00	<1.00	2,180	51.2	69.4	<1.00	<1.00	--	--
		04/07/11	46.88	54.49	<1.00	<1.00	<1.00	<1.00	3,440	48.4	53.6	1.15	<1.00	--	--
		07/21/11	46.06	55.31	<2.00	<2.00	<2.00	<2.00	2,030	18.7	124	<2.00	<2.00	--	--
		10/25/11	46.42	54.95	<2.00	<2.00	<2.00	<2.00	3,040	72.2	174	2.10	<2.00	--	--
		01/12/12	44.27	57.10	<2.00	<2.00	<2.00	<2.00	1,680	82.5	100	<2.00	<2.00	--	--
		04/27/12	46.49	54.88	<2.00	<2.00	<2.00	<2.00	1,200	19.3	105	<2.00	<2.00	--	--
		07/05/12	47.16	54.21	<1.00	<1.00	<1.00	<1.00	1,480 QK	68.4	107	<1.00	<1.00	--	--
		08/17/12	47.38	53.99	<1.00	<1.00	<1.00	<1.00	792 QB	32.9	8.39	<1.00	<1.00	--	--
		09/14/12	48.35	53.02	<2.00	<2.00	<2.00	<2.00	46.6	27.5	<2.00	<2.00	<2.00	--	--
		10/10/12	49.55	51.82	<1.00	<1.00	<1.00	<1.00	1.40	<5.00	<1.00	<1.00	<1.00	--	--
		11/14/12	47.81	53.56	<5.00	<5.00	<5.00	5.10	140	<25.0	6.00	<5.00	<5.00	--	--
		12/11/12	48.01	53.36	<2.00	<2.00	<2.00	<2.00	430	<10.0	18.5	<2.00	<2.00	--	--
		01/22/13	47.13	54.24	<2.00	<2.00	<2.00	<2.00	388	<10.0	19.8	<2.00	<2.00	--	--
		02/15/13	45.71	55.66	<1.00	<1.00	<1.00	<2.00	1,340 QK	12.8	87.3	<1.00	<1.00	--	--
		03/26/13	44.91	56.46	<1.00	<1.00	<1.00	<1.00	1,470 QK	<5.00	60.8	<1.00	<1.00	--	--
		04/03/13	45.45	55.92	<2.00	<2.00	<2.00	<2.00	1,360 QK	<10.0	68.0	<2.00	<2.00	--	--
		05/10/13	44.67	56.70	<1.00	<1.00	<1.00	<1.00	63.8	<5.00	<1.00	<1.00	<1.00	--	--
		06/28/13	45.12	56.25	<1.00	<1.00	<1.00	<1.00	2.73	<5.00	<1.00	<1.00	<1.00	--	--
		07/24/13	46.50	54.87	<2.00	<2.00	<2.00	<2.00	<2.00	<10.0	<2.00	<2.00	<2.00	--	--
		08/22/13	47.46	53.91	<1.00	<1.00	<1.00	<1.00	3.62	<5.00	<1.00	<1.00	<1.00	--	--
		09/20/13	48.52	52.85	<2.00	<2.00	<2.00	<2.00	<2.00 VC	<10.0	<2.00	<2.00	<2.00	--	--
		10/11/13	49.13	52.24	<1.00	<1.00	<1.00	<1.00	1.16	<5.00	<1.00	<1.00	<1.00	--	--
		11/13/13	48.97	52.40	<1.00	<1.00	<1.00	<1.00	89.4	<5.00	4.82	<1.00	<1.00	--	--
		12/26/13	48.03	53.34	<1.00	<1.00	<1.00	<1.00	1,370	34.0	102	1.32	<1.00	--	--
		01/29/14	45.90	55.47	<1.00	<1.00	<1.00	<1.00	8.77	<5.00	<1.00	<1.00	<1.00	--	--
		02/25/14	44.44	56.93	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	--	--
		03/19/14	43.88	57.49	<1.00	<1.00	<1.00	<1.00	3.78	<5.00	<1.00	<1.00	<1.00	--	--
		04/03/14	42.97	58.40	--	--	--	--	--	--	--	--	--	--	--
		04/17/14	42.74	58.63	--	--	--	--	--	--	--	--	--	--	--
		05/02/14	41.67	59.70	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	--	--
		05/28/14	40.51	60.86	<1.00	<1.00	<1.00	<1.00	30.4	<5.00	<1.00	<1.00	<1.00	--	--
		06/25/14	41.71	59.66	<1.00	<1.00	<1.00	<1.00	549	<5.00	36.1	<1.00	<1.00	--	--
		07/08/14	42.39	58.98	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	--	--
		08/05/14	43.95	57.42	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	--	--
		10/03/14	46.43	54.94	<1.00	<1.00	<1.00	<1.00	963	13.5	96.2	<1.00	<1.00	--	--
		01/29/15	46.79	54.58	6.23	<1.00	<1.00	<1.00	1,450	38.8	113	1.57	<1.00	--	--
		02/09/15	45.99	55.38	6.41	<1.00	<1.00	<1.00	1,340	36.5	89.6	1.46	<1.00	--	--
		03/27/15	45.28	56.09	1.86	<1.00	<1.00	<1.00	1,380	36.6	119	<1.00	<1.00	--	--
		04/28/15	45.62	55.75	1.56	<1.00	<1.00	<1.00	1,260	36.8	103	1.17	<1.00	--	--
		07/02/15	44.51	56.86	<1.00	<1.00	<1.00	<1.00	796	26.3	77.5	<1.00	<1.00	--	--
		08/13/15	45.39	55.98	<1.00	<1.00	<1.00	<1.00	1,010	12.7	77.5	<1.00	<1.00	--	--
		09/02/15	46.53	54.84	1.54	<1.00	<1.00	<1.00	590	36.8	83.1	<1.00	<1.00	--	--
		10/08/15	47.74	53.63	2.44	<1.00	<1.00	<1.00	1,200	63.9	56.8	<1.00	<1.00	--	--
		10/5/2016	48.95	52.42	ND	ND	ND	ND	1,200	100	72.2	ND	ND	ND	1,375



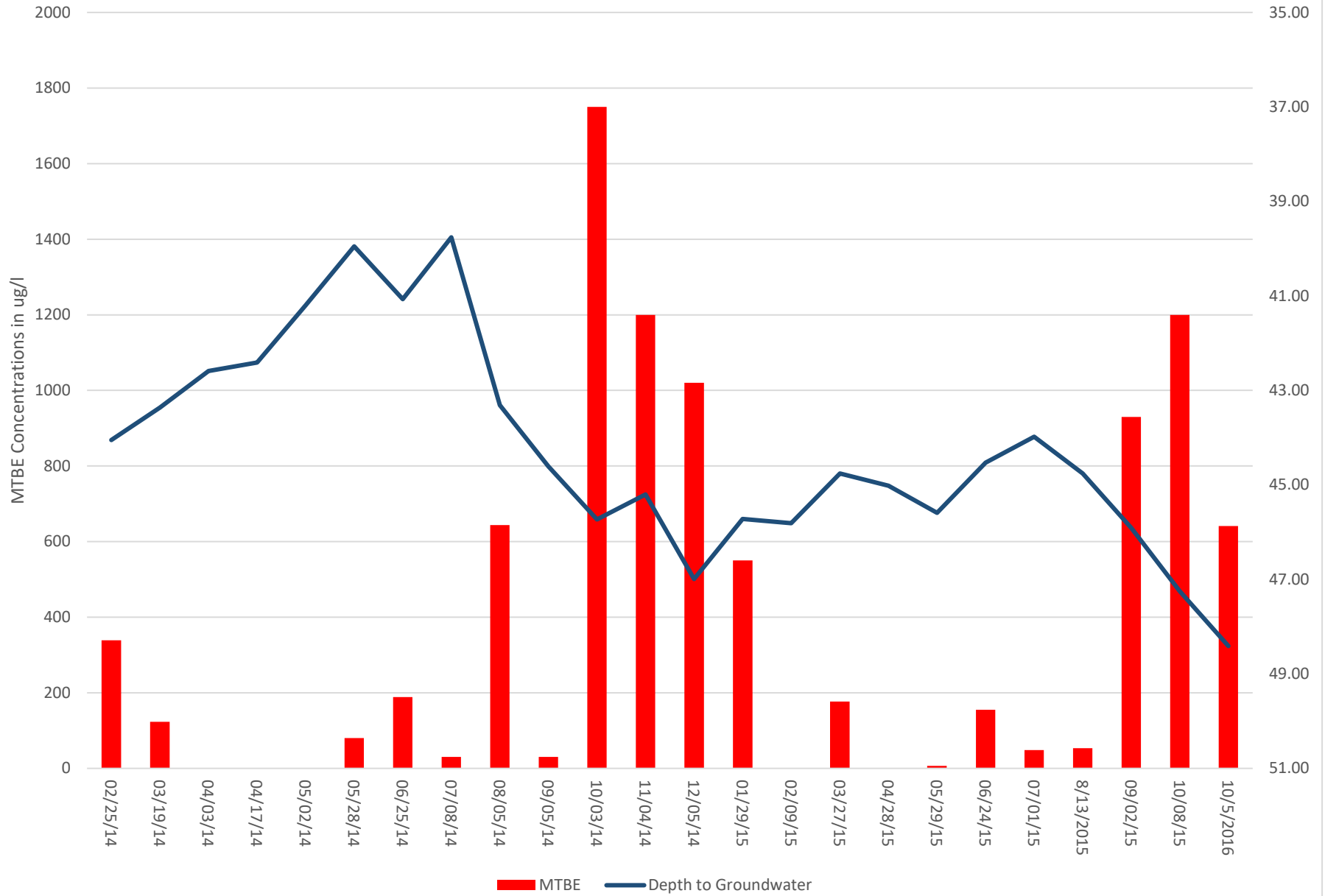
Groundwater Analytical Data Summary  
Tevis Oil- Winfield BP

ID	TOC	Date	Depth to Groundwater	Groundwater Elevation	BENZENE	TOLUENE	Ethyl-benzene	XYLENES	MTBE	TBA	TAME	DIPE	ETBE	TPH-DRO	TPH-GRO
MDE GNCS, Type I and II Aquifers					5	1,000	700	10,000	20	NG	NG	NG	NG	47	47
PW-1 6" steel casing to 68' 4" TOS-13'	101.19	07/13/05	--	--	6.0	<1.0	<1.0	<2.0	1,900	--	--	--	--	--	--
		02/16/07	--	--	33	<0.5	<0.5	15.3	3,320	190	101	1.2	<0.5	<1,000	<1,000
		10/11/07	--	--	40	<4	<4	10 J	3,000	100 J	91	<4	<4	730	3,900
		01/30/08	50.24	50.95	34	<1	<2	13	2,900	85 J	100	2 J	<2	510	4,800
		04/30/08	47.58	53.61	49	<4	<4	19 J	5,100	150 J	180	<4	<4	320	7,100
		07/15/08	46.11	55.08	32	<2	<2	13	4,000	190 J	160	<2	<2	230	5,400
		10/22/08	48.23	52.96	59.6	<1.00	<1.00	19.8	12,200	320	425	<1.00	<1.00	<300	1,110
		02/04/09	46.99	54.20	46.7	<1.00	<1.00	15.8	6,510	807	259	<1.00	<1.00	<40.0	581
		04/27/09	46.98	54.21	92.6	<2.00	<2.00	23.4	6,990	466	212	2.86	<2.00	<40.0	751
		07/20/09	46.23	54.96	42.3	<1.00	<1.00	13.8	8,200	224	210	1.92	<1.00	<40.0	945
		10/20/09	46.48	54.71	57.0	<1.00	15.5	37.3	6,020	216	141	<1.00	<1.00	65.2 J	1,150
		01/20/10	42.21	58.98	35.4	<1.00	9.04	21.9	3,830	172	206	1.83	<1.00	<300	158
		04/29/10	41.45	59.74	<1.00	<1.00	<1.00	<1.00	2,710	71.5	127	<1.00	<1.00	--	--
		07/16/10	45.13	56.06	<1.00	<1.00	<1.00	<1.00	1,710	14.1	52.4	<1.00	<1.00	--	--
		10/11/10	47.77	53.42	1.20	<1.00	<1.00	<1.00	2,920	25.6	57.6	<1.00	<1.00	--	--
		02/11/11	48.67	52.52	6.18	<2.00	<2.00	<2.00	1,440	48.5	57.7	<2.00	<2.00	--	--
		04/07/11	45.90	55.29	4.32	<2.00	<2.00	<2.00	1,600	74.5	87.8	<2.00	<2.00	--	--
		07/21/11	45.12	56.07	2.82	<2.00	<2.00	<2.00	1,280	36.9	49.6	<2.00	<2.00	--	--
		10/25/11	45.59	55.60	9.94	<2.00	<2.00	<2.00	2,770	153	131	<2.00	<2.00	--	--
		01/12/12	43.32	57.87	3.24	<2.00	<2.00	<2.00	1,160	53.1	48.5	<2.00	<2.00	--	--
		04/27/12	45.43	55.76	7.08	<2.00	<2.00	<2.00	1,750	141	177	<2.00	<2.00	--	--
		07/05/12	46.97	54.22	4.94	<2.00	<2.00	<2.00	2,530 QK	182	160	<2.00	<2.00	--	--
		10/10/12	48.57	52.62	<1.00	<1.00	<1.00	<1.00	580	14.8	22.0	<1.00	<1.00	--	--
		01/22/13	47.09	54.10	<2.00	<2.00	<2.00	<2.00	707	<10.0	43.3	<2.00	<2.00	--	--
		04/03/13	44.39	56.80	<2.00	<2.00	<2.00	<2.00	1,060 QK	69.8	61.8	<2.00	<2.00	--	--
		07/24/13	45.88	55.31	<2.00	<2.00	<2.00	<2.00	159	<10.0	5.86	<2.00	<2.00	--	--
		10/11/13	48.05	53.14	<1.00	<1.00	<1.00	<1.00	490	<5.00	5.12	<1.00	<1.00	--	--
		01/24/14	45.92	55.27	1.24	<1.00	<1.00	<1.00	153	<5.00	12.4	<1.00	<1.00	--	--
		05/01/14	41.96	59.23	<1.00	<1.00	<1.00	<1.00	32.8	<5.00	2.06	<1.00 2d	<1.00	--	--
		07/08/14	41.69	59.50	<1.00	<1.00	<1.00	<1.00	59.30	<5.00	2.32	<1.00	<1.00	--	--
		09/05/14	44.27	56.92	4.69	<1.00	<1.00	<1.00	993	9.67	84.4	<1.00	<1.00	--	--
		10/03/14	45.56	55.63	<1.00	<1.00	<1.00	<1.00	21	<5.00	<1.00	<1.00	<1.00	--	--
		11/04/14	46.19	55.00	9.36	<1.00	<1.00	<1.00	1,160	50.9	100	1.11	<1.00	--	--
		12/05/14	46.48	54.71	16.4	<1.00	<1.00	<1.00	1,330	75.9	116	1.06	<1.00	--	--
		15/01/29	45.80	55.39	19.0	<1.00	<1.00	<1.00	1,660	54.3	120	1.73	<1.00	--	--
		02/09/15	44.97	56.22	17.7	<1.00	<1.00	<1.00	1,520	59.4	112	<1.00	<1.00	--	--
		3/27/2015	44.25	56.94	10.6	<1.00	<1.00	<1.00	1,560	83.2	116	1.55	<1.00	--	--
		4/28/2015	44.11	57.08	<1.00	<1.00	<1.00	<1.00	992	18.5	83.1	<1.00	<1.00	--	--
		5/29/2015	45.18	56.01	<1.00	<1.00	<1.00	<1.00	944	143 2e	71.7	<1.00	<1.00	--	--
		6/24/2015	45.08	56.11	1.43	<1.00	<1.00	<1.00	682	20.8	60.7	<1.00	<1.00	--	--
		07/02/15	43.17	58.02	6.49	<1.00	<1.00	<1.00	1,130	44.8	112	1.13	<1.00	--	--
		10/21/2015	47.89	53.30	2.36	<1.00	<1.00	<1.00	1,340	88.0	102	1.13	<1.00	--	--
		10/5/2016	47.87	53.32	ND	ND	ND	ND	136	ND	5.31	ND	ND	ND	145

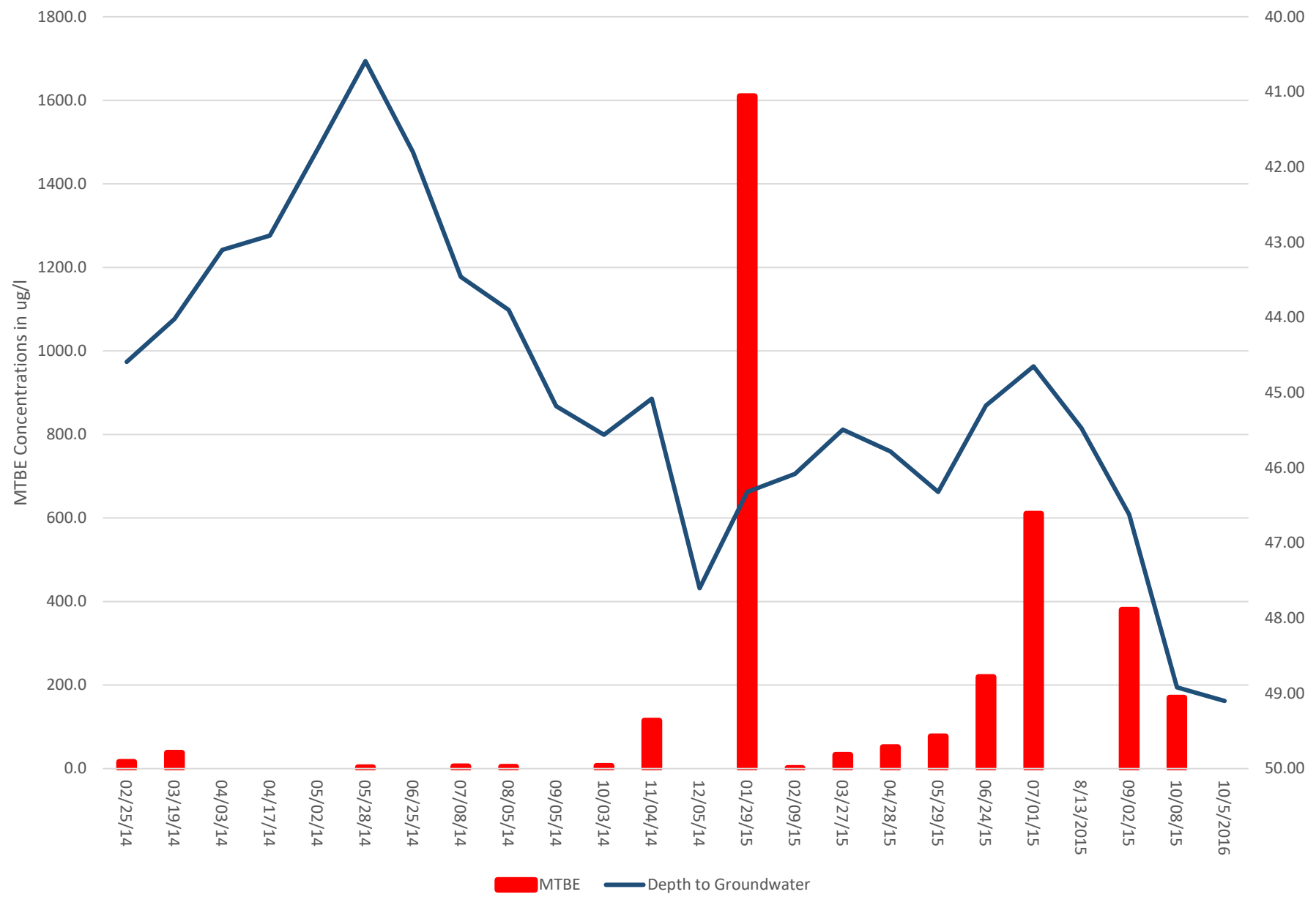
MW-4 DTGW vs MTBE Concentrations



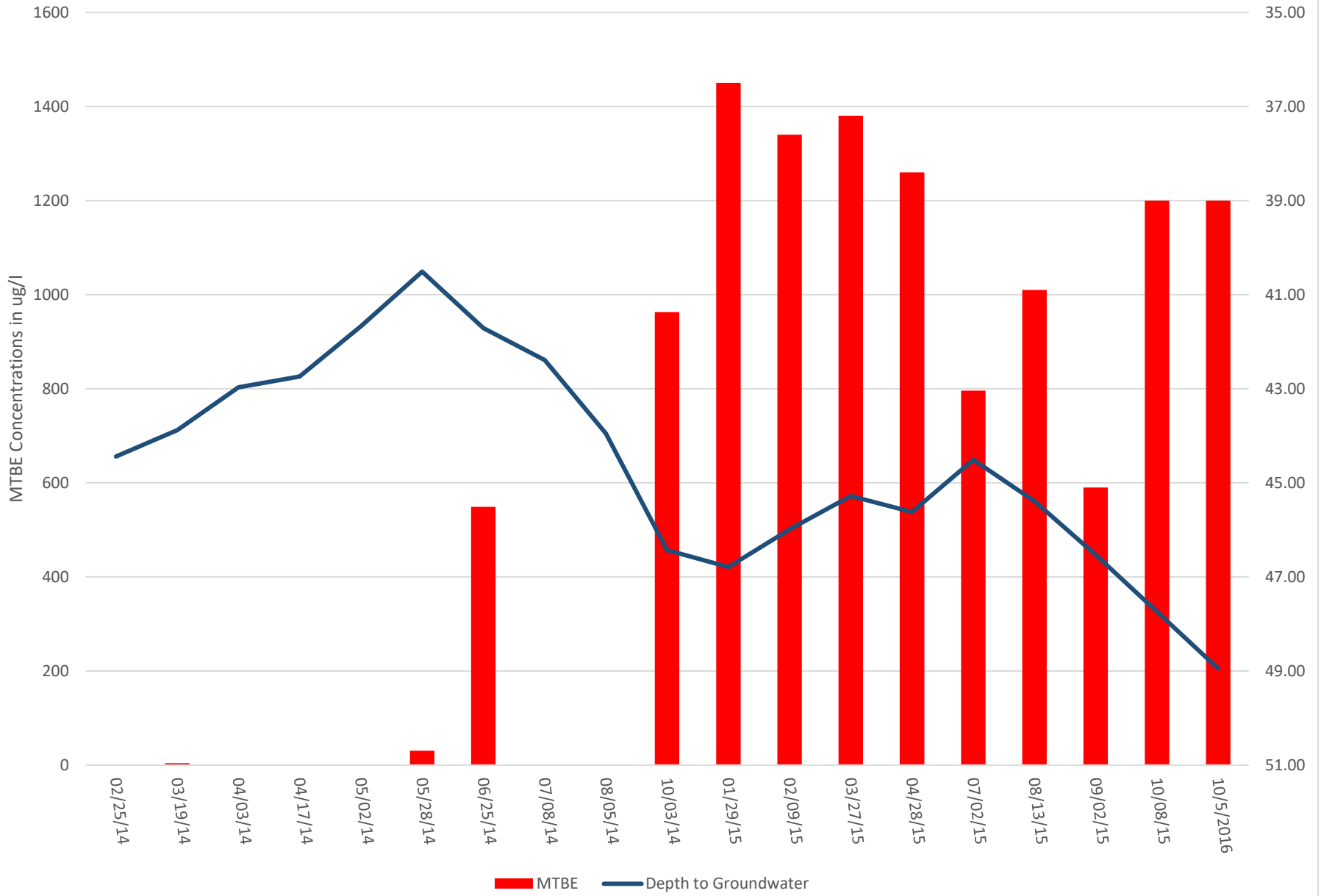
### MW-5s DTGW vs MTBE Concentrations



### MW-7d DTGW vs MTBE Concentrations



MW-8d DTGW vs MTBE Concentrations





**Appendix C**  
**Report of Analysis & Chain of Custody Record**

# ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 1751 Pulaski Highway, Havre de Grace, MD 21078 Phone:410-939-5550 Fax:410-939-5552

## Certificate of Analysis

<b>Sample Identification:</b>	TRIP BLANK	<b>Project Identification:</b>	WINFIELD BP
<b>MATRIX:</b>	water	<b>Client Identification:</b>	TEVIS
<b>Sample Date:</b>	10/5/2016	<b>Client Telephone:</b>	
<b>Date Received:</b>	10/5/2016	<b>Client Fax:</b>	
<b>Extraction Date:</b>	na	<b>Analyst:</b>	MM
<b>Analysis Date:</b>	10/14/2016	<b>Lab File:</b>	101416.D16

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
Dichlorodifluoromethane	0.5	ug/L	ND	EPA 524.2
Chloromethane	0.5	ug/L	ND	EPA 524.2
Vinyl Chloride	0.5	ug/L	ND	EPA 524.2
Bromomethane	0.5	ug/L	ND	EPA 524.2
Chloroethane	0.5	ug/L	ND	EPA 524.2
Trichlorofluoromethane	0.5	ug/L	ND	EPA 524.2
1,1-Dichloroethene	0.5	ug/L	ND	EPA 524.2
tert-Butyl Alcohol (TBA)	10	ug/L	ND	EPA 524.2
Methylene Chloride	0.5	ug/L	ND	EPA 524.2
trans-1,2-Dichloroethene	0.5	ug/L	ND	EPA 524.2
Methyl tert-Butyl Ether (MtBE)	0.5	ug/L	ND	EPA 524.2
1,1-Dichloroethane	0.5	ug/L	ND	EPA 524.2
Diisopropyl Ether (DIPE)	0.5	ug/L	ND	EPA 524.2
cis-1,2-Dichloroethene	0.5	ug/L	ND	EPA 524.2
Bromochloromethane	0.5	ug/L	ND	EPA 524.2
Chloroform	0.5	ug/L	ND	EPA 524.2
2,2-Dichloropropane	0.5	ug/L	ND	EPA 524.2
Ethyl tert-Butyl Ether (EtBE)	0.5	ug/L	ND	EPA 524.2
1,2-Dichloroethane	0.5	ug/L	ND	EPA 524.2
tert-Amyl Alcohol (TAA)	10	ug/L	ND	EPA 524.2
1,1,1-Trichloroethane	0.5	ug/L	ND	EPA 524.2
1,1-Dichloropropene	0.5	ug/L	ND	EPA 524.2
Carbon tetrachloride	0.5	ug/L	ND	EPA 524.2
Benzene	0.5	ug/L	ND	EPA 524.2
tert-Amyl Methyl Ether (TAME)	0.5	ug/L	ND	EPA 524.2
Dibromomethane	0.5	ug/L	ND	EPA 524.2
1,2-Dichloropropane	0.5	ug/L	ND	EPA 524.2
Trichloroethene	0.5	ug/L	ND	EPA 524.2
Bromodichloromethane	0.5	ug/L	ND	EPA 524.2
tert-Amyl Ethyl Ether (TAEE)	0.5	ug/L	ND	EPA 524.2
cis-1,3-Dichloropropene	0.5	ug/L	ND	EPA 524.2
trans-1,3-Dichloropropene	0.5	ug/L	ND	EPA 524.2
1,1,2-Trichloroethane	0.5	ug/L	ND	EPA 524.2
Toluene	0.5	ug/L	ND	EPA 524.2
1,3-Dichloropropane	0.5	ug/L	ND	EPA 524.2
Dibromochloromethane	0.5	ug/L	ND	EPA 524.2
1,2-Dibromoethane	0.5	ug/L	ND	EPA 524.2
Tetrachloroethene	0.5	ug/L	ND	EPA 524.2
1,1,1,2-Tetrachloroethene	0.5	ug/L	ND	EPA 524.2
Chlorobenzene	0.5	ug/L	ND	EPA 524.2
Ethylbenzene	0.5	ug/L	ND	EPA 524.2

# ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 5292 Enterprise Street Suite C, Eldersburg, MD 21784 Phone 410-795-5955 Fax 410-795-9459

## Certificate of Analysis

Sample Identification:	TRIP BLANK	Project Identification:	WINFIELD BP
MATRIX:	water	Client Identification:	TEVIS
Sample Date:	10/5/2016	Client Telephone:	
Date Received:	10/5/2016	Client Fax:	
Extraction Date:	na	Analyst:	MM
Analysis Date:	10/14/2016	Lab File:	101416.D16

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
m&p-Xylene	0.5	ug/L	ND	EPA 524.2
Bromoform	0.5	ug/L	ND	EPA 524.2
Styrene	0.5	ug/L	ND	EPA 524.2
o-Xylene	0.5	ug/L	ND	EPA 524.2
1,1,2,2-Tetrachloroethene	0.5	ug/L	ND	EPA 524.2
1,2,3-Trichloropropane	0.5	ug/L	ND	EPA 524.2
Isopropylbenzene	0.5	ug/L	ND	EPA 524.2
Bromobenzene	0.5	ug/L	ND	EPA 524.2
n-Propylbenzene	0.5	ug/L	ND	EPA 524.2
2-Chlorotoluene	0.5	ug/L	ND	EPA 524.2
4-Chlorotoluene	0.5	ug/L	ND	EPA 524.2
1,3,5-Trimethylbenzene	0.5	ug/L	ND	EPA 524.2
tert-Butylbenzene	0.5	ug/L	ND	EPA 524.2
1,2,4-Trimethylbenzene	0.5	ug/L	ND	EPA 524.2
sec-Butylbenzene	0.5	ug/L	ND	EPA 524.2
1,3-Dichlorobenzene	0.5	ug/L	ND	EPA 524.2
1,4-Dichlorobenzene	0.5	ug/L	ND	EPA 524.2
1,2-Dichlorobenzene	0.5	ug/L	ND	EPA 524.2
p-iso-Propyltoluene	0.5	ug/L	ND	EPA 524.2
n-Butylbenzene	0.5	ug/L	ND	EPA 524.2
1,2-Dibromo-3-chloropropane	0.5	ug/L	ND	EPA 524.2
1,2,4-Trichlorobenzene	0.5	ug/L	ND	EPA 524.2
Naphthalene	0.5	ug/L	ND	EPA 524.2
Hexachlorobutadiene	0.5	ug/L	ND	EPA 524.2
1,2,3-Trichlorobenzene	0.5	ug/L	ND	EPA 524.2

### SURROGATE SPIKE

1,2-Dichloroethane-d4	%		120	EPA 524.2
Dibromofluoromethane	%		128	EPA 524.2
Toluene-d8	%		79	EPA 524.2
Bromofluorobenzene	%		99	EPA 524.2

MDE Drinking Water Supply Laboratory Certification #333

# ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 1751 Pulaski Highway, Havre de Grace, MD 21078 Phone:410-939-5550 Fax:410-939-5552

## Certificate of Analysis

<b>Sample Identification:</b>	<b>DSW</b>	<b>Project Identification:</b>	<b>WINFIELD BP</b>
<b>MATRIX:</b>	<b>water</b>	<b>Client Identification:</b>	<b>TEVIS</b>
<b>Sample Date:</b>	<b>10/5/2016</b>	<b>Client Telephone:</b>	
<b>Date Received:</b>	<b>10/5/2016</b>	<b>Client Fax:</b>	
<b>Extraction Date:</b>	<b>na</b>	<b>Analyst:</b>	<b>MM</b>
<b>Analysis Date:</b>	<b>10/14/2016</b>	<b>Lab File:</b>	<b>101416.D17</b>

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
Dichlorodifluoromethane	0.5	ug/L	ND	EPA 524.2
Chloromethane	0.5	ug/L	ND	EPA 524.2
Vinyl Chloride	0.5	ug/L	ND	EPA 524.2
Bromomethane	0.5	ug/L	ND	EPA 524.2
Chloroethane	0.5	ug/L	ND	EPA 524.2
Trichlorofluoromethane	0.5	ug/L	ND	EPA 524.2
1,1-Dichloroethene	0.5	ug/L	ND	EPA 524.2
tert-Butyl Alcohol (TBA)	10	ug/L	ND	EPA 524.2
Methylene Chloride	0.5	ug/L	ND	EPA 524.2
trans-1,2-Dichloroethene	0.5	ug/L	ND	EPA 524.2
Methyl tert-Butyl Ether (MtBE)	0.5	ug/L	ND	EPA 524.2
1,1-Dichloroethane	0.5	ug/L	ND	EPA 524.2
Diisopropyl Ether (DIPE)	0.5	ug/L	ND	EPA 524.2
cis-1,2-Dichloroethene	0.5	ug/L	ND	EPA 524.2
Bromochloromethane	0.5	ug/L	ND	EPA 524.2
Chloroform	0.5	ug/L	ND	EPA 524.2
2,2-Dichloropropane	0.5	ug/L	ND	EPA 524.2
Ethyl tert-Butyl Ether (EtBE)	0.5	ug/L	ND	EPA 524.2
1,2-Dichloroethane	0.5	ug/L	ND	EPA 524.2
tert-Amyl Alcohol (TAA)	10	ug/L	ND	EPA 524.2
1,1,1-Trichloroethane	0.5	ug/L	ND	EPA 524.2
1,1-Dichloropropene	0.5	ug/L	ND	EPA 524.2
Carbon tetrachloride	0.5	ug/L	ND	EPA 524.2
Benzene	0.5	ug/L	ND	EPA 524.2
tert-Amyl Methyl Ether (TAME)	0.5	ug/L	ND	EPA 524.2
Dibromomethane	0.5	ug/L	ND	EPA 524.2
1,2-Dichloropropane	0.5	ug/L	ND	EPA 524.2
Trichloroethene	0.5	ug/L	ND	EPA 524.2
Bromodichloromethane	0.5	ug/L	ND	EPA 524.2
tert-Amyl Ethyl Ether (TAEE)	0.5	ug/L	ND	EPA 524.2
cis-1,3-Dichloropropene	0.5	ug/L	ND	EPA 524.2
trans-1,3-Dichloropropene	0.5	ug/L	ND	EPA 524.2
1,1,2-Trichloroethane	0.5	ug/L	ND	EPA 524.2
Toluene	0.5	ug/L	ND	EPA 524.2
1,3-Dichloropropane	0.5	ug/L	ND	EPA 524.2
Dibromochloromethane	0.5	ug/L	ND	EPA 524.2
1,2-Dibromoethane	0.5	ug/L	ND	EPA 524.2
Tetrachloroethene	0.5	ug/L	ND	EPA 524.2
1,1,1,2-Tetrachloroethene	0.5	ug/L	ND	EPA 524.2
Chlorobenzene	0.5	ug/L	ND	EPA 524.2
Ethylbenzene	0.5	ug/L	ND	EPA 524.2

# ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 5292 Enterprise Street Suite C, Eldersburg, MD 21784 Phone 410-795-5955 Fax 410-795-9459

## Certificate of Analysis

Sample Identification:	DSW	Project Identification:	WINFIELD BP
MATRIX:	water	Client Identification:	TEVIS
Sample Date:	10/5/2016	Client Telephone:	
Date Received:	10/5/2016	Client Fax:	
Extraction Date:	na	Analyst:	MM
Analysis Date:	10/14/2016	Lab File:	101416.D17

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
m&p-Xylene	0.5	ug/L	ND	EPA 524.2
Bromoform	0.5	ug/L	ND	EPA 524.2
Styrene	0.5	ug/L	ND	EPA 524.2
o-Xylene	0.5	ug/L	ND	EPA 524.2
1,1,2,2-Tetrachloroethene	0.5	ug/L	ND	EPA 524.2
1,2,3-Trichloropropane	0.5	ug/L	ND	EPA 524.2
Isopropylbenzene	0.5	ug/L	ND	EPA 524.2
Bromobenzene	0.5	ug/L	ND	EPA 524.2
n-Propylbenzene	0.5	ug/L	ND	EPA 524.2
2-Chlorotoluene	0.5	ug/L	ND	EPA 524.2
4-Chlorotoluene	0.5	ug/L	ND	EPA 524.2
1,3,5-Trimethylbenzene	0.5	ug/L	ND	EPA 524.2
tert-Butylbenzene	0.5	ug/L	ND	EPA 524.2
1,2,4-Trimethylbenzene	0.5	ug/L	ND	EPA 524.2
sec-Butylbenzene	0.5	ug/L	ND	EPA 524.2
1,3-Dichlorobenzene	0.5	ug/L	ND	EPA 524.2
1,4-Dichlorobenzene	0.5	ug/L	ND	EPA 524.2
1,2-Dichlorobenzene	0.5	ug/L	ND	EPA 524.2
p-iso-Propyltoluene	0.5	ug/L	ND	EPA 524.2
n-Butylbenzene	0.5	ug/L	ND	EPA 524.2
1,2-Dibromo-3-chloropropane	0.5	ug/L	ND	EPA 524.2
1,2,4-Trichlorobenzene	0.5	ug/L	ND	EPA 524.2
Naphthalene	0.5	ug/L	ND	EPA 524.2
Hexachlorobutadiene	0.5	ug/L	ND	EPA 524.2
1,2,3-Trichlorobenzene	0.5	ug/L	ND	EPA 524.2

### SURROGATE SPIKE

1,2-Dichloroethane-d4	%	121	EPA 524.2
Dibromofluoromethane	%	129	EPA 524.2
Toluene-d8	%	80	EPA 524.2
Bromofluorobenzene	%	100	EPA 524.2

MDE Drinking Water Supply Laboratory Certification #333

# ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 1751 Pulaski Highway, Havre de Grace, MD 21078 Phone:410-939-5550 Fax:410-939-5552

## Certificate of Analysis

<b>Sample Identification:</b>	<b>MW-1</b>	<b>Project Identification:</b>	<b>WINFIELD BP</b>
<b>MATRIX:</b>	<b>water</b>	<b>Client Identification:</b>	<b>TEVIS</b>
<b>Sample Date:</b>	<b>10/5/2016</b>	<b>Client Telephone:</b>	
<b>Date Received:</b>	<b>10/5/2016</b>	<b>Client Fax:</b>	
<b>Extraction Date:</b>	<b>10/12/2016</b>	<b>Analyst:</b>	<b>MM</b>
<b>Analysis Date:</b>	<b>10/14/2016</b>	<b>Lab File:</b>	<b>101416.D18</b>

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
Dichlorodifluoromethane	5	ug/L	ND	EPA 8260
Chloromethane	5	ug/L	ND	EPA 8260
Vinyl Chloride	5	ug/L	ND	EPA 8260
Bromomethane	5	ug/L	ND	EPA 8260
Chloroethane	5	ug/L	ND	EPA 8260
Trichlorofluoromethane	5	ug/L	ND	EPA 8260
1,1-Dichloroethene	5	ug/L	ND	EPA 8260
tert-Butyl Alcohol (TBA)	50	ug/L	ND	EPA 8260
Methylene Chloride	5	ug/L	ND	EPA 8260
trans-1,2-Dichloroethene	5	ug/L	ND	EPA 8260
Methyl tert-Butyl Ether (MtBE)	5	ug/L	ND	EPA 8260
1,1-Dichloroethane	5	ug/L	ND	EPA 8260
Diisopropyl Ether (DIPE)	5	ug/L	ND	EPA 8260
cis-1,2-Dichloroethene	5	ug/L	ND	EPA 8260
Bromochloromethane	5	ug/L	ND	EPA 8260
Chloroform	5	ug/L	ND	EPA 8260
2,2-Dichloropropane	5	ug/L	ND	EPA 8260
Ethyl tert-Butyl Ether (EtBE)	5	ug/L	ND	EPA 8260
1,2-Dichloroethane	5	ug/L	ND	EPA 8260
tert-Amyl Alcohol (TAA)	50	ug/L	ND	EPA 8260
1,1,1-Trichloroethane	5	ug/L	ND	EPA 8260
1,1-Dichloropropene	5	ug/L	ND	EPA 8260
Carbon tetrachloride	5	ug/L	ND	EPA 8260
Benzene	5	ug/L	ND	EPA 8260
tert-Amyl Methyl Ether (TAME)	5	ug/L	ND	EPA 8260
Dibromomethane	5	ug/L	ND	EPA 8260
1,2-Dichloropropane	5	ug/L	ND	EPA 8260
Trichloroethene	5	ug/L	ND	EPA 8260
Bromodichloromethane	5	ug/L	ND	EPA 8260
tert-Amyl Ethyl Ether (TAEE)	5	ug/L	ND	EPA 8260
cis-1,3-Dichloropropene	5	ug/L	ND	EPA 8260
trans-1,3-Dichloropropene	5	ug/L	ND	EPA 8260
1,1,2-Trichloroethane	5	ug/L	ND	EPA 8260
Toluene	5	ug/L	ND	EPA 8260
1,3-Dichloropropane	5	ug/L	ND	EPA 8260
Dibromochloromethane	5	ug/L	ND	EPA 8260
1,2-Dibromoethane	5	ug/L	ND	EPA 8260
Tetrachloroethene	5	ug/L	ND	EPA 8260
1,1,1,2-Tetrachloroethene	5	ug/L	ND	EPA 8260
Chlorobenzene	5	ug/L	ND	EPA 8260
Ethylbenzene	5	ug/L	ND	EPA 8260

# ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 5292 Enterprise Street Suite C, Eldersburg, MD 21784 Phone 410-795-5955 Fax 410-795-9459

## Certificate of Analysis

<b>Sample Identification:</b>	<b>MW-1</b>	<b>Project Identification:</b>	<b>WINFIELD BP</b>
<b>MATRIX:</b>	<b>water</b>	<b>Client Identification:</b>	<b>TEVIS</b>
<b>Sample Date:</b>	<b>10/5/2016</b>	<b>Client Telephone:</b>	
<b>Date Received:</b>	<b>10/5/2016</b>	<b>Client Fax:</b>	
<b>Extraction Date:</b>	<b>10/12/2016</b>	<b>Analyst:</b>	
<b>Analysis Date:</b>	<b>10/14/2016</b>	<b>Lab File:</b>	<b>101416.D18</b>

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
m&p-Xylene	5	ug/L	ND	EPA 8260
Bromoform	5	ug/L	ND	EPA 8260
Styrene	5	ug/L	ND	EPA 8260
o-Xylene	5	ug/L	ND	EPA 8260
1,1,2,2-Tetrachloroethane	5	ug/L	ND	EPA 8260
1,2,3-Trichloropropane	5	ug/L	ND	EPA 8260
Isopropylbenzene	5	ug/L	ND	EPA 8260
Bromobenzene	5	ug/L	ND	EPA 8260
n-Propylbenzene	5	ug/L	ND	EPA 8260
2-Chlorotoluene	5	ug/L	ND	EPA 8260
4-Chlorotoluene	5	ug/L	ND	EPA 8260
1,3,5-Trimethylbenzene	5	ug/L	ND	EPA 8260
tert-Butylbenzene	5	ug/L	ND	EPA 8260
1,2,4-Trimethylbenzene	5	ug/L	ND	EPA 8260
sec-Butylbenzene	5	ug/L	ND	EPA 8260
1,3-Dichlorobenzene	5	ug/L	ND	EPA 8260
1,4-Dichlorobenzene	5	ug/L	ND	EPA 8260
1,2-Dichlorobenzene	5	ug/L	ND	EPA 8260
p-iso-Propyltoluene	5	ug/L	ND	EPA 8260
n-Butylbenzene	5	ug/L	ND	EPA 8260
1,2-Dibromo-3-chloropropane	5	ug/L	ND	EPA 8260
1,2,4-Trichlorobenzene	5	ug/L	ND	EPA 8260
Naphthalene	5	ug/L	ND	EPA 8260
Hexachlorobutadiene	5	ug/L	ND	EPA 8260
1,2,3-Trichlorobenzene	5	ug/L	ND	EPA 8260
TPH GRO	100	ug/L	ND	EPA 8015B
TPH DRO	500	ug/L	ND	EPA 8015B

### SURROGATE SPIKE

1,2-Dichloroethane-d4		%	123	EPA 8260
Dibromofluoromethane		%	129	EPA 8260
TFT		%	93	EPA 8015B
Toluene-d8		%	81	EPA 8260
Bromofluorobenzene		%	100	EPA 8260

# ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 1751 Pulaski Highway, Havre de Grace, MD 21078 Phone:410-939-5550 Fax:410-939-5552

## Certificate of Analysis

<b>Sample Identification:</b>	<b>MW-2</b>	<b>Project Identification:</b>	<b>WINFIELD BP</b>
<b>MATRIX:</b>	<b>water</b>	<b>Client Identification:</b>	<b>TEVIS</b>
<b>Sample Date:</b>	<b>10/5/2016</b>	<b>Client Telephone:</b>	
<b>Date Received:</b>	<b>10/5/2016</b>	<b>Client Fax:</b>	
<b>Extraction Date:</b>	<b>10/12/2016</b>	<b>Analyst:</b>	<b>MM</b>
<b>Analysis Date:</b>	<b>10/14/2016</b>	<b>Lab File:</b>	<b>101416.D19</b>

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
Dichlorodifluoromethane	5	ug/L	ND	EPA 8260
Chloromethane	5	ug/L	ND	EPA 8260
Vinyl Chloride	5	ug/L	ND	EPA 8260
Bromomethane	5	ug/L	ND	EPA 8260
Chloroethane	5	ug/L	ND	EPA 8260
Trichlorofluoromethane	5	ug/L	ND	EPA 8260
1,1-Dichloroethene	5	ug/L	ND	EPA 8260
tert-Butyl Alcohol (TBA)	50	ug/L	ND	EPA 8260
Methylene Chloride	5	ug/L	ND	EPA 8260
trans-1,2-Dichloroethene	5	ug/L	ND	EPA 8260
Methyl tert-Butyl Ether (MtBE)	5	ug/L	ND	EPA 8260
1,1-Dichloroethane	5	ug/L	ND	EPA 8260
Diisopropyl Ether (DIPE)	5	ug/L	ND	EPA 8260
cis-1,2-Dichloroethene	5	ug/L	ND	EPA 8260
Bromochloromethane	5	ug/L	ND	EPA 8260
Chloroform	5	ug/L	ND	EPA 8260
2,2-Dichloropropane	5	ug/L	ND	EPA 8260
Ethyl tert-Butyl Ether (EtBE)	5	ug/L	ND	EPA 8260
1,2-Dichloroethane	5	ug/L	ND	EPA 8260
tert-Amyl Alcohol (TAA)	50	ug/L	ND	EPA 8260
1,1,1-Trichloroethane	5	ug/L	ND	EPA 8260
1,1-Dichloropropene	5	ug/L	ND	EPA 8260
Carbon tetrachloride	5	ug/L	ND	EPA 8260
Benzene	5	ug/L	ND	EPA 8260
tert-Amyl Methyl Ether (TAME)	5	ug/L	ND	EPA 8260
Dibromomethane	5	ug/L	ND	EPA 8260
1,2-Dichloropropane	5	ug/L	ND	EPA 8260
Trichloroethene	5	ug/L	ND	EPA 8260
Bromodichloromethane	5	ug/L	ND	EPA 8260
tert-Amyl Ethyl Ether (TAEE)	5	ug/L	ND	EPA 8260
cis-1,3-Dichloropropene	5	ug/L	ND	EPA 8260
trans-1,3-Dichloropropene	5	ug/L	ND	EPA 8260
1,1,2-Trichloroethane	5	ug/L	ND	EPA 8260
Toluene	5	ug/L	ND	EPA 8260
1,3-Dichloropropane	5	ug/L	ND	EPA 8260
Dibromochloromethane	5	ug/L	ND	EPA 8260
1,2-Dibromoethane	5	ug/L	ND	EPA 8260
Tetrachloroethene	5	ug/L	ND	EPA 8260
1,1,1,2-Tetrachloroethene	5	ug/L	ND	EPA 8260
Chlorobenzene	5	ug/L	ND	EPA 8260
Ethylbenzene	5	ug/L	ND	EPA 8260



# ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 5292 Enterprise Street Suite C, Eldersburg, MD 21784 Phone 410-795-5955 Fax 410-795-9459

## Certificate of Analysis

Sample Identification:	MW-2	Project Identification:	WINFIELD BP
MATRIX:	water	Client Identification:	TEVIS
Sample Date:	10/5/2016	Client Telephone:	
Date Received:	10/5/2016	Client Fax:	
Extraction Date:	10/12/2016	Analyst:	
Analysis Date:	10/14/2016	Lab File:	101416.D19

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
m&p-Xylene	5	ug/L	ND	EPA 8260
Bromoform	5	ug/L	ND	EPA 8260
Styrene	5	ug/L	ND	EPA 8260
o-Xylene	5	ug/L	ND	EPA 8260
1,1,2,2-Tetrachloroethane	5	ug/L	ND	EPA 8260
1,2,3-Trichloropropane	5	ug/L	ND	EPA 8260
Isopropylbenzene	5	ug/L	ND	EPA 8260
Bromobenzene	5	ug/L	ND	EPA 8260
n-Propylbenzene	5	ug/L	ND	EPA 8260
2-Chlorotoluene	5	ug/L	ND	EPA 8260
4-Chlorotoluene	5	ug/L	ND	EPA 8260
1,3,5-Trimethylbenzene	5	ug/L	ND	EPA 8260
tert-Butylbenzene	5	ug/L	ND	EPA 8260
1,2,4-Trimethylbenzene	5	ug/L	ND	EPA 8260
sec-Butylbenzene	5	ug/L	ND	EPA 8260
1,3-Dichlorobenzene	5	ug/L	ND	EPA 8260
1,4-Dichlorobenzene	5	ug/L	ND	EPA 8260
1,2-Dichlorobenzene	5	ug/L	ND	EPA 8260
p-iso-Propyltoluene	5	ug/L	ND	EPA 8260
n-Butylbenzene	5	ug/L	ND	EPA 8260
1,2-Dibromo-3-chloropropane	5	ug/L	ND	EPA 8260
1,2,4-Trichlorobenzene	5	ug/L	ND	EPA 8260
Naphthalene	5	ug/L	ND	EPA 8260
Hexachlorobutadiene	5	ug/L	ND	EPA 8260
1,2,3-Trichlorobenzene	5	ug/L	ND	EPA 8260
TPH GRO	100	ug/L	ND	EPA 8015B
TPH DRO	500	ug/L	ND	EPA 8015B

### SURROGATE SPIKE

1,2-Dichloroethane-d4	%		123	EPA 8260
Dibromofluoromethane	%		128	EPA 8260
TFT	%		94	EPA 8015B
Toluene-d8	%		80	EPA 8260
Bromofluorobenzene	%		103	EPA 8260

# ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 1751 Pulaski Highway, Havre de Grace, MD 21078 Phone:410-939-5550 Fax:410-939-5552

## Certificate of Analysis

<b>Sample Identification:</b>	<b>MW-3</b>	<b>Project Identification:</b>	<b>WINFIELD BP</b>
<b>MATRIX:</b>	<b>water</b>	<b>Client Identification:</b>	<b>TEVIS</b>
<b>Sample Date:</b>	<b>10/5/2016</b>	<b>Client Telephone:</b>	
<b>Date Received:</b>	<b>10/5/2016</b>	<b>Client Fax:</b>	
<b>Extraction Date:</b>	<b>10/12/2016</b>	<b>Analyst:</b>	<b>MM</b>
<b>Analysis Date:</b>	<b>10/14/2016</b>	<b>Lab File:</b>	<b>101416.D20</b>

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
Dichlorodifluoromethane	5	ug/L	ND	EPA 8260
Chloromethane	5	ug/L	ND	EPA 8260
Vinyl Chloride	5	ug/L	ND	EPA 8260
Bromomethane	5	ug/L	ND	EPA 8260
Chloroethane	5	ug/L	ND	EPA 8260
Trichlorofluoromethane	5	ug/L	ND	EPA 8260
1,1-Dichloroethene	5	ug/L	ND	EPA 8260
tert-Butyl Alcohol (TBA)	50	ug/L	ND	EPA 8260
Methylene Chloride	5	ug/L	ND	EPA 8260
trans-1,2-Dichloroethene	5	ug/L	ND	EPA 8260
Methyl tert-Butyl Ether (MtBE)	5	ug/L	ND	EPA 8260
1,1-Dichloroethane	5	ug/L	ND	EPA 8260
Diisopropyl Ether (DIPE)	5	ug/L	ND	EPA 8260
cis-1,2-Dichloroethene	5	ug/L	ND	EPA 8260
Bromochloromethane	5	ug/L	ND	EPA 8260
Chloroform	5	ug/L	ND	EPA 8260
2,2-Dichloropropane	5	ug/L	ND	EPA 8260
Ethyl tert-Butyl Ether (EtBE)	5	ug/L	ND	EPA 8260
1,2-Dichloroethane	5	ug/L	ND	EPA 8260
tert-Amyl Alcohol (TAA)	50	ug/L	ND	EPA 8260
1,1,1-Trichloroethane	5	ug/L	ND	EPA 8260
1,1-Dichloropropene	5	ug/L	ND	EPA 8260
Carbon tetrachloride	5	ug/L	ND	EPA 8260
Benzene	5	ug/L	ND	EPA 8260
tert-Amyl Methyl Ether (TAME)	5	ug/L	ND	EPA 8260
Dibromomethane	5	ug/L	ND	EPA 8260
1,2-Dichloropropane	5	ug/L	ND	EPA 8260
Trichloroethene	5	ug/L	ND	EPA 8260
Bromodichloromethane	5	ug/L	ND	EPA 8260
tert-Amyl Ethyl Ether (TAEE)	5	ug/L	ND	EPA 8260
cis-1,3-Dichloropropene	5	ug/L	ND	EPA 8260
trans-1,3-Dichloropropene	5	ug/L	ND	EPA 8260
1,1,2-Trichloroethane	5	ug/L	ND	EPA 8260
Toluene	5	ug/L	ND	EPA 8260
1,3-Dichloropropane	5	ug/L	ND	EPA 8260
Dibromochloromethane	5	ug/L	ND	EPA 8260
1,2-Dibromoethane	5	ug/L	ND	EPA 8260
Tetrachloroethene	5	ug/L	ND	EPA 8260
1,1,1,2-Tetrachloroethene	5	ug/L	ND	EPA 8260
Chlorobenzene	5	ug/L	ND	EPA 8260
Ethylbenzene	5	ug/L	ND	EPA 8260

# ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 5292 Enterprise Street Suite C, Eldersburg, MD 21784 Phone 410-795-5955 Fax 410-795-9459

## Certificate of Analysis

Sample Identification:	MW-3	Project Identification:	WINFIELD BP
MATRIX:	water	Client Identification:	TEVIS
Sample Date:	10/5/2016	Client Telephone:	
Date Received:	10/5/2016	Client Fax:	
Extraction Date:	10/12/2016	Analyst:	
Analysis Date:	10/14/2016	Lab File:	101416.D20

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
m&p-Xylene	5	ug/L	ND	EPA 8260
Bromoform	5	ug/L	ND	EPA 8260
Styrene	5	ug/L	ND	EPA 8260
o-Xylene	5	ug/L	ND	EPA 8260
1,1,2,2-Tetrachloroethane	5	ug/L	ND	EPA 8260
1,2,3-Trichloropropane	5	ug/L	ND	EPA 8260
Isopropylbenzene	5	ug/L	ND	EPA 8260
Bromobenzene	5	ug/L	ND	EPA 8260
n-Propylbenzene	5	ug/L	ND	EPA 8260
2-Chlorotoluene	5	ug/L	ND	EPA 8260
4-Chlorotoluene	5	ug/L	ND	EPA 8260
1,3,5-Trimethylbenzene	5	ug/L	ND	EPA 8260
tert-Butylbenzene	5	ug/L	ND	EPA 8260
1,2,4-Trimethylbenzene	5	ug/L	ND	EPA 8260
sec-Butylbenzene	5	ug/L	ND	EPA 8260
1,3-Dichlorobenzene	5	ug/L	ND	EPA 8260
1,4-Dichlorobenzene	5	ug/L	ND	EPA 8260
1,2-Dichlorobenzene	5	ug/L	ND	EPA 8260
p-iso-Propyltoluene	5	ug/L	ND	EPA 8260
n-Butylbenzene	5	ug/L	ND	EPA 8260
1,2-Dibromo-3-chloropropane	5	ug/L	ND	EPA 8260
1,2,4-Trichlorobenzene	5	ug/L	ND	EPA 8260
Naphthalene	5	ug/L	ND	EPA 8260
Hexachlorobutadiene	5	ug/L	ND	EPA 8260
1,2,3-Trichlorobenzene	5	ug/L	ND	EPA 8260
TPH GRO	100	ug/L	ND	EPA 8015B
TPH DRO	500	ug/L	ND	EPA 8015B

### SURROGATE SPIKE

1,2-Dichloroethane-d4		%	122	EPA 8260
Dibromofluoromethane		%	128	EPA 8260
TFT		%	93	EPA 8015B
Toluene-d8		%	80	EPA 8260
Bromofluorobenzene		%	99	EPA 8260

# ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 1751 Pulaski Highway, Havre de Grace, MD 21078 Phone:410-939-5550 Fax:410-939-5552

## Certificate of Analysis

<b>Sample Identification:</b>	<b>MW-4</b>	<b>Project Identification:</b>	<b>WINFIELD BP</b>
<b>MATRIX:</b>	<b>water</b>	<b>Client Identification:</b>	<b>TEVIS</b>
<b>Sample Date:</b>	<b>10/5/2016</b>	<b>Client Telephone:</b>	
<b>Date Received:</b>	<b>10/5/2016</b>	<b>Client Fax:</b>	
<b>Extraction Date:</b>	<b>10/12/2016</b>	<b>Analyst:</b>	<b>MM</b>
<b>Analysis Date:</b>	<b>10/14/2016</b>	<b>Lab File:</b>	<b>101416.D21</b>

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
Dichlorodifluoromethane	5	ug/L	ND	EPA 8260
Chloromethane	5	ug/L	ND	EPA 8260
Vinyl Chloride	5	ug/L	ND	EPA 8260
Bromomethane	5	ug/L	ND	EPA 8260
Chloroethane	5	ug/L	ND	EPA 8260
Trichlorofluoromethane	5	ug/L	ND	EPA 8260
1,1-Dichloroethene	5	ug/L	ND	EPA 8260
tert-Butyl Alcohol (TBA)	50	ug/L	ND	EPA 8260
Methylene Chloride	5	ug/L	ND	EPA 8260
trans-1,2-Dichloroethene	5	ug/L	ND	EPA 8260
Methyl tert-Butyl Ether (MtBE)	5	ug/L	17.6	EPA 8260
1,1-Dichloroethane	5	ug/L	ND	EPA 8260
Diisopropyl Ether (DIPE)	5	ug/L	ND	EPA 8260
cis-1,2-Dichloroethene	5	ug/L	ND	EPA 8260
Bromochloromethane	5	ug/L	ND	EPA 8260
Chloroform	5	ug/L	ND	EPA 8260
2,2-Dichloropropane	5	ug/L	ND	EPA 8260
Ethyl tert-Butyl Ether (EtBE)	5	ug/L	ND	EPA 8260
1,2-Dichloroethane	5	ug/L	ND	EPA 8260
tert-Amyl Alcohol (TAA)	50	ug/L	ND	EPA 8260
1,1,1-Trichloroethane	5	ug/L	ND	EPA 8260
1,1-Dichloropropene	5	ug/L	ND	EPA 8260
Carbon tetrachloride	5	ug/L	ND	EPA 8260
Benzene	5	ug/L	ND	EPA 8260
tert-Amyl Methyl Ether (TAME)	5	ug/L	ND	EPA 8260
Dibromomethane	5	ug/L	ND	EPA 8260
1,2-Dichloropropane	5	ug/L	ND	EPA 8260
Trichloroethene	5	ug/L	ND	EPA 8260
Bromodichloromethane	5	ug/L	ND	EPA 8260
tert-Amyl Ethyl Ether (TAEE)	5	ug/L	ND	EPA 8260
cis-1,3-Dichloropropene	5	ug/L	ND	EPA 8260
trans-1,3-Dichloropropene	5	ug/L	ND	EPA 8260
1,1,2-Trichloroethane	5	ug/L	ND	EPA 8260
Toluene	5	ug/L	ND	EPA 8260
1,3-Dichloropropane	5	ug/L	ND	EPA 8260
Dibromochloromethane	5	ug/L	ND	EPA 8260
1,2-Dibromoethane	5	ug/L	ND	EPA 8260
Tetrachloroethene	5	ug/L	ND	EPA 8260
1,1,1,2-Tetrachloroethene	5	ug/L	ND	EPA 8260
Chlorobenzene	5	ug/L	ND	EPA 8260
Ethylbenzene	5	ug/L	ND	EPA 8260

# ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 5292 Enterprise Street Suite C, Eldersburg, MD 21784 Phone 410-795-5955 Fax 410-795-9459

## Certificate of Analysis

Sample Identification:	MW-4	Project Identification:	WINFIELD BP
MATRIX:	water	Client Identification:	TEVIS
Sample Date:	10/5/2016	Client Telephone:	
Date Received:	10/5/2016	Client Fax:	
Extraction Date:	10/12/2016	Analyst:	
Analysis Date:	10/14/2016	Lab File:	101416.D21

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
m&p-Xylene	5	ug/L	ND	EPA 8260
Bromoform	5	ug/L	ND	EPA 8260
Styrene	5	ug/L	ND	EPA 8260
o-Xylene	5	ug/L	ND	EPA 8260
1,1,2,2-Tetrachloroethane	5	ug/L	ND	EPA 8260
1,2,3-Trichloropropane	5	ug/L	ND	EPA 8260
Isopropylbenzene	5	ug/L	ND	EPA 8260
Bromobenzene	5	ug/L	ND	EPA 8260
n-Propylbenzene	5	ug/L	ND	EPA 8260
2-Chlorotoluene	5	ug/L	ND	EPA 8260
4-Chlorotoluene	5	ug/L	ND	EPA 8260
1,3,5-Trimethylbenzene	5	ug/L	ND	EPA 8260
tert-Butylbenzene	5	ug/L	ND	EPA 8260
1,2,4-Trimethylbenzene	5	ug/L	ND	EPA 8260
sec-Butylbenzene	5	ug/L	ND	EPA 8260
1,3-Dichlorobenzene	5	ug/L	ND	EPA 8260
1,4-Dichlorobenzene	5	ug/L	ND	EPA 8260
1,2-Dichlorobenzene	5	ug/L	ND	EPA 8260
p-iso-Propyltoluene	5	ug/L	ND	EPA 8260
n-Butylbenzene	5	ug/L	ND	EPA 8260
1,2-Dibromo-3-chloropropane	5	ug/L	ND	EPA 8260
1,2,4-Trichlorobenzene	5	ug/L	ND	EPA 8260
Naphthalene	5	ug/L	ND	EPA 8260
Hexachlorobutadiene	5	ug/L	ND	EPA 8260
1,2,3-Trichlorobenzene	5	ug/L	ND	EPA 8260
TPH GRO	100	ug/L	ND	EPA 8015B
TPH DRO	500	ug/L	ND	EPA 8015B

### SURROGATE SPIKE

1,2-Dichloroethane-d4	%		121	EPA 8260
Dibromofluoromethane	%		127	EPA 8260
TFT	%		94	EPA 8015B
Toluene-d8	%		80	EPA 8260
Bromofluorobenzene	%		101	EPA 8260

# ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 1751 Pulaski Highway, Havre de Grace, MD 21078 Phone:410-939-5550 Fax:410-939-5552

## Certificate of Analysis

<b>Sample Identification:</b>	<b>MW-5S</b>	<b>Project Identification:</b>	<b>WINFIELD BP</b>
<b>MATRIX:</b>	<b>water</b>	<b>Client Identification:</b>	<b>TEVIS</b>
<b>Sample Date:</b>	<b>10/5/2016</b>	<b>Client Telephone:</b>	
<b>Date Received:</b>	<b>10/5/2016</b>	<b>Client Fax:</b>	
<b>Extraction Date:</b>	<b>10/12/2016</b>	<b>Analyst:</b>	<b>MM</b>
<b>Analysis Date:</b>	<b>10/14/2016</b>	<b>Lab File:</b>	<b>101416.D22</b>

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
Dichlorodifluoromethane	5	ug/L	ND	EPA 8260
Chloromethane	5	ug/L	ND	EPA 8260
Vinyl Chloride	5	ug/L	ND	EPA 8260
Bromomethane	5	ug/L	ND	EPA 8260
Chloroethane	5	ug/L	ND	EPA 8260
Trichlorofluoromethane	5	ug/L	ND	EPA 8260
1,1-Dichloroethene	5	ug/L	ND	EPA 8260
tert-Butyl Alcohol (TBA)	50	ug/L	ND	EPA 8260
Methylene Chloride	5	ug/L	ND	EPA 8260
trans-1,2-Dichloroethene	5	ug/L	ND	EPA 8260
Methyl tert-Butyl Ether (MtBE)	5	ug/L	641	EPA 8260
1,1-Dichloroethane	5	ug/L	ND	EPA 8260
Diisopropyl Ether (DIPE)	5	ug/L	ND	EPA 8260
cis-1,2-Dichloroethene	5	ug/L	ND	EPA 8260
Bromochloromethane	5	ug/L	ND	EPA 8260
Chloroform	5	ug/L	ND	EPA 8260
2,2-Dichloropropane	5	ug/L	ND	EPA 8260
Ethyl tert-Butyl Ether (EtBE)	5	ug/L	ND	EPA 8260
1,2-Dichloroethane	5	ug/L	ND	EPA 8260
tert-Amyl Alcohol (TAA)	50	ug/L	ND	EPA 8260
1,1,1-Trichloroethane	5	ug/L	ND	EPA 8260
1,1-Dichloropropene	5	ug/L	ND	EPA 8260
Carbon tetrachloride	5	ug/L	ND	EPA 8260
Benzene	5	ug/L	ND	EPA 8260
tert-Amyl Methyl Ether (TAME)	5	ug/L	19.8	EPA 8260
Dibromomethane	5	ug/L	ND	EPA 8260
1,2-Dichloropropane	5	ug/L	ND	EPA 8260
Trichloroethene	5	ug/L	ND	EPA 8260
Bromodichloromethane	5	ug/L	ND	EPA 8260
tert-Amyl Ethyl Ether (TAEE)	5	ug/L	ND	EPA 8260
cis-1,3-Dichloropropene	5	ug/L	ND	EPA 8260
trans-1,3-Dichloropropene	5	ug/L	ND	EPA 8260
1,1,2-Trichloroethane	5	ug/L	ND	EPA 8260
Toluene	5	ug/L	ND	EPA 8260
1,3-Dichloropropane	5	ug/L	ND	EPA 8260
Dibromochloromethane	5	ug/L	ND	EPA 8260
1,2-Dibromoethane	5	ug/L	ND	EPA 8260
Tetrachloroethene	5	ug/L	ND	EPA 8260
1,1,1,2-Tetrachloroethene	5	ug/L	ND	EPA 8260
Chlorobenzene	5	ug/L	ND	EPA 8260
Ethylbenzene	5	ug/L	ND	EPA 8260

# ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 5292 Enterprise Street Suite C, Eldersburg, MD 21784 Phone 410-795-5955 Fax 410-795-9459

## Certificate of Analysis

Sample Identification:	MW-5S	Project Identification:	WINFIELD BP
MATRIX:	water	Client Identification:	TEVIS
Sample Date:	10/5/2016	Client Telephone:	
Date Received:	10/5/2016	Client Fax:	
Extraction Date:	10/12/2016	Analyst:	
Analysis Date:	10/14/2016	Lab File:	101416.D22

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
m&p-Xylene	5	ug/L	ND	EPA 8260
Bromoform	5	ug/L	ND	EPA 8260
Styrene	5	ug/L	ND	EPA 8260
o-Xylene	5	ug/L	ND	EPA 8260
1,1,2,2-Tetrachloroethane	5	ug/L	ND	EPA 8260
1,2,3-Trichloropropane	5	ug/L	ND	EPA 8260
Isopropylbenzene	5	ug/L	ND	EPA 8260
Bromobenzene	5	ug/L	ND	EPA 8260
n-Propylbenzene	5	ug/L	ND	EPA 8260
2-Chlorotoluene	5	ug/L	ND	EPA 8260
4-Chlorotoluene	5	ug/L	ND	EPA 8260
1,3,5-Trimethylbenzene	5	ug/L	ND	EPA 8260
tert-Butylbenzene	5	ug/L	ND	EPA 8260
1,2,4-Trimethylbenzene	5	ug/L	ND	EPA 8260
sec-Butylbenzene	5	ug/L	ND	EPA 8260
1,3-Dichlorobenzene	5	ug/L	ND	EPA 8260
1,4-Dichlorobenzene	5	ug/L	ND	EPA 8260
1,2-Dichlorobenzene	5	ug/L	ND	EPA 8260
p-iso-Propyltoluene	5	ug/L	ND	EPA 8260
n-Butylbenzene	5	ug/L	ND	EPA 8260
1,2-Dibromo-3-chloropropane	5	ug/L	ND	EPA 8260
1,2,4-Trichlorobenzene	5	ug/L	ND	EPA 8260
Naphthalene	5	ug/L	ND	EPA 8260
Hexachlorobutadiene	5	ug/L	ND	EPA 8260
1,2,3-Trichlorobenzene	5	ug/L	ND	EPA 8260
TPH GRO	100	ug/L	710	EPA 8015B
TPH DRO	500	ug/L	ND	EPA 8015B

### SURROGATE SPIKE

1,2-Dichloroethane-d4		%	107	EPA 8260
Dibromofluoromethane		%	111	EPA 8260
TFT		%	94	EPA 8015B
Toluene-d8		%	81	EPA 8260
Bromofluorobenzene		%	100	EPA 8260

# ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 1751 Pulaski Highway, Havre de Grace, MD 21078 Phone:410-939-5550 Fax:410-939-5552

## Certificate of Analysis

<b>Sample Identification:</b>	<b>MW-5D</b>	<b>Project Identification:</b>	<b>WINFIELD BP</b>
<b>MATRIX:</b>	<b>water</b>	<b>Client Identification:</b>	<b>TEVIS</b>
<b>Sample Date:</b>	<b>10/5/2016</b>	<b>Client Telephone:</b>	
<b>Date Received:</b>	<b>10/5/2016</b>	<b>Client Fax:</b>	
<b>Extraction Date:</b>	<b>10/12/2016</b>	<b>Analyst:</b>	<b>MM</b>
<b>Analysis Date:</b>	<b>10/14/2016</b>	<b>Lab File:</b>	<b>101416.D23</b>

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
Dichlorodifluoromethane	5	ug/L	ND	EPA 8260
Chloromethane	5	ug/L	ND	EPA 8260
Vinyl Chloride	5	ug/L	ND	EPA 8260
Bromomethane	5	ug/L	ND	EPA 8260
Chloroethane	5	ug/L	ND	EPA 8260
Trichlorofluoromethane	5	ug/L	ND	EPA 8260
1,1-Dichloroethene	5	ug/L	ND	EPA 8260
tert-Butyl Alcohol (TBA)	50	ug/L	ND	EPA 8260
Methylene Chloride	5	ug/L	ND	EPA 8260
trans-1,2-Dichloroethene	5	ug/L	ND	EPA 8260
Methyl tert-Butyl Ether (MtBE)	5	ug/L	ND	EPA 8260
1,1-Dichloroethane	5	ug/L	ND	EPA 8260
Diisopropyl Ether (DIPE)	5	ug/L	ND	EPA 8260
cis-1,2-Dichloroethene	5	ug/L	ND	EPA 8260
Bromochloromethane	5	ug/L	ND	EPA 8260
Chloroform	5	ug/L	ND	EPA 8260
2,2-Dichloropropane	5	ug/L	ND	EPA 8260
Ethyl tert-Butyl Ether (EtBE)	5	ug/L	ND	EPA 8260
1,2-Dichloroethane	5	ug/L	ND	EPA 8260
tert-Amyl Alcohol (TAA)	50	ug/L	ND	EPA 8260
1,1,1-Trichloroethane	5	ug/L	ND	EPA 8260
1,1-Dichloropropene	5	ug/L	ND	EPA 8260
Carbon tetrachloride	5	ug/L	ND	EPA 8260
Benzene	5	ug/L	ND	EPA 8260
tert-Amyl Methyl Ether (TAME)	5	ug/L	ND	EPA 8260
Dibromomethane	5	ug/L	ND	EPA 8260
1,2-Dichloropropane	5	ug/L	ND	EPA 8260
Trichloroethene	5	ug/L	ND	EPA 8260
Bromodichloromethane	5	ug/L	ND	EPA 8260
tert-Amyl Ethyl Ether (TAEE)	5	ug/L	ND	EPA 8260
cis-1,3-Dichloropropene	5	ug/L	ND	EPA 8260
trans-1,3-Dichloropropene	5	ug/L	ND	EPA 8260
1,1,2-Trichloroethane	5	ug/L	ND	EPA 8260
Toluene	5	ug/L	ND	EPA 8260
1,3-Dichloropropane	5	ug/L	ND	EPA 8260
Dibromochloromethane	5	ug/L	ND	EPA 8260
1,2-Dibromoethane	5	ug/L	ND	EPA 8260
Tetrachloroethene	5	ug/L	ND	EPA 8260
1,1,1,2-Tetrachloroethene	5	ug/L	ND	EPA 8260
Chlorobenzene	5	ug/L	ND	EPA 8260
Ethylbenzene	5	ug/L	ND	EPA 8260



# ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 5292 Enterprise Street Suite C, Eldersburg, MD 21784 Phone 410-795-5955 Fax 410-795-9459

## Certificate of Analysis

Sample Identification:	MW-5D	Project Identification:	WINFIELD BP
MATRIX:	water	Client Identification:	TEVIS
Sample Date:	10/5/2016	Client Telephone:	
Date Received:	10/5/2016	Client Fax:	
Extraction Date:	10/12/2016	Analyst:	
Analysis Date:	10/14/2016	Lab File:	101416.D23

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
m&p-Xylene	5	ug/L	ND	EPA 8260
Bromoform	5	ug/L	ND	EPA 8260
Styrene	5	ug/L	ND	EPA 8260
o-Xylene	5	ug/L	ND	EPA 8260
1,1,2,2-Tetrachloroethane	5	ug/L	ND	EPA 8260
1,2,3-Trichloropropane	5	ug/L	ND	EPA 8260
Isopropylbenzene	5	ug/L	ND	EPA 8260
Bromobenzene	5	ug/L	ND	EPA 8260
n-Propylbenzene	5	ug/L	ND	EPA 8260
2-Chlorotoluene	5	ug/L	ND	EPA 8260
4-Chlorotoluene	5	ug/L	ND	EPA 8260
1,3,5-Trimethylbenzene	5	ug/L	ND	EPA 8260
tert-Butylbenzene	5	ug/L	ND	EPA 8260
1,2,4-Trimethylbenzene	5	ug/L	ND	EPA 8260
sec-Butylbenzene	5	ug/L	ND	EPA 8260
1,3-Dichlorobenzene	5	ug/L	ND	EPA 8260
1,4-Dichlorobenzene	5	ug/L	ND	EPA 8260
1,2-Dichlorobenzene	5	ug/L	ND	EPA 8260
p-iso-Propyltoluene	5	ug/L	ND	EPA 8260
n-Butylbenzene	5	ug/L	ND	EPA 8260
1,2-Dibromo-3-chloropropane	5	ug/L	ND	EPA 8260
1,2,4-Trichlorobenzene	5	ug/L	ND	EPA 8260
Naphthalene	5	ug/L	ND	EPA 8260
Hexachlorobutadiene	5	ug/L	ND	EPA 8260
1,2,3-Trichlorobenzene	5	ug/L	ND	EPA 8260
TPH GRO	100	ug/L	ND	EPA 8015B
TPH DRO	500	ug/L	ND	EPA 8015B

### SURROGATE SPIKE

1,2-Dichloroethane-d4	%		122	EPA 8260
Dibromofluoromethane	%		128	EPA 8260
TFT	%		94	EPA 8015B
Toluene-d8	%		80	EPA 8260
Bromofluorobenzene	%		102	EPA 8260

# ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 1751 Pulaski Highway, Havre de Grace, MD 21078 Phone:410-939-5550 Fax:410-939-5552

## Certificate of Analysis

<b>Sample Identification:</b>	<b>MW-6D</b>	<b>Project Identification:</b>	<b>WINFIELD BP</b>
<b>MATRIX:</b>	<b>water</b>	<b>Client Identification:</b>	<b>TEVIS</b>
<b>Sample Date:</b>	<b>10/5/2016</b>	<b>Client Telephone:</b>	
<b>Date Received:</b>	<b>10/5/2016</b>	<b>Client Fax:</b>	
<b>Extraction Date:</b>	<b>10/12/2016</b>	<b>Analyst:</b>	<b>MM</b>
<b>Analysis Date:</b>	<b>10/14/2016</b>	<b>Lab File:</b>	<b>101416.D24</b>

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
Dichlorodifluoromethane	5	ug/L	ND	EPA 8260
Chloromethane	5	ug/L	ND	EPA 8260
Vinyl Chloride	5	ug/L	ND	EPA 8260
Bromomethane	5	ug/L	ND	EPA 8260
Chloroethane	5	ug/L	ND	EPA 8260
Trichlorofluoromethane	5	ug/L	ND	EPA 8260
1,1-Dichloroethene	5	ug/L	ND	EPA 8260
tert-Butyl Alcohol (TBA)	50	ug/L	ND	EPA 8260
Methylene Chloride	5	ug/L	ND	EPA 8260
trans-1,2-Dichloroethene	5	ug/L	ND	EPA 8260
Methyl tert-Butyl Ether (MtBE)	5	ug/L	ND	EPA 8260
1,1-Dichloroethane	5	ug/L	ND	EPA 8260
Diisopropyl Ether (DIPE)	5	ug/L	ND	EPA 8260
cis-1,2-Dichloroethene	5	ug/L	ND	EPA 8260
Bromochloromethane	5	ug/L	ND	EPA 8260
Chloroform	5	ug/L	ND	EPA 8260
2,2-Dichloropropane	5	ug/L	ND	EPA 8260
Ethyl tert-Butyl Ether (EtBE)	5	ug/L	ND	EPA 8260
1,2-Dichloroethane	5	ug/L	ND	EPA 8260
tert-Amyl Alcohol (TAA)	50	ug/L	ND	EPA 8260
1,1,1-Trichloroethane	5	ug/L	ND	EPA 8260
1,1-Dichloropropene	5	ug/L	ND	EPA 8260
Carbon tetrachloride	5	ug/L	ND	EPA 8260
Benzene	5	ug/L	ND	EPA 8260
tert-Amyl Methyl Ether (TAME)	5	ug/L	ND	EPA 8260
Dibromomethane	5	ug/L	ND	EPA 8260
1,2-Dichloropropane	5	ug/L	ND	EPA 8260
Trichloroethene	5	ug/L	ND	EPA 8260
Bromodichloromethane	5	ug/L	ND	EPA 8260
tert-Amyl Ethyl Ether (TAEE)	5	ug/L	ND	EPA 8260
cis-1,3-Dichloropropene	5	ug/L	ND	EPA 8260
trans-1,3-Dichloropropene	5	ug/L	ND	EPA 8260
1,1,2-Trichloroethane	5	ug/L	ND	EPA 8260
Toluene	5	ug/L	ND	EPA 8260
1,3-Dichloropropane	5	ug/L	ND	EPA 8260
Dibromochloromethane	5	ug/L	ND	EPA 8260
1,2-Dibromoethane	5	ug/L	ND	EPA 8260
Tetrachloroethene	5	ug/L	ND	EPA 8260
1,1,1,2-Tetrachloroethene	5	ug/L	ND	EPA 8260
Chlorobenzene	5	ug/L	ND	EPA 8260
Ethylbenzene	5	ug/L	ND	EPA 8260

# ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 5292 Enterprise Street Suite C, Eldersburg, MD 21784 Phone 410-795-5955 Fax 410-795-9459

## Certificate of Analysis

Sample Identification:	MW-6D	Project Identification:	WINFIELD BP
MATRIX:	water	Client Identification:	TEVIS
Sample Date:	10/5/2016	Client Telephone:	
Date Received:	10/5/2016	Client Fax:	
Extraction Date:	10/12/2016	Analyst:	
Analysis Date:	10/14/2016	Lab File:	101416.D24

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
m&p-Xylene	5	ug/L	ND	EPA 8260
Bromoform	5	ug/L	ND	EPA 8260
Styrene	5	ug/L	ND	EPA 8260
o-Xylene	5	ug/L	ND	EPA 8260
1,1,2,2-Tetrachloroethane	5	ug/L	ND	EPA 8260
1,2,3-Trichloropropane	5	ug/L	ND	EPA 8260
Isopropylbenzene	5	ug/L	ND	EPA 8260
Bromobenzene	5	ug/L	ND	EPA 8260
n-Propylbenzene	5	ug/L	ND	EPA 8260
2-Chlorotoluene	5	ug/L	ND	EPA 8260
4-Chlorotoluene	5	ug/L	ND	EPA 8260
1,3,5-Trimethylbenzene	5	ug/L	ND	EPA 8260
tert-Butylbenzene	5	ug/L	ND	EPA 8260
1,2,4-Trimethylbenzene	5	ug/L	ND	EPA 8260
sec-Butylbenzene	5	ug/L	ND	EPA 8260
1,3-Dichlorobenzene	5	ug/L	ND	EPA 8260
1,4-Dichlorobenzene	5	ug/L	ND	EPA 8260
1,2-Dichlorobenzene	5	ug/L	ND	EPA 8260
p-iso-Propyltoluene	5	ug/L	ND	EPA 8260
n-Butylbenzene	5	ug/L	ND	EPA 8260
1,2-Dibromo-3-chloropropane	5	ug/L	ND	EPA 8260
1,2,4-Trichlorobenzene	5	ug/L	ND	EPA 8260
Naphthalene	5	ug/L	ND	EPA 8260
Hexachlorobutadiene	5	ug/L	ND	EPA 8260
1,2,3-Trichlorobenzene	5	ug/L	ND	EPA 8260
TPH GRO	100	ug/L	ND	EPA 8015B
TPH DRO	500	ug/L	ND	EPA 8015B

### SURROGATE SPIKE

1,2-Dichloroethane-d4		%	122	EPA 8260
Dibromofluoromethane		%	128	EPA 8260
TFT		%	95	EPA 8015B
Toluene-d8		%	80	EPA 8260
Bromofluorobenzene		%	102	EPA 8260

# ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 1751 Pulaski Highway, Havre de Grace, MD 21078 Phone:410-939-5550 Fax:410-939-5552

## Certificate of Analysis

<b>Sample Identification:</b>	<b>MW-7D</b>	<b>Project Identification:</b>	<b>WINFIELD BP</b>
<b>MATRIX:</b>	<b>water</b>	<b>Client Identification:</b>	<b>TEVIS</b>
<b>Sample Date:</b>	<b>10/5/2016</b>	<b>Client Telephone:</b>	
<b>Date Received:</b>	<b>10/5/2016</b>	<b>Client Fax:</b>	
<b>Extraction Date:</b>	<b>10/12/2016</b>	<b>Analyst:</b>	<b>MM</b>
<b>Analysis Date:</b>	<b>10/14/2016</b>	<b>Lab File:</b>	<b>101416.D25</b>

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
Dichlorodifluoromethane	5	ug/L	ND	EPA 8260
Chloromethane	5	ug/L	ND	EPA 8260
Vinyl Chloride	5	ug/L	ND	EPA 8260
Bromomethane	5	ug/L	ND	EPA 8260
Chloroethane	5	ug/L	ND	EPA 8260
Trichlorofluoromethane	5	ug/L	ND	EPA 8260
1,1-Dichloroethene	5	ug/L	ND	EPA 8260
tert-Butyl Alcohol (TBA)	50	ug/L	ND	EPA 8260
Methylene Chloride	5	ug/L	ND	EPA 8260
trans-1,2-Dichloroethene	5	ug/L	ND	EPA 8260
Methyl tert-Butyl Ether (MtBE)	5	ug/L	ND	EPA 8260
1,1-Dichloroethane	5	ug/L	ND	EPA 8260
Diisopropyl Ether (DIPE)	5	ug/L	ND	EPA 8260
cis-1,2-Dichloroethene	5	ug/L	ND	EPA 8260
Bromochloromethane	5	ug/L	ND	EPA 8260
Chloroform	5	ug/L	ND	EPA 8260
2,2-Dichloropropane	5	ug/L	ND	EPA 8260
Ethyl tert-Butyl Ether (EtBE)	5	ug/L	ND	EPA 8260
1,2-Dichloroethane	5	ug/L	ND	EPA 8260
tert-Amyl Alcohol (TAA)	50	ug/L	ND	EPA 8260
1,1,1-Trichloroethane	5	ug/L	ND	EPA 8260
1,1-Dichloropropene	5	ug/L	ND	EPA 8260
Carbon tetrachloride	5	ug/L	ND	EPA 8260
Benzene	5	ug/L	ND	EPA 8260
tert-Amyl Methyl Ether (TAME)	5	ug/L	ND	EPA 8260
Dibromomethane	5	ug/L	ND	EPA 8260
1,2-Dichloropropane	5	ug/L	ND	EPA 8260
Trichloroethene	5	ug/L	ND	EPA 8260
Bromodichloromethane	5	ug/L	ND	EPA 8260
tert-Amyl Ethyl Ether (TAEE)	5	ug/L	ND	EPA 8260
cis-1,3-Dichloropropene	5	ug/L	ND	EPA 8260
trans-1,3-Dichloropropene	5	ug/L	ND	EPA 8260
1,1,2-Trichloroethane	5	ug/L	ND	EPA 8260
Toluene	5	ug/L	ND	EPA 8260
1,3-Dichloropropane	5	ug/L	ND	EPA 8260
Dibromochloromethane	5	ug/L	ND	EPA 8260
1,2-Dibromoethane	5	ug/L	ND	EPA 8260
Tetrachloroethene	5	ug/L	ND	EPA 8260
1,1,1,2-Tetrachloroethene	5	ug/L	ND	EPA 8260
Chlorobenzene	5	ug/L	ND	EPA 8260
Ethylbenzene	5	ug/L	ND	EPA 8260

# ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 5292 Enterprise Street Suite C, Eldersburg, MD 21784 Phone 410-795-5955 Fax 410-795-9459

## Certificate of Analysis

Sample Identification:	MW-7D	Project Identification:	WINFIELD BP
MATRIX:	water	Client Identification:	TEVIS
Sample Date:	10/5/2016	Client Telephone:	
Date Received:	10/5/2016	Client Fax:	
Extraction Date:	10/12/2016	Analyst:	
Analysis Date:	10/14/2016	Lab File:	101416.D25

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
m&p-Xylene	5	ug/L	ND	EPA 8260
Bromoform	5	ug/L	ND	EPA 8260
Styrene	5	ug/L	ND	EPA 8260
o-Xylene	5	ug/L	ND	EPA 8260
1,1,2,2-Tetrachloroethane	5	ug/L	ND	EPA 8260
1,2,3-Trichloropropane	5	ug/L	ND	EPA 8260
Isopropylbenzene	5	ug/L	ND	EPA 8260
Bromobenzene	5	ug/L	ND	EPA 8260
n-Propylbenzene	5	ug/L	ND	EPA 8260
2-Chlorotoluene	5	ug/L	ND	EPA 8260
4-Chlorotoluene	5	ug/L	ND	EPA 8260
1,3,5-Trimethylbenzene	5	ug/L	ND	EPA 8260
tert-Butylbenzene	5	ug/L	ND	EPA 8260
1,2,4-Trimethylbenzene	5	ug/L	ND	EPA 8260
sec-Butylbenzene	5	ug/L	ND	EPA 8260
1,3-Dichlorobenzene	5	ug/L	ND	EPA 8260
1,4-Dichlorobenzene	5	ug/L	ND	EPA 8260
1,2-Dichlorobenzene	5	ug/L	ND	EPA 8260
p-iso-Propyltoluene	5	ug/L	ND	EPA 8260
n-Butylbenzene	5	ug/L	ND	EPA 8260
1,2-Dibromo-3-chloropropane	5	ug/L	ND	EPA 8260
1,2,4-Trichlorobenzene	5	ug/L	ND	EPA 8260
Naphthalene	5	ug/L	ND	EPA 8260
Hexachlorobutadiene	5	ug/L	ND	EPA 8260
1,2,3-Trichlorobenzene	5	ug/L	ND	EPA 8260
TPH GRO	100	ug/L	ND	EPA 8015B
TPH DRO	500	ug/L	ND	EPA 8015B

### SURROGATE SPIKE

1,2-Dichloroethane-d4	%		121	EPA 8260
Dibromofluoromethane	%		119	EPA 8260
TFT	%		93	EPA 8015B
Toluene-d8	%		80	EPA 8260
Bromofluorobenzene	%		97	EPA 8260

# ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 1751 Pulaski Highway, Havre de Grace, MD 21078 Phone:410-939-5550 Fax:410-939-5552

## Certificate of Analysis

<b>Sample Identification:</b>	<b>MW-8D</b>	<b>Project Identification:</b>	<b>WINFIELD BP</b>
<b>MATRIX:</b>	<b>water</b>	<b>Client Identification:</b>	<b>TEVIS</b>
<b>Sample Date:</b>	<b>10/5/2016</b>	<b>Client Telephone:</b>	
<b>Date Received:</b>	<b>10/5/2016</b>	<b>Client Fax:</b>	
<b>Extraction Date:</b>	<b>10/12/2016</b>	<b>Analyst:</b>	<b>MM</b>
<b>Analysis Date:</b>	<b>10/14/2016</b>	<b>Lab File:</b>	<b>101416.D26</b>

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
Dichlorodifluoromethane	5	ug/L	ND	EPA 8260
Chloromethane	5	ug/L	ND	EPA 8260
Vinyl Chloride	5	ug/L	ND	EPA 8260
Bromomethane	5	ug/L	ND	EPA 8260
Chloroethane	5	ug/L	ND	EPA 8260
Trichlorofluoromethane	5	ug/L	ND	EPA 8260
1,1-Dichloroethene	5	ug/L	ND	EPA 8260
tert-Butyl Alcohol (TBA)	50	ug/L	100	EPA 8260
Methylene Chloride	5	ug/L	ND	EPA 8260
trans-1,2-Dichloroethene	5	ug/L	ND	EPA 8260
Methyl tert-Butyl Ether (MtBE)	5	ug/L	1200	EPA 8260
1,1-Dichloroethane	5	ug/L	ND	EPA 8260
Diisopropyl Ether (DIPE)	5	ug/L	ND	EPA 8260
cis-1,2-Dichloroethene	5	ug/L	ND	EPA 8260
Bromochloromethane	5	ug/L	ND	EPA 8260
Chloroform	5	ug/L	ND	EPA 8260
2,2-Dichloropropane	5	ug/L	ND	EPA 8260
Ethyl tert-Butyl Ether (EtBE)	5	ug/L	ND	EPA 8260
1,2-Dichloroethane	5	ug/L	ND	EPA 8260
tert-Amyl Alcohol (TAA)	50	ug/L	ND	EPA 8260
1,1,1-Trichloroethane	5	ug/L	ND	EPA 8260
1,1-Dichloropropene	5	ug/L	ND	EPA 8260
Carbon tetrachloride	5	ug/L	ND	EPA 8260
Benzene	5	ug/L	ND	EPA 8260
tert-Amyl Methyl Ether (TAME)	5	ug/L	72.2	EPA 8260
Dibromomethane	5	ug/L	ND	EPA 8260
1,2-Dichloropropane	5	ug/L	ND	EPA 8260
Trichloroethene	5	ug/L	ND	EPA 8260
Bromodichloromethane	5	ug/L	ND	EPA 8260
tert-Amyl Ethyl Ether (TAEE)	5	ug/L	ND	EPA 8260
cis-1,3-Dichloropropene	5	ug/L	ND	EPA 8260
trans-1,3-Dichloropropene	5	ug/L	ND	EPA 8260
1,1,2-Trichloroethane	5	ug/L	ND	EPA 8260
Toluene	5	ug/L	ND	EPA 8260
1,3-Dichloropropane	5	ug/L	ND	EPA 8260
Dibromochloromethane	5	ug/L	ND	EPA 8260
1,2-Dibromoethane	5	ug/L	ND	EPA 8260
Tetrachloroethene	5	ug/L	ND	EPA 8260
1,1,1,2-Tetrachloroethene	5	ug/L	ND	EPA 8260
Chlorobenzene	5	ug/L	ND	EPA 8260
Ethylbenzene	5	ug/L	ND	EPA 8260

# ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 5292 Enterprise Street Suite C, Eldersburg, MD 21784 Phone 410-795-5955 Fax 410-795-9459

## Certificate of Analysis

Sample Identification:	MW-8D	Project Identification:	WINFIELD BP
MATRIX:	water	Client Identification:	TEVIS
Sample Date:	10/5/2016	Client Telephone:	
Date Received:	10/5/2016	Client Fax:	
Extraction Date:	10/12/2016	Analyst:	
Analysis Date:	10/14/2016	Lab File:	101416.D26

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
m&p-Xylene	5	ug/L	ND	EPA 8260
Bromoform	5	ug/L	ND	EPA 8260
Styrene	5	ug/L	ND	EPA 8260
o-Xylene	5	ug/L	ND	EPA 8260
1,1,2,2-Tetrachloroethane	5	ug/L	ND	EPA 8260
1,2,3-Trichloropropane	5	ug/L	ND	EPA 8260
Isopropylbenzene	5	ug/L	ND	EPA 8260
Bromobenzene	5	ug/L	ND	EPA 8260
n-Propylbenzene	5	ug/L	ND	EPA 8260
2-Chlorotoluene	5	ug/L	ND	EPA 8260
4-Chlorotoluene	5	ug/L	ND	EPA 8260
1,3,5-Trimethylbenzene	5	ug/L	ND	EPA 8260
tert-Butylbenzene	5	ug/L	ND	EPA 8260
1,2,4-Trimethylbenzene	5	ug/L	ND	EPA 8260
sec-Butylbenzene	5	ug/L	ND	EPA 8260
1,3-Dichlorobenzene	5	ug/L	ND	EPA 8260
1,4-Dichlorobenzene	5	ug/L	ND	EPA 8260
1,2-Dichlorobenzene	5	ug/L	ND	EPA 8260
p-iso-Propyltoluene	5	ug/L	ND	EPA 8260
n-Butylbenzene	5	ug/L	ND	EPA 8260
1,2-Dibromo-3-chloropropane	5	ug/L	ND	EPA 8260
1,2,4-Trichlorobenzene	5	ug/L	ND	EPA 8260
Naphthalene	5	ug/L	ND	EPA 8260
Hexachlorobutadiene	5	ug/L	ND	EPA 8260
1,2,3-Trichlorobenzene	5	ug/L	ND	EPA 8260
TPH GRO	100	ug/L	1375	EPA 8015B
TPH DRO	500	ug/L	ND	EPA 8015B

### SURROGATE SPIKE

1,2-Dichloroethane-d4		%	105	EPA 8260
Dibromofluoromethane		%	110	EPA 8260
TFT		%	95	EPA 8015B
Toluene-d8		%	81	EPA 8260
Bromofluorobenzene		%	102	EPA 8260

# ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 1751 Pulaski Highway, Havre de Grace, MD 21078 Phone:410-939-5550 Fax:410-939-5552

## Certificate of Analysis

<b>Sample Identification:</b>	<b>MW-9D</b>	<b>Project Identification:</b>	<b>WINFIELD BP</b>
<b>MATRIX:</b>	<b>water</b>	<b>Client Identification:</b>	<b>TEVIS</b>
<b>Sample Date:</b>	<b>10/5/2016</b>	<b>Client Telephone:</b>	
<b>Date Received:</b>	<b>10/5/2016</b>	<b>Client Fax:</b>	
<b>Extraction Date:</b>	<b>10/12/2016</b>	<b>Analyst:</b>	<b>MM</b>
<b>Analysis Date:</b>	<b>10/14/2016</b>	<b>Lab File:</b>	<b>101416.D27</b>

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
Dichlorodifluoromethane	5	ug/L	ND	EPA 8260
Chloromethane	5	ug/L	ND	EPA 8260
Vinyl Chloride	5	ug/L	ND	EPA 8260
Bromomethane	5	ug/L	ND	EPA 8260
Chloroethane	5	ug/L	ND	EPA 8260
Trichlorofluoromethane	5	ug/L	ND	EPA 8260
1,1-Dichloroethene	5	ug/L	ND	EPA 8260
tert-Butyl Alcohol (TBA)	50	ug/L	ND	EPA 8260
Methylene Chloride	5	ug/L	ND	EPA 8260
trans-1,2-Dichloroethene	5	ug/L	ND	EPA 8260
Methyl tert-Butyl Ether (MtBE)	5	ug/L	ND	EPA 8260
1,1-Dichloroethane	5	ug/L	ND	EPA 8260
Diisopropyl Ether (DIPE)	5	ug/L	ND	EPA 8260
cis-1,2-Dichloroethene	5	ug/L	ND	EPA 8260
Bromochloromethane	5	ug/L	ND	EPA 8260
Chloroform	5	ug/L	ND	EPA 8260
2,2-Dichloropropane	5	ug/L	ND	EPA 8260
Ethyl tert-Butyl Ether (EtBE)	5	ug/L	ND	EPA 8260
1,2-Dichloroethane	5	ug/L	ND	EPA 8260
tert-Amyl Alcohol (TAA)	50	ug/L	ND	EPA 8260
1,1,1-Trichloroethane	5	ug/L	ND	EPA 8260
1,1-Dichloropropene	5	ug/L	ND	EPA 8260
Carbon tetrachloride	5	ug/L	ND	EPA 8260
Benzene	5	ug/L	ND	EPA 8260
tert-Amyl Methyl Ether (TAME)	5	ug/L	ND	EPA 8260
Dibromomethane	5	ug/L	ND	EPA 8260
1,2-Dichloropropane	5	ug/L	ND	EPA 8260
Trichloroethene	5	ug/L	ND	EPA 8260
Bromodichloromethane	5	ug/L	ND	EPA 8260
tert-Amyl Ethyl Ether (TAEE)	5	ug/L	ND	EPA 8260
cis-1,3-Dichloropropene	5	ug/L	ND	EPA 8260
trans-1,3-Dichloropropene	5	ug/L	ND	EPA 8260
1,1,2-Trichloroethane	5	ug/L	ND	EPA 8260
Toluene	5	ug/L	ND	EPA 8260
1,3-Dichloropropane	5	ug/L	ND	EPA 8260
Dibromochloromethane	5	ug/L	ND	EPA 8260
1,2-Dibromoethane	5	ug/L	ND	EPA 8260
Tetrachloroethene	5	ug/L	ND	EPA 8260
1,1,1,2-Tetrachloroethene	5	ug/L	ND	EPA 8260
Chlorobenzene	5	ug/L	ND	EPA 8260
Ethylbenzene	5	ug/L	ND	EPA 8260



# ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 5292 Enterprise Street Suite C, Eldersburg, MD 21784 Phone 410-795-5955 Fax 410-795-9459

## Certificate of Analysis

Sample Identification:	MW-9D	Project Identification:	WINFIELD BP
MATRIX:	water	Client Identification:	TEVIS
Sample Date:	10/5/2016	Client Telephone:	
Date Received:	10/5/2016	Client Fax:	
Extraction Date:	10/12/2016	Analyst:	
Analysis Date:	10/14/2016	Lab File:	101416.D27

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
m&p-Xylene	5	ug/L	ND	EPA 8260
Bromoform	5	ug/L	ND	EPA 8260
Styrene	5	ug/L	ND	EPA 8260
o-Xylene	5	ug/L	ND	EPA 8260
1,1,2,2-Tetrachloroethane	5	ug/L	ND	EPA 8260
1,2,3-Trichloropropane	5	ug/L	ND	EPA 8260
Isopropylbenzene	5	ug/L	ND	EPA 8260
Bromobenzene	5	ug/L	ND	EPA 8260
n-Propylbenzene	5	ug/L	ND	EPA 8260
2-Chlorotoluene	5	ug/L	ND	EPA 8260
4-Chlorotoluene	5	ug/L	ND	EPA 8260
1,3,5-Trimethylbenzene	5	ug/L	ND	EPA 8260
tert-Butylbenzene	5	ug/L	ND	EPA 8260
1,2,4-Trimethylbenzene	5	ug/L	ND	EPA 8260
sec-Butylbenzene	5	ug/L	ND	EPA 8260
1,3-Dichlorobenzene	5	ug/L	ND	EPA 8260
1,4-Dichlorobenzene	5	ug/L	ND	EPA 8260
1,2-Dichlorobenzene	5	ug/L	ND	EPA 8260
p-iso-Propyltoluene	5	ug/L	ND	EPA 8260
n-Butylbenzene	5	ug/L	ND	EPA 8260
1,2-Dibromo-3-chloropropane	5	ug/L	ND	EPA 8260
1,2,4-Trichlorobenzene	5	ug/L	ND	EPA 8260
Naphthalene	5	ug/L	ND	EPA 8260
Hexachlorobutadiene	5	ug/L	ND	EPA 8260
1,2,3-Trichlorobenzene	5	ug/L	ND	EPA 8260
TPH GRO	100	ug/L	ND	EPA 8015B
TPH DRO	500	ug/L	ND	EPA 8015B

### SURROGATE SPIKE

1,2-Dichloroethane-d4		%	125	EPA 8260
Dibromofluoromethane		%	120	EPA 8260
TFT		%	96	EPA 8015B
Toluene-d8		%	81	EPA 8260
Bromofluorobenzene		%	103	EPA 8260

# ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 1751 Pulaski Highway, Havre de Grace, MD 21078 Phone:410-939-5550 Fax:410-939-5552

## Certificate of Analysis

<b>Sample Identification:</b>	<b>PW-1</b>	<b>Project Identification:</b>	<b>WINFIELD BP</b>
<b>MATRIX:</b>	<b>water</b>	<b>Client Identification:</b>	<b>TEVIS</b>
<b>Sample Date:</b>	<b>10/5/2016</b>	<b>Client Telephone:</b>	
<b>Date Received:</b>	<b>10/5/2016</b>	<b>Client Fax:</b>	
<b>Extraction Date:</b>	<b>10/12/2016</b>	<b>Analyst:</b>	<b>MM</b>
<b>Analysis Date:</b>	<b>10/14/2016</b>	<b>Lab File:</b>	<b>101416.D28</b>

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
Dichlorodifluoromethane	5	ug/L	ND	EPA 8260
Chloromethane	5	ug/L	ND	EPA 8260
Vinyl Chloride	5	ug/L	ND	EPA 8260
Bromomethane	5	ug/L	ND	EPA 8260
Chloroethane	5	ug/L	ND	EPA 8260
Trichlorofluoromethane	5	ug/L	ND	EPA 8260
1,1-Dichloroethene	5	ug/L	ND	EPA 8260
tert-Butyl Alcohol (TBA)	50	ug/L	ND	EPA 8260
Methylene Chloride	5	ug/L	ND	EPA 8260
trans-1,2-Dichloroethene	5	ug/L	ND	EPA 8260
Methyl tert-Butyl Ether (MtBE)	5	ug/L	136	EPA 8260
1,1-Dichloroethane	5	ug/L	ND	EPA 8260
Diisopropyl Ether (DIPE)	5	ug/L	ND	EPA 8260
cis-1,2-Dichloroethene	5	ug/L	ND	EPA 8260
Bromochloromethane	5	ug/L	ND	EPA 8260
Chloroform	5	ug/L	ND	EPA 8260
2,2-Dichloropropane	5	ug/L	ND	EPA 8260
Ethyl tert-Butyl Ether (EtBE)	5	ug/L	ND	EPA 8260
1,2-Dichloroethane	5	ug/L	ND	EPA 8260
tert-Amyl Alcohol (TAA)	50	ug/L	ND	EPA 8260
1,1,1-Trichloroethane	5	ug/L	ND	EPA 8260
1,1-Dichloropropene	5	ug/L	ND	EPA 8260
Carbon tetrachloride	5	ug/L	ND	EPA 8260
Benzene	5	ug/L	ND	EPA 8260
tert-Amyl Methyl Ether (TAME)	5	ug/L	5.31	EPA 8260
Dibromomethane	5	ug/L	ND	EPA 8260
1,2-Dichloropropane	5	ug/L	ND	EPA 8260
Trichloroethene	5	ug/L	ND	EPA 8260
Bromodichloromethane	5	ug/L	ND	EPA 8260
tert-Amyl Ethyl Ether (TAEE)	5	ug/L	ND	EPA 8260
cis-1,3-Dichloropropene	5	ug/L	ND	EPA 8260
trans-1,3-Dichloropropene	5	ug/L	ND	EPA 8260
1,1,2-Trichloroethane	5	ug/L	ND	EPA 8260
Toluene	5	ug/L	ND	EPA 8260
1,3-Dichloropropane	5	ug/L	ND	EPA 8260
Dibromochloromethane	5	ug/L	ND	EPA 8260
1,2-Dibromoethane	5	ug/L	ND	EPA 8260
Tetrachloroethene	5	ug/L	ND	EPA 8260
1,1,1,2-Tetrachloroethene	5	ug/L	ND	EPA 8260
Chlorobenzene	5	ug/L	ND	EPA 8260
Ethylbenzene	5	ug/L	ND	EPA 8260

# ADVANCED ENVIRONMENTAL CONCEPTS, INC.

Laboratory Services 5292 Enterprise Street Suite C, Eldersburg, MD 21784 Phone 410-795-5955 Fax 410-795-9459

## Certificate of Analysis

Sample Identification:	PW-1	Project Identification:	WINFIELD BP
MATRIX:	water	Client Identification:	TEVIS
Sample Date:	10/5/2016	Client Telephone:	
Date Received:	10/5/2016	Client Fax:	
Extraction Date:	10/12/2016	Analyst:	
Analysis Date:	10/14/2016	Lab File:	101416.D28

COMPOUND	DETECTION LIMIT	TEST UNIT	TEST VALUE	METHOD
m&p-Xylene	5	ug/L	ND	EPA 8260
Bromoform	5	ug/L	ND	EPA 8260
Styrene	5	ug/L	ND	EPA 8260
o-Xylene	5	ug/L	ND	EPA 8260
1,1,2,2-Tetrachloroethane	5	ug/L	ND	EPA 8260
1,2,3-Trichloropropane	5	ug/L	ND	EPA 8260
Isopropylbenzene	5	ug/L	ND	EPA 8260
Bromobenzene	5	ug/L	ND	EPA 8260
n-Propylbenzene	5	ug/L	ND	EPA 8260
2-Chlorotoluene	5	ug/L	ND	EPA 8260
4-Chlorotoluene	5	ug/L	ND	EPA 8260
1,3,5-Trimethylbenzene	5	ug/L	ND	EPA 8260
tert-Butylbenzene	5	ug/L	ND	EPA 8260
1,2,4-Trimethylbenzene	5	ug/L	ND	EPA 8260
sec-Butylbenzene	5	ug/L	ND	EPA 8260
1,3-Dichlorobenzene	5	ug/L	ND	EPA 8260
1,4-Dichlorobenzene	5	ug/L	ND	EPA 8260
1,2-Dichlorobenzene	5	ug/L	ND	EPA 8260
p-iso-Propyltoluene	5	ug/L	ND	EPA 8260
n-Butylbenzene	5	ug/L	ND	EPA 8260
1,2-Dibromo-3-chloropropane	5	ug/L	ND	EPA 8260
1,2,4-Trichlorobenzene	5	ug/L	ND	EPA 8260
Naphthalene	5	ug/L	ND	EPA 8260
Hexachlorobutadiene	5	ug/L	ND	EPA 8260
1,2,3-Trichlorobenzene	5	ug/L	ND	EPA 8260
TPH GRO	100	ug/L	145	EPA 8015B
TPH DRO	500	ug/L	ND	EPA 8015B

### SURROGATE SPIKE

1,2-Dichloroethane-d4		%	112	EPA 8260
Dibromofluoromethane		%	116	EPA 8260
TFT		%	93	EPA 8015B
Toluene-d8		%	80	EPA 8260
Bromofluorobenzene		%	101	EPA 8260

Client: <b>Tevis</b>		Project Name: <b>Winfield BP</b>		SDG#:	
Address: <b>1631 W Liberty Rd</b>		Project Location: <b>Sykesville, MD</b>		Preservatives	
Phone:		Fax:		HCL HCL HCL	
Email:		Requested Analysis		Observation	
Sample By: <b>BW0877</b>		Receive Completed Report Via (Circle One) U.S. Mail    Email    Fax			
Sample #	Sample ID	Date	Time	Matrix	pH
1	2	10/5/16		O	
2	Trip Blank			DW	
3	PSW			GW	
4	MW-1				
5	MW-2				
6	MW-3				
7	MW-4				
8	MW-5S				
9	MW-5D				
10	MW-6D				
	MW-7D				
Relinquished/Received By Signature		Date	Time	Delivery Method	
Relinquished By: <i>[Signature]</i>		10/5/16	13:00	Hand	
Received By:					
Relinquished By:					
Received By: <i>[Signature]</i>					
Relinquished By:					
Received By:					
Matrix Codes: SO = Soil, GW = Ground Water, WW = Waste Water, VP = Vapor, SL = Sludge, DW = Drinking Water, O = Other					
Special Instructions / Comments / QC Requirements:					
Turn Around Time: <b>STD</b> 1 Day 2 Day 3 Day Other					

8260  
Voc+oxy  
8015  
DRO/GRO  
524.2

Lab Use Only

Temp of Cooler  
< 4°C

Ice Present (Y/N)

Custody Seal (Y/N)

Date of Extraction

STD

Client: <b>Tevis</b>		Project Name: <b>Winfield BP</b>		SDG#: <b>HCL HCL</b>	
Address: <b>1631 W Liberty Rd</b>		Project Location: <b>Sykesville, MD</b>		Preservatives	
Phone:		Fax:		Requested Analysis	
Email:		Receive Completed Report Via (Circle One) U.S. Mail    Email    Fax		Observation	
Sample By: <b>BW0877</b>		Date: <b>10/5/16</b>		8260 VOC+ORP    ↓	
Sample #	Sample ID	Date	Time	Matrix	pH
1	<b>2</b>	<b>10/5/16</b>		<b>GW</b>	
2	<b>MW-8D</b>				
3	<b>MW-9D</b>				
4	<b>PW-1</b>				
5					
6					
7					
8					
9					
10					
Relinquished/Received By Signature		Date		Delivery Method	
Relinquished By: <i>[Signature]</i>		<b>10/5/16 13:00</b>			
Received By:				Temp of Cooler <b>&lt; 4°C</b>	
Relinquished By:				Ice Present <b>(Y/N)</b>	
Received By: <i>[Signature]</i>		<b>10/5/16</b>		Custody Seal <b>(Y/N)</b>	
Relinquished By:				Date of Extraction	
Received By:					
Matrix Codes: SO = Soil, GW = Ground Water, WW = Waste Water, VP = Vapor, SL = Sludge, DW = Drinking Water, O = Other					
Special Instructions / Comments / QC Requirements:					
Turn Around Time: <b>STD</b> 1 Day 2 Day 3 Day Other					