Ventura Countywide Stormwater Quality Management Program

2012-2013 Permit Year

Ventura Countywide Stormwater Quality Management Program Annual Report

Attachment D: Water Quality Monitoring Appendices G through K

Camarillo
County of Ventura
Fillmore
Moorpark
Ojai
Oxnard
Port Hueneme
Santa Paula
Simi Valley
Thousand Oaks
Ventura
Ventura County Watershed Protection District

December 13, 2013

Appendix H. RWQCB Permission of Toxicity Species Substitution

California Regional Water Quality Control Board

Los Angeles Region

Recipient of the 2001 *Environmental Leadership Award* from Keep California Beautiful

Linda S. Adams
Agency Secretary

320 W. 4th Street, Suite 200, Los Angeles, California 90013
Phone (213) 576-6600 FAX (213) 576-6640 - Internet Address: http://www.waterboards.ca.gov/losangeles

Arnold Schwarzenegger
Governor

October 28, 2009

Ms. Norma Camacho, Director
Ventura County Watershed Protection District
800 South Victoria Ave., L#1600
Ventura, CA 93009-1600

Certified Mail
Return Receipt Requested
Claim No. 7009 0820 0001 6811 7509

SUBJECT: TOXICITY TEST SPECIES SUBSTITUTION, VENTURA COUNTY MUNICIPAL SEPARATE STORM SEWER SYSTEM DISCHARGE (MS4) PERMIT (BOARD ORDER No. 09-0057; NPDES No. CAS004002)

Dear Ms. Camacho:

On October 14, 2009, the Regional Board staff received a request from the Ventura County Watershed Protection District (County) to substitute topsmelt, *Atherinops affinis*, with the inland silverside, *Menidia beryllina*, due to the unavailability of topsmelt from the supplier. After consultation with US EPA staff, Regional Board staff denied the request. On October 15, 2009, the Regional Board received an e-mail from the County, titled "Notification of toxicity exception - (species unavailable) Ventura County MS4 NPDES Permit Order No. 09-0057 (Monitoring Program)". The County's e-mail communication was submitted pursuant to requirements in subparts D.5 and D.8(b) of the Ventura County MS4 Permit's Monitoring Program (Monitoring Program), which requires an explanation of the circumstance with documentation when toxicity tests cannot be performed to comply with the requirements of this permit, and written authorization from the Regional Board Executive Officer to substitute test species.

In order to evaluate the appropriateness of substituting topsmelt, *Atherinops affinis*, with the inland silverside, *Menidia beryllina*, in toxicity testing at mass emissions stations in the future, the Regional Board requires the County to conduct comparative static renewal toxicity tests on both species as follows. During the next storm event of this permit year (2009-10) and the first storm event of next permit year (2010-11), the County shall conduct toxicity tests on both topsmelt, *Atherinops affinis*, and the inland silverside, *Menidia beryllina*, along with giant kelp, *Macrocystis pyrifera*, and the purple sea urchin, *Strongylocentrotus purpuratus*, pursuant to subpart D.8(a) of the Monitoring Program. The County shall submit the results of the comparative toxicity tests as part of its reporting requirements.

RECEIVED
NOV 5 2009
WATERSHED PROTECTION DIST.

In the event that topsmelt, *Atherinops affinis*, is unavailable for testing during future sampling events conducted under the Monitoring Program, the County shall follow the protocol set forth in subpart D.5 of the Monitoring Program. The County shall notify the Regional Board by phone and e-mail as soon as possible if a test species is unavailable. Notification shall be sent directly to me as well as Tracy Woods, Stormwater Permitting Unit, with a copy to Renee Purdy, Chief, Regional Programs Section. The County shall submit to the Regional Board documentation of species unavailability from both the County's contract lab and the contract lab's supplier at least 48 hours prior to the planned sampling event to provide adequate time for my staff to evaluate any request for species substitution. Any approval or denial of a request for species substitution must be authorized pursuant to subpart D.8(b) of the Monitoring Program.

If you have any questions, please contact me at (213) 576-6605, or Renee Purdy at (213) 576-6783.

Sincerely,

Tracy J. Egoscue,
Executive Officer

cc: Mr. Bruce Fujimoto, Division of Water Quality, State Water Resources Control Board
Mr. Gerhardt Hubner, Ventura County Watershed Protection District
Mr. Arne Anselm, Ventura County Watershed Protection District

Appendix I. Aquatic Toxicity Testing Lab Results

aquatic bioassay & consulting laboratories, inc

October 26, 2012

Mr. Arne Anselm
Ventura County Watershed Protection District
800 South Victoria Ave
Ventura, CA 93009

Dear Mr. Anselm:

We are pleased to present the enclosed revised bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms" EPA-821-R-02-013.* "All acceptability criteria were met and the concentration-response was normal. This is a valid test." Results were as follows:

CLIENT:	Ventura County Flood Control
SAMPLE I.D.:	MO-OJA
DATE RECEIVED:	10/11/2012
ABC LAB. NO.:	VCF1012.085

CHRONIC FATHEAD MINNOW SURVIVAL & GROWTH BIOASSAY

SURVIVAL	NOEC =	100.00 %
	TUc =	1.00
	EC25 =	>100.00 %
	EC50 =	>100.00 %
REPRODUCTION	NOEC =	100.00 %
	TUc =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00 %

Yours very truly,

Scott Johnson
Laboratory Director

29 north olive ventura, ca 93001 (805) 643 5621 www.aquabio.org

CETIS Summary Report

Report Date: 30 Oct-12 09:14 (p 1 of 2)
Test Code: VCF1012.085fml | 13-0904-7924

Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Batch ID:	11-3184-6740	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	13 Oct-12 13:40	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	20 Oct-12 13:00	**Species:**	Pimephales promelas	**Brine:**	Not Applicable
Duration:	6d 23h	**Source:**	Aquatic Biosystems, CO	**Age:**	

Sample ID:	07-6997-8923	**Code:**	VCF1012.085	**Client:**	VCWPD
Sample Date:	11 Oct-12 15:00	**Material:**	Sample Water	**Project:**	2012/13-1 (Wet)
Receive Date:	11 Oct-12 15:47	**Source:**	Bioassay Report		
Sample Age:	47h	**Station:**	MO-OJA		

Comparison Summary

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
14-8726-7892	7d Survival Rate	100	>100	NA	23.2%	1	Dunnett Multiple Comparison Test
01-1191-2211	Mean Dry Biomass-mg	100	>100	NA	20.6%	1	Dunnett Multiple Comparison Test

Point Estimate Summary

Analysis ID	Endpoint	Level	%	95% LCL	95% UCL	TU	Method
14-6015-5254	7d Survival Rate	EC5	>100	N/A	N/A	<1	Linear Interpolation (ICPIN)
		EC10	>100	N/A	N/A	<1	
		EC15	>100	N/A	N/A	<1	
		EC20	>100	N/A	N/A	<1	
		EC25	>100	N/A	N/A	<1	
		EC40	>100	N/A	N/A	<1	
		EC50	>100	N/A	N/A	<1	
03-2587-8812	Mean Dry Biomass-mg	IC5	>100	N/A	N/A	<1	Linear Interpolation (ICPIN)
		IC10	>100	N/A	N/A	<1	
		IC15	>100	N/A	N/A	<1	
		IC20	>100	N/A	N/A	<1	
		IC25	>100	N/A	N/A	<1	
		IC40	>100	N/A	N/A	<1	
		IC50	>100	N/A	N/A	<1	

Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits	Overlap	Decision
14-6015-5254	7d Survival Rate	Control Resp	0.8667	0.8 - NL	Yes	Passes Acceptability Criteria
14-8726-7892	7d Survival Rate	Control Resp	0.8667	0.8 - NL	Yes	Passes Acceptability Criteria
01-1191-2211	Mean Dry Biomass-mg	Control Resp	0.4178	0.25 - NL	Yes	Passes Acceptability Criteria
03-2587-8812	Mean Dry Biomass-mg	Control Resp	0.4178	0.25 - NL	Yes	Passes Acceptability Criteria
01-1191-2211	Mean Dry Biomass-mg	PMSD	0.2055	0.12 - 0.3	Yes	Passes Acceptability Criteria

7d Survival Rate Summary

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Negative Contro	4	0.8667	0.7801	0.9533	0.8	0.9333	0.02722	0.05443	6.28%	0.0%
6.25		4	0.9167	0.7832	1	0.8	1	0.04194	0.08389	9.15%	-5.77%
12.5		4	0.9167	0.7575	1	0.8	1	0.05	0.1	10.91%	-5.77%
25		4	0.9167	0.6515	1	0.6667	1	0.08333	0.1667	18.18%	-5.77%
50		4	1	1	1	1	1	0	0	0.0%	-15.38%
100		4	0.9167	0.8151	1	0.8667	1	0.03191	0.06383	6.96%	-5.77%

Mean Dry Biomass-mg Summary

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Negative Contro	4	0.4178	0.3322	0.5034	0.3633	0.4667	0.02689	0.05379	12.87%	0.0%
6.25		4	0.4105	0.3224	0.4986	0.336	0.4687	0.02768	0.05536	13.49%	1.76%
12.5		4	0.4305	0.4057	0.4553	0.41	0.4427	0.007805	0.01561	3.63%	-3.03%
25		4	0.4557	0.3426	0.5687	0.3573	0.518	0.03552	0.07104	15.59%	-9.06%
50		4	0.4367	0.3517	0.5216	0.3667	0.4953	0.02668	0.05337	12.22%	-4.51%
100		4	0.447	0.3924	0.5016	0.4233	0.4973	0.01715	0.0343	7.67%	-6.98%

Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

7d Survival Rate Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Contro	0.8	0.8667	0.8667	0.9333
6.25		0.9333	0.8	0.9333	1
12.5		0.8667	0.8	1	1
25		0.6667	1	1	1
50		1	1	1	1
100		1	0.8667	0.9333	0.8667

Mean Dry Biomass-mg Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Contro	0.4613	0.4667	0.3633	0.38
6.25		0.4687	0.336	0.4107	0.4267
12.5		0.4427	0.4267	0.4427	0.41
25		0.4953	0.452	0.3573	0.518
50		0.4953	0.4507	0.3667	0.434
100		0.44	0.4273	0.4973	0.4233

7d Survival Rate Binomials

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Contro	12/15	13/15	13/15	14/15
6.25		14/15	12/15	14/15	15/15
12.5		13/15	12/15	15/15	15/15
25		10/15	15/15	15/15	15/15
50		15/15	15/15	15/15	15/15
100		15/15	13/15	14/15	13/15

Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	14-8726-7892	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.8.6
Analyzed:	30 Oct-12 9:11	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Batch ID:	11-3184-6740	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	13 Oct-12 13:40	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	20 Oct-12 13:00	**Species:**	Pimephales promelas	**Brine:**	Not Applicable
Duration:	6d 23h	**Source:**	Aquatic Biosystems, CO	**Age:**	

Sample ID:	07-6997-8923	**Code:**	VCF1012.085	**Client:**	VCWPD
Sample Date:	11 Oct-12 15:00	**Material:**	Sample Water	**Project:**	2012/13-1 (Wet)
Receive Date:	11 Oct-12 15:47	**Source:**	Bioassay Report		
Sample Age:	47h	**Station:**	MO-OJA		

Data Transform	Zeta	Alt Hyp	Trials	Seed	PMSD	NOEL	LOEL	TOEL	TU
Angular (Corrected)	NA	C > T	NA	NA	23.2%	100	>100	NA	1

Dunnett Multiple Comparison Test

Control vs	C-%	Test Stat	Critical	MSD	DF	P-Value	P-Type	Decision(α:5%)
Negative Control	6.25	-0.8651	2.407	0.248	6	0.9753	CDF	Non-Significant Effect
	12.5	-0.9113	2.407	0.248	6	0.9781	CDF	Non-Significant Effect
	25	-1.135	2.407	0.248	6	0.9881	CDF	Non-Significant Effect
	50	-2.313	2.407	0.248	6	0.9997	CDF	Non-Significant Effect
	100	-0.8099	2.407	0.248	6	0.9715	CDF	Non-Significant Effect

Test Acceptability Criteria

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.8667	0.8 - NL	Yes	Passes Acceptability Criteria

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	0.1194045	0.02388089	5	1.122	0.3840	Non-Significant Effect
Error	0.3831211	0.0212845	18			
Total	0.5025256		23			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Mod Levene Equality of Variance	0.8042	4.248	0.5613	Equal Variances
Variances	Levene Equality of Variance	3.369	4.248	0.0254	Equal Variances
Distribution	Shapiro-Wilk W Normality	0.9002	0.884	0.0217	Normal Distribution
Distribution	Kolmogorov-Smirnov D	0.1907	0.2056	0.0240	Normal Distribution
Distribution	D'Agostino Skewness	2.06	2.576	0.0394	Normal Distribution
Distribution	D'Agostino Kurtosis	1.372	2.576	0.1701	Normal Distribution
Distribution	D'Agostino-Pearson K2 Omnibus	6.127	9.21	0.0467	Normal Distribution
Distribution	Anderson-Darling A2 Normality	0.8512	3.878	0.0284	Normal Distribution

7d Survival Rate Summary

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	Negative Control	4	0.8667	0.7801	0.9533	0.8667	0.8	0.9333	0.02722	6.28%	0.0%
6.25		4	0.9167	0.7832	1	0.9333	0.8	1	0.04194	9.15%	-5.77%
12.5		4	0.9167	0.7575	1	0.9333	0.8	1	0.05	10.91%	-5.77%
25		4	0.9167	0.6515	1	1	0.6667	1	0.08333	18.18%	-5.77%
50		4	1	1	1	1	1	1	0	0.0%	-15.38%
100		4	0.9167	0.8151	1	0.9	0.8667	1	0.03191	6.96%	-5.77%

Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	14-8726-7892	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.8.6
Analyzed:	30 Oct-12 9:11	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Angular (Corrected) Transformed Summary

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	Negative Contr	4	1.203	1.071	1.335	1.197	1.107	1.31	0.04146	6.9%	0.0%
6.25		4	1.292	1.072	1.511	1.31	1.107	1.441	0.06898	10.68%	-7.42%
12.5		4	1.297	1.025	1.569	1.319	1.107	1.441	0.08549	13.19%	-7.82%
25		4	1.32	0.9331	1.707	1.441	0.9553	1.441	0.1215	18.41%	-9.74%
50		4	1.441	1.441	1.442	1.441	1.441	1.441	0	0.0%	-19.84%
100		4	1.286	1.101	1.471	1.253	1.197	1.441	0.05811	9.04%	-6.95%

7d Survival Rate Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.8	0.8667	0.8667	0.9333
6.25		0.9333	0.8	0.9333	1
12.5		0.8667	0.8	1	1
25		0.6667	1	1	1
50		1	1	1	1
100		1	0.8667	0.9333	0.8667

Angular (Corrected) Transformed Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1.107	1.197	1.197	1.31
6.25		1.31	1.107	1.31	1.441
12.5		1.197	1.107	1.441	1.441
25		0.9553	1.441	1.441	1.441
50		1.441	1.441	1.441	1.441
100		1.441	1.197	1.31	1.197

7d Survival Rate Binomials

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Contro	12/15	13/15	13/15	14/15
6.25		14/15	12/15	14/15	15/15
12.5		13/15	12/15	15/15	15/15
25		10/15	15/15	15/15	15/15
50		15/15	15/15	15/15	15/15
100		15/15	13/15	14/15	13/15

Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	01-1191-2211	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.8.6
Analyzed:	30 Oct-12 9:11	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Batch ID:	11-3184-6740	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	13 Oct-12 13:40	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	20 Oct-12 13:00	**Species:**	Pimephales promelas	**Brine:**	Not Applicable
Duration:	6d 23h	**Source:**	Aquatic Biosystems, CO	**Age:**	

Sample ID:	07-6997-8923	**Code:**	VCF1012.085	**Client:**	VCWPD
Sample Date:	11 Oct-12 15:00	**Material:**	Sample Water	**Project:**	2012/13-1 (Wet)
Receive Date:	11 Oct-12 15:47	**Source:**	Bioassay Report		
Sample Age:	47h	**Station:**	MO-OJA		

Data Transform	Zeta	Alt Hyp	Trials	Seed	PMSD	NOEL	LOEL	TOEL	TU
Untransformed	NA	C > T	NA	NA	20.6%	100	>100	NA	1

Dunnett Multiple Comparison Test

Control vs	C-%	Test Stat	Critical	MSD	DF	P-Value	P-Type	Decision(α:5%)
Negative Control	6.25	0.2056	2.407	0.086	6	0.7657	CDF	Non-Significant Effect
	12.5	-0.355	2.407	0.086	6	0.9168	CDF	Non-Significant Effect
	25	-1.06	2.407	0.086	6	0.9854	CDF	Non-Significant Effect
	50	-0.5279	2.407	0.086	6	0.9434	CDF	Non-Significant Effect
	100	-0.8175	2.407	0.086	6	0.9721	CDF	Non-Significant Effect

Test Acceptability Criteria

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.4178	0.25 - NL	Yes	Passes Acceptability Criteria
PMSD	0.2055	0.12 - 0.3	Yes	Passes Acceptability Criteria

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	0.005862983	0.001172597	5	0.4606	0.8003	Non-Significant Effect
Error	0.04582056	0.002545587	18			
Total	0.05168355		23			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Bartlett Equality of Variance	5.332	15.09	0.3767	Equal Variances
Variances	Mod Levene Equality of Variance	0.9659	4.248	0.4644	Equal Variances
Variances	Levene Equality of Variance	1.119	4.248	0.3855	Equal Variances
Distribution	Shapiro-Wilk W Normality	0.9497	0.884	0.2674	Normal Distribution
Distribution	Kolmogorov-Smirnov D	0.1046	0.2056	0.7513	Normal Distribution
Distribution	D'Agostino Skewness	1.072	2.576	0.2838	Normal Distribution
Distribution	D'Agostino Kurtosis	0.2325	2.576	0.8161	Normal Distribution
Distribution	D'Agostino-Pearson K2 Omnibus	1.203	9.21	0.5481	Normal Distribution
Distribution	Anderson-Darling A2 Normality	0.4203	3.878	0.3294	Normal Distribution

Mean Dry Biomass-mg Summary

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	Negative Control	4	0.4178	0.3322	0.5034	0.4207	0.3633	0.4667	0.02689	12.87%	0.0%
6.25		4	0.4105	0.3224	0.4986	0.4187	0.336	0.4687	0.02768	13.49%	1.76%
12.5		4	0.4305	0.4057	0.4553	0.4347	0.41	0.4427	0.007805	3.63%	-3.03%
25		4	0.4557	0.3426	0.5687	0.4737	0.3573	0.518	0.03552	15.59%	-9.06%
50		4	0.4367	0.3517	0.5216	0.4423	0.3667	0.4953	0.02668	12.22%	-4.51%
100		4	0.447	0.3924	0.5016	0.4337	0.4233	0.4973	0.01715	7.67%	-6.98%

Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	01-1191-2211	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.8.6
Analyzed:	30 Oct-12 9:11	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Mean Dry Biomass-mg Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.4613	0.4667	0.3633	0.38
6.25		0.4687	0.336	0.4107	0.4267
12.5		0.4427	0.4267	0.4427	0.41
25		0.4953	0.452	0.3573	0.518
50		0.4953	0.4507	0.3667	0.434
100		0.44	0.4273	0.4973	0.4233

CETIS Analytical Report

Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	14-6015-5254	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.8.6
Analyzed:	30 Oct-12 9:11	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Batch ID:	11-3184-6740	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	13 Oct-12 13:40	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	20 Oct-12 13:00	**Species:**	Pimephales promelas	**Brine:**	Not Applicable
Duration:	6d 23h	**Source:**	Aquatic Biosystems, CO	**Age:**	

Sample ID:	07-6997-8923	**Code:**	VCF1012.085	**Client:**	VCWPD
Sample Date:	11 Oct-12 15:00	**Material:**	Sample Water	**Project:**	2012/13-1 (Wet)
Receive Date:	11 Oct-12 15:47	**Source:**	Bioassay Report		
Sample Age:	47h	**Station:**	MO-OJA		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	0	280	Yes	Two-Point Interpolation

Test Acceptability Criteria

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.8667	0.8 - NL	Yes	Passes Acceptability Criteria

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
EC5	>100	N/A	N/A	<1	NA	NA
EC10	>100	N/A	N/A	<1	NA	NA
EC15	>100	N/A	N/A	<1	NA	NA
EC20	>100	N/A	N/A	<1	NA	NA
EC25	>100	N/A	N/A	<1	NA	NA
EC40	>100	N/A	N/A	<1	NA	NA
EC50	>100	N/A	N/A	<1	NA	NA

7d Survival Rate Summary

			Calculated Variate(A/B)								
C-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	%Effect	A	B
0	Negative Control	4	0.8667	0.8	0.9333	0.02722	0.05443	6.28%	0.0%	52	60
6.25		4	0.9167	0.8	1	0.04194	0.08389	9.15%	-5.77%	55	60
12.5		4	0.9167	0.8	1	0.05	0.1	10.91%	-5.77%	55	60
25		4	0.9167	0.6667	1	0.08333	0.1667	18.18%	-5.77%	55	60
50		4	1	1	1	0	0	0.0%	-15.38%	60	60
100		4	0.9167	0.8667	1	0.03191	0.06383	6.96%	-5.77%	55	60

7d Survival Rate Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.8	0.8667	0.8667	0.9333
6.25		0.9333	0.8	0.9333	1
12.5		0.8667	0.8	1	1
25		0.6667	1	1	1
50		1	1	1	1
100		1	0.8667	0.9333	0.8667

7d Survival Rate Binomials

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Contro	12/15	13/15	13/15	14/15
6.25		14/15	12/15	14/15	15/15
12.5		13/15	12/15	15/15	15/15
25		10/15	15/15	15/15	15/15
50		15/15	15/15	15/15	15/15
100		15/15	13/15	14/15	13/15

Analysis ID:	14-6015-5254	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.8.6
Analyzed:	30 Oct-12 9:11	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	03-2587-8812	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.8.6
Analyzed:	30 Oct-12 9:11	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Batch ID:	11-3184-6740	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	13 Oct-12 13:40	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	20 Oct-12 13:00	**Species:**	Pimephales promelas	**Brine:**	Not Applicable
Duration:	6d 23h	**Source:**	Aquatic Biosystems, CO	**Age:**	

Sample ID:	07-6997-8923	**Code:**	VCF1012.085	**Client:**	VCWPD
Sample Date:	11 Oct-12 15:00	**Material:**	Sample Water	**Project:**	2012/13-1 (Wet)
Receive Date:	11 Oct-12 15:47	**Source:**	Bioassay Report		
Sample Age:	47h	**Station:**	MO-OJA		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	890405	280	Yes	Two-Point Interpolation

Test Acceptability Criteria

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.4178	0.25 - NL	Yes	Passes Acceptability Criteria

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
IC5	>100	N/A	N/A	<1	NA	NA
IC10	>100	N/A	N/A	<1	NA	NA
IC15	>100	N/A	N/A	<1	NA	NA
IC20	>100	N/A	N/A	<1	NA	NA
IC25	>100	N/A	N/A	<1	NA	NA
IC40	>100	N/A	N/A	<1	NA	NA
IC50	>100	N/A	N/A	<1	NA	NA

Mean Dry Biomass-mg Summary

			Calculated Variate						
C-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Negative Control	4	0.4178	0.3633	0.4667	0.02689	0.05379	12.87%	0.0%
6.25		4	0.4105	0.336	0.4687	0.02768	0.05536	13.49%	1.76%
12.5		4	0.4305	0.41	0.4427	0.007805	0.01561	3.63%	-3.03%
25		4	0.4557	0.3573	0.518	0.03552	0.07104	15.59%	-9.06%
50		4	0.4367	0.3667	0.4953	0.02668	0.05337	12.22%	-4.51%
100		4	0.447	0.4233	0.4973	0.01715	0.0343	7.67%	-6.98%

Mean Dry Biomass-mg Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.4613	0.4667	0.3633	0.38
6.25		0.4687	0.336	0.4107	0.4267
12.5		0.4427	0.4267	0.4427	0.41
25		0.4953	0.452	0.3573	0.518
50		0.4953	0.4507	0.3667	0.434
100		0.44	0.4273	0.4973	0.4233

Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	03-2587-8812	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.8.6
Analyzed:	30 Oct-12 9:11	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

CETIS Measurement Report

Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Batch ID:	11-3184-6740	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	13 Oct-12 13:40	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	20 Oct-12 13:00	**Species:**	Pimephales promelas	**Brine:**	Not Applicable
Duration:	6d 23h	**Source:**	Aquatic Biosystems, CO	**Age:**	

Sample ID:	07-6997-8923	**Code:**	VCF1012.085	**Client:**	VCWPD
Sample Date:	11 Oct-12 15:00	**Material:**	Sample Water	**Project:**	2012/13-1 (Wet)
Receive Date:	11 Oct-12 15:47	**Source:**	Bioassay Report		
Sample Age:	47h	**Station:**	MO-OJA		

Alkalinity (CaCO3)-mg/L

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	1	61			61	61	0	0	0.0%	0
100		1	40			40	40	0	0	0.0%	0
Overall		2	50.5			40	61				0 (0%)

Conductivity-µmhos

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	343.6	339.4	347.9	334	351	1.792	5.069	1.48%	0
6.25		8	328.5	322.4	334.6	320	339	2.584	7.309	2.23%	0
12.5		8	312.9	309.3	316.5	305	318	1.529	4.324	1.38%	0
25		8	291.6	287.6	295.7	285	300	1.711	4.838	1.66%	0
50		8	251.1	244.3	257.9	242	268	2.881	8.149	3.25%	0
100		8	156.3	148.1	164.4	140	170	3.437	9.721	6.22%	0
Overall		48	280.7			140	351				0 (0%)

Dissolved Oxygen-mg/L

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	8.025	7.55	8.5	6.9	8.6	0.2007	0.5676	7.07%	0
6.25		8	7.588	7.05	8.125	6.1	8.2	0.2271	0.6424	8.47%	0
12.5		8	6.7	6.071	7.329	5.4	7.7	0.2659	0.7521	11.23%	0
25		8	6.7	6.071	7.329	5.4	7.7	0.2659	0.7521	11.23%	0
50		8	5.725	5.064	6.386	4.2	7	0.2795	0.7906	13.81%	0
100		8	4.375	4.01	4.74	4	5.2	0.1544	0.4367	9.98%	0
Overall		48	6.519			4	8.6				0 (0%)

Hardness (CaCO3)-mg/L

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	1	85			85	85	0	0	0.0%	0
100		1	56			56	56	0	0	0.0%	0
Overall		2	70.5			56	85				0 (0%)

pH-Units

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.988	7.883	8.092	7.8	8.2	0.04407	0.1246	1.56%	0
6.25		8	7.85	7.65	8.05	7.7	8.4	0.08451	0.239	3.05%	0
12.5		8	7.788	7.571	8.004	7.6	8.4	0.09149	0.2588	3.32%	0
25		8	7.638	7.401	7.874	7.4	8.3	0.09989	0.2825	3.7%	0
50		8	7.425	7.162	7.688	7	8.1	0.1114	0.3151	4.24%	0
100		8	7.013	6.617	7.408	6.6	7.9	0.1674	0.4734	6.75%	0
Overall		48	7.617			6.6	8.4				0 (0%)

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Temperature-°C

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	24	24	24	24	24	0	0	0.0%	0
6.25		8	24	24	24	24	24	0	0	0.0%	0
12.5		8	24	24	24	24	24	0	0	0.0%	0
25		8	24	24	24	24	24	0	0	0.0%	0
50		8	24	24	24	24	24	0	0	0.0%	0
100		8	24.01	23.98	24.04	24	24.1	0.01249	0.03531	0.15%	0
Overall		48	24			24	24.1				0 (0%)

Alkalinity (CaCO3)-mg/L

C-%	Control Type	1
0	Negative Contr	61
100		40

Conductivity-µmhos

C-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	334	343	342	341	351	348	345	345
6.25		330	320	323	326	321	331	339	338
12.5		310	305	310	315	315	317	313	318
25		287	285	289	291	293	296	292	300
50		244	242	247	249	251	256	252	268
100		158	154	160	160	163	170	140	145

Dissolved Oxygen-mg/L

C-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	8.1	8	8	8.6	7.6	8.6	8.4	6.9
6.25		8.2	8	7.7	7.6	7.5	7.7	7.9	6.1
12.5		7.1	7.1	6.9	5.4	6.6	7.7	7	5.8
25		7.1	7.1	6.9	5.4	6.6	7.7	7	5.8
50		6	5.8	5.8	4.2	5.6	7	6.1	5.3
100		4.7	4	4	4	4.4	4.1	4.6	5.2

Hardness (CaCO3)-mg/L

C-%	Control Type	1
0	Negative Contr	85
100		56

pH-Units

C-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	8.1	8.2	8	7.9	7.9	8	8	7.8
6.25		7.9	8.4	7.7	7.7	7.7	7.9	7.8	7.7
12.5		7.8	8.4	7.7	7.6	7.6	7.8	7.7	7.7
25		7.6	8.3	7.5	7.4	7.5	7.7	7.5	7.6
50		7.3	8.1	7.3	7	7.4	7.5	7.3	7.5
100		6.6	7.9	6.7	6.6	7.1	6.7	7	7.5

Temperature-°C

C-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	24	24	24	24	24	24	24	24
6.25		24	24	24	24	24	24	24	24
12.5		24	24	24	24	24	24	24	24
25		24	24	24	24	24	24	24	24
50		24	24	24	24	24	24	24	24
100		24	24	24	24	24.1	24	24	24

aquatic bioassay & consulting laboratories, inc

CHRONIC FATHEAD MINNOW SURVIVAL AND GROWTH BIOASSAY

DATE: 13 October 2012

STANDARD TOXICANT: Copper Chloride

ENDPOINT: SURVIVAL

NOEC = 75.00 ug/l

EC25 = 75.00 ug/l
EC50 = 94.12 ug/l

ENDPOINT: GROWTH

NOEC = 38.00 ug/l

IC25 = 39.75 ug/l
IC50 = 72.08 ug/l

Yours very truly,

Scott Johnson
Laboratory Director

29 north olive ventura, ca 93001 (805) 643 5621 www.aquabio.org

CETIS Summary Report

Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Batch ID:	11-7957-7585	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	13 Oct-12 13:29	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	20 Oct-12 13:00	**Species:**	Pimephales promelas	**Brine:**	Not Applicable
Duration:	7d	**Source:**	Aquatic Biosystems, CO	**Age:**	

Sample ID:	07-4201-8705	**Code:**	FML101312	**Client:**	ABC Labs
Sample Date:	13 Oct-12	**Material:**	Copper chloride	**Project:**	REF TOX
Receive Date:		**Source:**	Reference Toxicant		
Sample Age:	13h	**Station:**	REF TOX		

Comparison Summary

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
04-4754-6068	7d Survival Rate	75	100	86.6	36.3%		Dunnett Multiple Comparison Test
00-2599-7147	Mean Dry Biomass-mg	38	75	53.39	41.6%		Steel Many-One Rank Sum Test

Point Estimate Summary

Analysis ID	Endpoint	Level	µg/L	95% LCL	95% UCL	TU	Method
13-0815-0426	7d Survival Rate	EC5	4.333	0.28	70.78		Linear Interpolation (ICPIN)
		EC10	8.667	0.56	84.62		
		EC15	47.51	N/A	82.27		
		EC20	61.26	N/A	86.85		
		EC25	75	N/A	84.41		
		EC40	86.47	76.12	104.1		
		EC50	94.12	81.53	N/A		
20-2965-6413	Mean Dry Biomass-mg	IC5	2.114	0.6761	35.86		Linear Interpolation (ICPIN)
		IC10	4.229	1.352	45.28		
		IC15	6.343	2.028	61.5		
		IC20	8.458	2.704	68.77		
		IC25	39.75	N/A	57.56		
		IC40	59.15	N/A	73.56		
		IC50	72.08	55.68	83.17		

Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits	Overlap	Decision
04-4754-6068	7d Survival Rate	Control Resp	0.8667	0.8 - NL	Yes	Passes Acceptability Criteria
13-0815-0426	7d Survival Rate	Control Resp	0.8667	0.8 - NL	Yes	Passes Acceptability Criteria
00-2599-7147	Mean Dry Biomass-mg	Control Resp	0.4095	0.25 - NL	Yes	Passes Acceptability Criteria
20-2965-6413	Mean Dry Biomass-mg	Control Resp	0.4095	0.25 - NL	Yes	Passes Acceptability Criteria
00-2599-7147	Mean Dry Biomass-mg	PMSD	0.4162	0.12 - 0.3	Yes	Above Acceptability Criteria

7d Survival Rate Summary

C-µg/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Negative Contro	4	0.8667	0.7801	0.9533	0.8	0.9333	0.02722	0.05443	6.28%	0.0%
10		4	0.7	0.4193	0.9807	0.4667	0.8667	0.08819	0.1764	25.2%	19.23%
19		4	0.7167	0.1663	1	0.2	0.9333	0.1729	0.3459	48.26%	17.31%
38		4	0.8833	0.7818	0.9849	0.8	0.9333	0.03191	0.06383	7.23%	-1.92%
75		4	0.65	0.5165	0.7835	0.5333	0.7333	0.04194	0.08389	12.91%	25.0%
100		4	0.3667	0.03685	0.6965	0.06667	0.5333	0.1036	0.2073	56.53%	57.69%

Mean Dry Biomass-mg Summary

C-µg/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Negative Contro	4	0.4095	0.3348	0.4842	0.3633	0.4667	0.02347	0.04695	11.46%	0.0%
10		4	0.2487	0.03821	0.4591	0.1433	0.4413	0.06613	0.1323	53.19%	39.28%
19		4	0.3673	0.06568	0.669	0.08467	0.4887	0.09479	0.1896	51.61%	10.3%
38		4	0.322	0.27	0.374	0.292	0.368	0.01633	0.03266	10.14%	21.37%
75		4	0.1955	0.1488	0.2422	0.1687	0.2253	0.01467	0.02934	15.01%	52.26%
100		4	0.07633	-0.00497	0.1576	0.01333	0.13	0.02555	0.05109	66.93%	81.36%

Fathead Minnow 7-d Larval Survival and Growth Test

Aquatic Bioassay & Consulting Labs, Inc.

7d Survival Rate Detail

C-µg/L	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Contro	0.8	0.8667	0.8667	0.9333
10		0.8	0.6667	0.4667	0.8667
19		0.2	0.8667	0.9333	0.8667
38		0.8667	0.8	0.9333	0.9333
75		0.5333	0.6667	0.7333	0.6667
100		0.5333	0.4	0.4667	0.06667

Mean Dry Biomass-mg Detail

C-µg/L	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Contro	0.428	0.4667	0.3633	0.38
10		0.19	0.1433	0.22	0.4413
19		0.08467	0.4887	0.4573	0.4387
38		0.3087	0.292	0.368	0.3193
75		0.1687	0.172	0.216	0.2253
100		0.13	0.05933	0.1027	0.01333

7d Survival Rate Binomials

C-µg/L	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Contro	12/15	13/15	13/15	14/15
10		12/15	10/15	7/15	13/15
19		3/15	13/15	14/15	13/15
38		13/15	12/15	14/15	14/15
75		8/15	10/15	11/15	10/15
100		8/15	6/15	7/15	1/15

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	04-4754-6068	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.8.6
Analyzed:	30 Oct-12 9:11	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Batch ID:	11-7957-7585	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	13 Oct-12 13:29	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	20 Oct-12 13:00	**Species:**	Pimephales promelas	**Brine:**	Not Applicable
Duration:	7d	**Source:**	Aquatic Biosystems, CO	**Age:**	

Sample ID:	07-4201-8705	**Code:**	FML101312	**Client:**	ABC Labs
Sample Date:	13 Oct-12	**Material:**	Copper chloride	**Project:**	REF TOX
Receive Date:		**Source:**	Reference Toxicant		
Sample Age:	13h	**Station:**	REF TOX		

Data Transform	Zeta	Alt Hyp	Trials	Seed	PMSD	NOEL	LOEL	TOEL	TU
Angular (Corrected)	NA	C > T	NA	NA	36.3%	75	100	86.6	

Dunnett Multiple Comparison Test

Control vs	C-µg/L	Test Stat	Critical	MSD	DF	P-Value	P-Type	Decision(α:5%)
Negative Control	10	1.316	2.407	0.366	6	0.2920	CDF	Non-Significant Effect
	19	1.06	2.407	0.366	6	0.3959	CDF	Non-Significant Effect
	38	-0.1855	2.407	0.366	6	0.8821	CDF	Non-Significant Effect
	75	1.734	2.407	0.366	6	0.1610	CDF	Non-Significant Effect
	100*	3.777	2.407	0.366	6	0.0030	CDF	Significant Effect

Test Acceptability Criteria

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.8667	0.8 - NL	Yes	Passes Acceptability Criteria

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	0.9478583	0.1895717	5	4.112	0.0115	Significant Effect
Error	0.8299058	0.04610588	18			
Total	1.777764		23			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Bartlett Equality of Variance	10.51	15.09	0.0620	Equal Variances
Variances	Mod Levene Equality of Variance	0.5614	4.248	0.7282	Equal Variances
Variances	Levene Equality of Variance	2.727	4.248	0.0528	Equal Variances
Distribution	Shapiro-Wilk W Normality	0.8843	0.884	0.0102	Normal Distribution
Distribution	Kolmogorov-Smirnov D	0.1547	0.2056	0.1423	Normal Distribution
Distribution	D'Agostino Skewness	2.875	2.576	0.0040	Non-normal Distribution
Distribution	D'Agostino Kurtosis	2.198	2.576	0.0280	Normal Distribution
Distribution	D'Agostino-Pearson K2 Omnibus	13.1	9.21	0.0014	Non-normal Distribution
Distribution	Anderson-Darling A2 Normality	0.9907	3.878	0.0131	Normal Distribution

7d Survival Rate Summary

C-µg/L	Control Type	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	Negative Control	4	0.8667	0.7801	0.9533	0.8667	0.8	0.9333	0.02722	6.28%	0.0%
10		4	0.7	0.4193	0.9807	0.7333	0.4667	0.8667	0.08819	25.2%	19.23%
19		4	0.7167	0.1663	1	0.8667	0.2	0.9333	0.1729	48.26%	17.31%
38		4	0.8833	0.7818	0.9849	0.9	0.8	0.9333	0.03191	7.23%	-1.92%
75		4	0.65	0.5165	0.7835	0.6667	0.5333	0.7333	0.04194	12.91%	25.0%
100		4	0.3667	0.03685	0.6965	0.4333	0.06667	0.5333	0.1036	56.53%	57.69%

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	04-4754-6068	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.8.6
Analyzed:	30 Oct-12 9:11	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Angular (Corrected) Transformed Summary

C-µg/L	Control Type	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	Negative Contr	4	1.203	1.071	1.335	1.197	1.107	1.31	0.04146	6.9%	0.0%
10		4	1.003	0.693	1.313	1.031	0.752	1.197	0.09736	19.42%	16.61%
19		4	1.042	0.4227	1.661	1.197	0.4636	1.31	0.1945	37.35%	13.38%
38		4	1.231	1.075	1.387	1.253	1.107	1.31	0.04904	7.97%	-2.34%
75		4	0.9394	0.8002	1.079	0.9553	0.8188	1.028	0.04372	9.31%	21.89%
100		4	0.6292	0.2292	1.029	0.7184	0.2612	0.8188	0.1257	39.95%	47.69%

7d Survival Rate Detail

C-µg/L	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.8	0.8667	0.8667	0.9333
10		0.8	0.6667	0.4667	0.8667
19		0.2	0.8667	0.9333	0.8667
38		0.8667	0.8	0.9333	0.9333
75		0.5333	0.6667	0.7333	0.6667
100		0.5333	0.4	0.4667	0.06667

Angular (Corrected) Transformed Detail

C-µg/L	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1.107	1.197	1.197	1.31
10		1.107	0.9553	0.752	1.197
19		0.4636	1.197	1.31	1.197
38		1.197	1.107	1.31	1.31
75		0.8188	0.9553	1.028	0.9553
100		0.8188	0.6847	0.752	0.2612

7d Survival Rate Binomials

C-µg/L	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Contro	12/15	13/15	13/15	14/15
10		12/15	10/15	7/15	13/15
19		3/15	13/15	14/15	13/15
38		13/15	12/15	14/15	14/15
75		8/15	10/15	11/15	10/15
100		8/15	6/15	7/15	1/15

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	00-2599-7147	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.8.6
Analyzed:	30 Oct-12 9:11	**Analysis:**	Nonparametric-Control vs Treatments	**Official Results:**	Yes

Batch ID:	11-7957-7585	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	13 Oct-12 13:29	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	20 Oct-12 13:00	**Species:**	Pimephales promelas	**Brine:**	Not Applicable
Duration:	7d	**Source:**	Aquatic Biosystems, CO	**Age:**	

Sample ID:	07-4201-8705	**Code:**	FML101312	**Client:**	ABC Labs
Sample Date:	13 Oct-12	**Material:**	Copper chloride	**Project:**	REF TOX
Receive Date:		**Source:**	Reference Toxicant		
Sample Age:	13h	**Station:**	REF TOX		

Data Transform	Zeta	Alt Hyp	Trials	Seed	PMSD	NOEL	LOEL	TOEL	TU
Untransformed	NA	C > T	NA	NA	41.6%	38	75	53.39	

Steel Many-One Rank Sum Test

Control vs	C-µg/L	Test Stat	Critical	Ties	DF	P-Value	P-Type	Decision(α:5%)
Negative Control	10	13	10	0	6	0.2311	Asymp	Non-Significant Effect
	19	20	10	0	6	0.9516	Asymp	Non-Significant Effect
	38	11	10	0	6	0.0805	Asymp	Non-Significant Effect
	75*	10	10	0	6	0.0417	Asymp	Significant Effect
	100*	10	10	0	6	0.0417	Asymp	Significant Effect

Test Acceptability Criteria

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.4095	0.25 - NL	Yes	Passes Acceptability Criteria
PMSD	0.4162	0.12 - 0.3	Yes	Above Acceptability Criteria

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	0.3006004	0.06012007	5	5.995	0.0020	Significant Effect
Error	0.1805167	0.0100287	18			
Total	0.4811171		23			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Bartlett Equality of Variance	15.2	15.09	0.0095	Unequal Variances
Variances	Mod Levene Equality of Variance	0.656	4.248	0.6610	Equal Variances
Variances	Levene Equality of Variance	3.516	4.248	0.0216	Equal Variances
Distribution	Shapiro-Wilk W Normality	0.9076	0.884	0.0313	Normal Distribution
Distribution	Kolmogorov-Smirnov D	0.1591	0.2056	0.1176	Normal Distribution
Distribution	D'Agostino Skewness	1.975	2.576	0.0482	Normal Distribution
Distribution	D'Agostino Kurtosis	2.679	2.576	0.0074	Non-normal Distribution
Distribution	D'Agostino-Pearson K2 Omnibus	11.08	9.21	0.0039	Non-normal Distribution
Distribution	Anderson-Darling A2 Normality	0.8	3.878	0.0380	Normal Distribution

Mean Dry Biomass-mg Summary

C-µg/L	Control Type	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	Negative Control	4	0.4095	0.3348	0.4842	0.404	0.3633	0.4667	0.02347	11.46%	0.0%
10		4	0.2487	0.03821	0.4591	0.205	0.1433	0.4413	0.06613	53.19%	39.28%
19		4	0.3673	0.06568	0.669	0.448	0.08467	0.4887	0.09479	51.61%	10.3%
38		4	0.322	0.27	0.374	0.314	0.292	0.368	0.01633	10.14%	21.37%
75		4	0.1955	0.1488	0.2422	0.194	0.1687	0.2253	0.01467	15.01%	52.26%
100		4	0.07633	-0.00497	0.1576	0.081	0.01333	0.13	0.02555	66.93%	81.36%

Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	00-2599-7147	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.8.6
Analyzed:	30 Oct-12 9:11	**Analysis:**	Nonparametric-Control vs Treatments	**Official Results:**	Yes

Mean Dry Biomass-mg Detail

C-µg/L	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.428	0.4667	0.3633	0.38
10		0.19	0.1433	0.22	0.4413
19		0.08467	0.4887	0.4573	0.4387
38		0.3087	0.292	0.368	0.3193
75		0.1687	0.172	0.216	0.2253
100		0.13	0.05933	0.1027	0.01333

Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	13-0815-0426	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.8.6
Analyzed:	30 Oct-12 9:11	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Batch ID:	11-7957-7585	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	13 Oct-12 13:29	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	20 Oct-12 13:00	**Species:**	Pimephales promelas	**Brine:**	Not Applicable
Duration:	7d	**Source:**	Aquatic Biosystems, CO	**Age:**	

Sample ID:	07-4201-8705	**Code:**	FML101312	**Client:**	ABC Labs
Sample Date:	13 Oct-12	**Material:**	Copper chloride	**Project:**	REF TOX
Receive Date:		**Source:**	Reference Toxicant		
Sample Age:	13h	**Station:**	REF TOX		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	0	280	Yes	Two-Point Interpolation

Test Acceptability Criteria

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.8667	0.8 - NL	Yes	Passes Acceptability Criteria

Point Estimates

Level	µg/L	95% LCL	95% UCL
EC5	4.333	0.28	70.78
EC10	8.667	0.56	84.62
EC15	47.51	N/A	82.27
EC20	61.26	N/A	86.85
EC25	75	N/A	84.41
EC40	86.47	76.12	104.1
EC50	94.12	81.53	N/A

7d Survival Rate Summary

			Calculated Variate(A/B)								
C-µg/L	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	%Effect	A	B
0	Negative Control	4	0.8667	0.8	0.9333	0.02722	0.05443	6.28%	0.0%	52	60
10		4	0.7	0.4667	0.8667	0.08819	0.1764	25.2%	19.23%	42	60
19		4	0.7167	0.2	0.9333	0.1729	0.3459	48.26%	17.31%	43	60
38		4	0.8833	0.8	0.9333	0.03191	0.06383	7.23%	-1.92%	53	60
75		4	0.65	0.5333	0.7333	0.04194	0.08389	12.91%	25.0%	39	60
100		4	0.3667	0.06667	0.5333	0.1036	0.2073	56.53%	57.69%	22	60

7d Survival Rate Detail

C-µg/L	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.8	0.8667	0.8667	0.9333
10		0.8	0.6667	0.4667	0.8667
19		0.2	0.8667	0.9333	0.8667
38		0.8667	0.8	0.9333	0.9333
75		0.5333	0.6667	0.7333	0.6667
100		0.5333	0.4	0.4667	0.06667

7d Survival Rate Binomials

C-µg/L	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Contro	12/15	13/15	13/15	14/15
10		12/15	10/15	7/15	13/15
19		3/15	13/15	14/15	13/15
38		13/15	12/15	14/15	14/15
75		8/15	10/15	11/15	10/15
100		8/15	6/15	7/15	1/15

Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	13-0815-0426	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.8.6
Analyzed:	30 Oct-12 9:11	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	20-2965-6413	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.8.6
Analyzed:	30 Oct-12 9:11	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Batch ID:	11-7957-7585	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	13 Oct-12 13:29	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	20 Oct-12 13:00	**Species:**	Pimephales promelas	**Brine:**	Not Applicable
Duration:	7d	**Source:**	Aquatic Biosystems, CO	**Age:**	

Sample ID:	07-4201-8705	**Code:**	FML101312	**Client:**	ABC Labs
Sample Date:	13 Oct-12	**Material:**	Copper chloride	**Project:**	REF TOX
Receive Date:		**Source:**	Reference Toxicant		
Sample Age:	13h	**Station:**	REF TOX		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	582951	280	Yes	Two-Point Interpolation

Test Acceptability Criteria

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.4095	0.25 - NL	Yes	Passes Acceptability Criteria

Point Estimates

Level	µg/L	95% LCL	95% UCL
IC5	2.114	0.6761	35.86
IC10	4.229	1.352	45.28
IC15	6.343	2.028	61.5
IC20	8.458	2.704	68.77
IC25	39.75	N/A	57.56
IC40	59.15	N/A	73.56
IC50	72.08	55.68	83.17

Mean Dry Biomass-mg Summary

			Calculated Variate						
C-µg/L	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Negative Control	4	0.4095	0.3633	0.4667	0.02347	0.04695	11.46%	0.0%
10		4	0.2487	0.1433	0.4413	0.06613	0.1323	53.19%	39.28%
19		4	0.3673	0.08467	0.4887	0.09479	0.1896	51.61%	10.3%
38		4	0.322	0.292	0.368	0.01633	0.03266	10.14%	21.37%
75		4	0.1955	0.1687	0.2253	0.01467	0.02934	15.01%	52.26%
100		4	0.07633	0.01333	0.13	0.02555	0.05109	66.93%	81.36%

Mean Dry Biomass-mg Detail

C-µg/L	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.428	0.4667	0.3633	0.38
10		0.19	0.1433	0.22	0.4413
19		0.08467	0.4887	0.4573	0.4387
38		0.3087	0.292	0.368	0.3193
75		0.1687	0.172	0.216	0.2253
100		0.13	0.05933	0.1027	0.01333

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	20-2965-6413	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.8.6
Analyzed:	30 Oct-12 9:11	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Batch ID:	11-7957-7585	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	13 Oct-12 13:29	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	20 Oct-12 13:00	**Species:**	Pimephales promelas	**Brine:**	Not Applicable
Duration:	7d	**Source:**	Aquatic Biosystems, CO	**Age:**	

Sample ID:	07-4201-8705	**Code:**	FML101312	**Client:**	ABC Labs
Sample Date:	13 Oct-12	**Material:**	Copper chloride	**Project:**	REF TOX
Receive Date:		**Source:**	Reference Toxicant		
Sample Age:	13h	**Station:**	REF TOX		

Alkalinity (CaCO3)-mg/L

C-µg/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	1	61			61	61	0	0	0.0%	0
100		1	70			70	70	0	0	0.0%	0
Overall		2	65.5			61	70				0 (0%)

Conductivity-µmhos

C-µg/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	343.6	339.4	347.9	334	351	1.792	5.069	1.48%	0
10		8	338.5	333.9	343.1	332	350	1.927	5.451	1.61%	0
19		8	335.8	333.8	337.7	333	339	0.8399	2.375	0.71%	0
38		8	335.8	333.8	337.7	333	339	0.8399	2.375	0.71%	0
75		8	337.3	330.3	344.2	331	357	2.95	8.345	2.47%	0
100		8	337.8	331.1	344.4	332	351	2.801	7.924	2.35%	0
Overall		48	338.1			331	357				0 (0%)

Dissolved Oxygen-mg/L

C-µg/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	8.025	7.55	8.5	6.9	8.6	0.2007	0.5676	7.07%	0
10		8	8.363	7.652	9.073	6.4	9.1	0.3006	0.8501	10.17%	0
19		8	8.488	7.943	9.032	7	9.1	0.2302	0.6512	7.67%	0
38		8	8.4	7.828	8.972	7	9.1	0.242	0.6845	8.15%	0
75		8	8.538	7.998	9.077	7	9	0.2283	0.6457	7.56%	0
100		8	18.53	-5.276	42.34	7	89	10.07	28.48	153.7%	0
Overall		48	10.06			6.4	89				0 (0%)

Hardness (CaCO3)-mg/L

C-µg/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	1	85			85	85	0	0	0.0%	0
100		1	102			102	102	0	0	0.0%	0
Overall		2	93.5			85	102				0 (0%)

pH-Units

C-µg/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.975	7.878	8.072	7.8	8.2	0.04119	0.1165	1.46%	0
10		8	7.963	7.837	8.088	7.7	8.1	0.05324	0.1506	1.89%	0
19		8	7.925	7.828	8.022	7.7	8	0.04119	0.1165	1.47%	0
38		8	7.888	7.793	7.982	7.7	8	0.03981	0.1126	1.43%	0
75		8	7.888	7.793	7.982	7.7	8	0.03981	0.1126	1.43%	0
100		8	7.875	7.778	7.972	7.7	8	0.04119	0.1165	1.48%	0
Overall		48	7.919			7.7	8.2				0 (0%)

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Temperature-°C

C-µg/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	24	24	24	24	24	0	0	0.0%	0
10		8	24	24	24	24	24	0	0	0.0%	0
19		8	24	24	24	24	24	0	0	0.0%	0
38		8	24	24	24	24	24	0	0	0.0%	0
75		8	24	24	24	24	24	0	0	0.0%	0
100		8	24	24	24	24	24	0	0	0.0%	0
Overall		48	24			24	24				0 (0%)

Alkalinity (CaCO3)-mg/L

C-µg/L	Control Type	1
0	Negative Contr	61
10		
19		
38		
75		
100		70

Conductivity-µmhos

C-µg/L	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	334	343	342	341	351	348	345	345
10		333	350	340	338	332	338	338	339
19		333	338	339	335	333	336	334	338
38		333	338	339	335	333	336	334	338
75		331	338	338	333	334	333	334	357
100		332	351	335	333	334	333	334	350

Dissolved Oxygen-mg/L

C-µg/L	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	8.1	8	8	8.6	7.6	8.6	8.4	6.9
10		8.8	8.3	8.3	8.4	8.6	9	9.1	6.4
19		8.8	8.4	8.5	8.6	8.5	9	9.1	7
38		8.8	8.6	8.5	7.8	8.5	8.9	9.1	7
75		8.9	8.5	8.6	8.8	8.6	8.9	9	7
100		8.8	8.5	8.6	8.87	8.6	8.9	89	7

Hardness (CaCO3)-mg/L

C-µg/L	Control Type	1
0	Negative Contr	85
10		
19		
38		
75		
100		102

pH-Units

C-µg/L	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	8	8.2	8	7.9	7.9	8	8	7.8
10		8.1	8	8	7.9	8.1	8.1	7.7	7.8
19		8	8	8	7.9	8	8	7.7	7.8
38		8	8	7.9	7.8	7.9	8	7.7	7.8
75		8	8	7.9	7.8	7.9	8	7.7	7.8
100		8	8	7.9	7.8	7.8	8	7.7	7.8

Temperature-°C

C-µg/L	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	24	24	24	24	24	24	24	24
10		24	24	24	24	24	24	24	24
19		24	24	24	24	24	24	24	24
38		24	24	24	24	24	24	24	24
75		24	24	24	24	24	24	24	24
100		24	24	24	24	24	24	24	24

Chain of Custody Record

Ventura County Watershed Protection District
NPDES Stormwater Monitoring Program
Project: NPDES Stormwater Wet Season
Toxicity - ABC Laboratories

Sampling Date: 10/11/12 Project Number: 2012/13-1 (Wet)

Sampling Team: K. HAHS, B. SERCU

SAMPLE ID	DATE/TIME COLLECTED	Chronic toxicity - topsmelt (*Atherinops affinis*)	Chronic toxicity - inland silverside (*Menidia beryllina*)	Chronic toxicity - giant kelp (*Macrocystis pyrifera*)	Chronic toxicity - purple sea urchin (*Strongylocentrotus purpuratus*)	Chronic toxicity - fathead minnow (*Pimephales promelas*)	Chronic toxicity - daphnid (*Ceriodaphnia dubia*)	Chronic toxicity - green alga (*Raphidocelis subcapitata*)	Number of 5-Gallon Buckets	NOTES
~~ME-CC~~		~~X~~							~~2~~	Note 1, Note 2, Note 3
~~ME-SCR~~					~~X~~				~~1~~	Note 1, Note 2, Note 3
~~ME-VR2~~		~~X~~							~~2~~	Note 1, Note 2, Note 3
~~MO-CAM~~						~~X~~			~~2~~	Note 1, Note 2, Note 3
MO-OJA	10/11/12 15:00					X			2	Note 1, Note 2, Note 3
~~MO-MEI~~						~~X~~			~~2~~	Note 1, Note 2, Note 3
~~MO-VEN~~							~~X~~		~~2~~	Note 1, Note 2, Note 3

Relinquished Printed Name KELLY HAHS

Signature Kelly Hahs

Affiliation VCWPD Date/Time 10/11/12 15:47

Received Printed Name Karin Patrick

Signature Karin Patrick

Affiliation ABC Date/Time 10/11/12 1547

Other Notes: Note 1: Dilutions - 6.25%, 12.5%, 25%, 50%, 100% Note 2: Please execute TIE if mortality > 50%

Note 3: Notify District within 24 hours if significant toxicity is observed.

aquatic bioassay & consulting laboratories, inc

January 4th, 2013

Mr. Arne Anselm
Ventura County Watershed Protection District
800 South Victoria Ave
Ventura, CA 93009

Dear Mr. Anselm:

We are pleased to present the enclosed bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Measuring the Chronic Toxicity of Effluents and Receving Waters to West Coast Estuarine Organisms, EPA/821/R-02-014.* Results were as follows:

CLIENT:	Ventura County Flood Control
SAMPLE I.D.:	ME-VR2
DATE RECEIVED:	11/17/2012
ABC LAB. NO.:	VCF1112.255

CHRONIC TOPSMELT SURVIVAL AND GROWTH BIOASSAY

Survival	NOEC	=	100.00
	TUc	=	1.00
	IC25	=	>100.00 %
	IC50	=	>100.00 %
Biomass	NOEC	=	100.00 %
	TUc	=	1.00
	IC25	=	>100.00 %
	IC50	=	>100.00 %

Yours very truly,

Scott Johnson
Laboratory Director

CETIS Summary Report

Pacific Topsmelt 7-d Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Batch ID:	18-7148-5123	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	20 Nov-12 15:54	**Protocol:**	EPA/600/R-95/136 (1995)	**Diluent:**	Laboratory Seawater
Ending Date:	27 Nov-12 14:00	**Species:**	Atherinops affinis	**Brine:**	Not Applicable
Duration:	6d 22h	**Source:**	Aquatic Biosystems, CO	**Age:**	

Sample ID:	06-1254-9649	**Code:**	VCF1112.255t	**Client:**	VCWPD
Sample Date:	17 Nov-12 07:50	**Material:**	Sample Water	**Project:**	2012/13-2 (Wet)
Receive Date:	17 Nov-12 12:16	**Source:**	Bioassay Report		
Sample Age:	80h	**Station:**	ME-VR2		

Comparison Summary

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
11-7508-7768	7d Survival Rate	100	>100	NA	18.5%	1	Dunnett Multiple Comparison Test
19-3765-8172	Mean Dry Biomass-mg	100	>100	NA	28.5%	1	Dunnett Multiple Comparison Test

Point Estimate Summary

Analysis ID	Endpoint	Level	%	95% LCL	95% UCL	TU	Method
09-8302-2418	7d Survival Rate	EC5	2.93	1.731	6.348	34.13	Linear Interpolation (ICPIN)
		EC10	5.859	3.462	N/A	17.07	
		EC15	>100	N/A	N/A	<1	
		EC20	>100	N/A	N/A	<1	
		EC25	>100	N/A	N/A	<1	
		EC40	>100	N/A	N/A	<1	
		EC50	>100	N/A	N/A	<1	
00-2343-4964	Mean Dry Biomass-mg	IC5	>100	N/A	N/A	<1	Linear Interpolation (ICPIN)
		IC10	>100	N/A	N/A	<1	
		IC15	>100	N/A	N/A	<1	
		IC20	>100	N/A	N/A	<1	
		IC25	>100	N/A	N/A	<1	
		IC40	>100	N/A	N/A	<1	
		IC50	>100	N/A	N/A	<1	

7d Survival Rate Summary

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Negative Contro	5	1	1	1	1	1	0	0	0.0%	0.0%
6.25		5	0.84	0.7289	0.9511	0.8	1	0.04	0.08944	10.65%	16.0%
12.5		5	0.88	0.744	1	0.8	1	0.04899	0.1095	12.45%	12.0%
25		5	0.96	0.8489	1	0.8	1	0.04	0.08944	9.32%	4.0%
50		5	0.8	0.4959	1	0.4	1	0.1095	0.2449	30.62%	20.0%
100		5	0.92	0.784	1	0.8	1	0.04899	0.1095	11.91%	8.0%

Mean Dry Biomass-mg Summary

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Negative Contro	5	0.666	0.5723	0.7597	0.554	0.738	0.03375	0.07546	11.33%	0.0%
6.25		5	0.5376	0.4101	0.6651	0.406	0.664	0.04592	0.1027	19.1%	19.28%
12.5		5	0.644	0.4752	0.8128	0.504	0.87	0.06081	0.136	21.11%	3.3%
25		5	0.6728	0.5181	0.8275	0.468	0.776	0.05572	0.1246	18.52%	-1.02%
50		5	0.6048	0.368	0.8416	0.318	0.828	0.08527	0.1907	31.53%	9.19%
100		5	0.748	0.6228	0.8732	0.608	0.892	0.0451	0.1008	13.48%	-12.31%

7d Survival Rate Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	Negative Contro	1	1	1	1	1
6.25		0.8	1	0.8	0.8	0.8
12.5		1	0.8	0.8	1	0.8
25		0.8	1	1	1	1
50		1	0.8	1	0.4	0.8
100		1	1	0.8	0.8	1

Mean Dry Biomass-mg Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	Negative Contro	0.648	0.734	0.656	0.738	0.554
6.25		0.556	0.466	0.664	0.596	0.406
12.5		0.594	0.618	0.634	0.87	0.504
25		0.468	0.706	0.652	0.776	0.762
50		0.828	0.538	0.656	0.318	0.684
100		0.76	0.734	0.746	0.892	0.608

7d Survival Rate Binomials

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	Negative Contro	5/5	5/5	5/5	5/5	5/5
6.25		4/5	5/5	4/5	4/5	4/5
12.5		5/5	4/5	4/5	5/5	4/5
25		4/5	5/5	5/5	5/5	5/5
50		5/5	4/5	5/5	2/5	4/5
100		5/5	5/5	4/5	4/5	5/5

CETIS Analytical Report

Report Date: 04 Jan-13 11:54 (p 1 of 4)
Test Code: VCF1112.255tops | 00-2161-1417

Pacific Topsmelt 7-d Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	11-7508-7768	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:21	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Batch ID:	18-7148-5123	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	20 Nov-12 15:54	**Protocol:**	EPA/600/R-95/136 (1995)	**Diluent:**	Laboratory Seawater
Ending Date:	27 Nov-12 14:00	**Species:**	Atherinops affinis	**Brine:**	Not Applicable
Duration:	6d 22h	**Source:**	Aquatic Biosystems, CO	**Age:**	

Sample ID:	06-1254-9649	**Code:**	VCF1112.255t	**Client:**	VCWPD
Sample Date:	17 Nov-12 07:50	**Material:**	Sample Water	**Project:**	2012/13-2 (Wet)
Receive Date:	17 Nov-12 12:16	**Source:**	Bioassay Report		
Sample Age:	80h	**Station:**	ME-VR2		

Data Transform	Zeta	Alt Hyp	Trials	Seed	PMSD	NOEL	LOEL	TOEL	TU
Angular (Corrected)	NA	C > T	NA	NA	18.5%	100	>100	NA	1

Dunnett Multiple Comparison Test

Control vs	C-%	Test Stat	Critical	MSD	DF	P-Value	P-Type	Decision(α:5%)
Negative Control	6.25	2.05	2.362	0.22	8	0.0907	CDF	Non-Significant Effect
	12.5	1.538	2.362	0.22	8	0.2120	CDF	Non-Significant Effect
	25	0.5125	2.362	0.22	8	0.6415	CDF	Non-Significant Effect
	50*	2.447	2.362	0.22	8	0.0421	CDF	Significant Effect
	100	1.025	2.362	0.22	8	0.4088	CDF	Non-Significant Effect

Test Acceptability Criteria

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	1	0.8 - NL	Yes	Passes Acceptability Criteria
PMSD	0.1853	NL - 0.25	No	Passes Acceptability Criteria

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	0.1861399	0.03722797	5	1.724	0.1673	Non-Significant Effect
Error	0.5181144	0.0215881	24			
Total	0.7042543		29			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Mod Levene Equality of Variance	1.472	4.248	0.2475	Equal Variances
Variances	Levene Equality of Variance	2.637	3.895	0.0489	Equal Variances
Distribution	Shapiro-Wilk W Normality	0.934	0.9031	0.0629	Normal Distribution
Distribution	Kolmogorov-Smirnov D	0.1275	0.1853	0.2377	Normal Distribution
Distribution	D'Agostino Skewness	2.051	2.576	0.0403	Normal Distribution
Distribution	D'Agostino Kurtosis	2.263	2.576	0.0236	Normal Distribution
Distribution	D'Agostino-Pearson K2 Omnibus	9.329	9.21	0.0094	Non-normal Distribution
Distribution	Anderson-Darling A2 Normality	0.5541	3.878	0.1566	Normal Distribution

7d Survival Rate Summary

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	Negative Control	5	1	1	1	1	1	1	0	0.0%	0.0%
6.25		5	0.84	0.7289	0.9511	0.8	0.8	1	0.04	10.65%	16.0%
12.5		5	0.88	0.744	1	0.8	0.8	1	0.04899	12.45%	12.0%
25		5	0.96	0.8489	1	1	0.8	1	0.04	9.32%	4.0%
50		5	0.8	0.4959	1	0.8	0.4	1	0.1095	30.62%	20.0%
100		5	0.92	0.784	1	1	0.8	1	0.04899	11.91%	8.0%

Pacific Topsmelt 7-d Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	11-7508-7768	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:21	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Angular (Corrected) Transformed Summary

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	Negative Contr	5	1.345	1.345	1.346	1.345	1.345	1.345	0	0.0%	0.0%
6.25		5	1.155	1.023	1.287	1.107	1.107	1.345	0.04763	9.22%	14.16%
12.5		5	1.202	1.04	1.364	1.107	1.107	1.345	0.05833	10.85%	10.62%
25		5	1.298	1.165	1.43	1.345	1.107	1.345	0.04763	8.21%	3.54%
50		5	1.118	0.7828	1.453	1.107	0.6847	1.345	0.1207	24.14%	16.9%
100		5	1.25	1.088	1.412	1.345	1.107	1.345	0.05833	10.43%	7.08%

7d Survival Rate Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	Negative Control	1	1	1	1	1
6.25		0.8	1	0.8	0.8	0.8
12.5		1	0.8	0.8	1	0.8
25		0.8	1	1	1	1
50		1	0.8	1	0.4	0.8
100		1	1	0.8	0.8	1

Angular (Corrected) Transformed Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	Negative Control	1.345	1.345	1.345	1.345	1.345
6.25		1.107	1.345	1.107	1.107	1.107
12.5		1.345	1.107	1.107	1.345	1.107
25		1.107	1.345	1.345	1.345	1.345
50		1.345	1.107	1.345	0.6847	1.107
100		1.345	1.345	1.107	1.107	1.345

7d Survival Rate Binomials

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	Negative Contro	5/5	5/5	5/5	5/5	5/5
6.25		4/5	5/5	4/5	4/5	4/5
12.5		5/5	4/5	4/5	5/5	4/5
25		4/5	5/5	5/5	5/5	5/5
50		5/5	4/5	5/5	2/5	4/5
100		5/5	5/5	4/5	4/5	5/5

Pacific Topsmelt 7-d Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	19-3765-8172	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:22	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Batch ID:	18-7148-5123	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	20 Nov-12 15:54	**Protocol:**	EPA/600/R-95/136 (1995)	**Diluent:**	Laboratory Seawater
Ending Date:	27 Nov-12 14:00	**Species:**	Atherinops affinis	**Brine:**	Not Applicable
Duration:	6d 22h	**Source:**	Aquatic Biosystems, CO	**Age:**	

Sample ID:	06-1254-9649	**Code:**	VCF1112.255t	**Client:**	VCWPD
Sample Date:	17 Nov-12 07:50	**Material:**	Sample Water	**Project:**	2012/13-2 (Wet)
Receive Date:	17 Nov-12 12:16	**Source:**	Bioassay Report		
Sample Age:	80h	**Station:**	ME-VR2		

Data Transform	Zeta	Alt Hyp	Trials	Seed	PMSD	NOEL	LOEL	TOEL	TU
Untransformed	NA	C > T	NA	NA	28.5%	100	>100	NA	1

Dunnett Multiple Comparison Test

Control vs	C-%	Test Stat	Critical	MSD	DF	P-Value	P-Type	Decision(α:5%)
Negative Control	6.25	1.599	2.362	0.19	8	0.1935	CDF	Non-Significant Effect
	12.5	0.2739	2.362	0.19	8	0.7400	CDF	Non-Significant Effect
	25	-0.08466	2.362	0.19	8	0.8571	CDF	Non-Significant Effect
	50	0.7619	2.362	0.19	8	0.5285	CDF	Non-Significant Effect
	100	-1.021	2.362	0.19	8	0.9843	CDF	Non-Significant Effect

Test Acceptability Criteria

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.666	0.85 - NL	Yes	Below Acceptability Criteria
PMSD	0.2848	NL - 0.5	No	Passes Acceptability Criteria

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	0.1248647	0.02497294	5	1.548	0.2126	Non-Significant Effect
Error	0.3870928	0.01612887	24			
Total	0.5119575		29			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Bartlett Equality of Variance	3.706	15.09	0.5924	Equal Variances
Variances	Mod Levene Equality of Variance	0.5872	4.248	0.7097	Equal Variances
Variances	Levene Equality of Variance	0.8013	3.895	0.5597	Equal Variances
Distribution	Shapiro-Wilk W Normality	0.9813	0.9031	0.8587	Normal Distribution
Distribution	Kolmogorov-Smirnov D	0.111	0.1853	0.4424	Normal Distribution
Distribution	D'Agostino Skewness	0.6579	2.576	0.5106	Normal Distribution
Distribution	D'Agostino Kurtosis	0.7411	2.576	0.4586	Normal Distribution
Distribution	D'Agostino-Pearson K2 Omnibus	0.9821	9.21	0.6120	Normal Distribution
Distribution	Anderson-Darling A2 Normality	0.2605	3.878	0.7362	Normal Distribution

Mean Dry Biomass-mg Summary

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	Negative Control	5	0.666	0.5723	0.7597	0.656	0.554	0.738	0.03375	11.33%	0.0%
6.25		5	0.5376	0.4101	0.6651	0.556	0.406	0.664	0.04592	19.1%	19.28%
12.5		5	0.644	0.4752	0.8128	0.618	0.504	0.87	0.06081	21.11%	3.3%
25		5	0.6728	0.5181	0.8275	0.706	0.468	0.776	0.05572	18.52%	-1.02%
50		5	0.6048	0.368	0.8416	0.656	0.318	0.828	0.08527	31.53%	9.19%
100		5	0.748	0.6228	0.8732	0.746	0.608	0.892	0.0451	13.48%	-12.31%

Pacific Topsmelt 7-d Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	19-3765-8172	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:22	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Mean Dry Biomass-mg Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	Negative Control	0.648	0.734	0.656	0.738	0.554
6.25		0.556	0.466	0.664	0.596	0.406
12.5		0.594	0.618	0.634	0.87	0.504
25		0.468	0.706	0.652	0.776	0.762
50		0.828	0.538	0.656	0.318	0.684
100		0.76	0.734	0.746	0.892	0.608

CETIS Analytical Report

Report Date: 04 Jan-13 11:54 (p 1 of 4)
Test Code: VCF1112.255tops | 00-2161-1417

Pacific Topsmelt 7-d Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	09-8302-2418	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:22	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Batch ID:	18-7148-5123	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	20 Nov-12 15:54	**Protocol:**	EPA/600/R-95/136 (1995)	**Diluent:**	Laboratory Seawater
Ending Date:	27 Nov-12 14:00	**Species:**	Atherinops affinis	**Brine:**	Not Applicable
Duration:	6d 22h	**Source:**	Aquatic Biosystems, CO	**Age:**	

Sample ID:	06-1254-9649	**Code:**	VCF1112.255t	**Client:**	VCWPD
Sample Date:	17 Nov-12 07:50	**Material:**	Sample Water	**Project:**	2012/13-2 (Wet)
Receive Date:	17 Nov-12 12:16	**Source:**	Bioassay Report		
Sample Age:	80h	**Station:**	ME-VR2		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	0	280	Yes	Two-Point Interpolation

Test Acceptability Criteria

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	1	0.8 - NL	Yes	Passes Acceptability Criteria

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
EC5	2.93	1.731	6.348	34.13	15.75	57.76
EC10	5.859	3.462	N/A	17.07	NA	28.88
EC15	>100	N/A	N/A	<1	NA	NA
EC20	>100	N/A	N/A	<1	NA	NA
EC25	>100	N/A	N/A	<1	NA	NA
EC40	>100	N/A	N/A	<1	NA	NA
EC50	>100	N/A	N/A	<1	NA	NA

7d Survival Rate Summary

			Calculated Variate(A/B)								
C-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	%Effect	A	B
0	Negative Control	5	1	1	1	0	0	0.0%	0.0%	25	25
6.25		5	0.84	0.8	1	0.04	0.08944	10.65%	16.0%	21	25
12.5		5	0.88	0.8	1	0.04899	0.1095	12.45%	12.0%	22	25
25		5	0.96	0.8	1	0.04	0.08944	9.32%	4.0%	24	25
50		5	0.8	0.4	1	0.1095	0.2449	30.62%	20.0%	20	25
100		5	0.92	0.8	1	0.04899	0.1095	11.91%	8.0%	23	25

7d Survival Rate Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	Negative Control	1	1	1	1	1
6.25		0.8	1	0.8	0.8	0.8
12.5		1	0.8	0.8	1	0.8
25		0.8	1	1	1	1
50		1	0.8	1	0.4	0.8
100		1	1	0.8	0.8	1

7d Survival Rate Binomials

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	Negative Contro	5/5	5/5	5/5	5/5	5/5
6.25		4/5	5/5	4/5	4/5	4/5
12.5		5/5	4/5	4/5	5/5	4/5
25		4/5	5/5	5/5	5/5	5/5
50		5/5	4/5	5/5	2/5	4/5
100		5/5	5/5	4/5	4/5	5/5

Analysis ID:	09-8302-2418	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:22	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Pacific Topsmelt 7-d Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	00-2343-4964	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:22	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Batch ID:	18-7148-5123	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	20 Nov-12 15:54	**Protocol:**	EPA/600/R-95/136 (1995)	**Diluent:**	Laboratory Seawater
Ending Date:	27 Nov-12 14:00	**Species:**	Atherinops affinis	**Brine:**	Not Applicable
Duration:	6d 22h	**Source:**	Aquatic Biosystems, CO	**Age:**	

Sample ID:	06-1254-9649	**Code:**	VCF1112.255t	**Client:**	VCWPD
Sample Date:	17 Nov-12 07:50	**Material:**	Sample Water	**Project:**	2012/13-2 (Wet)
Receive Date:	17 Nov-12 12:16	**Source:**	Bioassay Report		
Sample Age:	80h	**Station:**	ME-VR2		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	1601436	280	Yes	Two-Point Interpolation

Test Acceptability Criteria

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.666	0.85 - NL	Yes	Below Acceptability Criteria

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
IC5	>100	N/A	N/A	<1	NA	NA
IC10	>100	N/A	N/A	<1	NA	NA
IC15	>100	N/A	N/A	<1	NA	NA
IC20	>100	N/A	N/A	<1	NA	NA
IC25	>100	N/A	N/A	<1	NA	NA
IC40	>100	N/A	N/A	<1	NA	NA
IC50	>100	N/A	N/A	<1	NA	NA

Mean Dry Biomass-mg Summary

			Calculated Variate						
C-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Negative Control	5	0.666	0.554	0.738	0.03375	0.07546	11.33%	0.0%
6.25		5	0.5376	0.406	0.664	0.04592	0.1027	19.1%	19.28%
12.5		5	0.644	0.504	0.87	0.06081	0.136	21.11%	3.3%
25		5	0.6728	0.468	0.776	0.05572	0.1246	18.52%	-1.02%
50		5	0.6048	0.318	0.828	0.08527	0.1907	31.53%	9.19%
100		5	0.748	0.608	0.892	0.0451	0.1008	13.48%	-12.31%

Mean Dry Biomass-mg Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	Negative Control	0.648	0.734	0.656	0.738	0.554
6.25		0.556	0.466	0.664	0.596	0.406
12.5		0.594	0.618	0.634	0.87	0.504
25		0.468	0.706	0.652	0.776	0.762
50		0.828	0.538	0.656	0.318	0.684
100		0.76	0.734	0.746	0.892	0.608

Analysis ID:	00-2343-4964	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:22	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

CETIS Measurement Report

Pacific Topsmelt 7-d Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Batch ID:	18-7148-5123	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	20 Nov-12 15:54	**Protocol:**	EPA/600/R-95/136 (1995)	**Diluent:**	Laboratory Seawater
Ending Date:	27 Nov-12 14:00	**Species:**	Atherinops affinis	**Brine:**	Not Applicable
Duration:	6d 22h	**Source:**	Aquatic Biosystems, CO	**Age:**	

Sample ID:	06-1254-9649	**Code:**	VCF1112.255t	**Client:**	VCWPD
Sample Date:	17 Nov-12 07:50	**Material:**	Sample Water	**Project:**	2012/13-2 (Wet)
Receive Date:	17 Nov-12 12:16	**Source:**	Bioassay Report		
Sample Age:	80h	**Station:**	ME-VR2		

Dissolved Oxygen-mg/L

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.725	7.507	7.943	7.2	8	0.0921	0.2605	3.37%	0
6.25		8	7.463	7.073	7.852	6.5	7.9	0.1647	0.4658	6.24%	0
12.5		8	7.613	7.033	8.192	6.2	8.6	0.2453	0.6937	9.11%	0
25		8	7.35	6.563	8.137	5.1	7.9	0.3327	0.9411	12.8%	0
50		8	7.188	6.182	8.193	4.3	7.9	0.4253	1.203	16.74%	0
100		8	7.238	6.123	8.352	4	7.9	0.4713	1.333	18.42%	0
Overall		48	7.429			4	8.6				0 (0%)

pH-Units

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.763	7.686	7.839	7.6	7.9	0.03239	0.09161	1.18%	0
6.25		8	7.813	7.783	7.842	7.8	7.9	0.0125	0.03537	0.45%	0
12.5		8	7.825	7.786	7.864	7.8	7.9	0.01637	0.0463	0.59%	0
25		8	7.863	7.819	7.906	7.8	7.9	0.0183	0.05175	0.66%	0
50		8	7.938	7.861	8.014	7.8	8	0.03239	0.09161	1.15%	0
100		8	8.025	7.893	8.157	7.8	8.2	0.0559	0.1581	1.97%	0
Overall		48	7.871			7.6	8.2				0 (0%)

Salinity-ppt

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	25	25	25	25	25	0	0	0.0%	0
6.25		8	25	25	25	25	25	0	0	0.0%	0
12.5		8	25	25	25	25	25	0	0	0.0%	0
25		8	25	25	25	25	25	0	0	0.0%	0
50		8	25	25	25	25	25	0	0	0.0%	0
100		8	25	25	25	25	25	0	0	0.0%	0
Overall		48	25			25	25				0 (0%)

Temperature-°C

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	21	21	21	21	21	0	0	0.0%	0
6.25		8	21	21	21	21	21	0	0	0.0%	0
12.5		8	21	21	21	21	21	0	0	0.0%	0
25		8	21	21	21	21	21	0	0	0.0%	0
50		8	21	21	21	21	21	0	0	0.0%	0
100		8	21	21	21	21	21	0	0	0.0%	0
Overall		48	21			21	21				0 (0%)

Pacific Topsmelt 7-d Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Dissolved Oxygen-mg/L

C-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	7.7	8	7.9	7.8	7.9	7.8	7.2	7.5
6.25		7.3	7.9	7.9	7.7	7.5	7.7	7.2	6.5
12.5		7.6	8.6	8	7.8	7.8	7.7	7.2	6.2
25		7.7	7.7	7.9	7.8	7.8	7.7	7.1	5.1
50		7.7	7.2	7.9	7.8	7.8	7.7	7.1	4.3
100		7.7	7.9	7.9	7.8	7.8	7.7	7.1	4

pH-Units

C-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	7.7	7.6	7.9	7.7	7.8	7.8	7.8	7.8
6.25		7.8	7.8	7.9	7.8	7.8	7.8	7.8	7.8
12.5		7.8	7.8	7.9	7.9	7.8	7.8	7.8	7.8
25		7.8	7.9	7.9	7.9	7.9	7.8	7.8	7.9
50		7.9	8	8	8	8	7.8	7.8	8
100		8	8.1	8	8.2	8.1	7.8	7.8	8.2

Salinity-ppt

C-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	25	25	25	25	25	25	25	25
6.25		25	25	25	25	25	25	25	25
12.5		25	25	25	25	25	25	25	25
25		25	25	25	25	25	25	25	25
50		25	25	25	25	25	25	25	25
100		25	25	25	25	25	25	25	25

Temperature-°C

C-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	21	21	21	21	21	21	21	21
6.25		21	21	21	21	21	21	21	21
12.5		21	21	21	21	21	21	21	21
25		21	21	21	21	21	21	21	21
50		21	21	21	21	21	21	21	21
100		21	21	21	21	21	21	21	21

aquatic bioassay & consulting laboratories, inc

January 4th, 2013

Mr. Arne Anselm
Ventura County Watershed Protection District
800 South Victoria Ave
Ventura, CA 93009

Dear Mr. Anselm:

We are pleased to present the enclosed bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Measuring the Chronic Toxicity of Effluents and Receving Waters to West Coast Estuarine Organisms, EPA/821/R-02-014.* Results were as follows:

CLIENT:	Ventura County Flood Control
SAMPLE I.D.:	ME-CC
DATE RECEIVED:	11/17/2012
ABC LAB. NO.:	VCF1112.260

CHRONIC TOPSMELT SURVIVAL AND GROWTH BIOASSAY

Survival	NOEC	=	100.00
	TUc	=	1.00
	IC25	=	>100.00 %
	IC50	=	>100.00 %
Biomass	NOEC	=	100.00 %
	TUc	=	1.00
	IC25	=	>100.00 %
	IC50	=	>100.00 %

Yours very truly,

Scott Johnson
Laboratory Director

29 north olive ventura, ca 93001 (805) 643 5621 www.aquabio.org

CETIS Summary Report

Report Date: 04 Jan-13 12:32 (p 1 of 2)
Test Code: VCF1112.260tops | 15-0507-4591

Pacific Topsmelt 7-d Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Batch ID:	14-0520-8803	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	20 Nov-12 16:00	**Protocol:**	EPA/600/R-95/136 (1995)	**Diluent:**	Laboratory Seawater
Ending Date:	27 Nov-12 14:10	**Species:**	Atherinops affinis	**Brine:**	Not Applicable
Duration:	6d 22h	**Source:**	Aquatic Biosystems, CO	**Age:**	

Sample ID:	03-4508-6923	**Code:**	VCF1112.260t	**Client:**	VCWPD
Sample Date:	17 Nov-12 11:25	**Material:**	Sample Water	**Project:**	2012/13-2 (Wet)
Receive Date:	17 Nov-12 12:42	**Source:**	Bioassay Report		
Sample Age:	77h	**Station:**	ME-CC		

Comparison Summary

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
13-3237-2300	7d Survival Rate	100	>100	NA	16.8%	1	Dunnett Multiple Comparison Test
13-5820-7153	Mean Dry Biomass-mg	100	>100	NA	29.4%	1	Dunnett Multiple Comparison Test

Point Estimate Summary

Analysis ID	Endpoint	Level	%	95% LCL	95% UCL	TU	Method
01-4979-4683	7d Survival Rate	EC5	40	N/A	N/A	2.5	Linear Interpolation (ICPIN)
		EC10	>100	N/A	N/A	<1	
		EC15	>100	N/A	N/A	<1	
		EC20	>100	N/A	N/A	<1	
		EC25	>100	N/A	N/A	<1	
		EC40	>100	N/A	N/A	<1	
		EC50	>100	N/A	N/A	<1	
13-2328-5868	Mean Dry Biomass-mg	IC5	23.86	N/A	N/A	4.191	Linear Interpolation (ICPIN)
		IC10	76.78	N/A	N/A	1.302	
		IC15	>100	N/A	N/A	<1	
		IC20	>100	N/A	N/A	<1	
		IC25	>100	N/A	N/A	<1	
		IC40	>100	N/A	N/A	<1	
		IC50	>100	N/A	N/A	<1	

7d Survival Rate Summary

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Negative Contro	5	0.96	0.8489	1	0.8	1	0.04	0.08944	9.32%	0.0%
6.25		5	0.96	0.8489	1	0.8	1	0.04	0.08944	9.32%	0.0%
12.5		5	0.92	0.784	1	0.8	1	0.04899	0.1095	11.91%	4.17%
25		5	1	1	1	1	1	0	0	0.0%	-4.17%
50		5	0.88	0.744	1	0.8	1	0.04899	0.1095	12.45%	8.33%
100		5	0.88	0.6579	1	0.6	1	0.08	0.1789	20.33%	8.33%

Mean Dry Biomass-mg Summary

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Negative Contro	5	0.8028	0.4681	1.138	0.6	1.234	0.1206	0.2696	33.58%	0.0%
6.25		5	0.8968	0.8116	0.982	0.798	0.988	0.03068	0.06859	7.65%	-11.71%
12.5		5	0.9652	0.7937	1.137	0.76	1.092	0.06175	0.1381	14.31%	-20.23%
25		5	0.82	0.6661	0.9739	0.604	0.906	0.05544	0.124	15.12%	-2.14%
50		5	0.8588	0.7174	1	0.67	0.97	0.05094	0.1139	13.26%	-6.98%
100		5	0.7648	0.5684	0.9612	0.508	0.922	0.07074	0.1582	20.68%	4.73%

Pacific Topsmelt 7-d Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

7d Survival Rate Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	Negative Contro	1	1	1	1	0.8
6.25		1	1	1	1	0.8
12.5		0.8	1	1	0.8	1
25		1	1	1	1	1
50		1	1	0.8	0.8	0.8
100		1	0.6	0.8	1	1

Mean Dry Biomass-mg Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	Negative Contro	0.602	0.6	0.682	0.896	1.234
6.25		0.798	0.988	0.9	0.918	0.88
12.5		0.76	1.046	0.888	1.04	1.092
25		0.888	0.906	0.83	0.604	0.872
50		0.868	0.97	0.67	0.866	0.92
100		0.922	0.508	0.74	0.804	0.85

7d Survival Rate Binomials

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	Negative Contro	5/5	5/5	5/5	5/5	4/5
6.25		5/5	5/5	5/5	5/5	4/5
12.5		4/5	5/5	5/5	4/5	5/5
25		5/5	5/5	5/5	5/5	5/5
50		5/5	5/5	4/5	4/5	4/5
100		5/5	3/5	4/5	5/5	5/5

CETIS Analytical Report

Pacific Topsmelt 7-d Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	13-3237-2300	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:22	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Batch ID:	14-0520-8803	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	20 Nov-12 16:00	**Protocol:**	EPA/600/R-95/136 (1995)	**Diluent:**	Laboratory Seawater
Ending Date:	27 Nov-12 14:10	**Species:**	Atherinops affinis	**Brine:**	Not Applicable
Duration:	6d 22h	**Source:**	Aquatic Biosystems, CO	**Age:**	

Sample ID:	03-4508-6923	**Code:**	VCF1112.260t	**Client:**	VCWPD
Sample Date:	17 Nov-12 11:25	**Material:**	Sample Water	**Project:**	2012/13-2 (Wet)
Receive Date:	17 Nov-12 12:42	**Source:**	Bioassay Report		
Sample Age:	77h	**Station:**	ME-CC		

Data Transform	Zeta	Alt Hyp	Trials	Seed	PMSD	NOEL	LOEL	TOEL	TU
Angular (Corrected)	NA	C > T	NA	NA	16.8%	100	>100	NA	1

Dunnett Multiple Comparison Test

Control	vs	C-%	Test Stat	Critical	MSD	DF	P-Value	P-Type	Decision(α:5%)
Negative Control		6.25	0	2.362	0.192	8	0.8333	CDF	Non-Significant Effect
		12.5	0.5854	2.362	0.192	8	0.6091	CDF	Non-Significant Effect
		25	-0.5854	2.362	0.192	8	0.9510	CDF	Non-Significant Effect
		50	1.171	2.362	0.192	8	0.3463	CDF	Non-Significant Effect
		100	1.129	2.362	0.192	8	0.3639	CDF	Non-Significant Effect

Test Acceptability Criteria

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.96	0.8 - NL	Yes	Passes Acceptability Criteria
PMSD	0.168	NL - 0.25	No	Passes Acceptability Criteria

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	0.08105307	0.01621061	5	0.9796	0.4503	Non-Significant Effect
Error	0.3971528	0.01654804	24			
Total	0.4782059		29			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Mod Levene Equality of Variance	0.7836	4.248	0.5746	Equal Variances
Variances	Levene Equality of Variance	5.488	3.895	0.0017	Unequal Variances
Distribution	Shapiro-Wilk W Normality	0.9076	0.9031	0.0129	Normal Distribution
Distribution	Kolmogorov-Smirnov D	0.2	0.1853	0.0035	Non-normal Distribution
Distribution	D'Agostino Skewness	2.037	2.576	0.0417	Normal Distribution
Distribution	D'Agostino Kurtosis	0.6985	2.576	0.4849	Normal Distribution
Distribution	D'Agostino-Pearson K2 Omnibus	4.636	9.21	0.0985	Normal Distribution
Distribution	Anderson-Darling A2 Normality	1.094	3.878	0.0074	Non-normal Distribution

7d Survival Rate Summary

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	Negative Control	5	0.96	0.8489	1	1	0.8	1	0.04	9.32%	0.0%
6.25		5	0.96	0.8489	1	1	0.8	1	0.04	9.32%	0.0%
12.5		5	0.92	0.784	1	1	0.8	1	0.04899	11.91%	4.17%
25		5	1	1	1	1	1	1	0	0.0%	-4.17%
50		5	0.88	0.744	1	0.8	0.8	1	0.04899	12.45%	8.33%
100		5	0.88	0.6579	1	1	0.6	1	0.08	20.33%	8.33%

Pacific Topsmelt 7-d Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	13-3237-2300	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:22	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Angular (Corrected) Transformed Summary

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	Negative Contr	5	1.298	1.165	1.43	1.345	1.107	1.345	0.04763	8.21%	0.0%
6.25		5	1.298	1.165	1.43	1.345	1.107	1.345	0.04763	8.21%	0.0%
12.5		5	1.25	1.088	1.412	1.345	1.107	1.345	0.05833	10.43%	3.67%
25		5	1.345	1.345	1.346	1.345	1.345	1.345	0	0.0%	-3.67%
50		5	1.202	1.04	1.364	1.107	1.107	1.345	0.05833	10.85%	7.34%
100		5	1.206	0.9496	1.462	1.345	0.8861	1.345	0.09228	17.11%	7.08%

7d Survival Rate Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	Negative Control	1	1	1	1	0.8
6.25		1	1	1	1	0.8
12.5		0.8	1	1	0.8	1
25		1	1	1	1	1
50		1	1	0.8	0.8	0.8
100		1	0.6	0.8	1	1

Angular (Corrected) Transformed Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	Negative Control	1.345	1.345	1.345	1.345	1.107
6.25		1.345	1.345	1.345	1.345	1.107
12.5		1.107	1.345	1.345	1.107	1.345
25		1.345	1.345	1.345	1.345	1.345
50		1.345	1.345	1.107	1.107	1.107
100		1.345	0.8861	1.107	1.345	1.345

7d Survival Rate Binomials

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	Negative Contro	5/5	5/5	5/5	5/5	4/5
6.25		5/5	5/5	5/5	5/5	4/5
12.5		4/5	5/5	5/5	4/5	5/5
25		5/5	5/5	5/5	5/5	5/5
50		5/5	5/5	4/5	4/5	4/5
100		5/5	3/5	4/5	5/5	5/5

Pacific Topsmelt 7-d Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	13-5820-7153	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:22	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Batch ID:	14-0520-8803	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	20 Nov-12 16:00	**Protocol:**	EPA/600/R-95/136 (1995)	**Diluent:**	Laboratory Seawater
Ending Date:	27 Nov-12 14:10	**Species:**	Atherinops affinis	**Brine:**	Not Applicable
Duration:	6d 22h	**Source:**	Aquatic Biosystems, CO	**Age:**	

Sample ID:	03-4508-6923	**Code:**	VCF1112.260t	**Client:**	VCWPD
Sample Date:	17 Nov-12 11:25	**Material:**	Sample Water	**Project:**	2012/13-2 (Wet)
Receive Date:	17 Nov-12 12:42	**Source:**	Bioassay Report		
Sample Age:	77h	**Station:**	ME-CC		

Data Transform	Zeta	Alt Hyp	Trials	Seed	PMSD	NOEL	LOEL	TOEL	TU
Untransformed	NA	C > T	NA	NA	29.4%	100	>100	NA	1

Dunnett Multiple Comparison Test

Control vs	C-%	Test Stat	Critical	MSD	DF	P-Value	P-Type	Decision(α:5%)
Negative Control	6.25	-0.9406	2.362	0.236	8	0.9804	CDF	Non-Significant Effect
	12.5	-1.625	2.362	0.236	8	0.9975	CDF	Non-Significant Effect
	25	-0.1721	2.362	0.236	8	0.8792	CDF	Non-Significant Effect
	50	-0.5604	2.362	0.236	8	0.9480	CDF	Non-Significant Effect
	100	0.3803	2.362	0.236	8	0.6977	CDF	Non-Significant Effect

Test Acceptability Criteria

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.8028	0.85 - NL	Yes	Below Acceptability Criteria
PMSD	0.294	NL - 0.5	No	Passes Acceptability Criteria

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	0.1295692	0.02591383	5	1.038	0.4183	Non-Significant Effect
Error	0.599192	0.02496633	24			
Total	0.7287612		29			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Bartlett Equality of Variance	7.32	15.09	0.1979	Equal Variances
Variances	Mod Levene Equality of Variance	0.8862	4.248	0.5104	Equal Variances
Variances	Levene Equality of Variance	2.153	3.895	0.0935	Equal Variances
Distribution	Shapiro-Wilk W Normality	0.9147	0.9031	0.0196	Normal Distribution
Distribution	Kolmogorov-Smirnov D	0.1422	0.1853	0.1227	Normal Distribution
Distribution	D'Agostino Skewness	0.912	2.576	0.3618	Normal Distribution
Distribution	D'Agostino Kurtosis	1.644	2.576	0.1003	Normal Distribution
Distribution	D'Agostino-Pearson K2 Omnibus	3.533	9.21	0.1709	Normal Distribution
Distribution	Anderson-Darling A2 Normality	1	3.878	0.0124	Normal Distribution

Mean Dry Biomass-mg Summary

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	Negative Control	5	0.8028	0.4681	1.138	0.682	0.6	1.234	0.1206	33.58%	0.0%
6.25		5	0.8968	0.8116	0.982	0.9	0.798	0.988	0.03068	7.65%	-11.71%
12.5		5	0.9652	0.7937	1.137	1.04	0.76	1.092	0.06175	14.31%	-20.23%
25		5	0.82	0.6661	0.9739	0.872	0.604	0.906	0.05544	15.12%	-2.14%
50		5	0.8588	0.7174	1	0.868	0.67	0.97	0.05094	13.26%	-6.98%
100		5	0.7648	0.5684	0.9612	0.804	0.508	0.922	0.07073	20.68%	4.73%

Pacific Topsmelt 7-d Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	13-5820-7153	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:22	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Mean Dry Biomass-mg Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	Negative Control	0.602	0.6	0.682	0.896	1.234
6.25		0.798	0.988	0.9	0.918	0.88
12.5		0.76	1.046	0.888	1.04	1.092
25		0.888	0.906	0.83	0.604	0.872
50		0.868	0.97	0.67	0.866	0.92
100		0.922	0.508	0.74	0.804	0.85

CETIS Analytical Report

Pacific Topsmelt 7-d Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	01-4979-4683	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:22	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Batch ID:	14-0520-8803	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	20 Nov-12 16:00	**Protocol:**	EPA/600/R-95/136 (1995)	**Diluent:**	Laboratory Seawater
Ending Date:	27 Nov-12 14:10	**Species:**	Atherinops affinis	**Brine:**	Not Applicable
Duration:	6d 22h	**Source:**	Aquatic Biosystems, CO	**Age:**	

Sample ID:	03-4508-6923	**Code:**	VCF1112.260t	**Client:**	VCWPD
Sample Date:	17 Nov-12 11:25	**Material:**	Sample Water	**Project:**	2012/13-2 (Wet)
Receive Date:	17 Nov-12 12:42	**Source:**	Bioassay Report		
Sample Age:	77h	**Station:**	ME-CC		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	0	280	Yes	Two-Point Interpolation

Test Acceptability Criteria

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.96	0.8 - NL	Yes	Passes Acceptability Criteria

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
EC5	40	N/A	N/A	2.5	NA	NA
EC10	>100	N/A	N/A	<1	NA	NA
EC15	>100	N/A	N/A	<1	NA	NA
EC20	>100	N/A	N/A	<1	NA	NA
EC25	>100	N/A	N/A	<1	NA	NA
EC40	>100	N/A	N/A	<1	NA	NA
EC50	>100	N/A	N/A	<1	NA	NA

7d Survival Rate Summary

										Calculated Variate(A/B)	
C-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	%Effect	A	B
0	Negative Control	5	0.96	0.8	1	0.04	0.08944	9.32%	0.0%	24	25
6.25		5	0.96	0.8	1	0.04	0.08944	9.32%	0.0%	24	25
12.5		5	0.92	0.8	1	0.04899	0.1095	11.91%	4.17%	23	25
25		5	1	1	1	0	0	0.0%	-4.17%	25	25
50		5	0.88	0.8	1	0.04899	0.1095	12.45%	8.33%	22	25
100		5	0.88	0.6	1	0.08	0.1789	20.33%	8.33%	22	25

7d Survival Rate Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	Negative Control	1	1	1	1	0.8
6.25		1	1	1	1	0.8
12.5		0.8	1	1	0.8	1
25		1	1	1	1	1
50		1	1	0.8	0.8	0.8
100		1	0.6	0.8	1	1

7d Survival Rate Binomials

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	Negative Contro	5/5	5/5	5/5	5/5	4/5
6.25		5/5	5/5	5/5	5/5	4/5
12.5		4/5	5/5	5/5	4/5	5/5
25		5/5	5/5	5/5	5/5	5/5
50		5/5	5/5	4/5	4/5	4/5
100		5/5	3/5	4/5	5/5	5/5

Analysis ID:	01-4979-4683	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:22	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Pacific Topsmelt 7-d Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	13-2328-5868	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:22	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Batch ID:	14-0520-8803	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	20 Nov-12 16:00	**Protocol:**	EPA/600/R-95/136 (1995)	**Diluent:**	Laboratory Seawater
Ending Date:	27 Nov-12 14:10	**Species:**	Atherinops affinis	**Brine:**	Not Applicable
Duration:	6d 22h	**Source:**	Aquatic Biosystems, CO	**Age:**	

Sample ID:	03-4508-6923	**Code:**	VCF1112.260t	**Client:**	VCWPD
Sample Date:	17 Nov-12 11:25	**Material:**	Sample Water	**Project:**	2012/13-2 (Wet)
Receive Date:	17 Nov-12 12:42	**Source:**	Bioassay Report		
Sample Age:	77h	**Station:**	ME-CC		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	852679	280	Yes	Two-Point Interpolation

Test Acceptability Criteria

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.8028	0.85 - NL	Yes	Below Acceptability Criteria

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
IC5	23.86	N/A	N/A	4.191	NA	NA
IC10	76.78	N/A	N/A	1.302	NA	NA
IC15	>100	N/A	N/A	<1	NA	NA
IC20	>100	N/A	N/A	<1	NA	NA
IC25	>100	N/A	N/A	<1	NA	NA
IC40	>100	N/A	N/A	<1	NA	NA
IC50	>100	N/A	N/A	<1	NA	NA

Mean Dry Biomass-mg Summary

			Calculated Variate						
C-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Negative Control	5	0.8028	0.6	1.234	0.1206	0.2696	33.58%	0.0%
6.25		5	0.8968	0.798	0.988	0.03068	0.06859	7.65%	-11.71%
12.5		5	0.9652	0.76	1.092	0.06175	0.1381	14.31%	-20.23%
25		5	0.82	0.604	0.906	0.05544	0.124	15.12%	-2.14%
50		5	0.8588	0.67	0.97	0.05094	0.1139	13.26%	-6.98%
100		5	0.7648	0.508	0.922	0.07073	0.1582	20.68%	4.73%

Mean Dry Biomass-mg Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	Negative Control	0.602	0.6	0.682	0.896	1.234
6.25		0.798	0.988	0.9	0.918	0.88
12.5		0.76	1.046	0.888	1.04	1.092
25		0.888	0.906	0.83	0.604	0.872
50		0.868	0.97	0.67	0.866	0.92
100		0.922	0.508	0.74	0.804	0.85

Analysis ID:	13-2328-5868	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:22	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

CETIS Measurement Report

Pacific Topsmelt 7-d Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Batch ID:	14-0520-8803	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	20 Nov-12 16:00	**Protocol:**	EPA/600/R-95/136 (1995)	**Diluent:**	Laboratory Seawater
Ending Date:	27 Nov-12 14:10	**Species:**	Atherinops affinis	**Brine:**	Not Applicable
Duration:	6d 22h	**Source:**	Aquatic Biosystems, CO	**Age:**	

Sample ID:	03-4508-6923	**Code:**	VCF1112.260t	**Client:**	VCWPD
Sample Date:	17 Nov-12 11:25	**Material:**	Sample Water	**Project:**	2012/13-2 (Wet)
Receive Date:	17 Nov-12 12:42	**Source:**	Bioassay Report		
Sample Age:	77h	**Station:**	ME-CC		

Dissolved Oxygen-mg/L

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.725	7.507	7.943	7.2	8	0.0921	0.2605	3.37%	0
6.25		8	7.175	6.077	8.273	4	7.9	0.4644	1.313	18.31%	0
12.5		8	7.163	6.071	8.254	4	7.8	0.4617	1.306	18.23%	0
25		8	7.275	6.168	8.382	4	7.8	0.4682	1.324	18.2%	0
50		8	7.188	6.088	8.287	4	7.8	0.465	1.315	18.3%	0
100		8	7.125	6.022	8.228	4	7.9	0.4663	1.319	18.51%	0
Overall		48	7.275			4	8				0 (0%)

pH-Units

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.638	7.414	7.861	7	7.8	0.09437	0.2669	3.5%	0
6.25		8	7.763	7.7	7.825	7.6	7.8	0.02631	0.07441	0.96%	0
12.5		8	7.775	7.716	7.834	7.6	7.8	0.025	0.07072	0.91%	0
25		8	7.813	7.783	7.842	7.8	7.9	0.0125	0.03537	0.45%	0
50		8	7.863	7.819	7.906	7.8	7.9	0.0183	0.05175	0.66%	0
100		8	7.95	7.887	8.013	7.9	8.1	0.02672	0.07559	0.95%	0
Overall		48	7.8			7	8.1				0 (0%)

Salinity-ppt

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	25	25	25	25	25	0	0	0.0%	0
6.25		8	25	25	25	25	25	0	0	0.0%	0
12.5		8	25	25	25	25	25	0	0	0.0%	0
25		8	25	25	25	25	25	0	0	0.0%	0
50		8	25	25	25	25	25	0	0	0.0%	0
100		8	25	25	25	25	25	0	0	0.0%	0
Overall		48	25			25	25				0 (0%)

Temperature-°C

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	21	21	21	21	21	0	0	0.0%	0
6.25		8	21	21	21	21	21	0	0	0.0%	0
12.5		8	21	21	21	21	21	0	0	0.0%	0
25		8	21	21	21	21	21	0	0	0.0%	0
50		8	21	21	21	21	21	0	0	0.0%	0
100		8	21	21	21	21	21	0	0	0.0%	0
Overall		48	21			21	21				0 (0%)

Pacific Topsmelt 7-d Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Dissolved Oxygen-mg/L

C-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	7.7	8	7.9	7.8	7.9	7.8	7.2	7.5
6.25		7.7	7.1	7.9	7.8	7.8	7.8	7.3	4
12.5		7.7	7	7.7	7.8	7.8	7.8	7.5	4
25		7.7	7.7	7.7	7.8	7.8	7.8	7.7	4
50		7.7	7	7.7	7.8	7.8	7.8	7.7	4
100		7.9	6.8	7.2	7.8	7.8	7.8	7.7	4

Total Ammonia (N)-mg/L

C-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr								
6.25									
12.5									
25									
50									
100									

pH-Units

C-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	7.7	7.6	7.7	7.7	7.8	7.8	7.8	7
6.25		7.8	7.8	7.8	7.7	7.8	7.8	7.8	7.6
12.5		7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.6
25		7.8	7.8	7.8	7.8	7.8	7.8	7.9	7.8
50		7.8	7.9	7.9	7.9	7.8	7.8	7.9	7.9
100		8	8	7.9	7.9	7.9	7.9	7.9	8.1

Salinity-ppt

C-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	25	25	25	25	25	25	25	25
6.25		25	25	25	25	25	25	25	25
12.5		25	25	25	25	25	25	25	25
25		25	25	25	25	25	25	25	25
50		25	25	25	25	25	25	25	25
100		25	25	25	25	25	25	25	25

Temperature-°C

C-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	21	21	21	21	21	21	21	21
6.25		21	21	21	21	21	21	21	21
12.5		21	21	21	21	21	21	21	21
25		21	21	21	21	21	21	21	21
50		21	21	21	21	21	21	21	21
100		21	21	21	21	21	21	21	21

aquatic bioassay & consulting laboratories, inc

January 4th, 2013

Mr. Arne Anselm
Ventura County Watershed Protection District
800 South Victoria Ave
Ventura, CA 93009

Dear Mr. Anselm:

We are pleased to present the enclosed bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Measuring the Chronic Toxicity of Effluents and Receving Waters to West Coast Estuarine Organisms, EPA/821/R-02-014.* Results were as follows:

CLIENT:	Ventura County Flood Control
SAMPLE I.D.:	ME-SCR
DATE RECEIVED:	11/17/2012
ABC LAB. NO.:	VCF1112.254

CHRONIC TOPSMELT SURVIVAL AND GROWTH BIOASSAY

Survival	NOEC	=	100.00
	TUc	=	1.00
	IC25	=	>100.00 %
	IC50	=	>100.00 %
Biomass	NOEC	=	100.00 %
	TUc	=	1.00
	IC25	=	>100.00 %
	IC50	=	>100.00 %

Yours very truly,

Scott Johnson
Laboratory Director

CETIS Summary Report

Report Date: 04 Jan-13 12:32 (p 1 of 1)
Test Code: VCF1112.254tops | 09-4477-1842

Pacific Topsmelt 7-d Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Batch ID:	06-0596-1279	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	20 Nov-12 16:07	**Protocol:**	EPA/600/R-95/136 (1995)	**Diluent:**	Laboratory Seawater
Ending Date:	27 Nov-12 14:10	**Species:**	Atherinops affinis	**Brine:**	Not Applicable
Duration:	6d 22h	**Source:**	Aquatic Biosystems, CO	**Age:**	

Sample ID:	01-6034-0260	**Code:**	VCF1112.254t	**Client:**	VCWPD
Sample Date:	17 Nov-12 10:50	**Material:**	Sample Water	**Project:**	2012/13-2 (Wet)
Receive Date:	17 Nov-12 12:16	**Source:**	Bioassay Report		
Sample Age:	77h	**Station:**	ME-SCR		

Comparison Summary

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
14-2131-6642	7d Survival Rate	100	>100	NA	12.6%	1	Wilcoxon Rank Sum Two-Sample Test
19-4556-1201	Mean Dry Biomass-mg	100	>100	NA	32.3%	1	Unequal Variance t Two-Sample Test

Point Estimate Summary

Analysis ID	Endpoint	Level	%	95% LCL	95% UCL	TU	Method
13-3002-3599	7d Survival Rate	EC5	>100	N/A	N/A	<1	Linear Interpolation (ICPIN)
		EC10	>100	N/A	N/A	<1	
		EC15	>100	N/A	N/A	<1	
		EC20	>100	N/A	N/A	<1	
		EC25	>100	N/A	N/A	<1	
		EC40	>100	N/A	N/A	<1	
		EC50	>100	N/A	N/A	<1	
00-6359-6905	Mean Dry Biomass-mg	IC5	20.95	7.188	N/A	4.773	Linear Interpolation (ICPIN)
		IC10	41.9	14.38	N/A	2.387	
		IC15	62.85	21.56	N/A	1.591	
		IC20	83.8	28.75	N/A	1.193	
		IC25	>100	N/A	N/A	<1	
		IC40	>100	N/A	N/A	<1	
		IC50	>100	N/A	N/A	<1	

7d Survival Rate Summary

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Negative Contro	5	0.96	0.8489	1	0.8	1	0.04	0.08944	9.32%	0.0%
100		5	0.92	0.784	1	0.8	1	0.04899	0.1095	11.91%	4.17%

Mean Dry Biomass-mg Summary

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Negative Contro	5	0.8028	0.4681	1.138	0.6	1.234	0.1206	0.2696	33.58%	0.0%
100		5	0.6112	0.569	0.6534	0.58	0.668	0.01519	0.03396	5.56%	23.87%

7d Survival Rate Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	Negative Contro	1	1	1	1	0.8
100		0.8	1	1	1	0.8

Mean Dry Biomass-mg Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	Negative Contro	0.602	0.6	0.682	0.896	1.234
100		0.58	0.614	0.598	0.668	0.596

7d Survival Rate Binomials

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	Negative Contro	5/5	5/5	5/5	5/5	4/5
100		4/5	5/5	5/5	5/5	4/5

CETIS Analytical Report

Pacific Topsmelt 7-d Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	14-2131-6642	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:23	**Analysis:**	Nonparametric-Two Sample	**Official Results:**	Yes

Batch ID:	06-0596-1279	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	20 Nov-12 16:07	**Protocol:**	EPA/600/R-95/136 (1995)	**Diluent:**	Laboratory Seawater
Ending Date:	27 Nov-12 14:10	**Species:**	Atherinops affinis	**Brine:**	Not Applicable
Duration:	6d 22h	**Source:**	Aquatic Biosystems, CO	**Age:**	

Sample ID:	01-6034-0260	**Code:**	VCF1112.254t	**Client:**	VCWPD
Sample Date:	17 Nov-12 10:50	**Material:**	Sample Water	**Project:**	2012/13-2 (Wet)
Receive Date:	17 Nov-12 12:16	**Source:**	Bioassay Report		
Sample Age:	77h	**Station:**	ME-SCR		

Data Transform	Zeta	Alt Hyp	Trials	Seed	PMSD	Test Result
Angular (Corrected)	NA	C > T	NA	NA	12.6%	Passes 7d survival rate

Wilcoxon Rank Sum Two-Sample Test

Control	vs	C-%	Test Stat	Critical	Ties	DF	P-Value	P-Type	Decision(α:5%)
Negative Control		100	25	NA	2	8	0.5000	Exact	Non-Significant Effect

Test Acceptability Criteria

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.96	0.8 - NL	Yes	Passes Acceptability Criteria
PMSD	0.1263	NL - 0.25	No	Passes Acceptability Criteria

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	0.00567079	0.00567079	1	0.4	0.5447	Non-Significant Effect
Error	0.1134158	0.01417698	8			
Total	0.1190866		9			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Variance Ratio F	1.5	23.15	0.7040	Equal Variances
Variances	Mod Levene Equality of Variance	0.4286	13.75	0.5370	Equal Variances
Variances	Levene Equality of Variance	1.524	11.26	0.2521	Equal Variances
Distribution	Shapiro-Wilk W Normality	0.7586	0.7411	0.0045	Non-normal Distribution
Distribution	Kolmogorov-Smirnov D	0.3643	0.3025	0.0005	Non-normal Distribution
Distribution	D'Agostino Skewness	1.407	2.576	0.1594	Normal Distribution
Distribution	Anderson-Darling A2 Normality	1.329	3.878	0.0014	Non-normal Distribution

7d Survival Rate Summary

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	Negative Control	5	0.96	0.8489	1	1	0.8	1	0.04	9.32%	0.0%
100		5	0.92	0.784	1	1	0.8	1	0.04899	11.91%	4.17%

Angular (Corrected) Transformed Summary

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	Negative Contr	5	1.298	1.165	1.43	1.345	1.107	1.345	0.04763	8.21%	0.0%
100		5	1.25	1.088	1.412	1.345	1.107	1.345	0.05833	10.43%	3.67%

7d Survival Rate Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	Negative Control	1	1	1	1	0.8
100		0.8	1	1	1	0.8

Angular (Corrected) Transformed Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	Negative Control	1.345	1.345	1.345	1.345	1.107
100		1.107	1.345	1.345	1.345	1.107

Pacific Topsmelt 7-d Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	14-2131-6642	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:23	**Analysis:**	Nonparametric-Two Sample	**Official Results:**	Yes

7d Survival Rate Binomials

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	Negative Contro	5/5	5/5	5/5	5/5	4/5
100		4/5	5/5	5/5	5/5	4/5

Pacific Topsmelt 7-d Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	19-4556-1201	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:23	**Analysis:**	Parametric-Two Sample	**Official Results:**	Yes

Batch ID:	06-0596-1279	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	20 Nov-12 16:07	**Protocol:**	EPA/600/R-95/136 (1995)	**Diluent:**	Laboratory Seawater
Ending Date:	27 Nov-12 14:10	**Species:**	Atherinops affinis	**Brine:**	Not Applicable
Duration:	6d 22h	**Source:**	Aquatic Biosystems, CO	**Age:**	

Sample ID:	01-6034-0260	**Code:**	VCF1112.254t	**Client:**	VCWPD
Sample Date:	17 Nov-12 10:50	**Material:**	Sample Water	**Project:**	2012/13-2 (Wet)
Receive Date:	17 Nov-12 12:16	**Source:**	Bioassay Report		
Sample Age:	77h	**Station:**	ME-SCR		

Data Transform	Zeta	Alt Hyp	Trials	Seed	PMSD	Test Result
Untransformed	NA	C > T	NA	NA	32.3%	Passes mean dry biomass-mg

Unequal Variance t Two-Sample Test

Control	vs	C-%	Test Stat	Critical	MSD	DF	P-Value	P-Type	Decision(α:5%)
Negative Control		100	1.577	2.132	0.259	4	0.0950	CDF	Non-Significant Effect

Test Acceptability Criteria

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.8028	0.85 - NL	Yes	Below Acceptability Criteria
PMSD	0.3227	NL - 0.5	No	Passes Acceptability Criteria

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	0.09177642	0.09177642	1	2.487	0.1535	Non-Significant Effect
Error	0.2952735	0.03690919	8			
Total	0.38705		9			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Variance Ratio F	63.01	23.15	0.0014	Unequal Variances
Variances	Mod Levene Equality of Variance	3.356	13.75	0.1167	Equal Variances
Variances	Levene Equality of Variance	9.544	11.26	0.0149	Equal Variances
Distribution	Shapiro-Wilk W Normality	0.8561	0.7411	0.0686	Normal Distribution
Distribution	Kolmogorov-Smirnov D	0.2034	0.3025	0.3085	Normal Distribution
Distribution	D'Agostino Skewness	2.106	2.576	0.0352	Normal Distribution
Distribution	Anderson-Darling A2 Normality	0.6726	3.878	0.0792	Normal Distribution

Mean Dry Biomass-mg Summary

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	Negative Control	5	0.8028	0.4681	1.138	0.682	0.6	1.234	0.1206	33.58%	0.0%
100		5	0.6112	0.569	0.6534	0.598	0.58	0.668	0.01519	5.56%	23.87%

Mean Dry Biomass-mg Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	Negative Control	0.602	0.6	0.682	0.896	1.234
100		0.58	0.614	0.598	0.668	0.596

CETIS Analytical Report

Report Date: 04 Jan-13 11:56 (p 1 of 3)
Test Code: VCF1112.254tops | 09-4477-1842

Pacific Topsmelt 7-d Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	13-3002-3599	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:23	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Batch ID:	06-0596-1279	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	20 Nov-12 16:07	**Protocol:**	EPA/600/R-95/136 (1995)	**Diluent:**	Laboratory Seawater
Ending Date:	27 Nov-12 14:10	**Species:**	Atherinops affinis	**Brine:**	Not Applicable
Duration:	6d 22h	**Source:**	Aquatic Biosystems, CO	**Age:**	

Sample ID:	01-6034-0260	**Code:**	VCF1112.254t	**Client:**	VCWPD
Sample Date:	17 Nov-12 10:50	**Material:**	Sample Water	**Project:**	2012/13-2 (Wet)
Receive Date:	17 Nov-12 12:16	**Source:**	Bioassay Report		
Sample Age:	77h	**Station:**	ME-SCR		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	0	280	Yes	Two-Point Interpolation

Test Acceptability Criteria

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.96	0.8 - NL	Yes	Passes Acceptability Criteria

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
EC5	>100	N/A	N/A	<1	NA	NA
EC10	>100	N/A	N/A	<1	NA	NA
EC15	>100	N/A	N/A	<1	NA	NA
EC20	>100	N/A	N/A	<1	NA	NA
EC25	>100	N/A	N/A	<1	NA	NA
EC40	>100	N/A	N/A	<1	NA	NA
EC50	>100	N/A	N/A	<1	NA	NA

7d Survival Rate Summary

			Calculated Variate(A/B)								
C-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	%Effect	A	B
0	Negative Control	5	0.96	0.8	1	0.04	0.08944	9.32%	0.0%	24	25
100		5	0.92	0.8	1	0.04899	0.1095	11.91%	4.17%	23	25

7d Survival Rate Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	Negative Control	1	1	1	1	0.8
100		0.8	1	1	1	0.8

7d Survival Rate Binomials

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	Negative Contro	5/5	5/5	5/5	5/5	4/5
100		4/5	5/5	5/5	5/5	4/5

Analysis ID:	13-3002-3599	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:23	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Pacific Topsmelt 7-d Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	00-6359-6905	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:23	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Batch ID:	06-0596-1279	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	20 Nov-12 16:07	**Protocol:**	EPA/600/R-95/136 (1995)	**Diluent:**	Laboratory Seawater
Ending Date:	27 Nov-12 14:10	**Species:**	Atherinops affinis	**Brine:**	Not Applicable
Duration:	6d 22h	**Source:**	Aquatic Biosystems, CO	**Age:**	

Sample ID:	01-6034-0260	**Code:**	VCF1112.254t	**Client:**	VCWPD
Sample Date:	17 Nov-12 10:50	**Material:**	Sample Water	**Project:**	2012/13-2 (Wet)
Receive Date:	17 Nov-12 12:16	**Source:**	Bioassay Report		
Sample Age:	77h	**Station:**	ME-SCR		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	754122	280	Yes	Two-Point Interpolation

Test Acceptability Criteria

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.8028	0.85 - NL	Yes	Below Acceptability Criteria

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
IC5	20.95	7.188	N/A	4.773	NA	13.91
IC10	41.9	14.38	N/A	2.387	NA	6.956
IC15	62.85	21.56	N/A	1.591	NA	4.637
IC20	83.8	28.75	N/A	1.193	NA	3.478
IC25	>100	N/A	N/A	<1	NA	NA
IC40	>100	N/A	N/A	<1	NA	NA
IC50	>100	N/A	N/A	<1	NA	NA

Mean Dry Biomass-mg Summary

			Calculated Variate						
C-%	**Control Type**	**Count**	**Mean**	**Min**	**Max**	**Std Err**	**Std Dev**	**CV%**	**%Effect**
0	Negative Control	5	0.8028	0.6	1.234	0.1206	0.2696	33.58%	0.0%
100		5	0.6112	0.58	0.668	0.01519	0.03396	5.56%	23.87%

Mean Dry Biomass-mg Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	Negative Control	0.602	0.6	0.682	0.896	1.234
100		0.58	0.614	0.598	0.668	0.596

CETIS Measurement Report

Report Date: 04 Jan-13 11:56 (p 1 of 1)
Test Code: VCF1112.254tops | 09-4477-1842

Pacific Topsmelt 7-d Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Batch ID:	06-0596-1279	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	20 Nov-12 16:07	**Protocol:**	EPA/600/R-95/136 (1995)	**Diluent:**	Laboratory Seawater
Ending Date:	27 Nov-12 14:10	**Species:**	Atherinops affinis	**Brine:**	Not Applicable
Duration:	6d 22h	**Source:**	Aquatic Biosystems, CO	**Age:**	

Sample ID:	01-6034-0260	**Code:**	VCF1112.254t	**Client:**	VCWPD
Sample Date:	17 Nov-12 10:50	**Material:**	Sample Water	**Project:**	2012/13-2 (Wet)
Receive Date:	17 Nov-12 12:16	**Source:**	Bioassay Report		
Sample Age:	77h	**Station:**	ME-SCR		

Dissolved Oxygen-mg/L

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.725	7.507	7.943	7.2	8	0.0921	0.2605	3.37%	0
100		8	7.8	7.572	8.028	7.2	8.1	0.09636	0.2726	3.49%	0
Overall		16	7.762			7.2	8.1				0 (0%)

pH-Units

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.738	7.675	7.8	7.6	7.8	0.02631	0.07441	0.96%	0
100		8	7.938	7.875	8	7.9	8.1	0.0263	0.07439	0.94%	0
Overall		16	7.838			7.6	8.1				0 (0%)

Salinity-ppt

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	25	25	25	25	25	0	0	0.0%	0
100		8	25	25	25	25	25	0	0	0.0%	0
Overall		16	25			25	25				0 (0%)

Temperature-°C

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	21	21	21	21	21	0	0	0.0%	0
100		8	21	21	21	21	21	0	0	0.0%	0
Overall		16	21			21	21				0 (0%)

Dissolved Oxygen-mg/L

C-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	7.7	8	7.9	7.8	7.9	7.8	7.2	7.5
100		7.9	8	7.8	7.8	7.9	7.7	7.2	8.1

pH-Units

C-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	7.7	7.6	7.7	7.7	7.8	7.8	7.8	7.8
100		8	7.9	7.9	7.9	7.9	7.9	7.9	8.1

Salinity-ppt

C-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	25	25	25	25	25	25	25	25
100		25	25	25	25	25	25	25	25

Temperature-°C

C-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	21	21	21	21	21	21	21	21
100		21	21	21	21	21	21	21	21

aquatic bioassay & consulting laboratories, inc

January 4th, 2013

Mr. Arne Anselm
Ventura County Watershed Protection District
800 South Victoria Ave
Ventura, CA 93009

Dear Mr. Anselm:

We are pleased to present the enclosed revised bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms" EPA-821-R-02-013*. Results were as follows:

CLIENT:	Ventura County Flood Control
SAMPLE I.D.:	MO-VEN
DATE RECEIVED:	11/17/2012
ABC LAB. NO.:	VCF1112.257

CHRONIC CERIODAPHNIA SURVIVAL & REPRODUCTION BIOASSAY

SURVIVAL	NOEC =	100.00 %
	TUc =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00 %
REPRODUCTION	NOEC =	100.00 %
	TUc =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00 %

Yours very truly,

Scott Johnson
Laboratory Director

CETIS Summary Report

Report Date: 04 Jan-13 12:38 (p 1 of 2)
Test Code: VCF1112.257cer | 08-0449-8590

Ceriodaphnia 7-d Survival and Reproduction Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Batch ID:	14-5428-5119	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	
Start Date:	20 Nov-12 16:01	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	27 Nov-12 15:00	**Species:**	Ceriodaphnia dubia	**Brine:**	Not Applicable
Duration:	6d 23h	**Source:**	Aquatic Biosystems, CO	**Age:**	

Sample ID:	08-4749-5000	**Code:**	VCF1112.257c	**Client:**	VCWPD
Sample Date:	17 Nov-12 07:35	**Material:**	Sample Water	**Project:**	2012/13-2 (Wet)
Receive Date:	17 Nov-12 12:16	**Source:**	Bioassay Report		
Sample Age:	80h	**Station:**	MO-VEN		

Comparison Summary

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
05-1645-3526	7d Survival Rate	100	>100	NA	NA	1	Fisher Exact/Bonferroni-Holm Test
10-5620-6790	Reproduction	100	>100	NA	25.3%	1	Dunnett Multiple Comparison Test

Point Estimate Summary

Analysis ID	Endpoint	Level	%	95% LCL	95% UCL	TU	Method
10-5957-7791	7d Survival Rate	EC5	>100	N/A	N/A	<1	Linear Interpolation (ICPIN)
		EC10	>100	N/A	N/A	<1	
		EC15	>100	N/A	N/A	<1	
		EC20	>100	N/A	N/A	<1	
		EC25	>100	N/A	N/A	<1	
		EC40	>100	N/A	N/A	<1	
		EC50	>100	N/A	N/A	<1	
16-3757-8492	Reproduction	IC5	>100	N/A	N/A	<1	Linear Interpolation (ICPIN)
		IC10	>100	N/A	N/A	<1	
		IC15	>100	N/A	N/A	<1	
		IC20	>100	N/A	N/A	<1	
		IC25	>100	N/A	N/A	<1	
		IC40	>100	N/A	N/A	<1	
		IC50	>100	N/A	N/A	<1	

Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits	Overlap	Decision
05-1645-3526	7d Survival Rate	Control Resp	1	0.8 - NL	Yes	Passes Acceptability Criteria
10-5957-7791	7d Survival Rate	Control Resp	1	0.8 - NL	Yes	Passes Acceptability Criteria
10-5620-6790	Reproduction	Control Resp	19	15 - NL	Yes	Passes Acceptability Criteria
16-3757-8492	Reproduction	Control Resp	19	15 - NL	Yes	Passes Acceptability Criteria
10-5620-6790	Reproduction	PMSD	0.2526	0.13 - 0.47	Yes	Passes Acceptability Criteria

7d Survival Rate Summary

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Negative Contro	10	1	1	1	1	1	0	0	0.0%	0.0%
6.25		10	1	1	1	1	1	0	0	0.0%	0.0%
12.5		10	1	1	1	1	1	0	0	0.0%	0.0%
25		10	1	1	1	1	1	0	0	0.0%	0.0%
50		10	1	1	1	1	1	0	0	0.0%	0.0%
100		10	1	1	1	1	1	0	0	0.0%	0.0%

Reproduction Summary

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Negative Contro	10	19	17.06	20.94	15	24	0.8563	2.708	14.25%	0.0%
6.25		10	16.7	11.52	21.88	7	27	2.29	7.243	43.37%	12.11%
12.5		10	19.6	15.68	23.52	10	28	1.733	5.481	27.97%	-3.16%
25		10	21.8	18.88	24.72	16	29	1.289	4.077	18.7%	-14.74%
50		10	20.8	18.26	23.34	15	25	1.123	3.553	17.08%	-9.47%
100		10	21.1	18.54	23.66	15	26	1.13	3.573	16.93%	-11.05%

Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

7d Survival Rate Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Contro	1	1	1	1	1	1	1	1	1	1
6.25		1	1	1	1	1	1	1	1	1	1
12.5		1	1	1	1	1	1	1	1	1	1
25		1	1	1	1	1	1	1	1	1	1
50		1	1	1	1	1	1	1	1	1	1
100		1	1	1	1	1	1	1	1	1	1

Reproduction Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Contro	24	20	18	20	21	17	18	15	21	16
6.25		18	7	23	8	27	12	18	27	15	12
12.5		28	20	27	16	21	19	10	19	14	22
25		16	29	19	19	23	19	21	26	26	20
50		25	20	22	21	16	25	24	15	22	18
100		20	15	23	19	19	26	21	18	25	25

7d Survival Rate Binomials

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Contro	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
6.25		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
12.5		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
25		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
50		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
100		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1

CETIS Analytical Report

Report Date: 04 Jan-13 12:38 (p 1 of 2)
Test Code: VCF1112.257cer | 08-0449-8590

Ceriodaphnia 7-d Survival and Reproduction Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	10-5620-6790	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 12:37	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Batch ID:	14-5428-5119	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	
Start Date:	20 Nov-12 16:01	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	27 Nov-12 15:00	**Species:**	Ceriodaphnia dubia	**Brine:**	Not Applicable
Duration:	6d 23h	**Source:**	Aquatic Biosystems, CO	**Age:**	

Sample ID:	08-4749-5000	**Code:**	VCF1112.257c	**Client:**	VCWPD
Sample Date:	17 Nov-12 07:35	**Material:**	Sample Water	**Project:**	2012/13-2 (Wet)
Receive Date:	17 Nov-12 12:16	**Source:**	Bioassay Report		
Sample Age:	80h	**Station:**	MO-VEN		

Data Transform	Zeta	Alt Hyp	Trials	Seed	PMSD	NOEL	LOEL	TOEL	TU
Untransformed	NA	C > T	NA	NA	25.3%	100	>100	NA	1

Dunnett Multiple Comparison Test

Control vs	C-%	Test Stat	Critical	MSD	DF	P-Value	P-Type	Decision(α:5%)
Negative Control	6.25	1.097	2.289	4.799	18	0.3734	CDF	Non-Significant Effect
	12.5	-0.2862	2.289	4.799	18	0.9046	CDF	Non-Significant Effect
	25	-1.336	2.289	4.799	18	0.9945	CDF	Non-Significant Effect
	50	-0.8586	2.289	4.799	18	0.9765	CDF	Non-Significant Effect
	100	-1.002	2.289	4.799	18	0.9844	CDF	Non-Significant Effect

Test Acceptability Criteria

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	19	15 - NL	Yes	Passes Acceptability Criteria
PMSD	0.2526	0.13 - 0.47	Yes	Passes Acceptability Criteria

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	169.7333	33.94667	5	1.545	0.1915	Non-Significant Effect
Error	1186.6	21.97407	54			
Total	1356.333		59			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Bartlett Equality of Variance	11.14	15.09	0.0487	Equal Variances
Variances	Mod Levene Equality of Variance	2.386	3.377	0.0500	Equal Variances
Variances	Levene Equality of Variance	2.608	3.377	0.0348	Equal Variances
Distribution	Shapiro-Wilk W Normality	0.987	0.9459	0.7732	Normal Distribution
Distribution	Kolmogorov-Smirnov D	0.06114	0.1331	0.8498	Normal Distribution
Distribution	D'Agostino Skewness	0.4491	2.576	0.6533	Normal Distribution
Distribution	D'Agostino Kurtosis	0.2035	2.576	0.8388	Normal Distribution
Distribution	D'Agostino-Pearson K2 Omnibus	0.2431	9.21	0.8855	Normal Distribution
Distribution	Anderson-Darling A2 Normality	0.2293	3.878	0.8393	Normal Distribution

Reproduction Summary

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	Negative Control	10	19	17.06	20.94	19	15	24	0.8563	14.25%	0.0%
6.25		10	16.7	11.52	21.88	16.5	7	27	2.29	43.37%	12.11%
12.5		10	19.6	15.68	23.52	19.5	10	28	1.733	27.97%	-3.16%
25		10	21.8	18.88	24.72	20.5	16	29	1.289	18.7%	-14.74%
50		10	20.8	18.26	23.34	21.5	15	25	1.123	17.08%	-9.47%
100		10	21.1	18.54	23.66	20.5	15	26	1.13	16.93%	-11.05%

Ceriodaphnia 7-d Survival and Reproduction Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	10-5620-6790	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 12:37	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Reproduction Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	24	20	18	20	21	17	18	15	21	16
6.25		18	7	23	8	27	12	18	27	15	12
12.5		28	20	27	16	21	19	10	19	14	22
25		16	29	19	19	23	19	21	26	26	20
50		25	20	22	21	16	25	24	15	22	18
100		20	15	23	19	19	26	21	18	25	25

CETIS Analytical Report

Report Date: 04 Jan-13 12:38 (p 1 of 4)
Test Code: VCF1112.257cer | 08-0449-8590

Ceriodaphnia 7-d Survival and Reproduction Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	10-5957-7791	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 12:38	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Batch ID:	14-5428-5119	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	
Start Date:	20 Nov-12 16:01	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	27 Nov-12 15:00	**Species:**	Ceriodaphnia dubia	**Brine:**	Not Applicable
Duration:	6d 23h	**Source:**	Aquatic Biosystems, CO	**Age:**	

Sample ID:	08-4749-5000	**Code:**	VCF1112.257c	**Client:**	VCWPD
Sample Date:	17 Nov-12 07:35	**Material:**	Sample Water	**Project:**	2012/13-2 (Wet)
Receive Date:	17 Nov-12 12:16	**Source:**	Bioassay Report		
Sample Age:	80h	**Station:**	MO-VEN		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	0	280	Yes	Two-Point Interpolation

Test Acceptability Criteria

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	1	0.8 - NL	Yes	Passes Acceptability Criteria

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
EC5	>100	N/A	N/A	<1	NA	NA
EC10	>100	N/A	N/A	<1	NA	NA
EC15	>100	N/A	N/A	<1	NA	NA
EC20	>100	N/A	N/A	<1	NA	NA
EC25	>100	N/A	N/A	<1	NA	NA
EC40	>100	N/A	N/A	<1	NA	NA
EC50	>100	N/A	N/A	<1	NA	NA

7d Survival Rate Summary

			Calculated Variate(A/B)								
C-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	%Effect	A	B
0	Negative Control	10	1	1	1	0	0	0.0%	0.0%	10	10
6.25		10	1	1	1	0	0	0.0%	0.0%	10	10
12.5		10	1	1	1	0	0	0.0%	0.0%	10	10
25		10	1	1	1	0	0	0.0%	0.0%	10	10
50		10	1	1	1	0	0	0.0%	0.0%	10	10
100		10	1	1	1	0	0	0.0%	0.0%	10	10

7d Survival Rate Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	1	1	1	1	1	1	1	1	1	1
6.25		1	1	1	1	1	1	1	1	1	1
12.5		1	1	1	1	1	1	1	1	1	1
25		1	1	1	1	1	1	1	1	1	1
50		1	1	1	1	1	1	1	1	1	1
100		1	1	1	1	1	1	1	1	1	1

7d Survival Rate Binomials

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Contro	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
6.25		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
12.5		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
25		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
50		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
100		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1

Analysis ID:	10-5957-7791	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 12:38	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Ceriodaphnia 7-d Survival and Reproduction Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	16-3757-8492	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 12:38	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Batch ID:	14-5428-5119	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	
Start Date:	20 Nov-12 16:01	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	27 Nov-12 15:00	**Species:**	Ceriodaphnia dubia	**Brine:**	Not Applicable
Duration:	6d 23h	**Source:**	Aquatic Biosystems, CO	**Age:**	

Sample ID:	08-4749-5000	**Code:**	VCF1112.257c	**Client:**	VCWPD
Sample Date:	17 Nov-12 07:35	**Material:**	Sample Water	**Project:**	2012/13-2 (Wet)
Receive Date:	17 Nov-12 12:16	**Source:**	Bioassay Report		
Sample Age:	80h	**Station:**	MO-VEN		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	2022343	280	Yes	Two-Point Interpolation

Test Acceptability Criteria

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	19	15 - NL	Yes	Passes Acceptability Criteria

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
IC5	>100	N/A	N/A	<1	NA	NA
IC10	>100	N/A	N/A	<1	NA	NA
IC15	>100	N/A	N/A	<1	NA	NA
IC20	>100	N/A	N/A	<1	NA	NA
IC25	>100	N/A	N/A	<1	NA	NA
IC40	>100	N/A	N/A	<1	NA	NA
IC50	>100	N/A	N/A	<1	NA	NA

Reproduction Summary

			Calculated Variate						
C-%	**Control Type**	**Count**	**Mean**	**Min**	**Max**	**Std Err**	**Std Dev**	**CV%**	**%Effect**
0	Negative Control	10	19	15	24	0.8563	2.708	14.25%	0.0%
6.25		10	16.7	7	27	2.29	7.243	43.37%	12.11%
12.5		10	19.6	10	28	1.733	5.481	27.97%	-3.16%
25		10	21.8	16	29	1.289	4.077	18.7%	-14.74%
50		10	20.8	15	25	1.123	3.553	17.08%	-9.47%
100		10	21.1	15	26	1.13	3.573	16.93%	-11.05%

Reproduction Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	24	20	18	20	21	17	18	15	21	16
6.25		18	7	23	8	27	12	18	27	15	12
12.5		28	20	27	16	21	19	10	19	14	22
25		16	29	19	19	23	19	21	26	26	20
50		25	20	22	21	16	25	24	15	22	18
100		20	15	23	19	19	26	21	18	25	25

Analysis ID:	16-3757-8492	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 12:38	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

CETIS Analytical Report

Ceriodaphnia 7-d Survival and Reproduction Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	05-1645-3526	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 12:37	**Analysis:**	STP 2x2 Contingency Tables	**Official Results:**	Yes

Batch ID:	14-5428-5119	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	
Start Date:	20 Nov-12 16:01	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	27 Nov-12 15:00	**Species:**	Ceriodaphnia dubia	**Brine:**	Not Applicable
Duration:	6d 23h	**Source:**	Aquatic Biosystems, CO	**Age:**	

Sample ID:	08-4749-5000	**Code:**	VCF1112.257c	**Client:**	VCWPD
Sample Date:	17 Nov-12 07:35	**Material:**	Sample Water	**Project:**	2012/13-2 (Wet)
Receive Date:	17 Nov-12 12:16	**Source:**	Bioassay Report		
Sample Age:	80h	**Station:**	MO-VEN		

Data Transform	Zeta	Alt Hyp	Trials	Seed	NOEL	LOEL	TOEL	TU
Untransformed		C > T	NA	NA	100	>100	NA	1

Fisher Exact/Bonferroni-Holm Test

Control	vs	C-%	Test Stat	P-Value	P-Type	Decision(α:5%)
Negative Control		6.25	1	1.0000	Exact	Non-Significant Effect
		12.5	1	1.0000	Exact	Non-Significant Effect
		25	1	1.0000	Exact	Non-Significant Effect
		50	1	1.0000	Exact	Non-Significant Effect
		100	1	1.0000	Exact	Non-Significant Effect

Test Acceptability Criteria

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	1	0.8 - NL	Yes	Passes Acceptability Criteria

Data Summary

C-%	Control Type	NR	R	NR + R	Prop NR	Prop R	%Effect
0	Negative Contr	10	0	10	1	0	0.0%
6.25		10	0	10	1	0	0.0%
12.5		10	0	10	1	0	0.0%
25		10	0	10	1	0	0.0%
50		10	0	10	1	0	0.0%
100		10	0	10	1	0	0.0%

7d Survival Rate Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	1	1	1	1	1	1	1	1	1	1
6.25		1	1	1	1	1	1	1	1	1	1
12.5		1	1	1	1	1	1	1	1	1	1
25		1	1	1	1	1	1	1	1	1	1
50		1	1	1	1	1	1	1	1	1	1
100		1	1	1	1	1	1	1	1	1	1

7d Survival Rate Binomials

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Contro	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
6.25		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
12.5		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
25		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
50		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
100		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1

Analysis ID:	05-1645-3526	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 12:37	**Analysis:**	STP 2x2 Contingency Tables	**Official Results:**	Yes

Analysis ID:	05-1645-3526	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 12:37	**Analysis:**	STP 2x2 Contingency Tables	**Official Results:**	Yes

CETIS Measurement Report

Ceriodaphnia 7-d Survival and Reproduction Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Batch ID:	14-5428-5119	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	
Start Date:	20 Nov-12 16:01	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	27 Nov-12 15:00	**Species:**	Ceriodaphnia dubia	**Brine:**	Not Applicable
Duration:	6d 23h	**Source:**	Aquatic Biosystems, CO	**Age:**	

Sample ID:	08-4749-5000	**Code:**	VCF1112.257c	**Client:**	VCWPD
Sample Date:	17 Nov-12 07:35	**Material:**	Sample Water	**Project:**	2012/13-2 (Wet)
Receive Date:	17 Nov-12 12:16	**Source:**	Bioassay Report		
Sample Age:	80h	**Station:**	MO-VEN		

Alkalinity (CaCO3)-mg/L

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	60.63	60.19	61.06	60	61	0.183	0.5175	0.85%	0
100		8	53	53	53	53	53	0	0	0.0%	0
Overall		16	56.81			53	61				0 (0%)

Conductivity-µmhos

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	347.1	343.8	350.4	344	356	1.394	3.944	1.14%	0
6.25		8	338.3	335.4	341.1	334	345	1.191	3.37	1.0%	0
12.5		8	334.1	332.9	335.3	333	337	0.5154	1.458	0.44%	0
25		8	332.1	331	333.3	331	335	0.4795	1.356	0.41%	0
50		8	327.9	326.6	329.2	325	329	0.5489	1.553	0.47%	0
100		8	320	317.7	322.3	316	325	0.982	2.777	0.87%	0
Overall		48	333.3			316	356				0 (0%)

Dissolved Oxygen-mg/L

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	8.075	7.819	8.331	7.8	8.5	0.1081	0.3059	3.79%	0
6.25		8	7.788	7.201	8.374	6.3	8.6	0.2482	0.7019	9.01%	0
12.5		8	7.525	6.493	8.557	4.6	8.7	0.4366	1.235	16.41%	0
25		8	7.425	6.238	8.612	4	8.5	0.502	1.42	19.12%	0
50		8	7.3	6.176	8.424	4	8	0.4755	1.345	18.42%	0
100		8	6.988	5.843	8.132	4	8	0.4838	1.368	19.58%	0
Overall		48	7.517			4	8.7				0 (0%)

Hardness (CaCO3)-mg/L

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	93.13	91.83	94.42	92	95	0.5489	1.553	1.67%	0
100		8	102	102	102	102	102	0	0	0.0%	0
Overall		16	97.56			92	102				0 (0%)

pH-Units

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.913	7.883	7.942	7.9	8	0.01249	0.03533	0.45%	0
6.25		8	7.788	7.758	7.817	7.7	7.8	0.01251	0.03537	0.45%	0
12.5		8	7.763	7.7	7.825	7.6	7.8	0.02631	0.07441	0.96%	0
25		8	7.65	7.561	7.739	7.4	7.7	0.0378	0.1069	1.4%	0
50		8	7.538	7.412	7.663	7.3	7.7	0.05324	0.1506	2.0%	0
100		8	7.388	7.171	7.604	7.1	7.7	0.09149	0.2588	3.5%	0
Overall		48	7.673			7.1	8				0 (0%)

Ceriodaphnia 7-d Survival and Reproduction Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Temperature-°C

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	24.04	23.95	24.13	24	24.3	0.03751	0.1061	0.44%	0
6.25		8	24.13	23.83	24.42	24	25	0.125	0.3536	1.47%	0
12.5		8	24.09	23.91	24.26	24	24.6	0.07425	0.21	0.87%	0
25		8	24.04	23.98	24.1	24	24.2	0.02629	0.07436	0.31%	0
50		8	24.03	23.99	24.06	24	24.1	0.01634	0.04623	0.19%	0
100		8	24.08	23.96	24.19	24	24.4	0.04909	0.1389	0.58%	0
Overall		48	24.06			24	25				0 (0%)

Alkalinity (CaCO3)-mg/L

C-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	61	61	61	61	61	60	60	60
100		53	53	53	53	53	53	53	53

Conductivity-µmhos

C-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	344	344	348	345	347	348	345	356
6.25		345	334	335	338	337	339	338	340
12.5		334	333	333	333	335	335	337	333
25		331	331	332	332	332	333	335	331
50		326	325	328	329	329	328	329	329
100		316	317	320	320	320	320	322	325

Dissolved Oxygen-mg/L

C-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	8.4	8.5	8	7.8	7.8	7.9	7.8	8.4
6.25		8.5	8.6	7.9	7.8	7.7	7.9	7.6	6.3
12.5		8	8.7	8.1	7.8	7.7	7.8	7.5	4.6
25		8	8.5	8.1	7.9	7.7	7.8	7.4	4
50		7.5	8	8	7.8	7.7	7.8	7.6	4
100		6	7	8	7.7	7.7	7.8	7.7	4

Hardness (CaCO3)-mg/L

C-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	92	92	92	92	92	95	95	95
100		102	102	102	102	102	102	102	102

pH-Units

C-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	8	7.9	7.9	7.9	7.9	7.9	7.9	7.9
6.25		7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.7
12.5		7.7	7.8	7.8	7.8	7.8	7.8	7.8	7.6
25		7.6	7.7	7.7	7.7	7.7	7.7	7.7	7.4
50		7.4	7.4	7.6	7.6	7.6	7.7	7.7	7.3
100		7.1	7.1	7.4	7.5	7.5	7.7	7.7	7.1

Temperature-°C

C-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	24	24.3	24	24	24	24	24	24
6.25		24	24	24	24	24	24	25	24
12.5		24	24	24.1	24	24	24	24.6	24
25		24	24	24.1	24	24	24	24.2	24
50		24.1	24	24.1	24	24	24	24	24
100		24.1	24	24.1	24	24	24	24.4	24

aquatic bioassay & consulting laboratories, inc

January 4th, 2013

Mr. Arne Anselm
Ventura County Watershed Protection District
800 South Victoria Ave
Ventura, CA 93009

Dear Mr. Anselm:

We are pleased to present the enclosed revised bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms*" *EPA-821-R-02-013*. Results were as follows:

CLIENT:	Ventura County Flood Control
SAMPLE I.D.:	MO-HUE [High Salinity]
DATE RECEIVED:	11/17/2012
ABC LAB. NO.:	VCF1112.259

CHRONIC CERIODAPHNIA SURVIVAL & REPRODUCTION BIOASSAY

SURVIVAL	NOEC =	50.00 %
	TUc =	2.00
	IC25 =	58.33 %
	IC50 =	72.22 %
REPRODUCTION	NOEC =	25.00 %
	TUc =	4.00
	IC25 =	41.93 %
	IC50 =	61.43 %

Yours very truly,

Scott Johnson
Laboratory Director

29 north olive ventura, ca 93001 (805) 643.5621 www.aquabio.org

CETIS Summary Report

Report Date: 04 Jan-13 11:57 (p 1 of 2)
Test Code: VCF1112.259cer | 01-0340-8034

Ceriodaphnia 7-d Survival and Reproduction Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Batch ID:	05-4086-2715	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	
Start Date:	20 Nov-12 16:02	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	27 Nov-12 15:00	**Species:**	Ceriodaphnia dubia	**Brine:**	Not Applicable
Duration:	6d 23h	**Source:**	Aquatic Biosystems, CO	**Age:**	

Sample ID:	15-6725-5041	**Code:**	VCF1112.259c	**Client:**	VCWPD
Sample Date:	17 Nov-12 10:30	**Material:**	Sample Water	**Project:**	2012/13-2 (Wet)
Receive Date:	17 Nov-12 12:42	**Source:**	Bioassay Report		
Sample Age:	78h	**Station:**	MO-HUE		

Batch Note: Salinity high at 6ppt in 100% sample.

Comparison Summary

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
01-6013-4709	7d Survival Rate	50	100	70.71	NA	2	Fisher Exact/Bonferroni-Holm Test
05-7041-8591	Reproduction	25	50	35.36	26.4%	4	Dunnett Multiple Comparison Test

Point Estimate Summary

Analysis ID	Endpoint	Level	%	95% LCL	95% UCL	TU	Method
00-6258-0867	7d Survival Rate	EC5	37.5	29.17	52.5	2.667	Linear Interpolation (ICPIN)
		EC10	50	33.33	55	2	
		EC15	52.78	37.5	57.5	1.895	
		EC20	55.56	41.67	60	1.8	
		EC25	58.33	45.83	62.5	1.714	
		EC40	66.67	57.14	70	1.5	
		EC50	72.22	64.29	75	1.385	
04-9535-3756	Reproduction	IC5	26.08	14.74	29.49	3.834	Linear Interpolation (ICPIN)
		IC10	30.05	17.61	33.97	3.328	
		IC15	34.01	20.47	38.46	2.941	
		IC20	37.97	23.13	43.52	2.634	
		IC25	41.93	27.66	48.9	2.385	
		IC40	53.72	44.23	59.53	1.862	
		IC50	61.43	49.97	66.28	1.628	

Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits	Overlap	Decision
00-6258-0867	7d Survival Rate	Control Resp	1	0.8 - NL	Yes	Passes Acceptability Criteria
01-6013-4709	7d Survival Rate	Control Resp	1	0.8 - NL	Yes	Passes Acceptability Criteria
04-9535-3756	Reproduction	Control Resp	15.7	15 - NL	Yes	Passes Acceptability Criteria
05-7041-8591	Reproduction	Control Resp	15.7	15 - NL	Yes	Passes Acceptability Criteria
05-7041-8591	Reproduction	PMSD	0.2637	0.13 - 0.47	Yes	Passes Acceptability Criteria

7d Survival Rate Summary

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Negative Contro	10	1	1	1	1	1	0	0	0.0%	0.0%
6.25		10	1	1	1	1	1	0	0	0.0%	0.0%
12.5		10	1	1	1	1	1	0	0	0.0%	0.0%
25		10	1	1	1	1	1	0	0	0.0%	0.0%
50		10	0.9	0.6738	1	0	1	0.1	0.3162	35.14%	10.0%
100		10	0	0	0	0	0	0	0		100.0%

Reproduction Summary

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Negative Contro	10	15.7	12.82	18.58	10	25	1.274	4.029	25.66%	0.0%
6.25		10	16.9	13.47	20.33	9	27	1.516	4.795	28.37%	-7.64%
12.5		10	19.7	18.01	21.39	15	22	0.7461	2.359	11.98%	-25.48%
25		10	16.8	12.73	20.87	10	27	1.8	5.692	33.88%	-7.01%
50		10	11.3	9.087	13.51	5	15	0.9781	3.093	27.37%	28.03%
100		10	0	0	0	0	0	0	0		100.0%

7d Survival Rate Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Contro	1	1	1	1	1	1	1	1	1	1
6.25		1	1	1	1	1	1	1	1	1	1
12.5		1	1	1	1	1	1	1	1	1	1
25		1	1	1	1	1	1	1	1	1	1
50		1	1	1	1	1	1	0	1	1	1
100		0	0	0	0	0	0	0	0	0	0

Reproduction Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Contro	14	10	17	15	15	13	19	15	25	14
6.25		17	9	17	21	18	27	16	13	14	17
12.5		22	19	22	18	19	20	22	22	18	15
25		27	16	23	20	20	17	11	13	10	11
50		15	12	14	11	9	11	5	12	9	15
100		0	0	0	0	0	0	0	0	0	0

7d Survival Rate Binomials

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Contro	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
6.25		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
12.5		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
25		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
50		1/1	1/1	1/1	1/1	1/1	1/1	0/1	1/1	1/1	1/1
100		0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1

CETIS Analytical Report

Report Date: 04 Jan-13 11:57 (p 1 of 2)
Test Code: VCF1112.259cer | 01-0340-8034

Ceriodaphnia 7-d Survival and Reproduction Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	05-7041-8591	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:25	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Batch ID:	05-4086-2715	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	
Start Date:	20 Nov-12 16:02	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	27 Nov-12 15:00	**Species:**	Ceriodaphnia dubia	**Brine:**	Not Applicable
Duration:	6d 23h	**Source:**	Aquatic Biosystems, CO	**Age:**	

Sample ID:	15-6725-5041	**Code:**	VCF1112.259c	**Client:**	VCWPD
Sample Date:	17 Nov-12 10:30	**Material:**	Sample Water	**Project:**	2012/13-2 (Wet)
Receive Date:	17 Nov-12 12:42	**Source:**	Bioassay Report		
Sample Age:	78h	**Station:**	MO-HUE		

Batch Note: Salinity high at 6ppt in 100% sample.

Data Transform	Zeta	Alt Hyp	Trials	Seed	PMSD	NOEL	LOEL	TOEL	TU
Untransformed	NA	C > T	NA	NA	26.4%	25	50	35.36	4

Dunnett Multiple Comparison Test

Control vs	C-%	Test Stat	Critical	MSD	DF	P-Value	P-Type	Decision(α:5%)
Negative Control	6.25	-0.6442	2.222	4.14	18	0.9444	CDF	Non-Significant Effect
	12.5	-2.147	2.222	4.14	18	0.9995	CDF	Non-Significant Effect
	25	-0.5905	2.222	4.14	18	0.9371	CDF	Non-Significant Effect
	50*	2.362	2.222	4.14	18	0.0369	CDF	Significant Effect

Test Acceptability Criteria

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	15.7	15 - NL	Yes	Passes Acceptability Criteria
PMSD	0.2637	0.13 - 0.47	Yes	Passes Acceptability Criteria

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	372.88	93.22	4	5.373	0.0013	Significant Effect
Error	780.8	17.35111	45			
Total	1153.68		49			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Bartlett Equality of Variance	7.695	13.28	0.1034	Equal Variances
Variances	Mod Levene Equality of Variance	1.524	3.767	0.2113	Equal Variances
Variances	Levene Equality of Variance	1.585	3.767	0.1947	Equal Variances
Distribution	Shapiro-Wilk W Normality	0.9589	0.9367	0.0801	Normal Distribution
Distribution	Kolmogorov-Smirnov D	0.0904	0.1453	0.3650	Normal Distribution
Distribution	D'Agostino Skewness	1.543	2.576	0.1229	Normal Distribution
Distribution	D'Agostino Kurtosis	1.194	2.576	0.2325	Normal Distribution
Distribution	D'Agostino-Pearson K2 Omnibus	3.805	9.21	0.1492	Normal Distribution
Distribution	Anderson-Darling A2 Normality	0.6536	3.878	0.0884	Normal Distribution

Reproduction Summary

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	Negative Control	10	15.7	12.82	18.58	15	10	25	1.274	25.66%	0.0%
6.25		10	16.9	13.47	20.33	17	9	27	1.516	28.37%	-7.64%
12.5		10	19.7	18.01	21.39	19.5	15	22	0.7461	11.98%	-25.48%
25		10	16.8	12.73	20.87	16.5	10	27	1.8	33.88%	-7.01%
50		10	11.3	9.087	13.51	11.5	5	15	0.9781	27.37%	28.03%
100		10	0	0	0	0	0	0	0		100.0%

Ceriodaphnia 7-d Survival and Reproduction Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	05-7041-8591	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:25	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Reproduction Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	14	10	17	15	15	13	19	15	25	14
6.25		17	9	17	21	18	27	16	13	14	17
12.5		22	19	22	18	19	20	22	22	18	15
25		27	16	23	20	20	17	11	13	10	11
50		15	12	14	11	9	11	5	12	9	15
100		0	0	0	0	0	0	0	0	0	0

CETIS Analytical Report

Report Date: 04 Jan-13 11:57 (p 1 of 4)
Test Code: VCF1112.259cer | 01-0340-8034

Ceriodaphnia 7-d Survival and Reproduction Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	00-6258-0867	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:25	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Batch ID:	05-4086-2715	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	
Start Date:	20 Nov-12 16:02	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	27 Nov-12 15:00	**Species:**	Ceriodaphnia dubia	**Brine:**	Not Applicable
Duration:	6d 23h	**Source:**	Aquatic Biosystems, CO	**Age:**	

Sample ID:	15-6725-5041	**Code:**	VCF1112.259c	**Client:**	VCWPD
Sample Date:	17 Nov-12 10:30	**Material:**	Sample Water	**Project:**	2012/13-2 (Wet)
Receive Date:	17 Nov-12 12:42	**Source:**	Bioassay Report		
Sample Age:	78h	**Station:**	MO-HUE		

Batch Note: Salinity high at 6ppt in 100% sample.

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	0	280	Yes	Two-Point Interpolation

Test Acceptability Criteria

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	1	0.8 - NL	Yes	Passes Acceptability Criteria

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
EC5	37.5	29.17	52.5	2.667	1.905	3.429
EC10	50	33.33	55	2	1.818	3
EC15	52.78	37.5	57.5	1.895	1.739	2.667
EC20	55.56	41.67	60	1.8	1.667	2.4
EC25	58.33	45.83	62.5	1.714	1.6	2.182
EC40	66.67	57.14	70	1.5	1.429	1.75
EC50	72.22	64.29	75	1.385	1.333	1.556

7d Survival Rate Summary

			Calculated Variate(A/B)								
C-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	%Effect	A	B
0	Negative Control	10	1	1	1	0	0	0.0%	0.0%	10	10
6.25		10	1	1	1	0	0	0.0%	0.0%	10	10
12.5		10	1	1	1	0	0	0.0%	0.0%	10	10
25		10	1	1	1	0	0	0.0%	0.0%	10	10
50		10	0.9	0	1	0.1	0.3162	35.14%	10.0%	9	10
100		10	0	0	0	0	0		100.0%	0	10

7d Survival Rate Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	1	1	1	1	1	1	1	1	1	1
6.25		1	1	1	1	1	1	1	1	1	1
12.5		1	1	1	1	1	1	1	1	1	1
25		1	1	1	1	1	1	1	1	1	1
50		1	1	1	1	1	1	0	1	1	1
100		0	0	0	0	0	0	0	0	0	0

7d Survival Rate Binomials

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Contro	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
6.25		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
12.5		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
25		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
50		1/1	1/1	1/1	1/1	1/1	1/1	0/1	1/1	1/1	1/1
100		0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1

Analysis ID:	00-6258-0867	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:25	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Ceriodaphnia 7-d Survival and Reproduction Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	04-9535-3756	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:25	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Batch ID:	05-4086-2715	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	
Start Date:	20 Nov-12 16:02	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	27 Nov-12 15:00	**Species:**	Ceriodaphnia dubia	**Brine:**	Not Applicable
Duration:	6d 23h	**Source:**	Aquatic Biosystems, CO	**Age:**	

Sample ID:	15-6725-5041	**Code:**	VCF1112.259c	**Client:**	VCWPD
Sample Date:	17 Nov-12 10:30	**Material:**	Sample Water	**Project:**	2012/13-2 (Wet)
Receive Date:	17 Nov-12 12:42	**Source:**	Bioassay Report		
Sample Age:	78h	**Station:**	MO-HUE		

Batch Note: Salinity high at 6ppt in 100% sample.

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	1444264	280	Yes	Two-Point Interpolation

Test Acceptability Criteria

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	15.7	15 - NL	Yes	Passes Acceptability Criteria

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
IC5	26.08	14.74	29.49	3.834	3.391	6.786
IC10	30.05	17.61	33.97	3.328	2.943	5.679
IC15	34.01	20.47	38.46	2.941	2.6	4.885
IC20	37.97	23.13	43.52	2.634	2.298	4.323
IC25	41.93	27.66	48.9	2.385	2.045	3.616
IC40	53.72	44.23	59.53	1.862	1.68	2.261
IC50	61.43	49.97	66.28	1.628	1.509	2.001

Reproduction Summary

			Calculated Variate						
C-%	**Control Type**	**Count**	**Mean**	**Min**	**Max**	**Std Err**	**Std Dev**	**CV%**	**%Effect**
0	Negative Control	10	15.7	10	25	1.274	4.029	25.66%	0.0%
6.25		10	16.9	9	27	1.516	4.795	28.37%	-7.64%
12.5		10	19.7	15	22	0.7461	2.359	11.98%	-25.48%
25		10	16.8	10	27	1.8	5.692	33.88%	-7.01%
50		10	11.3	5	15	0.9781	3.093	27.37%	28.03%
100		10	0	0	0	0	0		100.0%

Reproduction Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	14	10	17	15	15	13	19	15	25	14
6.25		17	9	17	21	18	27	16	13	14	17
12.5		22	19	22	18	19	20	22	22	18	15
25		27	16	23	20	20	17	11	13	10	11
50		15	12	14	11	9	11	5	12	9	15
100		0	0	0	0	0	0	0	0	0	0

Ceriodaphnia 7-d Survival and Reproduction Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	04-9535-3756	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:25	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

CETIS Analytical Report

Report Date: 04 Jan-13 11:57 (p 1 of 3)
Test Code: VCF1112.259cer | 01-0340-8034

Ceriodaphnia 7-d Survival and Reproduction Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	01-6013-4709	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:24	**Analysis:**	STP 2x2 Contingency Tables	**Official Results:**	Yes

Batch ID:	05-4086-2715	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	
Start Date:	20 Nov-12 16:02	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	27 Nov-12 15:00	**Species:**	Ceriodaphnia dubia	**Brine:**	Not Applicable
Duration:	6d 23h	**Source:**	Aquatic Biosystems, CO	**Age:**	

Sample ID:	15-6725-5041	**Code:**	VCF1112.259c	**Client:**	VCWPD
Sample Date:	17 Nov-12 10:30	**Material:**	Sample Water	**Project:**	2012/13-2 (Wet)
Receive Date:	17 Nov-12 12:42	**Source:**	Bioassay Report		
Sample Age:	78h	**Station:**	MO-HUE		

Batch Note: Salinity high at 6ppt in 100% sample.

Data Transform	Zeta	Alt Hyp	Trials	Seed	NOEL	LOEL	TOEL	TU
Untransformed		C > T	NA	NA	50	100	70.71	2

Fisher Exact/Bonferroni-Holm Test

Control vs	C-%	Test Stat	P-Value	P-Type	Decision(α:5%)
Negative Control	6.25	1	1.0000	Exact	Non-Significant Effect
	12.5	1	1.0000	Exact	Non-Significant Effect
	25	1	1.0000	Exact	Non-Significant Effect
	50	0.5	1.0000	Exact	Non-Significant Effect
	100	5.41E-06	<0.0001	Exact	Significant Effect

Test Acceptability Criteria

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	1	0.8 - NL	Yes	Passes Acceptability Criteria

Data Summary

C-%	Control Type	NR	R	NR + R	Prop NR	Prop R	%Effect
0	Negative Contr	10	0	10	1	0	0.0%
6.25		10	0	10	1	0	0.0%
12.5		10	0	10	1	0	0.0%
25		10	0	10	1	0	0.0%
50		9	1	10	0.9	0.1	10.0%
100		0	10	10	0	1	100.0%

7d Survival Rate Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	1	1	1	1	1	1	1	1	1	1
6.25		1	1	1	1	1	1	1	1	1	1
12.5		1	1	1	1	1	1	1	1	1	1
25		1	1	1	1	1	1	1	1	1	1
50		1	1	1	1	1	1	0	1	1	1
100		0	0	0	0	0	0	0	0	0	0

7d Survival Rate Binomials

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Contro	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
6.25		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
12.5		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
25		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
50		1/1	1/1	1/1	1/1	1/1	1/1	0/1	1/1	1/1	1/1
100		0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1

Analysis ID:	01-6013-4709	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:24	**Analysis:**	STP 2x2 Contingency Tables	**Official Results:**	Yes

Analysis ID:	01-6013-4709	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:24	**Analysis:**	STP 2x2 Contingency Tables	**Official Results:**	Yes

CETIS Measurement Report

Test Code: VCF1112.259cer | 01-0340-8034

Ceriodaphnia 7-d Survival and Reproduction Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Batch ID:	05-4086-2715	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	
Start Date:	20 Nov-12 16:02	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	27 Nov-12 15:00	**Species:**	Ceriodaphnia dubia	**Brine:**	Not Applicable
Duration:	6d 23h	**Source:**	Aquatic Biosystems, CO	**Age:**	

Sample ID:	15-6725-5041	**Code:**	VCF1112.259c	**Client:**	VCWPD
Sample Date:	17 Nov-12 10:30	**Material:**	Sample Water	**Project:**	2012/13-2 (Wet)
Receive Date:	17 Nov-12 12:42	**Source:**	Bioassay Report		
Sample Age:	78h	**Station:**	MO-HUE		

Batch Note: Salinity high at 6ppt in 100% sample.

Alkalinity (CaCO3)-mg/L

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	60.63	60.19	61.06	60	61	0.183	0.5175	0.85%	0
100		8	266	266	266	266	266	0	0	0.0%	0
Overall		16	163.3			60	266				0 (0%)

Conductivity-µmhos

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	347.1	343.8	350.4	344	356	1.394	3.944	1.14%	0
6.25		8	865.4	840.7	890	852	938	10.43	29.51	3.41%	0
12.5		8	1455	1399	1511	1416	1618	23.62	66.82	4.59%	0
25		8	2532	2456	2608	2433	2685	32.14	90.91	3.59%	0
50		8	4854	4816	4891	4811	4959	15.7	44.4	0.91%	0
100		3	8952	8906	8998	8936	8972	10.58	18.33	0.2%	0
Overall		43	3167			344	8972				0 (0%)

Dissolved Oxygen-mg/L

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	8.075	7.819	8.331	7.8	8.5	0.1081	0.3059	3.79%	0
6.25		8	7.663	6.858	8.467	5.4	8.5	0.3401	0.962	12.56%	0
12.5		8	7.563	6.411	8.714	4.2	8.4	0.4869	1.377	18.21%	0
25		8	7.425	6.241	8.609	4	8.4	0.5006	1.416	19.07%	0
50		8	7.338	6.203	8.472	4	8.1	0.4799	1.357	18.5%	0
100		2	7.25	4.073	10.43	7	7.5	0.25	0.3536	4.88%	0
Overall		42	7.552			4	8.5				0 (0%)

Hardness (CaCO3)-mg/L

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	93.13	91.83	94.42	92	95	0.5489	1.553	1.67%	0
100		8	1180	1180	1180	1180	1180	0	0	0.0%	0
Overall		16	636.6			92	1180				0 (0%)

pH-Units

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.913	7.883	7.942	7.9	8	0.01249	0.03533	0.45%	0
6.25		8	7.8	7.666	7.934	7.5	7.9	0.05669	0.1604	2.06%	0
12.5		8	7.75	7.661	7.839	7.5	7.8	0.0378	0.1069	1.38%	0
25		8	7.713	7.659	7.766	7.6	7.8	0.02266	0.06409	0.83%	0
50		8	7.713	7.683	7.742	7.7	7.8	0.0125	0.03536	0.46%	0
100		2	7.6	7.594	7.606	7.6	7.6	0	0	0.0%	0
Overall		42	7.748			7.5	8				0 (0%)

Ceriodaphnia 7-d Survival and Reproduction Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Temperature-°C

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	24.04	23.95	24.13	24	24.3	0.03751	0.1061	0.44%	0
6.25		8	24.05	24.01	24.09	24	24.1	0.01886	0.05334	0.22%	0
12.5		8	24.08	24	24.15	24	24.2	0.03131	0.08857	0.37%	0
25		8	24.06	23.97	24.15	24	24.3	0.0375	0.1061	0.44%	0
50		8	24.05	23.99	24.11	24	24.2	0.0267	0.07553	0.31%	0
100		3	24.03	23.89	24.18	24	24.1	0.03328	0.05764	0.24%	0
Overall		43	24.05			24	24.3				0 (0%)

Alkalinity (CaCO3)-mg/L

C-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	61	61	61	61	61	60	60	60
100		266	266	266	266	266	266	266	266

Conductivity-µmhos

C-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	344	344	348	345	347	348	345	356
6.25		860	859	852	855	852	855	852	938
12.5		1416	1444	1445	1442	1427	1422	1425	1618
25		2552	2594	2580	2538	2439	2435	2433	2685
50		4811	4851	4836	4847	4847	4842	4835	4959
100		8972	8936	8948					

Dissolved Oxygen-mg/L

C-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	8.4	8.5	8	7.8	7.8	7.9	7.8	8.4
6.25		8.4	8.5	7.9	7.8	7.7	7.8	7.8	5.4
12.5		8.4	8.4	7.9	7.9	7.9	7.9	7.9	4.2
25		8.4	8.3	8	7.7	7.6	7.7	7.7	4
50		8.1	7.9	7.9	7.8	7.6	7.7	7.7	4
100		7.5	7						

Hardness (CaCO3)-mg/L

C-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	92	92	92	92	92	95	95	95
100		1180	1180	1180	1180	1180	1180	1180	1180

pH-Units

C-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	8	7.9	7.9	7.9	7.9	7.9	7.9	7.9
6.25		7.6	7.8	7.9	7.9	7.9	7.9	7.9	7.5
12.5		7.7	7.8	7.8	7.8	7.8	7.8	7.8	7.5
25		7.7	7.8	7.7	7.7	7.7	7.7	7.8	7.6
50		7.7	7.7	7.7	7.7	7.7	7.7	7.8	7.7
100		7.6	7.6						

Temperature-°C

C-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	24	24.3	24	24	24	24	24	24
6.25		24.1	24.1	24.1	24	24	24	24.1	24
12.5		24.2	24	24.1	24	24.1	24	24.2	24
25		24.3	24	24.1	24	24.1	24	24	24
50		24.2	24	24.1	24	24.1	24	24	24
100		24.1	24	24					

aquatic bioassay & consulting laboratories, inc

January 4th, 2013

Mr. Arne Anselm
Ventura County Watershed Protection District
800 South Victoria Ave
Ventura, CA 93009

Dear Mr. Anselm:

We are pleased to present the enclosed revised bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms" EPA-821-R-02-013.* Results were as follows:

CLIENT:	Ventura County Flood Control
SAMPLE I.D.:	MO-THO
DATE RECEIVED:	11/17/2012
ABC LAB. NO.:	VCF1112.262

CHRONIC CERIODAPHNIA SURVIVAL & REPRODUCTION BIOASSAY

SURVIVAL	NOEC =	100.00 %
	TUc =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00 %
REPRODUCTION	NOEC =	100.00 %
	TUc =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00 %

Yours very truly,

Scott Johnson
Laboratory Director

Ceriodaphnia 7-d Survival and Reproduction Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Batch ID:	16-7391-8123	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	
Start Date:	20 Nov-12 16:03	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	27 Nov-12 15:00	**Species:**	Ceriodaphnia dubia	**Brine:**	Not Applicable
Duration:	6d 23h	**Source:**	Aquatic Biosystems, CO	**Age:**	

Sample ID:	19-4823-4085	**Code:**	VCF1112.262c	**Client:**	VCWPD
Sample Date:	17 Nov-12 12:45	**Material:**	Sample Water	**Project:**	2012/13-2 (Wet)
Receive Date:	17 Nov-12 14:20	**Source:**	Bioassay Report		
Sample Age:	75h	**Station:**	MO-THO		

Comparison Summary

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
07-0253-1021	7d Survival Rate	100	>100	NA	NA	1	Fisher Exact/Bonferroni-Holm Test
16-1909-5640	Reproduction	100	>100	NA	29.5%	1	Dunnett Multiple Comparison Test

Point Estimate Summary

Analysis ID	Endpoint	Level	%	95% LCL	95% UCL	TU	Method
18-7316-6045	7d Survival Rate	EC5	75	58.33	N/A	1.333	Linear Interpolation (ICPIN)
		EC10	100	66.67	N/A	1	
		EC15	>100	N/A	N/A	<1	
		EC20	>100	N/A	N/A	<1	
		EC25	>100	N/A	N/A	<1	
		EC40	>100	N/A	N/A	<1	
		EC50	>100	N/A	N/A	<1	
00-5401-1158	Reproduction	IC5	>100	N/A	N/A	<1	Linear Interpolation (ICPIN)
		IC10	>100	N/A	N/A	<1	
		IC15	>100	N/A	N/A	<1	
		IC20	>100	N/A	N/A	<1	
		IC25	>100	N/A	N/A	<1	
		IC40	>100	N/A	N/A	<1	
		IC50	>100	N/A	N/A	<1	

Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits	Overlap	Decision
07-0253-1021	7d Survival Rate	Control Resp	1	0.8 - NL	Yes	Passes Acceptability Criteria
18-7316-6045	7d Survival Rate	Control Resp	1	0.8 - NL	Yes	Passes Acceptability Criteria
00-5401-1158	Reproduction	Control Resp	18.1	15 - NL	Yes	Passes Acceptability Criteria
16-1909-5640	Reproduction	Control Resp	18.1	15 - NL	Yes	Passes Acceptability Criteria
16-1909-5640	Reproduction	PMSD	0.295	0.13 - 0.47	Yes	Passes Acceptability Criteria

7d Survival Rate Summary

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Negative Contro	10	1	1	1	1	1	0	0	0.0%	0.0%
6.25		10	1	1	1	1	1	0	0	0.0%	0.0%
12.5		10	1	1	1	1	1	0	0	0.0%	0.0%
25		10	1	1	1	1	1	0	0	0.0%	0.0%
50		10	1	1	1	1	1	0	0	0.0%	0.0%
100		10	0.9	0.6738	1	0	1	0.1	0.3162	35.14%	10.0%

Reproduction Summary

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Negative Contro	10	18.1	14.19	22.01	7	24	1.729	5.466	30.2%	0.0%
6.25		10	15.5	10.74	20.26	4	26	2.104	6.654	42.93%	14.36%
12.5		10	19.6	16.17	23.03	12	29	1.514	4.789	24.43%	-8.29%
25		10	16.4	14.32	18.48	10	21	0.9214	2.914	17.77%	9.39%
50		10	23.1	20.13	26.07	15	28	1.312	4.149	17.96%	-27.62%
100		10	20	15.45	24.55	3	25	2.011	6.36	31.8%	-10.5%

Ceriodaphnia 7-d Survival and Reproduction Test — Aquatic Bioassay & Consulting Labs, Inc.

7d Survival Rate Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Contro	1	1	1	1	1	1	1	1	1	1
6.25		1	1	1	1	1	1	1	1	1	1
12.5		1	1	1	1	1	1	1	1	1	1
25		1	1	1	1	1	1	1	1	1	1
50		1	1	1	1	1	1	1	1	1	1
100		0	1	1	1	1	1	1	1	1	1

Reproduction Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Contro	24	21	14	16	7	21	21	24	13	20
6.25		11	18	15	4	16	25	13	10	26	17
12.5		24	18	18	18	29	19	23	20	12	15
25		15	15	18	10	18	17	17	15	18	21
50		26	27	23	20	23	19	27	15	28	23
100		3	23	21	17	23	23	20	23	25	22

7d Survival Rate Binomials

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Contro	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
6.25		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
12.5		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
25		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
50		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
100		0/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1

CETIS Analytical Report

Report Date: 04 Jan-13 11:57 (p 1 of 2)
Test Code: VCF1112.262cer | 18-5230-9188

Ceriodaphnia 7-d Survival and Reproduction Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	16-1909-5640	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:25	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Batch ID:	16-7391-8123	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	
Start Date:	20 Nov-12 16:03	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	27 Nov-12 15:00	**Species:**	Ceriodaphnia dubia	**Brine:**	Not Applicable
Duration:	6d 23h	**Source:**	Aquatic Biosystems, CO	**Age:**	

Sample ID:	19-4823-4085	**Code:**	VCF1112.262c	**Client:**	VCWPD
Sample Date:	17 Nov-12 12:45	**Material:**	Sample Water	**Project:**	2012/13-2 (Wet)
Receive Date:	17 Nov-12 14:20	**Source:**	Bioassay Report		
Sample Age:	75h	**Station:**	MO-THO		

Data Transform	Zeta	Alt Hyp	Trials	Seed	PMSD	NOEL	LOEL	TOEL	TU
Untransformed	NA	C > T	NA	NA	29.5%	100	>100	NA	1

Dunnett Multiple Comparison Test

Control	vs	C-%	Test Stat	Critical	MSD	DF	P-Value	P-Type	Decision(α:5%)
Negative Control		6.25	1.115	2.289	5.34	18	0.3658	CDF	Non-Significant Effect
		12.5	-0.6431	2.289	5.34	18	0.9583	CDF	Non-Significant Effect
		25	0.7288	2.289	5.34	18	0.5419	CDF	Non-Significant Effect
		50	-2.144	2.289	5.34	18	0.9997	CDF	Non-Significant Effect
		100	-0.8145	2.289	5.34	18	0.9734	CDF	Non-Significant Effect

Test Acceptability Criteria

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	18.1	15 - NL	Yes	Passes Acceptability Criteria
PMSD	0.295	0.13 - 0.47	Yes	Passes Acceptability Criteria

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	377.0833	75.41666	5	2.772	0.0267	Significant Effect
Error	1469.1	27.20555	54			
Total	1846.183		59			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Bartlett Equality of Variance	7.041	15.09	0.2176	Equal Variances
Variances	Mod Levene Equality of Variance	0.6182	3.377	0.6864	Equal Variances
Variances	Levene Equality of Variance	0.8974	3.377	0.4896	Equal Variances
Distribution	Shapiro-Wilk W Normality	0.9542	0.9459	0.0246	Normal Distribution
Distribution	Kolmogorov-Smirnov D	0.1076	0.1331	0.0813	Normal Distribution
Distribution	D'Agostino Skewness	2.479	2.576	0.0132	Normal Distribution
Distribution	D'Agostino Kurtosis	2.154	2.576	0.0312	Normal Distribution
Distribution	D'Agostino-Pearson K2 Omnibus	10.79	9.21	0.0045	Non-normal Distribution
Distribution	Anderson-Darling A2 Normality	0.867	3.878	0.0260	Normal Distribution

Reproduction Summary

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	Negative Control	10	18.1	14.19	22.01	20.5	7	24	1.729	30.2%	0.0%
6.25		10	15.5	10.74	20.26	15.5	4	26	2.104	42.93%	14.36%
12.5		10	19.6	16.17	23.03	18.5	12	29	1.514	24.43%	-8.29%
25		10	16.4	14.32	18.48	17	10	21	0.9214	17.77%	9.39%
50		10	23.1	20.13	26.07	23	15	28	1.312	17.96%	-27.62%
100		10	20	15.45	24.55	22.5	3	25	2.011	31.8%	-10.5%

Ceriodaphnia 7-d Survival and Reproduction Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	16-1909-5640	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:25	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Reproduction Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	24	21	14	16	7	21	21	24	13	20
6.25		11	18	15	4	16	25	13	10	26	17
12.5		24	18	18	18	29	19	23	20	12	15
25		15	15	18	10	18	17	17	15	18	21
50		26	27	23	20	23	19	27	15	28	23
100		3	23	21	17	23	23	20	23	25	22

CETIS Analytical Report

Report Date: 04 Jan-13 11:57 (p 1 of 4)
Test Code: VCF1112.262cer | 18-5230-9188

Ceriodaphnia 7-d Survival and Reproduction Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	18-7316-6045	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:25	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Batch ID:	16-7391-8123	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	
Start Date:	20 Nov-12 16:03	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	27 Nov-12 15:00	**Species:**	Ceriodaphnia dubia	**Brine:**	Not Applicable
Duration:	6d 23h	**Source:**	Aquatic Biosystems, CO	**Age:**	

Sample ID:	19-4823-4085	**Code:**	VCF1112.262c	**Client:**	VCWPD
Sample Date:	17 Nov-12 12:45	**Material:**	Sample Water	**Project:**	2012/13-2 (Wet)
Receive Date:	17 Nov-12 14:20	**Source:**	Bioassay Report		
Sample Age:	75h	**Station:**	MO-THO		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	0	280	Yes	Two-Point Interpolation

Test Acceptability Criteria

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	1	0.8 - NL	Yes	Passes Acceptability Criteria

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
EC5	75	58.33	N/A	1.333	NA	1.714
EC10	100	66.67	N/A	1	NA	1.5
EC15	>100	N/A	N/A	<1	NA	NA
EC20	>100	N/A	N/A	<1	NA	NA
EC25	>100	N/A	N/A	<1	NA	NA
EC40	>100	N/A	N/A	<1	NA	NA
EC50	>100	N/A	N/A	<1	NA	NA

7d Survival Rate Summary

			Calculated Variate(A/B)								
C-%	**Control Type**	**Count**	**Mean**	**Min**	**Max**	**Std Err**	**Std Dev**	**CV%**	**%Effect**	**A**	**B**
0	Negative Control	10	1	1	1	0	0	0.0%	0.0%	10	10
6.25		10	1	1	1	0	0	0.0%	0.0%	10	10
12.5		10	1	1	1	0	0	0.0%	0.0%	10	10
25		10	1	1	1	0	0	0.0%	0.0%	10	10
50		10	1	1	1	0	0	0.0%	0.0%	10	10
100		10	0.9	0	1	0.1	0.3162	35.14%	10.0%	9	10

7d Survival Rate Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	1	1	1	1	1	1	1	1	1	1
6.25		1	1	1	1	1	1	1	1	1	1
12.5		1	1	1	1	1	1	1	1	1	1
25		1	1	1	1	1	1	1	1	1	1
50		1	1	1	1	1	1	1	1	1	1
100		0	1	1	1	1	1	1	1	1	1

7d Survival Rate Binomials

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Contro	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
6.25		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
12.5		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
25		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
50		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
100		0/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1

Analysis ID:	18-7316-6045	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:25	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Ceriodaphnia 7-d Survival and Reproduction Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	00-5401-1158	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:25	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Batch ID:	16-7391-8123	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	
Start Date:	20 Nov-12 16:03	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	27 Nov-12 15:00	**Species:**	Ceriodaphnia dubia	**Brine:**	Not Applicable
Duration:	6d 23h	**Source:**	Aquatic Biosystems, CO	**Age:**	

Sample ID:	19-4823-4085	**Code:**	VCF1112.262c	**Client:**	VCWPD
Sample Date:	17 Nov-12 12:45	**Material:**	Sample Water	**Project:**	2012/13-2 (Wet)
Receive Date:	17 Nov-12 14:20	**Source:**	Bioassay Report		
Sample Age:	75h	**Station:**	MO-THO		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	2015521	280	Yes	Two-Point Interpolation

Test Acceptability Criteria

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	18.1	15 - NL	Yes	Passes Acceptability Criteria

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
IC5	>100	N/A	N/A	<1	NA	NA
IC10	>100	N/A	N/A	<1	NA	NA
IC15	>100	N/A	N/A	<1	NA	NA
IC20	>100	N/A	N/A	<1	NA	NA
IC25	>100	N/A	N/A	<1	NA	NA
IC40	>100	N/A	N/A	<1	NA	NA
IC50	>100	N/A	N/A	<1	NA	NA

Reproduction Summary

			Calculated Variate						
C-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Negative Control	10	18.1	7	24	1.729	5.466	30.2%	0.0%
6.25		10	15.5	4	26	2.104	6.654	42.93%	14.36%
12.5		10	19.6	12	29	1.514	4.789	24.43%	-8.29%
25		10	16.4	10	21	0.9214	2.914	17.77%	9.39%
50		10	23.1	15	28	1.312	4.149	17.96%	-27.62%
100		10	20	3	25	2.011	6.36	31.8%	-10.5%

Reproduction Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	24	21	14	16	7	21	21	24	13	20
6.25		11	18	15	4	16	25	13	10	26	17
12.5		24	18	18	18	29	19	23	20	12	15
25		15	15	18	10	18	17	17	15	18	21
50		26	27	23	20	23	19	27	15	28	23
100		3	23	21	17	23	23	20	23	25	22

Analysis ID:	00-5401-1158	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:25	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

CETIS Analytical Report

Report Date: 04 Jan-13 11:57 (p 1 of 3)
Test Code: VCF1112.262cer | 18-5230-9188

Ceriodaphnia 7-d Survival and Reproduction Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	07-0253-1021	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:25	**Analysis:**	STP 2x2 Contingency Tables	**Official Results:**	Yes

Batch ID:	16-7391-8123	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	
Start Date:	20 Nov-12 16:03	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	27 Nov-12 15:00	**Species:**	Ceriodaphnia dubia	**Brine:**	Not Applicable
Duration:	6d 23h	**Source:**	Aquatic Biosystems, CO	**Age:**	

Sample ID:	19-4823-4085	**Code:**	VCF1112.262c	**Client:**	VCWPD
Sample Date:	17 Nov-12 12:45	**Material:**	Sample Water	**Project:**	2012/13-2 (Wet)
Receive Date:	17 Nov-12 14:20	**Source:**	Bioassay Report		
Sample Age:	75h	**Station:**	MO-THO		

Data Transform	Zeta	Alt Hyp	Trials	Seed	NOEL	LOEL	TOEL	TU
Untransformed		C > T	NA	NA	100	>100	NA	1

Fisher Exact/Bonferroni-Holm Test

Control	vs	C-%	Test Stat	P-Value	P-Type	Decision(α:5%)
Negative Control		6.25	1	1.0000	Exact	Non-Significant Effect
		12.5	1	1.0000	Exact	Non-Significant Effect
		25	1	1.0000	Exact	Non-Significant Effect
		50	1	1.0000	Exact	Non-Significant Effect
		100	0.5	1.0000	Exact	Non-Significant Effect

Test Acceptability Criteria

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	1	0.8 - NL	Yes	Passes Acceptability Criteria

Data Summary

C-%	Control Type	NR	R	NR + R	Prop NR	Prop R	%Effect
0	Negative Contr	10	0	10	1	0	0.0%
6.25		10	0	10	1	0	0.0%
12.5		10	0	10	1	0	0.0%
25		10	0	10	1	0	0.0%
50		10	0	10	1	0	0.0%
100		9	1	10	0.9	0.1	10.0%

7d Survival Rate Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	1	1	1	1	1	1	1	1	1	1
6.25		1	1	1	1	1	1	1	1	1	1
12.5		1	1	1	1	1	1	1	1	1	1
25		1	1	1	1	1	1	1	1	1	1
50		1	1	1	1	1	1	1	1	1	1
100		0	1	1	1	1	1	1	1	1	1

7d Survival Rate Binomials

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Contro	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
6.25		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
12.5		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
25		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
50		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
100		0/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1

Analysis ID:	07-0253-1021	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:25	**Analysis:**	STP 2x2 Contingency Tables	**Official Results:**	Yes

Analysis ID:	07-0253-1021	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:25	**Analysis:**	STP 2x2 Contingency Tables	**Official Results:**	Yes

CETIS Measurement Report

Ceriodaphnia 7-d Survival and Reproduction Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Batch ID:	16-7391-8123	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	
Start Date:	20 Nov-12 16:03	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	27 Nov-12 15:00	**Species:**	Ceriodaphnia dubia	**Brine:**	Not Applicable
Duration:	6d 23h	**Source:**	Aquatic Biosystems, CO	**Age:**	

Sample ID:	19-4823-4085	**Code:**	VCF1112.262c	**Client:**	VCWPD
Sample Date:	17 Nov-12 12:45	**Material:**	Sample Water	**Project:**	2012/13-2 (Wet)
Receive Date:	17 Nov-12 14:20	**Source:**	Bioassay Report		
Sample Age:	75h	**Station:**	MO-THO		

Alkalinity (CaCO3)-mg/L

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	60.63	60.19	61.06	60	61	0.183	0.5175	0.85%	0
100		8	135	135	135	135	135	0	0	0.0%	0
Overall		16	97.81			60	135				0 (0%)

Conductivity-µmhos

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	347.1	343.8	350.4	344	356	1.394	3.944	1.14%	0
6.25		8	526.5	493.1	559.9	429	545	14.14	39.98	7.59%	0
12.5		8	447	432.8	461.2	432	473	6.024	17.04	3.81%	0
25		8	531.3	521.3	541.2	517	548	4.199	11.88	2.24%	0
50		8	729	715.5	742.5	702	748	5.695	16.11	2.21%	0
100		8	1069	1063	1074	1059	1075	2.31	6.534	0.61%	0
Overall		48	608.3			344	1075				0 (0%)

Dissolved Oxygen-mg/L

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	8.075	7.819	8.331	7.8	8.5	0.1081	0.3059	3.79%	0
6.25		8	7.638	6.762	8.513	5.2	8.6	0.3703	1.047	13.71%	0
12.5		8	7.425	6.224	8.626	4	8.5	0.5077	1.436	19.34%	0
25		8	7.35	6.173	8.527	4	8.5	0.4979	1.408	19.16%	0
50		8	7.125	6.049	8.201	4	8.1	0.455	1.287	18.06%	0
100		8	6.85	5.752	7.948	4	7.7	0.4645	1.314	19.18%	0
Overall		48	7.41			4	8.6				0 (0%)

Hardness (CaCO3)-mg/L

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	93.13	91.83	94.42	92	95	0.5489	1.553	1.67%	0
100		8	340	340	340	340	340	0	0	0.0%	0
Overall		16	216.6			92	340				0 (0%)

pH-Units

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.913	7.883	7.942	7.9	8	0.01249	0.03533	0.45%	0
6.25		8	7.875	7.801	7.949	7.7	8	0.03134	0.08863	1.13%	0
12.5		8	7.8	7.723	7.877	7.6	7.9	0.03273	0.09258	1.19%	0
25		8	7.7	7.623	7.777	7.5	7.8	0.03273	0.09258	1.2%	0
50		8	7.688	7.618	7.757	7.5	7.8	0.02951	0.08345	1.09%	0
100		8	7.638	7.561	7.714	7.5	7.7	0.03239	0.09161	1.2%	0
Overall		48	7.769			7.5	8				0 (0%)

Ceriodaphnia 7-d Survival and Reproduction Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Temperature-°C

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	24.04	23.95	24.13	24	24.3	0.03751	0.1061	0.44%	0
6.25		8	24.1	23.96	24.24	24	24.5	0.05975	0.169	0.7%	0
12.5		8	24.04	23.99	24.08	24	24.1	0.01827	0.05167	0.22%	0
25		8	24.06	24	24.12	24	24.2	0.02628	0.07432	0.31%	0
50		8	24.05	24.01	24.09	24	24.1	0.01886	0.05334	0.22%	0
100		8	24.05	24.01	24.09	24	24.1	0.01886	0.05334	0.22%	0
Overall		48	24.06			24	24.5				0 (0%)

Alkalinity (CaCO3)-mg/L

C-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	61	61	61	61	61	60	60	60
100		135	135	135	135	135	135	135	135

Conductivity-µmhos

C-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	344	344	348	345	347	348	345	356
6.25		524	543	542	545	542	545	542	429
12.5		438	432	460	468	473	437	435	433
25		517	522	521	535	542	548	542	523
50		702	713	728	735	748	735	748	723
100		1059	1068	1070	1075	1073	1072	1059	1075

Dissolved Oxygen-mg/L

C-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	8.4	8.5	8	7.8	7.8	7.9	7.8	8.4
6.25		8.6	8.4	8.1	7.7	7.7	7.7	7.7	5.2
12.5		8.5	8.4	8.1	7.7	7.6	7.5	7.6	4
25		8.5	8.3	7.9	7.6	7.5	7.5	7.5	4
50		8.1	7.6	7.7	7.5	7.4	7.4	7.3	4
100		7.7	5.8	7	7.5	7.6	7.6	7.6	4

Hardness (CaCO3)-mg/L

C-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	92	92	92	92	92	95	95	95
100		340	340	340	340	340	340	340	340

pH-Units

C-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	8	7.9	7.9	7.9	7.9	7.9	7.9	7.9
6.25		8	7.9	7.9	7.9	7.8	7.9	7.9	7.7
12.5		7.9	7.9	7.8	7.8	7.8	7.8	7.8	7.6
25		7.8	7.8	7.7	7.7	7.7	7.7	7.7	7.5
50		7.8	7.7	7.7	7.7	7.7	7.7	7.7	7.5
100		7.7	7.5	7.6	7.7	7.7	7.7	7.7	7.5

Temperature-°C

C-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	24	24.3	24	24	24	24	24	24
6.25		24.1	24.5	24.1	24	24	24	24.1	24
12.5		24.1	24	24.1	24	24	24.1	24	24
25		24.1	24	24.2	24	24.1	24.1	24	24
50		24.1	24	24.1	24	24.1	24.1	24	24
100		24.1	24	24.1	24	24.1	24.1	24	24

aquatic bioassay & consulting laboratories, inc

January 4th, 2013

Mr. Arne Anselm
Ventura County Watershed Protection District
800 South Victoria Ave
Ventura, CA 93009

Dear Mr. Anselm:

We are pleased to present the enclosed revised bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms" EPA-821-R-02-013.* Results were as follows:

CLIENT:	Ventura County Flood Control
SAMPLE I.D.:	MO-SIM
DATE RECEIVED:	11/17/2012
ABC LAB. NO.:	VCF1112.264

CHRONIC CERIODAPHNIA SURVIVAL & REPRODUCTION BIOASSAY

SURVIVAL	NOEC =	100.00 %
	TUc =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00 %
REPRODUCTION	NOEC =	100.00 %
	TUc =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00 %

Yours very truly,

Scott Johnson
Laboratory Director

29 north olive ventura, ca 93001 (805) 643 5621 www.aquabio.org

CETIS Summary Report

Ceriodaphnia 7-d Survival and Reproduction Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Batch ID:	06-3392-6940	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	
Start Date:	20 Nov-12 16:04	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	27 Nov-12 15:00	**Species:**	Ceriodaphnia dubia	**Brine:**	Not Applicable
Duration:	6d 23h	**Source:**	Aquatic Biosystems, CO	**Age:**	

Sample ID:	09-2958-1100	**Code:**	VCF1112.264c	**Client:**	VCWPD
Sample Date:	17 Nov-12 11:45	**Material:**	Sample Water	**Project:**	2012/13-2 (Wet)
Receive Date:	17 Nov-12 14:20	**Source:**	Bioassay Report		
Sample Age:	76h	**Station:**	MO-SIM		

Comparison Summary

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
05-0324-0393	7d Survival Rate	100	>100	NA	NA	1	Fisher Exact/Bonferroni-Holm Test
12-8021-8792	Reproduction	100	>100	NA	18.5%	1	Dunnett Multiple Comparison Test

Point Estimate Summary

Analysis ID	Endpoint	Level	%	95% LCL	95% UCL	TU	Method
09-2287-9602	7d Survival Rate	EC5	>100	N/A	N/A	<1	Linear Interpolation (ICPIN)
		EC10	>100	N/A	N/A	<1	
		EC15	>100	N/A	N/A	<1	
		EC20	>100	N/A	N/A	<1	
		EC25	>100	N/A	N/A	<1	
		EC40	>100	N/A	N/A	<1	
		EC50	>100	N/A	N/A	<1	
20-7311-1023	Reproduction	IC5	>100	N/A	N/A	<1	Linear Interpolation (ICPIN)
		IC10	>100	N/A	N/A	<1	
		IC15	>100	N/A	N/A	<1	
		IC20	>100	N/A	N/A	<1	
		IC25	>100	N/A	N/A	<1	
		IC40	>100	N/A	N/A	<1	
		IC50	>100	N/A	N/A	<1	

Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits	Overlap	Decision
05-0324-0393	7d Survival Rate	Control Resp	1	0.8 - NL	Yes	Passes Acceptability Criteria
09-2287-9602	7d Survival Rate	Control Resp	1	0.8 - NL	Yes	Passes Acceptability Criteria
12-8021-8792	Reproduction	Control Resp	18.4	15 - NL	Yes	Passes Acceptability Criteria
20-7311-1023	Reproduction	Control Resp	18.4	15 - NL	Yes	Passes Acceptability Criteria
12-8021-8792	Reproduction	PMSD	0.1852	0.13 - 0.47	Yes	Passes Acceptability Criteria

7d Survival Rate Summary

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Negative Contro	10	1	1	1	1	1	0	0	0.0%	0.0%
6.25		10	1	1	1	1	1	0	0	0.0%	0.0%
12.5		10	1	1	1	1	1	0	0	0.0%	0.0%
25		10	1	1	1	1	1	0	0	0.0%	0.0%
50		10	1	1	1	1	1	0	0	0.0%	0.0%
100		10	1	1	1	1	1	0	0	0.0%	0.0%

Reproduction Summary

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Negative Contro	10	18.4	15.51	21.29	12	25	1.275	4.033	21.92%	0.0%
6.25		10	21.8	19.49	24.11	17	27	1.02	3.225	14.79%	-18.48%
12.5		10	21.9	19.13	24.67	15	26	1.224	3.872	17.68%	-19.02%
25		10	14	11.84	16.16	6	17	0.9545	3.018	21.56%	23.91%
50		10	24.4	21.74	27.06	17	29	1.176	3.718	15.24%	-32.61%
100		10	21.1	20.12	22.08	19	24	0.4333	1.37	6.49%	-14.67%

Ceriodaphnia 7-d Survival and Reproduction Test — **Aquatic Bioassay & Consulting Labs, Inc.**

7d Survival Rate Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Contro	1	1	1	1	1	1	1	1	1	1
6.25		1	1	1	1	1	1	1	1	1	1
12.5		1	1	1	1	1	1	1	1	1	1
25		1	1	1	1	1	1	1	1	1	1
50		1	1	1	1	1	1	1	1	1	1
100		1	1	1	1	1	1	1	1	1	1

Reproduction Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Contro	23	22	25	18	19	18	16	12	17	14
6.25		24	27	22	25	23	22	17	21	20	17
12.5		26	26	22	16	23	24	22	15	25	20
25		16	15	14	6	17	14	15	15	13	15
50		29	29	22	23	23	26	28	24	23	17
100		19	22	24	20	21	22	21	20	21	21

7d Survival Rate Binomials

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Contro	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
6.25		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
12.5		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
25		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
50		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
100		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1

CETIS Analytical Report

Report Date: 04 Jan-13 11:57 (p 1 of 2)
Test Code: VCF1112.264cer | 08-5365-7490

Ceriodaphnia 7-d Survival and Reproduction Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	12-8021-8792	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:26	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Batch ID:	06-3392-6940	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	
Start Date:	20 Nov-12 16:04	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	27 Nov-12 15:00	**Species:**	Ceriodaphnia dubia	**Brine:**	Not Applicable
Duration:	6d 23h	**Source:**	Aquatic Biosystems, CO	**Age:**	

Sample ID:	09-2958-1100	**Code:**	VCF1112.264c	**Client:**	VCWPD
Sample Date:	17 Nov-12 11:45	**Material:**	Sample Water	**Project:**	2012/13-2 (Wet)
Receive Date:	17 Nov-12 14:20	**Source:**	Bioassay Report		
Sample Age:	76h	**Station:**	MO-SIM		

Data Transform	Zeta	Alt Hyp	Trials	Seed	PMSD	NOEL	LOEL	TOEL	TU
Untransformed	NA	C > T	NA	NA	18.5%	100	>100	NA	1

Dunnett Multiple Comparison Test

Control vs	C-%	Test Stat	Critical	MSD	DF	P-Value	P-Type	Decision(α:5%)
Negative Control	6.25	-2.284	2.289	3.407	18	0.9998	CDF	Non-Significant Effect
	12.5	-2.351	2.289	3.407	18	0.9999	CDF	Non-Significant Effect
	25*	2.956	2.289	3.407	18	0.0099	CDF	Significant Effect
	50	-4.031	2.289	3.407	18	1.0000	CDF	Non-Significant Effect
	100	-1.814	2.289	3.407	18	0.9990	CDF	Non-Significant Effect

Test Acceptability Criteria

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	18.4	15 - NL	Yes	Passes Acceptability Criteria
PMSD	0.1852	0.13 - 0.47	Yes	Passes Acceptability Criteria

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	655.5333	131.1067	5	11.84	<0.0001	Significant Effect
Error	598.2	11.07778	54			
Total	1253.733		59			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Bartlett Equality of Variance	9.71	15.09	0.0839	Equal Variances
Variances	Mod Levene Equality of Variance	1.379	3.377	0.2466	Equal Variances
Variances	Levene Equality of Variance	1.603	3.377	0.1751	Equal Variances
Distribution	Shapiro-Wilk W Normality	0.9609	0.9459	0.0520	Normal Distribution
Distribution	Kolmogorov-Smirnov D	0.1134	0.1331	0.0529	Normal Distribution
Distribution	D'Agostino Skewness	1.724	2.576	0.0847	Normal Distribution
Distribution	D'Agostino Kurtosis	0.7307	2.576	0.4650	Normal Distribution
Distribution	D'Agostino-Pearson K2 Omnibus	3.507	9.21	0.1732	Normal Distribution
Distribution	Anderson-Darling A2 Normality	0.8793	3.878	0.0243	Normal Distribution

Reproduction Summary

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	Negative Control	10	18.4	15.51	21.29	18	12	25	1.275	21.92%	0.0%
6.25		10	21.8	19.49	24.11	22	17	27	1.02	14.79%	-18.48%
12.5		10	21.9	19.13	24.67	22.5	15	26	1.224	17.68%	-19.02%
25		10	14	11.84	16.16	15	6	17	0.9545	21.56%	23.91%
50		10	24.4	21.74	27.06	23.5	17	29	1.176	15.24%	-32.61%
100		10	21.1	20.12	22.08	21	19	24	0.4333	6.49%	-14.67%

Ceriodaphnia 7-d Survival and Reproduction Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	12-8021-8792	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:26	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Reproduction Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	23	22	25	18	19	18	16	12	17	14
6.25		24	27	22	25	23	22	17	21	20	17
12.5		26	26	22	16	23	24	22	15	25	20
25		16	15	14	6	17	14	15	15	13	15
50		29	29	22	23	23	26	28	24	23	17
100		19	22	24	20	21	22	21	20	21	21

CETIS Analytical Report

Ceriodaphnia 7-d Survival and Reproduction Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	09-2287-9602	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:26	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Batch ID:	06-3392-6940	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	
Start Date:	20 Nov-12 16:04	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	27 Nov-12 15:00	**Species:**	Ceriodaphnia dubia	**Brine:**	Not Applicable
Duration:	6d 23h	**Source:**	Aquatic Biosystems, CO	**Age:**	

Sample ID:	09-2958-1100	**Code:**	VCF1112.264c	**Client:**	VCWPD
Sample Date:	17 Nov-12 11:45	**Material:**	Sample Water	**Project:**	2012/13-2 (Wet)
Receive Date:	17 Nov-12 14:20	**Source:**	Bioassay Report		
Sample Age:	76h	**Station:**	MO-SIM		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	0	280	Yes	Two-Point Interpolation

Test Acceptability Criteria

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	1	0.8 - NL	Yes	Passes Acceptability Criteria

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
EC5	>100	N/A	N/A	<1	NA	NA
EC10	>100	N/A	N/A	<1	NA	NA
EC15	>100	N/A	N/A	<1	NA	NA
EC20	>100	N/A	N/A	<1	NA	NA
EC25	>100	N/A	N/A	<1	NA	NA
EC40	>100	N/A	N/A	<1	NA	NA
EC50	>100	N/A	N/A	<1	NA	NA

7d Survival Rate Summary

			Calculated Variate(A/B)								
C-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	%Effect	A	B
0	Negative Control	10	1	1	1	0	0	0.0%	0.0%	10	10
6.25		10	1	1	1	0	0	0.0%	0.0%	10	10
12.5		10	1	1	1	0	0	0.0%	0.0%	10	10
25		10	1	1	1	0	0	0.0%	0.0%	10	10
50		10	1	1	1	0	0	0.0%	0.0%	10	10
100		10	1	1	1	0	0	0.0%	0.0%	10	10

7d Survival Rate Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	1	1	1	1	1	1	1	1	1	1
6.25		1	1	1	1	1	1	1	1	1	1
12.5		1	1	1	1	1	1	1	1	1	1
25		1	1	1	1	1	1	1	1	1	1
50		1	1	1	1	1	1	1	1	1	1
100		1	1	1	1	1	1	1	1	1	1

7d Survival Rate Binomials

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Contro	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
6.25		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
12.5		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
25		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
50		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
100		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1

Analysis ID:	09-2287-9602	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:26	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Ceriodaphnia 7-d Survival and Reproduction Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	20-7311-1023	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:26	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Batch ID:	06-3392-6940	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	
Start Date:	20 Nov-12 16:04	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	27 Nov-12 15:00	**Species:**	Ceriodaphnia dubia	**Brine:**	Not Applicable
Duration:	6d 23h	**Source:**	Aquatic Biosystems, CO	**Age:**	

Sample ID:	09-2958-1100	**Code:**	VCF1112.264c	**Client:**	VCWPD
Sample Date:	17 Nov-12 11:45	**Material:**	Sample Water	**Project:**	2012/13-2 (Wet)
Receive Date:	17 Nov-12 14:20	**Source:**	Bioassay Report		
Sample Age:	76h	**Station:**	MO-SIM		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	1685176	280	Yes	Two-Point Interpolation

Test Acceptability Criteria

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	18.4	15 - NL	Yes	Passes Acceptability Criteria

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
IC5	>100	N/A	N/A	<1	NA	NA
IC10	>100	N/A	N/A	<1	NA	NA
IC15	>100	N/A	N/A	<1	NA	NA
IC20	>100	N/A	N/A	<1	NA	NA
IC25	>100	N/A	N/A	<1	NA	NA
IC40	>100	N/A	N/A	<1	NA	NA
IC50	>100	N/A	N/A	<1	NA	NA

Reproduction Summary

			Calculated Variate						
C-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Negative Control	10	18.4	12	25	1.275	4.033	21.92%	0.0%
6.25		10	21.8	17	27	1.02	3.225	14.79%	-18.48%
12.5		10	21.9	15	26	1.224	3.872	17.68%	-19.02%
25		10	14	6	17	0.9545	3.018	21.56%	23.91%
50		10	24.4	17	29	1.176	3.718	15.24%	-32.61%
100		10	21.1	19	24	0.4333	1.37	6.49%	-14.67%

Reproduction Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	23	22	25	18	19	18	16	12	17	14
6.25		24	27	22	25	23	22	17	21	20	17
12.5		26	26	22	16	23	24	22	15	25	20
25		16	15	14	6	17	14	15	15	13	15
50		29	29	22	23	23	26	28	24	23	17
100		19	22	24	20	21	22	21	20	21	21

Analysis ID:	20-7311-1023	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:26	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

CETIS Analytical Report

Ceriodaphnia 7-d Survival and Reproduction Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	05-0324-0393	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:26	**Analysis:**	STP 2x2 Contingency Tables	**Official Results:**	Yes

Batch ID:	06-3392-6940	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	
Start Date:	20 Nov-12 16:04	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	27 Nov-12 15:00	**Species:**	Ceriodaphnia dubia	**Brine:**	Not Applicable
Duration:	6d 23h	**Source:**	Aquatic Biosystems, CO	**Age:**	

Sample ID:	09-2958-1100	**Code:**	VCF1112.264c	**Client:**	VCWPD
Sample Date:	17 Nov-12 11:45	**Material:**	Sample Water	**Project:**	2012/13-2 (Wet)
Receive Date:	17 Nov-12 14:20	**Source:**	Bioassay Report		
Sample Age:	76h	**Station:**	MO-SIM		

Data Transform	Zeta	Alt Hyp	Trials	Seed	NOEL	LOEL	TOEL	TU
Untransformed		C > T	NA	NA	100	>100	NA	1

Fisher Exact/Bonferroni-Holm Test

Control	vs	C-%	Test Stat	P-Value	P-Type	Decision(α:5%)
Negative Control		6.25	1	1.0000	Exact	Non-Significant Effect
		12.5	1	1.0000	Exact	Non-Significant Effect
		25	1	1.0000	Exact	Non-Significant Effect
		50	1	1.0000	Exact	Non-Significant Effect
		100	1	1.0000	Exact	Non-Significant Effect

Test Acceptability Criteria

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	1	0.8 - NL	Yes	Passes Acceptability Criteria

Data Summary

C-%	Control Type	NR	R	NR + R	Prop NR	Prop R	%Effect
0	Negative Contr	10	0	10	1	0	0.0%
6.25		10	0	10	1	0	0.0%
12.5		10	0	10	1	0	0.0%
25		10	0	10	1	0	0.0%
50		10	0	10	1	0	0.0%
100		10	0	10	1	0	0.0%

7d Survival Rate Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	1	1	1	1	1	1	1	1	1	1
6.25		1	1	1	1	1	1	1	1	1	1
12.5		1	1	1	1	1	1	1	1	1	1
25		1	1	1	1	1	1	1	1	1	1
50		1	1	1	1	1	1	1	1	1	1
100		1	1	1	1	1	1	1	1	1	1

7d Survival Rate Binomials

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Contro	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
6.25		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
12.5		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
25		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
50		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
100		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1

Analysis ID:	05-0324-0393	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:26	**Analysis:**	STP 2x2 Contingency Tables	**Official Results:**	Yes

Analysis ID:	05-0324-0393	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:26	**Analysis:**	STP 2x2 Contingency Tables	**Official Results:**	Yes

CETIS Measurement Report

Ceriodaphnia 7-d Survival and Reproduction Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Batch ID:	06-3392-6940	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	
Start Date:	20 Nov-12 16:04	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	27 Nov-12 15:00	**Species:**	Ceriodaphnia dubia	**Brine:**	Not Applicable
Duration:	6d 23h	**Source:**	Aquatic Biosystems, CO	**Age:**	

Sample ID:	09-2958-1100	**Code:**	VCF1112.264c	**Client:**	VCWPD
Sample Date:	17 Nov-12 11:45	**Material:**	Sample Water	**Project:**	2012/13-2 (Wet)
Receive Date:	17 Nov-12 14:20	**Source:**	Bioassay Report		
Sample Age:	76h	**Station:**	MO-SIM		

Alkalinity (CaCO3)-mg/L

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	60.63	60.19	61.06	60	61	0.183	0.5175	0.85%	0
100		8	55	55	55	55	55	0	0	0.0%	0
Overall		16	57.81			55	61				0 (0%)

Conductivity-µmhos

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	347.1	343.8	350.4	344	356	1.394	3.944	1.14%	0
6.25		8	354.9	353.2	356.6	352	358	0.7181	2.031	0.57%	0
12.5		8	347.9	346.2	349.5	345	350	0.6928	1.959	0.56%	0
25		8	352.9	350	355.8	350	357	1.231	3.482	0.99%	0
50		8	369.6	361.3	378	358	383	3.54	10.01	2.71%	0
100		8	425.3	419.5	431	417	440	2.44	6.902	1.62%	0
Overall		48	366.3			344	440				0 (0%)

Dissolved Oxygen-mg/L

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	8.075	7.819	8.331	7.8	8.5	0.1081	0.3059	3.79%	0
6.25		8	7.55	6.653	8.447	5.2	8.6	0.3794	1.073	14.21%	0
12.5		8	7.338	6.362	8.313	4.8	8.6	0.4127	1.167	15.91%	0
25		8	7.075	5.96	8.19	4	8.3	0.4716	1.334	18.85%	0
50		8	6.963	5.914	8.011	4	8.2	0.4436	1.255	18.02%	0
100		8	6.775	5.753	7.797	4	8.1	0.4321	1.222	18.04%	0
Overall		48	7.296			4	8.6				0 (0%)

Hardness (CaCO3)-mg/L

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	93.13	91.83	94.42	92	95	0.5489	1.553	1.67%	0
100		8	142	142	142	142	142	0	0	0.0%	0
Overall		16	117.6			92	142				0 (0%)

pH-Units

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.913	7.883	7.942	7.9	8	0.01249	0.03533	0.45%	0
6.25		8	7.813	7.699	7.926	7.5	7.9	0.04795	0.1356	1.74%	0
12.5		8	7.75	7.661	7.839	7.5	7.8	0.0378	0.1069	1.38%	0
25		8	7.613	7.518	7.707	7.4	7.7	0.03981	0.1126	1.48%	0
50		8	7.488	7.393	7.582	7.3	7.6	0.03981	0.1126	1.5%	0
100		8	7.338	7.212	7.463	7.1	7.5	0.05324	0.1506	2.05%	0
Overall		48	7.652			7.1	8				0 (0%)

Ceriodaphnia 7-d Survival and Reproduction Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Temperature-°C

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	24.04	23.95	24.13	24	24.3	0.03751	0.1061	0.44%	0
6.25		8	24.01	23.98	24.04	24	24.1	0.01249	0.03531	0.15%	0
12.5		8	24.01	23.98	24.04	24	24.1	0.01249	0.03531	0.15%	0
25		8	24.03	23.99	24.06	24	24.1	0.01634	0.04623	0.19%	0
50		8	24.04	23.98	24.1	24	24.2	0.02629	0.07436	0.31%	0
100		8	24.05	23.99	24.11	24	24.2	0.0267	0.07553	0.31%	0
Overall		48	24.03			24	24.3				0 (0%)

Alkalinity (CaCO3)-mg/L

C-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	61	61	61	61	61	60	60	60
100		55	55	55	55	55	55	55	55

Conductivity-µmhos

C-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	344	344	348	345	347	348	345	356
6.25		356	356	355	358	353	352	353	356
12.5		348	347	345	347	350	350	350	346
25		357	357	350	352	350	350	350	357
50		380	380	369	365	362	360	358	383
100		426	424	425	422	428	420	417	440

Dissolved Oxygen-mg/L

C-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	8.4	8.5	8	7.8	7.8	7.9	7.8	8.4
6.25		8.6	8.6	7.1	7.8	7.7	7.7	7.7	5.2
12.5		8.5	8.6	7.1	7.5	7.3	7.3	7.6	4.8
25		8.3	8.2	7.1	7.3	7.1	7.1	7.5	4
50		8.2	7.6	7.1	7.2	7.1	7.1	7.4	4
100		8.1	6.3	7.1	7.2	7.1	7.1	7.3	4

Hardness (CaCO3)-mg/L

C-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	92	92	92	92	92	95	95	95
100		142	142	142	142	142	142	142	142

pH-Units

C-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	8	7.9	7.9	7.9	7.9	7.9	7.9	7.9
6.25		7.9	7.8	7.8	7.9	7.9	7.9	7.8	7.5
12.5		7.8	7.8	7.8	7.8	7.8	7.8	7.7	7.5
25		7.7	7.7	7.7	7.7	7.5	7.6	7.6	7.4
50		7.6	7.4	7.6	7.6	7.4	7.5	7.5	7.3
100		7.4	7.1	7.5	7.5	7.2	7.4	7.4	7.2

Temperature-°C

C-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	24	24.3	24	24	24	24	24	24
6.25		24.1	24	24	24	24	24	24	24
12.5		24.1	24	24	24	24	24	24	24
25		24.1	24	24.1	24	24	24	24	24
50		24.2	24	24.1	24	24	24	24	24
100		24.2	24	24.1	24	24.1	24	24	24

aquatic bioassay & consulting laboratories, inc

January 4th, 2013

Mr. Arne Anselm
Ventura County Watershed Protection District
800 South Victoria Ave
Ventura, CA 93009

Dear Mr. Anselm:

We are pleased to present the enclosed revised bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms" EPA-821-R-02-013.* Results were as follows:

CLIENT:	Ventura County Flood Control
SAMPLE I.D.:	MO-FIL
DATE RECEIVED:	11/17/2012
ABC LAB. NO.:	VCF1112.265

CHRONIC CERIODAPHNIA SURVIVAL & REPRODUCTION BIOASSAY

SURVIVAL	NOEC =	100.00 %
	TUc =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00 %
REPRODUCTION	NOEC =	100.00 %
	TUc =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00 %

Yours very truly,

Scott Johnson
Laboratory Director

29 north olive ventura, ca 93001 (805) 643 5621 www.aquabio.org

CETIS Summary Report

Ceriodaphnia 7-d Survival and Reproduction Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Batch ID:	08-2118-9485	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	
Start Date:	20 Nov-12 16:05	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	27 Nov-12 15:00	**Species:**	Ceriodaphnia dubia	**Brine:**	Not Applicable
Duration:	6d 23h	**Source:**	Aquatic Biosystems, CO	**Age:**	

Sample ID:	06-1435-1055	**Code:**	VCF1112.265c	**Client:**	VCWPD
Sample Date:	17 Nov-12 09:30	**Material:**	Sample Water	**Project:**	2012/13-2 (Wet)
Receive Date:	17 Nov-12 14:20	**Source:**	Bioassay Report		
Sample Age:	79h	**Station:**	MO-FIL		

Comparison Summary

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
01-4940-5937	7d Survival Rate	100	>100	NA	NA	1	Fisher Exact/Bonferroni-Holm Test
13-9630-3189	Reproduction	100	>100	NA	25.5%	1	Dunnett Multiple Comparison Test

Point Estimate Summary

Analysis ID	Endpoint	Level	%	95% LCL	95% UCL	TU	Method
04-4008-1430	7d Survival Rate	EC5	>100	N/A	N/A	<1	Linear Interpolation (ICPIN)
		EC10	>100	N/A	N/A	<1	
		EC15	>100	N/A	N/A	<1	
		EC20	>100	N/A	N/A	<1	
		EC25	>100	N/A	N/A	<1	
		EC40	>100	N/A	N/A	<1	
		EC50	>100	N/A	N/A	<1	
18-5396-8567	Reproduction	IC5	>100	N/A	N/A	<1	Linear Interpolation (ICPIN)
		IC10	>100	N/A	N/A	<1	
		IC15	>100	N/A	N/A	<1	
		IC20	>100	N/A	N/A	<1	
		IC25	>100	N/A	N/A	<1	
		IC40	>100	N/A	N/A	<1	
		IC50	>100	N/A	N/A	<1	

Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits	Overlap	Decision
01-4940-5937	7d Survival Rate	Control Resp	1	0.8 - NL	Yes	Passes Acceptability Criteria
04-4008-1430	7d Survival Rate	Control Resp	1	0.8 - NL	Yes	Passes Acceptability Criteria
13-9630-3189	Reproduction	Control Resp	17.5	15 - NL	Yes	Passes Acceptability Criteria
18-5396-8567	Reproduction	Control Resp	17.5	15 - NL	Yes	Passes Acceptability Criteria
13-9630-3189	Reproduction	PMSD	0.2555	0.13 - 0.47	Yes	Passes Acceptability Criteria

7d Survival Rate Summary

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Negative Contro	10	1	1	1	1	1	0	0	0.0%	0.0%
6.25		10	1	1	1	1	1	0	0	0.0%	0.0%
12.5		10	1	1	1	1	1	0	0	0.0%	0.0%
25		10	1	1	1	1	1	0	0	0.0%	0.0%
50		10	1	1	1	1	1	0	0	0.0%	0.0%
100		10	1	1	1	1	1	0	0	0.0%	0.0%

Reproduction Summary

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Negative Contro	10	17.5	15.47	19.53	13	21	0.8975	2.838	16.22%	0.0%
6.25		10	19.1	15.65	22.55	11	25	1.524	4.818	25.22%	-9.14%
12.5		10	21	19.45	22.55	18	24	0.6831	2.16	10.29%	-20.0%
25		10	22	18.59	25.41	14	28	1.506	4.761	21.64%	-25.71%
50		10	19.7	16.88	22.52	16	27	1.248	3.945	20.03%	-12.57%
100		10	22.5	17.96	27.04	9	31	2.007	6.346	28.21%	-28.57%

Ceriodaphnia 7-d Survival and Reproduction Test — **Aquatic Bioassay & Consulting Labs, Inc.**

7d Survival Rate Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Contro	1	1	1	1	1	1	1	1	1	1
6.25		1	1	1	1	1	1	1	1	1	1
12.5		1	1	1	1	1	1	1	1	1	1
25		1	1	1	1	1	1	1	1	1	1
50		1	1	1	1	1	1	1	1	1	1
100		1	1	1	1	1	1	1	1	1	1

Reproduction Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Contro	15	13	20	21	19	15	21	16	16	19
6.25		18	15	24	15	23	20	16	11	25	24
12.5		22	22	19	19	24	22	19	21	18	24
25		21	18	14	16	25	23	26	27	28	22
50		18	16	27	24	24	16	18	16	18	20
100		27	15	9	21	25	27	24	23	31	23

7d Survival Rate Binomials

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Contro	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
6.25		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
12.5		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
25		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
50		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
100		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1

CETIS Analytical Report

Report Date: 04 Jan-13 11:58 (p 1 of 2)
Test Code: VCF1112.265cer | 08-6696-4345

Ceriodaphnia 7-d Survival and Reproduction Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	13-9630-3189	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:26	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Batch ID:	08-2118-9485	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	
Start Date:	20 Nov-12 16:05	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	27 Nov-12 15:00	**Species:**	Ceriodaphnia dubia	**Brine:**	Not Applicable
Duration:	6d 23h	**Source:**	Aquatic Biosystems, CO	**Age:**	

Sample ID:	06-1435-1055	**Code:**	VCF1112.265c	**Client:**	VCWPD
Sample Date:	17 Nov-12 09:30	**Material:**	Sample Water	**Project:**	2012/13-2 (Wet)
Receive Date:	17 Nov-12 14:20	**Source:**	Bioassay Report		
Sample Age:	79h	**Station:**	MO-FIL		

Data Transform	Zeta	Alt Hyp	Trials	Seed	PMSD	NOEL	LOEL	TOEL	TU
Untransformed	NA	C > T	NA	NA	25.5%	100	>100	NA	1

Dunnett Multiple Comparison Test

Control vs	C-%	Test Stat	Critical	MSD	DF	P-Value	P-Type	Decision(α:5%)
Negative Control	6.25	-0.8192	2.289	4.471	18	0.9738	CDF	Non-Significant Effect
	12.5	-1.792	2.289	4.471	18	0.9989	CDF	Non-Significant Effect
	25	-2.304	2.289	4.471	18	0.9999	CDF	Non-Significant Effect
	50	-1.126	2.289	4.471	18	0.9893	CDF	Non-Significant Effect
	100	-2.56	2.289	4.471	18	0.9999	CDF	Non-Significant Effect

Test Acceptability Criteria

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	17.5	15 - NL	Yes	Passes Acceptability Criteria
PMSD	0.2555	0.13 - 0.47	Yes	Passes Acceptability Criteria

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	178.6	35.72	5	1.873	0.1144	Non-Significant Effect
Error	1030	19.07407	54			
Total	1208.6		59			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Bartlett Equality of Variance	11.7	15.09	0.0391	Equal Variances
Variances	Mod Levene Equality of Variance	1.335	3.377	0.2637	Equal Variances
Variances	Levene Equality of Variance	1.789	3.377	0.1306	Equal Variances
Distribution	Shapiro-Wilk W Normality	0.9746	0.9459	0.2432	Normal Distribution
Distribution	Kolmogorov-Smirnov D	0.06362	0.1331	0.7865	Normal Distribution
Distribution	D'Agostino Skewness	1.762	2.576	0.0781	Normal Distribution
Distribution	D'Agostino Kurtosis	1.235	2.576	0.2167	Normal Distribution
Distribution	D'Agostino-Pearson K2 Omnibus	4.63	9.21	0.0988	Normal Distribution
Distribution	Anderson-Darling A2 Normality	0.392	3.878	0.3831	Normal Distribution

Reproduction Summary

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	Negative Control	10	17.5	15.47	19.53	17.5	13	21	0.8975	16.22%	0.0%
6.25		10	19.1	15.65	22.55	19	11	25	1.524	25.22%	-9.14%
12.5		10	21	19.45	22.55	21.5	18	24	0.6831	10.29%	-20.0%
25		10	22	18.59	25.41	22.5	14	28	1.506	21.64%	-25.71%
50		10	19.7	16.88	22.52	18	16	27	1.248	20.03%	-12.57%
100		10	22.5	17.96	27.04	23.5	9	31	2.007	28.21%	-28.57%

Ceriodaphnia 7-d Survival and Reproduction Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	13-9630-3189	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:26	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Reproduction Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	15	13	20	21	19	15	21	16	16	19
6.25		18	15	24	15	23	20	16	11	25	24
12.5		22	22	19	19	24	22	19	21	18	24
25		21	18	14	16	25	23	26	27	28	22
50		18	16	27	24	24	16	18	16	18	20
100		27	15	9	21	25	27	24	23	31	23

CETIS Analytical Report

Report Date: 04 Jan-13 11:58 (p 1 of 4)
Test Code: VCF1112.265cer | 08-6696-4345

Ceriodaphnia 7-d Survival and Reproduction Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	04-4008-1430	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:27	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Batch ID:	08-2118-9485	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	
Start Date:	20 Nov-12 16:05	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	27 Nov-12 15:00	**Species:**	Ceriodaphnia dubia	**Brine:**	Not Applicable
Duration:	6d 23h	**Source:**	Aquatic Biosystems, CO	**Age:**	

Sample ID:	06-1435-1055	**Code:**	VCF1112.265c	**Client:**	VCWPD
Sample Date:	17 Nov-12 09:30	**Material:**	Sample Water	**Project:**	2012/13-2 (Wet)
Receive Date:	17 Nov-12 14:20	**Source:**	Bioassay Report		
Sample Age:	79h	**Station:**	MO-FIL		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	0	280	Yes	Two-Point Interpolation

Test Acceptability Criteria

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	1	0.8 - NL	Yes	Passes Acceptability Criteria

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
EC5	>100	N/A	N/A	<1	NA	NA
EC10	>100	N/A	N/A	<1	NA	NA
EC15	>100	N/A	N/A	<1	NA	NA
EC20	>100	N/A	N/A	<1	NA	NA
EC25	>100	N/A	N/A	<1	NA	NA
EC40	>100	N/A	N/A	<1	NA	NA
EC50	>100	N/A	N/A	<1	NA	NA

7d Survival Rate Summary

			Calculated Variate(A/B)								
C-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	%Effect	A	B
0	Negative Control	10	1	1	1	0	0	0.0%	0.0%	10	10
6.25		10	1	1	1	0	0	0.0%	0.0%	10	10
12.5		10	1	1	1	0	0	0.0%	0.0%	10	10
25		10	1	1	1	0	0	0.0%	0.0%	10	10
50		10	1	1	1	0	0	0.0%	0.0%	10	10
100		10	1	1	1	0	0	0.0%	0.0%	10	10

7d Survival Rate Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	1	1	1	1	1	1	1	1	1	1
6.25		1	1	1	1	1	1	1	1	1	1
12.5		1	1	1	1	1	1	1	1	1	1
25		1	1	1	1	1	1	1	1	1	1
50		1	1	1	1	1	1	1	1	1	1
100		1	1	1	1	1	1	1	1	1	1

7d Survival Rate Binomials

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Contro	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
6.25		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
12.5		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
25		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
50		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
100		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1

Analysis ID:	04-4008-1430	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:27	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Ceriodaphnia 7-d Survival and Reproduction Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	18-5396-8567	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:26	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Batch ID:	08-2118-9485	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	
Start Date:	20 Nov-12 16:05	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	27 Nov-12 15:00	**Species:**	Ceriodaphnia dubia	**Brine:**	Not Applicable
Duration:	6d 23h	**Source:**	Aquatic Biosystems, CO	**Age:**	

Sample ID:	06-1435-1055	**Code:**	VCF1112.265c	**Client:**	VCWPD
Sample Date:	17 Nov-12 09:30	**Material:**	Sample Water	**Project:**	2012/13-2 (Wet)
Receive Date:	17 Nov-12 14:20	**Source:**	Bioassay Report		
Sample Age:	79h	**Station:**	MO-FIL		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	706450	280	Yes	Two-Point Interpolation

Test Acceptability Criteria

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	17.5	15 - NL	Yes	Passes Acceptability Criteria

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
IC5	>100	N/A	N/A	<1	NA	NA
IC10	>100	N/A	N/A	<1	NA	NA
IC15	>100	N/A	N/A	<1	NA	NA
IC20	>100	N/A	N/A	<1	NA	NA
IC25	>100	N/A	N/A	<1	NA	NA
IC40	>100	N/A	N/A	<1	NA	NA
IC50	>100	N/A	N/A	<1	NA	NA

Reproduction Summary

			Calculated Variate						
C-%	**Control Type**	**Count**	**Mean**	**Min**	**Max**	**Std Err**	**Std Dev**	**CV%**	**%Effect**
0	Negative Control	10	17.5	13	21	0.8975	2.838	16.22%	0.0%
6.25		10	19.1	11	25	1.524	4.818	25.22%	-9.14%
12.5		10	21	18	24	0.6831	2.16	10.29%	-20.0%
25		10	22	14	28	1.506	4.761	21.64%	-25.71%
50		10	19.7	16	27	1.248	3.945	20.03%	-12.57%
100		10	22.5	9	31	2.007	6.346	28.21%	-28.57%

Reproduction Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	15	13	20	21	19	15	21	16	16	19
6.25		18	15	24	15	23	20	16	11	25	24
12.5		22	22	19	19	24	22	19	21	18	24
25		21	18	14	16	25	23	26	27	28	22
50		18	16	27	24	24	16	18	16	18	20
100		27	15	9	21	25	27	24	23	31	23

Analysis ID:	18-5396-8567	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:26	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

CETIS Analytical Report

Report Date: 04 Jan-13 11:58 (p 1 of 3)
Test Code: VCF1112.265cer | 08-6696-4345

Ceriodaphnia 7-d Survival and Reproduction Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	01-4940-5937	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:26	**Analysis:**	STP 2x2 Contingency Tables	**Official Results:**	Yes

Batch ID:	08-2118-9485	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	
Start Date:	20 Nov-12 16:05	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	27 Nov-12 15:00	**Species:**	Ceriodaphnia dubia	**Brine:**	Not Applicable
Duration:	6d 23h	**Source:**	Aquatic Biosystems, CO	**Age:**	

Sample ID:	06-1435-1055	**Code:**	VCF1112.265c	**Client:**	VCWPD
Sample Date:	17 Nov-12 09:30	**Material:**	Sample Water	**Project:**	2012/13-2 (Wet)
Receive Date:	17 Nov-12 14:20	**Source:**	Bioassay Report		
Sample Age:	79h	**Station:**	MO-FIL		

Data Transform	Zeta	Alt Hyp	Trials	Seed	NOEL	LOEL	TOEL	TU
Untransformed		C > T	NA	NA	100	>100	NA	1

Fisher Exact/Bonferroni-Holm Test

Control	vs	C-%	Test Stat	P-Value	P-Type	Decision(α:5%)
Negative Control		6.25	1	1.0000	Exact	Non-Significant Effect
		12.5	1	1.0000	Exact	Non-Significant Effect
		25	1	1.0000	Exact	Non-Significant Effect
		50	1	1.0000	Exact	Non-Significant Effect
		100	1	1.0000	Exact	Non-Significant Effect

Test Acceptability Criteria

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	1	0.8 - NL	Yes	Passes Acceptability Criteria

Data Summary

C-%	Control Type	NR	R	NR + R	Prop NR	Prop R	%Effect
0	Negative Contr	10	0	10	1	0	0.0%
6.25		10	0	10	1	0	0.0%
12.5		10	0	10	1	0	0.0%
25		10	0	10	1	0	0.0%
50		10	0	10	1	0	0.0%
100		10	0	10	1	0	0.0%

7d Survival Rate Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	1	1	1	1	1	1	1	1	1	1
6.25		1	1	1	1	1	1	1	1	1	1
12.5		1	1	1	1	1	1	1	1	1	1
25		1	1	1	1	1	1	1	1	1	1
50		1	1	1	1	1	1	1	1	1	1
100		1	1	1	1	1	1	1	1	1	1

7d Survival Rate Binomials

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Contro	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
6.25		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
12.5		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
25		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
50		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
100		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1

Analysis ID:	01-4940-5937	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:26	**Analysis:**	STP 2x2 Contingency Tables	**Official Results:**	Yes

Ceriodaphnia 7-d Survival and Reproduction Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	01-4940-5937	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:26	**Analysis:**	STP 2x2 Contingency Tables	**Official Results:**	Yes

CETIS Measurement Report

Ceriodaphnia 7-d Survival and Reproduction Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Batch ID:	08-2118-9485	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	
Start Date:	20 Nov-12 16:05	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	27 Nov-12 15:00	**Species:**	Ceriodaphnia dubia	**Brine:**	Not Applicable
Duration:	6d 23h	**Source:**	Aquatic Biosystems, CO	**Age:**	

Sample ID:	06-1435-1055	**Code:**	VCF1112.265c	**Client:**	VCWPD
Sample Date:	17 Nov-12 09:30	**Material:**	Sample Water	**Project:**	2012/13-2 (Wet)
Receive Date:	17 Nov-12 14:20	**Source:**	Bioassay Report		
Sample Age:	79h	**Station:**	MO-FIL		

Alkalinity (CaCO3)-mg/L

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	60.63	60.19	61.06	60	61	0.183	0.5175	0.85%	0
100		8	35	35	35	35	35	0	0	0.0%	0
Overall		16	47.81			35	61				0 (0%)

Conductivity-µmhos

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	347.1	343.8	350.4	344	356	1.394	3.944	1.14%	0
6.25		8	331.9	330.5	333.2	329	333	0.5806	1.642	0.49%	0
12.5		8	325.8	320.9	330.6	320	338	2.068	5.849	1.8%	0
25		8	310.4	304.6	316.1	304	325	2.427	6.865	2.21%	0
50		8	293	278	308	274	315	6.344	17.94	6.12%	0
100		8	243.5	218.7	268.3	216	288	10.48	29.65	12.18%	0
Overall		48	308.6			216	356				0 (0%)

Dissolved Oxygen-mg/L

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	8.075	7.819	8.331	7.8	8.5	0.1081	0.3059	3.79%	0
6.25		8	7.725	7.045	8.405	5.9	8.6	0.2877	0.8137	10.53%	0
12.5		8	7.475	6.334	8.616	4.2	8.5	0.4825	1.365	18.26%	0
25		8	7.175	6.089	8.261	4	8	0.4593	1.299	18.11%	0
50		8	7.175	6.089	8.261	4	8	0.4593	1.299	18.11%	0
100		8	6.675	5.519	7.831	4	7.7	0.4891	1.383	20.72%	0
Overall		48	7.383			4	8.6				0 (0%)

Hardness (CaCO3)-mg/L

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	93.13	91.83	94.42	92	95	0.5489	1.553	1.67%	0
100		8	78	78	78	78	78	0	0	0.0%	0
Overall		16	85.56			78	95				0 (0%)

pH-Units

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.913	7.883	7.942	7.9	8	0.01249	0.03533	0.45%	0
6.25		8	7.738	7.649	7.826	7.5	7.8	0.0375	0.1061	1.37%	0
12.5		8	7.7	7.591	7.809	7.4	7.8	0.04629	0.1309	1.7%	0
25		8	7.6	7.491	7.709	7.3	7.7	0.04629	0.1309	1.72%	0
50		8	7.438	7.32	7.555	7.2	7.6	0.04978	0.1408	1.89%	0
100		8	7.213	6.978	7.447	6.8	7.6	0.09899	0.28	3.88%	0
Overall		48	7.6			6.8	8				0 (0%)

Ceriodaphnia 7-d Survival and Reproduction Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Temperature-°C

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	24.04	23.95	24.13	24	24.3	0.03751	0.1061	0.44%	0
6.25		8	24.03	23.99	24.06	24	24.1	0.01634	0.04623	0.19%	0
12.5		8	24.03	23.99	24.06	24	24.1	0.01634	0.04623	0.19%	0
25		8	24.05	24.01	24.09	24	24.1	0.01886	0.05334	0.22%	0
50		8	24.06	24.02	24.11	24	24.1	0.01825	0.05161	0.21%	0
100		8	24.06	24.02	24.11	24	24.1	0.01825	0.05161	0.21%	0
Overall		48	24.04			24	24.3				0 (0%)

Alkalinity (CaCO3)-mg/L

C-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	61	61	61	61	61	60	60	60
100		35	35	35	35	35	35	35	35

Conductivity-µmhos

C-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	344	344	348	345	347	348	345	356
6.25		331	330	333	333	333	333	333	329
12.5		321	321	325	328	325	328	338	320
25		306	305	308	310	310	315	325	304
50		276	278	279	300	310	312	315	274
100		217	217	228	249	248	285	288	216

Dissolved Oxygen-mg/L

C-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	8.4	8.5	8	7.8	7.8	7.9	7.8	8.4
6.25		8.6	8.4	8	7.8	7.7	7.7	7.7	5.9
12.5		8.5	8.4	7.9	7.8	7.7	7.6	7.7	4.2
25		8	7.3	7.5	7.7	7.7	7.7	7.5	4
50		8	7.3	7.5	7.7	7.7	7.7	7.5	4
100		7.2	5	7.1	7.3	7.6	7.7	7.5	4

Hardness (CaCO3)-mg/L

C-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	92	92	92	92	92	95	95	95
100		78	78	78	78	78	78	78	78

pH-Units

C-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	8	7.9	7.9	7.9	7.9	7.9	7.9	7.9
6.25		7.7	7.7	7.8	7.8	7.8	7.8	7.8	7.5
12.5		7.7	7.7	7.7	7.7	7.8	7.8	7.8	7.4
25		7.6	7.6	7.6	7.6	7.7	7.7	7.7	7.3
50		7.5	7.3	7.4	7.4	7.5	7.6	7.6	7.2
100		7.1	6.8	7	7.3	7.4	7.5	7.6	7

Temperature-°C

C-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	24	24.3	24	24	24	24	24	24
6.25		24.1	24	24	24	24	24.1	24	24
12.5		24.1	24	24	24	24	24.1	24	24
25		24.1	24.1	24	24	24.1	24.1	24	24
50		24.1	24.1	24.1	24	24.1	24.1	24	24
100		24.1	24.1	24.1	24	24.1	24.1	24	24

aquatic bioassay & consulting laboratories, inc

January 4th, 2013

Mr. Arne Anselm
Ventura County Watershed Protection District
800 South Victoria Ave
Ventura, CA 93009

Dear Mr. Anselm:

We are pleased to present the enclosed bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms EPA-821-R-02-013*
Results were as follows:

CLIENT:	Ventura County Flood Control
SAMPLE I.D.:	MO-MPK
DATE RECEIVED:	11/17/2012
ABC LAB. NO.:	VCF1112.263

CHRONIC SELENASTRUM ALGAE GROWTH BIOASSAY

NOEC = 100.00 %
TUc = 1.00

IC25 = >100.00 %
IC50 = >100.00 %

Yours very truly,

Scott Johnson
Laboratory Director

CETIS Summary Report

Report Date: 04 Jan-13 11:58 (p 1 of 1)
Test Code: VCF1112.263sel | 01-9068-0777

Selenastrum Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Batch ID:	00-5734-7252	**Test Type:**	Cell Growth	**Analyst:**	
Start Date:	21 Nov-12 11:30	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	25 Nov-12 11:30	**Species:**	Selenastrum capricornutum	**Brine:**	Not Applicable
Duration:	96h	**Source:**	Aquatic Biosystems, CO	**Age:**	

Sample ID:	16-4271-9968	**Code:**	VCF1112.263s	**Client:**	VCWPD
Sample Date:	17 Nov-12 10:45	**Material:**	Sample Water	**Project:**	2012/13-2 (Wet)
Receive Date:	17 Nov-12 14:20	**Source:**	Bioassay Report		
Sample Age:	4d 1h	**Station:**	MO-MPK		

Comparison Summary

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
19-5617-0003	Cell Density	100	>100	NA	11.3%	1	Dunnett Multiple Comparison Test

Point Estimate Summary

Analysis ID	Endpoint	Level	%	95% LCL	95% UCL	TU	Method
15-8250-3568	Cell Density	IC5	>100	N/A	N/A	<1	Linear Interpolation (ICPIN)
		IC10	>100	N/A	N/A	<1	
		IC15	>100	N/A	N/A	<1	
		IC20	>100	N/A	N/A	<1	
		IC25	>100	N/A	N/A	<1	
		IC40	>100	N/A	N/A	<1	
		IC50	>100	N/A	N/A	<1	

Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits	Overlap	Decision
15-8250-3568	Cell Density	Control CV	0.02363	NL - 0.2	Yes	Passes Acceptability Criteria
19-5617-0003	Cell Density	Control CV	0.02363	NL - 0.2	Yes	Passes Acceptability Criteria
15-8250-3568	Cell Density	Control Resp	1.15E+6	1.00E+6 - NL	Yes	Passes Acceptability Criteria
19-5617-0003	Cell Density	Control Resp	1.15E+6	1.00E+6 - NL	Yes	Passes Acceptability Criteria
19-5617-0003	Cell Density	PMSD	0.1129	0.091 - 0.29	Yes	Passes Acceptability Criteria

Cell Density Summary

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Negative Contro	4	1.154E+6	1.111E+6	1.197E+6	1.116E+6	1.177E+6	1.363E+4	2.726E+4	2.36%	0.0%
6.25		4	1.462E+6	1.280E+6	1.643E+6	1.340E+6	1.560E+6	5.714E+4	1.143E+5	7.82%	-26.65%
12.5		4	1.576E+6	1.462E+6	1.691E+6	1.487E+6	1.636E+6	3.594E+4	7.188E+4	4.56%	-36.59%
25		4	1.620E+6	1.496E+6	1.743E+6	1.514E+6	1.694E+6	3.878E+4	7.755E+4	4.79%	-40.34%
50		4	1.741E+6	1.623E+6	1.859E+6	1.664E+6	1.841E+6	3.709E+4	7.418E+4	4.26%	-50.87%
100		4	1.643E+6	1.534E+6	1.752E+6	1.572E+6	1.711E+6	3.427E+4	6.853E+4	4.17%	-42.4%

Cell Density Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Contro	1.153E+6	1.170E+6	1.177E+6	1.116E+6
6.25		1.388E+6	1.558E+6	1.560E+6	1.340E+6
12.5		1.636E+6	1.633E+6	1.487E+6	1.549E+6
25		1.694E+6	1.614E+6	1.656E+6	1.514E+6
50		1.664E+6	1.841E+6	1.717E+6	1.742E+6
100		1.692E+6	1.572E+6	1.711E+6	1.598E+6

CETIS Analytical Report

Report Date: 04 Jan-13 11:58 (p 1 of 2)
Test Code: VCF1112.263sel | 01-9068-0777

Selenastrum Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	19-5617-0003	**Endpoint:**	Cell Density	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:27	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Batch ID:	00-5734-7252	**Test Type:**	Cell Growth	**Analyst:**	
Start Date:	21 Nov-12 11:30	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	25 Nov-12 11:30	**Species:**	Selenastrum capricornutum	**Brine:**	Not Applicable
Duration:	96h	**Source:**	Aquatic Biosystems, CO	**Age:**	

Sample ID:	16-4271-9968	**Code:**	VCF1112.263s	**Client:**	VCWPD
Sample Date:	17 Nov-12 10:45	**Material:**	Sample Water	**Project:**	2012/13-2 (Wet)
Receive Date:	17 Nov-12 14:20	**Source:**	Bioassay Report		
Sample Age:	4d 1h	**Station:**	MO-MPK		

Data Transform	Zeta	Alt Hyp	Trials	Seed	PMSD	NOEL	LOEL	TOEL	TU
Untransformed	NA	C > T	NA	NA	11.3%	100	>100	NA	1

Dunnett Multiple Comparison Test

Control vs	C-%	Test Stat	Critical	MSD	DF	P-Value	P-Type	Decision(α:5%)
Negative Control	6.25	-5.679	2.407	1E+05	6	1.0000	CDF	Non-Significant Effect
	12.5	-7.798	2.407	1E+05	6	1.0000	CDF	Non-Significant Effect
	25	-8.597	2.407	1E+05	6	1.0000	CDF	Non-Significant Effect
	50	-10.84	2.407	1E+05	6	1.0000	CDF	Non-Significant Effect
	100	-9.036	2.407	1E+05	6	1.0000	CDF	Non-Significant Effect

Test Acceptability Criteria

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control CV	0.02363	NL - 0.2	Yes	Passes Acceptability Criteria
Control Resp	1.15E+6	1.00E+6 - NL	Yes	Passes Acceptability Criteria
PMSD	0.1129	0.091 - 0.29	Yes	Passes Acceptability Criteria

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	8.540963E+11	1.708193E+11	5	29.13	<0.0001	Significant Effect
Error	1.055475E+11	5863750000	18			
Total	9.596438E+11		23			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Bartlett Equality of Variance	4.386	15.09	0.4953	Equal Variances
Variances	Mod Levene Equality of Variance	2.289	4.248	0.0893	Equal Variances
Variances	Levene Equality of Variance	2.727	4.248	0.0528	Equal Variances
Distribution	Shapiro-Wilk W Normality	0.9556	0.884	0.3569	Normal Distribution
Distribution	Kolmogorov-Smirnov D	0.1035	0.2056	0.7699	Normal Distribution
Distribution	D'Agostino Skewness	0.3155	2.576	0.7524	Normal Distribution
Distribution	D'Agostino Kurtosis	1.719	2.576	0.0856	Normal Distribution
Distribution	D'Agostino-Pearson K2 Omnibus	3.054	9.21	0.2172	Normal Distribution
Distribution	Anderson-Darling A2 Normality	0.3288	3.878	0.5308	Normal Distribution

Cell Density Summary

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	Negative Control	4	1.154E+6	1.111E+6	1.197E+6	1162000	1.116E+6	1.177E+6	1.363E+4	2.36%	0.0%
6.25		4	1.462E+6	1.280E+6	1.643E+6	1473000	1.340E+6	1.560E+6	5.714E+4	7.82%	-26.65%
12.5		4	1.576E+6	1.462E+6	1.691E+6	1591000	1.487E+6	1.636E+6	3.594E+4	4.56%	-36.59%
25		4	1.620E+6	1.496E+6	1.743E+6	1635000	1.514E+6	1.694E+6	3.878E+4	4.79%	-40.34%
50		4	1.741E+6	1.623E+6	1.859E+6	1730000	1.664E+6	1.841E+6	3.709E+4	4.26%	-50.87%
100		4	1.643E+6	1.534E+6	1.752E+6	1645000	1.572E+6	1.711E+6	3.427E+4	4.17%	-42.4%

Selenastrum Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	19-5617-0003	**Endpoint:**	Cell Density	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:27	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Cell Density Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1.153E+6	1.170E+6	1.177E+6	1.116E+6
6.25		1.388E+6	1.558E+6	1.560E+6	1.340E+6
12.5		1.636E+6	1.633E+6	1.487E+6	1.549E+6
25		1.694E+6	1.614E+6	1.656E+6	1.514E+6
50		1.664E+6	1.841E+6	1.717E+6	1.742E+6
100		1.692E+6	1.572E+6	1.711E+6	1.598E+6

CETIS Analytical Report

Report Date: 04 Jan-13 11:58 (p 1 of 2)
Test Code: VCF1112.263sel | 01-9068-0777

Selenastrum Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	15-8250-3568	**Endpoint:**	Cell Density	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:27	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Batch ID:	00-5734-7252	**Test Type:**	Cell Growth	**Analyst:**	
Start Date:	21 Nov-12 11:30	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	25 Nov-12 11:30	**Species:**	Selenastrum capricornutum	**Brine:**	Not Applicable
Duration:	96h	**Source:**	Aquatic Biosystems, CO	**Age:**	

Sample ID:	16-4271-9968	**Code:**	VCF1112.263s	**Client:**	VCWPD
Sample Date:	17 Nov-12 10:45	**Material:**	Sample Water	**Project:**	2012/13-2 (Wet)
Receive Date:	17 Nov-12 14:20	**Source:**	Bioassay Report		
Sample Age:	4d 1h	**Station:**	MO-MPK		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	0	280	Yes	Two-Point Interpolation

Test Acceptability Criteria

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control CV	0.02363	NL - 0.2	Yes	Passes Acceptability Criteria
Control Resp	1.15E+6	1.00E+6 - NL	Yes	Passes Acceptability Criteria

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
IC5	>100	N/A	N/A	<1	NA	NA
IC10	>100	N/A	N/A	<1	NA	NA
IC15	>100	N/A	N/A	<1	NA	NA
IC20	>100	N/A	N/A	<1	NA	NA
IC25	>100	N/A	N/A	<1	NA	NA
IC40	>100	N/A	N/A	<1	NA	NA
IC50	>100	N/A	N/A	<1	NA	NA

Cell Density Summary

			Calculated Variate						
C-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Negative Control	4	1.154E+6	1.116E+6	1.177E+6	1.363E+4	2.726E+4	2.36%	0.0%
6.25		4	1.462E+6	1.340E+6	1.560E+6	5.714E+4	1.143E+5	7.82%	-26.65%
12.5		4	1.576E+6	1.487E+6	1.636E+6	3.594E+4	7.188E+4	4.56%	-36.59%
25		4	1.620E+6	1.514E+6	1.694E+6	3.878E+4	7.755E+4	4.79%	-40.34%
50		4	1.741E+6	1.664E+6	1.841E+6	3.709E+4	7.418E+4	4.26%	-50.87%
100		4	1.643E+6	1.572E+6	1.711E+6	3.427E+4	6.853E+4	4.17%	-42.4%

Cell Density Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1.153E+6	1.170E+6	1.177E+6	1.116E+6
6.25		1.388E+6	1.558E+6	1.560E+6	1.340E+6
12.5		1.636E+6	1.633E+6	1.487E+6	1.549E+6
25		1.694E+6	1.614E+6	1.656E+6	1.514E+6
50		1.664E+6	1.841E+6	1.717E+6	1.742E+6
100		1.692E+6	1.572E+6	1.711E+6	1.598E+6

Analysis ID:	15-8250-3568	**Endpoint:**	Cell Density	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:27	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

CETIS Measurement Report

Test Code: VCF1112.263sel | 01-9068-0777

Selenastrum Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Batch ID:	00-5734-7252	**Test Type:**	Cell Growth	**Analyst:**	
Start Date:	21 Nov-12 11:30	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	25 Nov-12 11:30	**Species:**	Selenastrum capricornutum	**Brine:**	Not Applicable
Duration:	96h	**Source:**	Aquatic Biosystems, CO	**Age:**	

Sample ID:	16-4271-9968	**Code:**	VCF1112.263s	**Client:**	VCWPD
Sample Date:	17 Nov-12 10:45	**Material:**	Sample Water	**Project:**	2012/13-2 (Wet)
Receive Date:	17 Nov-12 14:20	**Source:**	Bioassay Report		
Sample Age:	4d 1h	**Station:**	MO-MPK		

Alkalinity (CaCO3)-mg/L

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	1	67			67	67	0	0	0.0%	0
6.25		1	70			70	70	0	0	0.0%	0
12.5		1	62			62	62	0	0	0.0%	0
25		1	59			59	59	0	0	0.0%	0
50		1	59			59	59	0	0	0.0%	0
100		1	115			115	115	0	0	0.0%	0
Overall		6	72			59	115				0 (0%)

Conductivity-µmhos

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	5	424	410.1	437.9	418	444	5.01	11.2	2.64%	0
6.25		5	418.6	412.7	424.5	412	425	2.112	4.722	1.13%	0
12.5		5	424.2	420.5	427.9	422	429	1.319	2.95	0.7%	0
25		5	424.4	418.9	429.9	421	432	1.965	4.393	1.04%	0
50		5	425.6	419.6	431.6	422	434	2.159	4.827	1.13%	0
100		5	423	420.4	425.6	420	425	0.9487	2.121	0.5%	0
Overall		30	423.3			412	444				0 (0%)

Hardness (CaCO3)-mg/L

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	1	98			98	98	0	0	0.0%	0
6.25		1	108			108	108	0	0	0.0%	0
12.5		1	103			103	103	0	0	0.0%	0
25		1	99			99	99	0	0	0.0%	0
50		1	112			112	112	0	0	0.0%	0
100		1	115			115	115	0	0	0.0%	0
Overall		6	105.8			98	115				0 (0%)

pH-Units

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	5	7.8	7.712	7.888	7.7	7.9	0.03162	0.07071	0.91%	0
6.25		5	7.82	7.684	7.956	7.7	8	0.04899	0.1095	1.4%	0
12.5		5	7.8	7.648	7.952	7.7	8	0.05477	0.1225	1.57%	0
25		5	7.74	7.598	7.882	7.6	7.9	0.05099	0.114	1.47%	0
50		5	7.66	7.472	7.848	7.5	7.9	0.06782	0.1517	1.98%	0
100		5	7.6	7.424	7.776	7.5	7.8	0.06325	0.1414	1.86%	0
Overall		30	7.737			7.5	8				0 (0%)

Temperature-°C

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	5	24.72	24.56	24.88	24.5	24.8	0.05833	0.1304	0.53%	0
6.25		5	24.7	24.55	24.85	24.5	24.8	0.05478	0.1225	0.5%	0
12.5		5	24.7	24.55	24.85	24.5	24.8	0.05478	0.1225	0.5%	0
25		5	24.7	24.55	24.85	24.5	24.8	0.05478	0.1225	0.5%	0
50		5	24.7	24.55	24.85	24.5	24.8	0.05478	0.1225	0.5%	0
100		5	24.7	24.55	24.85	24.5	24.8	0.05478	0.1225	0.5%	0
Overall		30	24.7			24.5	24.8				0 (0%)

Selenastrum Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Alkalinity (CaCO3)-mg/L

C-%	Control Type	1	2	3	4	5
0	Negative Contr	67				
6.25		70				
12.5		62				
25		59				
50		59				
100		115				

Conductivity-µmhos

C-%	Control Type	1	2	3	4	5
0	Negative Contr	418	420	419	419	444
6.25		412	417	419	420	425
12.5		422	423	422	425	429
25		424	423	421	422	432
50		425	424	422	423	434
100		420	425	423	425	422

Hardness (CaCO3)-mg/L

C-%	Control Type	1	2	3	4	5
0	Negative Contr	98				
6.25		108				
12.5		103				
25		99				
50		112				
100		115				

pH-Units

C-%	Control Type	1	2	3	4	5
0	Negative Contr	7.7	7.8	7.8	7.8	7.9
6.25		7.7	7.8	7.8	7.8	8
12.5		7.7	7.8	7.7	7.8	8
25		7.7	7.8	7.6	7.7	7.9
50		7.5	7.7	7.6	7.6	7.9
100		7.5	7.7	7.5	7.5	7.8

Temperature-°C

C-%	Control Type	1	2	3	4	5
0	Negative Contr	24.8	24.8	24.8	24.7	24.5
6.25		24.8	24.8	24.7	24.7	24.5
12.5		24.8	24.8	24.7	24.7	24.5
25		24.8	24.8	24.7	24.7	24.5
50		24.8	24.8	24.7	24.7	24.5
100		24.8	24.8	24.7	24.7	24.5

aquatic bioassay & consulting laboratories, inc

January 4th, 2013

Mr. Arne Anselm
Ventura County Watershed Protection District
800 South Victoria Ave
Ventura, CA 93009

Dear Mr. Anselm:

We are pleased to present the enclosed revised bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms" EPA-821-R-02-013*. Results were as follows:

CLIENT:	Ventura County Flood Control
SAMPLE I.D.:	MO-MEI
DATE RECEIVED:	11/17/2012
ABC LAB. NO.:	VCF1112.256

CHRONIC FATHEAD SURVIVAL & GROWTH BIOASSAY

SURVIVAL	NOEC =	100.00 %
	TUc =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00 %
REPRODUCTION	NOEC =	100.00 %
	TUc =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00 %

Yours very truly,

Scott Johnson
Laboratory Director

29 north olive ventura, ca 93001 (805) 643 5621 www.aquabio.org

CETIS Summary Report

Report Date: 04 Jan-13 11:59 (p 1 of 2)
Test Code: VCF1112.256fml | 10-8594-1099

Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Batch ID:	13-7962-7774	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	20 Nov-12 16:20	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	27 Nov-12 14:30	**Species:**	Pimephales promelas	**Brine:**	Not Applicable
Duration:	6d 22h	**Source:**	Aquatic Biosystems, CO	**Age:**	

Sample ID:	01-9313-3367	**Code:**	VCF1112.256f	**Client:**	VCWPD
Sample Date:	17 Nov-12 09:15	**Material:**	Sample Water	**Project:**	2012/13-2 (Wet)
Receive Date:	17 Nov-12 12:16	**Source:**	Bioassay Report		
Sample Age:	79h	**Station:**	MO-MEI		

Comparison Summary

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
16-7106-4040	7d Survival Rate	100	>100	NA	11.5%	1	Steel Many-One Rank Sum Test
06-5930-7497	Mean Dry Biomass-mg	100	>100	NA	16.8%	1	Dunnett Multiple Comparison Test

Point Estimate Summary

Analysis ID	Endpoint	Level	%	95% LCL	95% UCL	TU	Method
14-8499-7088	7d Survival Rate	EC5	9.821	4.107	N/A	10.18	Linear Interpolation (ICPIN)
		EC10	>100	N/A	N/A	<1	
		EC15	>100	N/A	N/A	<1	
		EC20	>100	N/A	N/A	<1	
		EC25	>100	N/A	N/A	<1	
		EC40	>100	N/A	N/A	<1	
		EC50	>100	N/A	N/A	<1	
19-8819-3481	Mean Dry Biomass-mg	IC5	10.42	6.884	49.16	9.596	Linear Interpolation (ICPIN)
		IC10	28.77	N/A	N/A	3.476	
		IC15	>100	N/A	N/A	<1	
		IC20	>100	N/A	N/A	<1	
		IC25	>100	N/A	N/A	<1	
		IC40	>100	N/A	N/A	<1	
		IC50	>100	N/A	N/A	<1	

Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits	Overlap	Decision
14-8499-7088	7d Survival Rate	Control Resp	1	0.8 - NL	Yes	Passes Acceptability Criteria
16-7106-4040	7d Survival Rate	Control Resp	1	0.8 - NL	Yes	Passes Acceptability Criteria
06-5930-7497	Mean Dry Biomass-mg	Control Resp	0.298	0.25 - NL	Yes	Passes Acceptability Criteria
19-8819-3481	Mean Dry Biomass-mg	Control Resp	0.298	0.25 - NL	Yes	Passes Acceptability Criteria
06-5930-7497	Mean Dry Biomass-mg	PMSD	0.1679	0.12 - 0.3	Yes	Passes Acceptability Criteria

7d Survival Rate Summary

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Negative Contro	4	1	1	1	1	1	0	0	0.0%	0.0%
6.25		4	0.9833	0.9303	1	0.9333	1	0.01667	0.03333	3.39%	1.67%
12.5		4	0.8833	0.7242	1	0.7333	0.9333	0.05	0.1	11.32%	11.67%
25		4	0.9333	0.7833	1	0.8	1	0.04714	0.09428	10.1%	6.67%
50		4	0.9333	0.8108	1	0.8667	1	0.03849	0.07698	8.25%	6.67%
100		4	0.95	0.7909	1	0.8	1	0.05	0.1	10.53%	5.0%

Mean Dry Biomass-mg Summary

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Negative Contro	4	0.298	0.2564	0.3396	0.2693	0.3307	0.01306	0.02612	8.77%	0.0%
6.25		4	0.3182	0.2976	0.3387	0.3067	0.3353	0.006454	0.01291	4.06%	-6.77%
12.5		4	0.285	0.2164	0.3536	0.2327	0.3367	0.02157	0.04314	15.14%	4.36%
25		4	0.2782	0.2157	0.3406	0.224	0.3093	0.01962	0.03924	14.11%	6.66%
50		4	0.2677	0.2396	0.2957	0.2467	0.2853	0.008817	0.01763	6.59%	10.18%
100		4	0.2768	0.2372	0.3165	0.2433	0.3	0.01246	0.02492	9.0%	7.1%

7d Survival Rate Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Contro	1	1	1	1
6.25		1	1	0.9333	1
12.5		0.9333	0.7333	0.9333	0.9333
25		0.8	1	1	0.9333
50		1	0.8667	0.8667	1
100		1	1	1	0.8

Mean Dry Biomass-mg Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Contro	0.2873	0.2693	0.3047	0.3307
6.25		0.3067	0.3353	0.3207	0.31
12.5		0.2947	0.2327	0.276	0.3367
25		0.224	0.3093	0.2747	0.3047
50		0.2787	0.2467	0.26	0.2853
100		0.3	0.2907	0.2733	0.2433

7d Survival Rate Binomials

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Contro	15/15	15/15	15/15	15/15
6.25		15/15	15/15	14/15	15/15
12.5		14/15	11/15	14/15	14/15
25		12/15	15/15	15/15	14/15
50		15/15	13/15	13/15	15/15
100		15/15	15/15	15/15	12/15

CETIS Analytical Report

Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	16-7106-4040	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:28	**Analysis:**	Nonparametric-Control vs Treatments	**Official Results:**	Yes

Batch ID:	13-7962-7774	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	20 Nov-12 16:20	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	27 Nov-12 14:30	**Species:**	Pimephales promelas	**Brine:**	Not Applicable
Duration:	6d 22h	**Source:**	Aquatic Biosystems, CO	**Age:**	

Sample ID:	01-9313-3367	**Code:**	VCF1112.256f	**Client:**	VCWPD
Sample Date:	17 Nov-12 09:15	**Material:**	Sample Water	**Project:**	2012/13-2 (Wet)
Receive Date:	17 Nov-12 12:16	**Source:**	Bioassay Report		
Sample Age:	79h	**Station:**	MO-MEI		

Data Transform	Zeta	Alt Hyp	Trials	Seed	PMSD	NOEL	LOEL	TOEL	TU
Angular (Corrected)	NA	C > T	NA	NA	11.5%	100	>100	NA	1

Steel Many-One Rank Sum Test

Control vs	C-%	Test Stat	Critical	Ties	DF	P-Value	P-Type	Decision(α:5%)
Negative Control	6.25	16	10	1	6	0.6105	Asymp	Non-Significant Effect
	12.5*	10	10	0	6	0.0417	Asymp	Significant Effect
	25	14	10	1	6	0.3451	Asymp	Non-Significant Effect
	50	14	10	1	6	0.3451	Asymp	Non-Significant Effect
	100	16	10	1	6	0.6105	Asymp	Non-Significant Effect

Test Acceptability Criteria

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	1	0.8 - NL	Yes	Passes Acceptability Criteria

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	0.102578	0.0205156	5	1.271	0.3192	Non-Significant Effect
Error	0.2906534	0.01614741	18			
Total	0.3932314		23			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Mod Levene Equality of Variance	0.873	4.248	0.5184	Equal Variances
Variances	Levene Equality of Variance	3.119	4.248	0.0335	Equal Variances
Distribution	Shapiro-Wilk W Normality	0.8676	0.884	0.0047	Non-normal Distribution
Distribution	Kolmogorov-Smirnov D	0.2083	0.2056	0.0084	Non-normal Distribution
Distribution	D'Agostino Skewness	2.095	2.576	0.0362	Normal Distribution
Distribution	D'Agostino Kurtosis	0.2515	2.576	0.8014	Normal Distribution
Distribution	D'Agostino-Pearson K2 Omnibus	4.45	9.21	0.1080	Normal Distribution
Distribution	Anderson-Darling A2 Normality	1.309	3.878	0.0017	Non-normal Distribution

7d Survival Rate Summary

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	Negative Control	4	1	1	1	1	1	1	0	0.0%	0.0%
6.25		4	0.9833	0.9303	1	1	0.9333	1	0.01667	3.39%	1.67%
12.5		4	0.8833	0.7242	1	0.9333	0.7333	0.9333	0.05	11.32%	11.67%
25		4	0.9333	0.7833	1	0.9667	0.8	1	0.04714	10.1%	6.67%
50		4	0.9333	0.8108	1	0.9333	0.8667	1	0.03849	8.25%	6.67%
100		4	0.95	0.7909	1	1	0.8	1	0.05	10.53%	5.0%

Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	16-7106-4040	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:28	**Analysis:**	Nonparametric-Control vs Treatments	**Official Results:**	Yes

Angular (Corrected) Transformed Summary

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	Negative Contr	4	1.441	1.441	1.442	1.441	1.441	1.441	0	0.0%	0.0%
6.25		4	1.408	1.304	1.513	1.441	1.31	1.441	0.03292	4.68%	2.28%
12.5		4	1.239	1.015	1.463	1.31	1.028	1.31	0.07037	11.36%	14.02%
25		4	1.325	1.074	1.576	1.375	1.107	1.441	0.07893	11.92%	8.08%
50		4	1.319	1.095	1.544	1.319	1.197	1.441	0.07053	10.69%	8.48%
100		4	1.358	1.092	1.624	1.441	1.107	1.441	0.08355	12.31%	5.8%

7d Survival Rate Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1	1	1	1
6.25		1	1	0.9333	1
12.5		0.9333	0.7333	0.9333	0.9333
25		0.8	1	1	0.9333
50		1	0.8667	0.8667	1
100		1	1	1	0.8

Angular (Corrected) Transformed Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1.441	1.441	1.441	1.441
6.25		1.441	1.441	1.31	1.441
12.5		1.31	1.028	1.31	1.31
25		1.107	1.441	1.441	1.31
50		1.441	1.197	1.197	1.441
100		1.441	1.441	1.441	1.107

7d Survival Rate Binomials

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Contro	15/15	15/15	15/15	15/15
6.25		15/15	15/15	14/15	15/15
12.5		14/15	11/15	14/15	14/15
25		12/15	15/15	15/15	14/15
50		15/15	13/15	13/15	15/15
100		15/15	15/15	15/15	12/15

Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	06-5930-7497	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:28	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Batch ID:	13-7962-7774	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	20 Nov-12 16:20	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	27 Nov-12 14:30	**Species:**	Pimephales promelas	**Brine:**	Not Applicable
Duration:	6d 22h	**Source:**	Aquatic Biosystems, CO	**Age:**	

Sample ID:	01-9313-3367	**Code:**	VCF1112.256f	**Client:**	VCWPD
Sample Date:	17 Nov-12 09:15	**Material:**	Sample Water	**Project:**	2012/13-2 (Wet)
Receive Date:	17 Nov-12 12:16	**Source:**	Bioassay Report		
Sample Age:	79h	**Station:**	MO-MEI		

Data Transform	Zeta	Alt Hyp	Trials	Seed	PMSD	NOEL	LOEL	TOEL	TU
Untransformed	NA	C > T	NA	NA	16.8%	100	>100	NA	1

Dunnett Multiple Comparison Test

Control vs	C-%	Test Stat	Critical	MSD	DF	P-Value	P-Type	Decision(α:5%)
Negative Control	6.25	-0.9705	2.407	0.050	6	0.9813	CDF	Non-Significant Effect
	12.5	0.6256	2.407	0.050	6	0.5918	CDF	Non-Significant Effect
	25	0.9544	2.407	0.050	6	0.4421	CDF	Non-Significant Effect
	50	1.46	2.407	0.050	6	0.2411	CDF	Non-Significant Effect
	100	1.019	2.407	0.050	6	0.4137	CDF	Non-Significant Effect

Test Acceptability Criteria

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.298	0.25 - NL	Yes	Passes Acceptability Criteria
PMSD	0.1679	0.12 - 0.3	Yes	Passes Acceptability Criteria

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	0.006603871	0.001320774	5	1.529	0.2303	Non-Significant Effect
Error	0.015545	0.0008636111	18			
Total	0.02214887		23			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Bartlett Equality of Variance	5.01	15.09	0.4147	Equal Variances
Variances	Mod Levene Equality of Variance	0.9424	4.248	0.4776	Equal Variances
Variances	Levene Equality of Variance	1.094	4.248	0.3976	Equal Variances
Distribution	Shapiro-Wilk W Normality	0.9764	0.884	0.8210	Normal Distribution
Distribution	Kolmogorov-Smirnov D	0.1208	0.2056	0.4866	Normal Distribution
Distribution	D'Agostino Skewness	0.7649	2.576	0.4443	Normal Distribution
Distribution	D'Agostino Kurtosis	0.3386	2.576	0.7349	Normal Distribution
Distribution	D'Agostino-Pearson K2 Omnibus	0.6998	9.21	0.7048	Normal Distribution
Distribution	Anderson-Darling A2 Normality	0.2562	3.878	0.7506	Normal Distribution

Mean Dry Biomass-mg Summary

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	Negative Control	4	0.298	0.2564	0.3396	0.296	0.2693	0.3307	0.01306	8.77%	0.0%
6.25		4	0.3182	0.2976	0.3387	0.3153	0.3067	0.3353	0.006454	4.06%	-6.77%
12.5		4	0.285	0.2164	0.3536	0.2853	0.2327	0.3367	0.02157	15.14%	4.36%
25		4	0.2782	0.2157	0.3406	0.2897	0.224	0.3093	0.01962	14.11%	6.66%
50		4	0.2677	0.2396	0.2957	0.2693	0.2467	0.2853	0.008817	6.59%	10.18%
100		4	0.2768	0.2372	0.3165	0.282	0.2433	0.3	0.01246	9.0%	7.1%

Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	06-5930-7497	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:28	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Mean Dry Biomass-mg Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.2873	0.2693	0.3047	0.3307
6.25		0.3067	0.3353	0.3207	0.31
12.5		0.2947	0.2327	0.276	0.3367
25		0.224	0.3093	0.2747	0.3047
50		0.2787	0.2467	0.26	0.2853
100		0.3	0.2907	0.2733	0.2433

CETIS Analytical Report

Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	14-8499-7088	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:28	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Batch ID:	13-7962-7774	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	20 Nov-12 16:20	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	27 Nov-12 14:30	**Species:**	Pimephales promelas	**Brine:**	Not Applicable
Duration:	6d 22h	**Source:**	Aquatic Biosystems, CO	**Age:**	

Sample ID:	01-9313-3367	**Code:**	VCF1112.256f	**Client:**	VCWPD
Sample Date:	17 Nov-12 09:15	**Material:**	Sample Water	**Project:**	2012/13-2 (Wet)
Receive Date:	17 Nov-12 12:16	**Source:**	Bioassay Report		
Sample Age:	79h	**Station:**	MO-MEI		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	0	280	Yes	Two-Point Interpolation

Test Acceptability Criteria

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	1	0.8 - NL	Yes	Passes Acceptability Criteria

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
EC5	9.821	4.107	N/A	10.18	NA	24.35
EC10	>100	N/A	N/A	<1	NA	NA
EC15	>100	N/A	N/A	<1	NA	NA
EC20	>100	N/A	N/A	<1	NA	NA
EC25	>100	N/A	N/A	<1	NA	NA
EC40	>100	N/A	N/A	<1	NA	NA
EC50	>100	N/A	N/A	<1	NA	NA

7d Survival Rate Summary

			Calculated Variate(A/B)								
C-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	%Effect	A	B
0	Negative Control	4	1	1	1	0	0	0.0%	0.0%	60	60
6.25		4	0.9833	0.9333	1	0.01667	0.03333	3.39%	1.67%	59	60
12.5		4	0.8833	0.7333	0.9333	0.05	0.1	11.32%	11.67%	53	60
25		4	0.9333	0.8	1	0.04714	0.09428	10.1%	6.67%	56	60
50		4	0.9333	0.8667	1	0.03849	0.07698	8.25%	6.67%	56	60
100		4	0.95	0.8	1	0.05	0.1	10.53%	5.0%	57	60

7d Survival Rate Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1	1	1	1
6.25		1	1	0.9333	1
12.5		0.9333	0.7333	0.9333	0.9333
25		0.8	1	1	0.9333
50		1	0.8667	0.8667	1
100		1	1	1	0.8

7d Survival Rate Binomials

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Contro	15/15	15/15	15/15	15/15
6.25		15/15	15/15	14/15	15/15
12.5		14/15	11/15	14/15	14/15
25		12/15	15/15	15/15	14/15
50		15/15	13/15	13/15	15/15
100		15/15	15/15	15/15	12/15

Analysis ID:	14-8499-7088	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:28	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	19-8819-3481	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:28	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Batch ID:	13-7962-7774	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	20 Nov-12 16:20	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	27 Nov-12 14:30	**Species:**	Pimephales promelas	**Brine:**	Not Applicable
Duration:	6d 22h	**Source:**	Aquatic Biosystems, CO	**Age:**	

Sample ID:	01-9313-3367	**Code:**	VCF1112.256f	**Client:**	VCWPD
Sample Date:	17 Nov-12 09:15	**Material:**	Sample Water	**Project:**	2012/13-2 (Wet)
Receive Date:	17 Nov-12 12:16	**Source:**	Bioassay Report		
Sample Age:	79h	**Station:**	MO-MEI		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	1594369	280	Yes	Two-Point Interpolation

Test Acceptability Criteria

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.298	0.25 - NL	Yes	Passes Acceptability Criteria

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
IC5	10.42	6.884	49.16	9.596	2.034	14.53
IC10	28.77	N/A	N/A	3.476	NA	NA
IC15	>100	N/A	N/A	<1	NA	NA
IC20	>100	N/A	N/A	<1	NA	NA
IC25	>100	N/A	N/A	<1	NA	NA
IC40	>100	N/A	N/A	<1	NA	NA
IC50	>100	N/A	N/A	<1	NA	NA

Mean Dry Biomass-mg Summary

			Calculated Variate						
C-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Negative Control	4	0.298	0.2693	0.3307	0.01306	0.02612	8.77%	0.0%
6.25		4	0.3182	0.3067	0.3353	0.006454	0.01291	4.06%	-6.77%
12.5		4	0.285	0.2327	0.3367	0.02157	0.04314	15.14%	4.36%
25		4	0.2782	0.224	0.3093	0.01962	0.03924	14.11%	6.66%
50		4	0.2677	0.2467	0.2853	0.008817	0.01763	6.59%	10.18%
100		4	0.2768	0.2433	0.3	0.01246	0.02492	9.0%	7.1%

Mean Dry Biomass-mg Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.2873	0.2693	0.3047	0.3307
6.25		0.3067	0.3353	0.3207	0.31
12.5		0.2947	0.2327	0.276	0.3367
25		0.224	0.3093	0.2747	0.3047
50		0.2787	0.2467	0.26	0.2853
100		0.3	0.2907	0.2733	0.2433

Analysis ID:	19-8819-3481	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:28	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

CETIS Measurement Report

Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Batch ID:	13-7962-7774	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	20 Nov-12 16:20	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	27 Nov-12 14:30	**Species:**	Pimephales promelas	**Brine:**	Not Applicable
Duration:	6d 22h	**Source:**	Aquatic Biosystems, CO	**Age:**	

Sample ID:	01-9313-3367	**Code:**	VCF1112.256f	**Client:**	VCWPD
Sample Date:	17 Nov-12 09:15	**Material:**	Sample Water	**Project:**	2012/13-2 (Wet)
Receive Date:	17 Nov-12 12:16	**Source:**	Bioassay Report		
Sample Age:	79h	**Station:**	MO-MEI		

Alkalinity (CaCO3)-mg/L

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	60.63	60.19	61.06	60	61	0.183	0.5175	0.85%	0
100		8	31	31	31	31	31	0	0	0.0%	0
Overall		16	45.81			31	61				0 (0%)

Conductivity-µmhos

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	347.1	343.8	350.4	344	356	1.394	3.944	1.14%	0
6.25		8	334.4	327	341.8	323	345	3.134	8.863	2.65%	0
12.5		8	313.5	309.3	317.7	308	322	1.763	4.986	1.59%	0
25		8	287	285.7	288.3	284	289	0.5669	1.604	0.56%	0
50		8	238.6	232.2	245.1	230	248	2.719	7.689	3.22%	0
100		8	124.5	122.2	126.8	122	129	0.982	2.777	2.23%	0
Overall		48	274.2			122	356				0 (0%)

Dissolved Oxygen-mg/L

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	8.075	7.819	8.331	7.8	8.5	0.1081	0.3059	3.79%	0
6.25		8	7.65	6.659	8.641	4.9	8.8	0.4192	1.186	15.5%	0
12.5		8	7.438	6.247	8.628	4	8.5	0.5035	1.424	19.15%	0
25		8	7.35	6.194	8.506	4	8.3	0.4888	1.383	18.81%	0
50		8	7.138	6.072	8.203	4	7.8	0.4508	1.275	17.86%	0
100		8	6.813	5.749	7.876	4	7.7	0.4498	1.272	18.67%	0
Overall		48	7.41			4	8.8				0 (0%)

Hardness (CaCO3)-mg/L

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	93.13	91.83	94.42	92	95	0.5489	1.553	1.67%	0
100		8	46	46	46	46	46	0	0	0.0%	0
Overall		16	69.56			46	95				0 (0%)

pH-Units

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.913	7.883	7.942	7.9	8	0.01249	0.03533	0.45%	0
6.25		8	7.838	7.72	7.955	7.5	7.9	0.04977	0.1408	1.8%	0
12.5		8	7.638	7.471	7.804	7.2	7.8	0.07055	0.1996	2.61%	0
25		8	7.488	7.33	7.645	7.2	7.7	0.06665	0.1885	2.52%	0
50		8	7.363	7.237	7.488	7.1	7.5	0.05324	0.1506	2.05%	0
100		8	7.15	7.032	7.268	7	7.3	0.05	0.1414	1.98%	0
Overall		48	7.565			7	8				0 (0%)

Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Temperature-°C

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	24.11	24	24.23	24	24.3	0.04795	0.1356	0.56%	0
6.25		8	24.28	24.09	24.46	24	24.6	0.07963	0.2252	0.93%	0
12.5		8	24.49	24.17	24.8	24	25	0.1329	0.3758	1.54%	0
25		8	24.49	24.17	24.8	24	25	0.1329	0.3758	1.54%	0
50		8	24.76	24.24	25.28	24	25.6	0.2203	0.6232	2.52%	0
100		8	25.06	24.33	25.8	24	26	0.3111	0.8798	3.51%	0
Overall		48	24.53			24	26				0 (0%)

Alkalinity (CaCO3)-mg/L

C-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	61	61	61	61	61	60	60	60
100		31	31	31	31	31	31	31	31

Conductivity-µmhos

C-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	344	344	348	345	347	348	345	356
6.25		326	324	335	338	342	342	345	323
12.5		308	310	312	312	314	320	322	310
25		286	286	288	287	288	289	288	284
50		231	231	235	242	245	247	248	230
100		122	122	128	125	122	125	129	123

Dissolved Oxygen-mg/L

C-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	8.4	8.5	8	7.8	7.8	7.9	7.8	8.4
6.25		8.5	8.8	8.1	7.7	7.7	7.8	7.7	4.9
12.5		8.5	8.2	8.1	7.7	7.6	7.7	7.7	4
25		8.1	8.3	8	7.7	7.5	7.6	7.6	4
50		7.5	7.7	7.8	7.7	7.4	7.5	7.5	4
100		6	6.8	7.7	7.7	7.3	7.5	7.5	4

Hardness (CaCO3)-mg/L

C-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	92	92	92	92	92	95	95	95
100		46	46	46	46	46	46	46	46

pH-Units

C-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	8	7.9	7.9	7.9	7.9	7.9	7.9	7.9
6.25		7.8	7.9	7.9	7.9	7.9	7.9	7.9	7.5
12.5		7.8	7.8	7.7	7.8	7.6	7.6	7.6	7.2
25		7.6	7.6	7.5	7.7	7.2	7.5	7.6	7.2
50		7.4	7.5	7.4	7.5	7.1	7.3	7.5	7.2
100		7	7	7.2	7.3	7.1	7.3	7.3	7

Temperature-°C

C-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	24	24.1	24.3	24	24.2	24.3	24	24
6.25		24.1	24.3	24.5	24	24	24.4	24.3	24.6
12.5		24.2	24.8	25	24	24.7	24.6	24.6	24
25		24.2	24.8	25	24	24.7	24.6	24.6	24
50		24.2	25.4	25.6	24	24.9	25	25	24
100		24.2	25.6	25.8	24	25	25.9	26	24

aquatic bioassay & consulting laboratories, inc

January 4th, 2013

Mr. Arne Anselm
Ventura County Watershed Protection District
800 South Victoria Ave
Ventura, CA 93009

Dear Mr. Anselm:

We are pleased to present the enclosed revised bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms" EPA-821-R-02-013.* Results were as follows:

CLIENT:	Ventura County Flood Control
SAMPLE I.D.:	MO-OXN
DATE RECEIVED:	11/17/2012
ABC LAB. NO.:	VCF1112.258

CHRONIC FATHEAD SURVIVAL & GROWTH BIOASSAY

SURVIVAL	NOEC =	100.00 %
	TUc =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00 %
REPRODUCTION	NOEC =	100.00 %
	TUc =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00 %

Yours very truly,

Scott Johnson
Laboratory Director

CETIS Summary Report

Report Date: 04 Jan-13 11:59 (p 1 of 2)
Test Code: VCF1112.258fml | 08-5896-2093

Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Batch ID:	15-8309-2020	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	20 Nov-12 16:28	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	27 Nov-12 14:35	**Species:**	Pimephales promelas	**Brine:**	Not Applicable
Duration:	6d 22h	**Source:**	Aquatic Biosystems, CO	**Age:**	

Sample ID:	15-8784-5418	**Code:**	VCF1112.258f	**Client:**	VCWPD
Sample Date:	17 Nov-12 08:34	**Material:**	Sample Water	**Project:**	2012/13-2 (Wet)
Receive Date:	17 Nov-12 12:42	**Source:**	Bioassay Report		
Sample Age:	80h	**Station:**	MO-OXN		

Comparison Summary

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
18-2589-6226	7d Survival Rate	100	>100	NA	5.26%	1	Steel Many-One Rank Sum Test
06-9998-9284	Mean Dry Biomass-mg	100	>100	NA	11.3%	1	Dunnett Multiple Comparison Test

Point Estimate Summary

Analysis ID	Endpoint	Level	%	95% LCL	95% UCL	TU	Method
00-9281-4680	7d Survival Rate	EC5	75	N/A	N/A	1.333	Linear Interpolation (ICPIN)
		EC10	>100	N/A	N/A	<1	
		EC15	>100	N/A	N/A	<1	
		EC20	>100	N/A	N/A	<1	
		EC25	>100	N/A	N/A	<1	
		EC40	>100	N/A	N/A	<1	
		EC50	>100	N/A	N/A	<1	
00-7728-7069	Mean Dry Biomass-mg	IC5	>100	N/A	N/A	<1	Linear Interpolation (ICPIN)
		IC10	>100	N/A	N/A	<1	
		IC15	>100	N/A	N/A	<1	
		IC20	>100	N/A	N/A	<1	
		IC25	>100	N/A	N/A	<1	
		IC40	>100	N/A	N/A	<1	
		IC50	>100	N/A	N/A	<1	

Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits	Overlap	Decision
00-9281-4680	7d Survival Rate	Control Resp	1	0.8 - NL	Yes	Passes Acceptability Criteria
18-2589-6226	7d Survival Rate	Control Resp	1	0.8 - NL	Yes	Passes Acceptability Criteria
00-7728-7069	Mean Dry Biomass-mg	Control Resp	0.28	0.25 - NL	Yes	Passes Acceptability Criteria
06-9998-9284	Mean Dry Biomass-mg	Control Resp	0.28	0.25 - NL	Yes	Passes Acceptability Criteria
06-9998-9284	Mean Dry Biomass-mg	PMSD	0.1128	0.12 - 0.3	Yes	Below Acceptability Criteria

7d Survival Rate Summary

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Negative Contro	4	1	1	1	1	1	0	0	0.0%	0.0%
6.25		4	1	1	1	1	1	0	0	0.0%	0.0%
12.5		4	1	1	1	1	1	0	0	0.0%	0.0%
25		4	0.9667	0.9054	1	0.9333	1	0.01925	0.03849	3.98%	3.33%
50		4	0.9667	0.9054	1	0.9333	1	0.01925	0.03849	3.98%	3.33%
100		4	0.9333	0.8467	1	0.8667	1	0.02722	0.05443	5.83%	6.67%

Mean Dry Biomass-mg Summary

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Negative Contro	4	0.28	0.2556	0.3044	0.2667	0.2967	0.007655	0.01531	5.47%	0.0%
6.25		4	0.28	0.2574	0.3026	0.2613	0.292	0.007092	0.01418	5.07%	0.0%
12.5		4	0.2822	0.2584	0.306	0.2693	0.302	0.00748	0.01496	5.3%	-0.77%
25		4	0.2675	0.2519	0.2831	0.2607	0.282	0.004887	0.009773	3.65%	4.46%
50		4	0.3012	0.2645	0.3378	0.2753	0.3273	0.01153	0.02305	7.65%	-7.56%
100		4	0.276	0.2316	0.3204	0.2393	0.306	0.01396	0.02792	10.12%	1.43%

Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

7d Survival Rate Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Contro	1	1	1	1
6.25		1	1	1	1
12.5		1	1	1	1
25		0.9333	1	1	0.9333
50		0.9333	1	1	0.9333
100		0.8667	0.9333	1	0.9333

Mean Dry Biomass-mg Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Contro	0.2893	0.2673	0.2967	0.2667
6.25		0.29	0.2613	0.2767	0.292
12.5		0.302	0.2693	0.272	0.2853
25		0.2607	0.2633	0.282	0.264
50		0.2753	0.312	0.3273	0.29
100		0.2393	0.306	0.2733	0.2853

7d Survival Rate Binomials

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Contro	15/15	15/15	15/15	15/15
6.25		15/15	15/15	15/15	15/15
12.5		15/15	15/15	15/15	15/15
25		14/15	15/15	15/15	14/15
50		14/15	15/15	15/15	14/15
100		13/15	14/15	15/15	14/15

CETIS Analytical Report

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	18-2589-6226	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:28	**Analysis:**	Nonparametric-Control vs Treatments	**Official Results:**	Yes

Batch ID:	15-8309-2020	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	20 Nov-12 16:28	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	27 Nov-12 14:35	**Species:**	Pimephales promelas	**Brine:**	Not Applicable
Duration:	6d 22h	**Source:**	Aquatic Biosystems, CO	**Age:**	

Sample ID:	15-8784-5418	**Code:**	VCF1112.258f	**Client:**	VCWPD
Sample Date:	17 Nov-12 08:34	**Material:**	Sample Water	**Project:**	2012/13-2 (Wet)
Receive Date:	17 Nov-12 12:42	**Source:**	Bioassay Report		
Sample Age:	80h	**Station:**	MO-OXN		

Data Transform	Zeta	Alt Hyp	Trials	Seed	PMSD	NOEL	LOEL	TOEL	TU
Angular (Corrected)	NA	C > T	NA	NA	5.26%	100	>100	NA	1

Steel Many-One Rank Sum Test

Control	vs	C-%	Test Stat	Critical	Ties	DF	P-Value	P-Type	Decision(α:5%)
Negative Control		6.25	18	10	1	6	0.8333	Asymp	Non-Significant Effect
		12.5	18	10	1	6	0.8333	Asymp	Non-Significant Effect
		25	14	10	1	6	0.3451	Asymp	Non-Significant Effect
		50	14	10	1	6	0.3451	Asymp	Non-Significant Effect
		100	12	10	1	6	0.1424	Asymp	Non-Significant Effect

Test Acceptability Criteria

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	1	0.8 - NL	Yes	Passes Acceptability Criteria

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	0.05454187	0.01090837	5	3.038	0.0368	Significant Effect
Error	0.06462777	0.003590432	18			
Total	0.1191696		23			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Mod Levene Equality of Variance	5.919	4.248	0.0021	Unequal Variances
Variances	Levene Equality of Variance	6.614	4.248	0.0012	Unequal Variances
Distribution	Shapiro-Wilk W Normality	0.8726	0.884	0.0059	Non-normal Distribution
Distribution	Kolmogorov-Smirnov D	0.2917	0.2056	<0.0001	Non-normal Distribution
Distribution	D'Agostino Skewness	0.3054	2.576	0.7601	Normal Distribution
Distribution	D'Agostino Kurtosis	1.062	2.576	0.2880	Normal Distribution
Distribution	D'Agostino-Pearson K2 Omnibus	1.222	9.21	0.5428	Normal Distribution
Distribution	Anderson-Darling A2 Normality	1.967	3.878	<0.0001	Non-normal Distribution

7d Survival Rate Summary

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	Negative Control	4	1	1	1	1	1	1	0	0.0%	0.0%
6.25		4	1	1	1	1	1	1	0	0.0%	0.0%
12.5		4	1	1	1	1	1	1	0	0.0%	0.0%
25		4	0.9667	0.9054	1	0.9667	0.9333	1	0.01924	3.98%	3.33%
50		4	0.9667	0.9054	1	0.9667	0.9333	1	0.01924	3.98%	3.33%
100		4	0.9333	0.8467	1	0.9333	0.8667	1	0.02722	5.83%	6.67%

Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	18-2589-6226	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:28	**Analysis:**	Nonparametric-Control vs Treatments	**Official Results:**	Yes

Angular (Corrected) Transformed Summary

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	Negative Contr	4	1.441	1.441	1.442	1.441	1.441	1.441	0	0.0%	0.0%
6.25		4	1.441	1.441	1.442	1.441	1.441	1.441	0	0.0%	0.0%
12.5		4	1.441	1.441	1.442	1.441	1.441	1.441	0	0.0%	0.0%
25		4	1.375	1.254	1.496	1.375	1.31	1.441	0.03802	5.53%	4.57%
50		4	1.375	1.254	1.496	1.375	1.31	1.441	0.03802	5.53%	4.57%
100		4	1.314	1.155	1.473	1.31	1.197	1.441	0.04995	7.6%	8.81%

7d Survival Rate Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1	1	1	1
6.25		1	1	1	1
12.5		1	1	1	1
25		0.9333	1	1	0.9333
50		0.9333	1	1	0.9333
100		0.8667	0.9333	1	0.9333

Angular (Corrected) Transformed Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1.441	1.441	1.441	1.441
6.25		1.441	1.441	1.441	1.441
12.5		1.441	1.441	1.441	1.441
25		1.31	1.441	1.441	1.31
50		1.31	1.441	1.441	1.31
100		1.197	1.31	1.441	1.31

7d Survival Rate Binomials

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Contro	15/15	15/15	15/15	15/15
6.25		15/15	15/15	15/15	15/15
12.5		15/15	15/15	15/15	15/15
25		14/15	15/15	15/15	14/15
50		14/15	15/15	15/15	14/15
100		13/15	14/15	15/15	14/15

Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	06-9998-9284	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:28	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Batch ID:	15-8309-2020	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	20 Nov-12 16:28	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	27 Nov-12 14:35	**Species:**	Pimephales promelas	**Brine:**	Not Applicable
Duration:	6d 22h	**Source:**	Aquatic Biosystems, CO	**Age:**	

Sample ID:	15-8784-5418	**Code:**	VCF1112.258f	**Client:**	VCWPD
Sample Date:	17 Nov-12 08:34	**Material:**	Sample Water	**Project:**	2012/13-2 (Wet)
Receive Date:	17 Nov-12 12:42	**Source:**	Bioassay Report		
Sample Age:	80h	**Station:**	MO-OXN		

Data Transform	Zeta	Alt Hyp	Trials	Seed	PMSD	NOEL	LOEL	TOEL	TU
Untransformed	NA	C > T	NA	NA	11.3%	100	>100	NA	1

Dunnett Multiple Comparison Test

Control vs	C-%	Test Stat	Critical	MSD	DF	P-Value	P-Type	Decision(α:5%)
Negative Control	6.25	5.68E-07	2.407	0.032	6	0.8333	CDF	Non-Significant Effect
	12.5	-0.1651	2.407	0.032	6	0.8773	CDF	Non-Significant Effect
	25	0.9527	2.407	0.032	6	0.4429	CDF	Non-Significant Effect
	50	-1.613	2.407	0.032	6	0.9971	CDF	Non-Significant Effect
	100	0.3049	2.407	0.032	6	0.7284	CDF	Non-Significant Effect

Test Acceptability Criteria

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.28	0.25 - NL	Yes	Passes Acceptability Criteria
PMSD	0.1128	0.12 - 0.3	Yes	Below Acceptability Criteria

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	0.002468757	0.0004937515	5	1.434	0.2598	Non-Significant Effect
Error	0.006197444	0.0003443024	18			
Total	0.008666201		23			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Bartlett Equality of Variance	3.675	15.09	0.5971	Equal Variances
Variances	Mod Levene Equality of Variance	1.175	4.248	0.3598	Equal Variances
Variances	Levene Equality of Variance	1.173	4.248	0.3604	Equal Variances
Distribution	Shapiro-Wilk W Normality	0.9806	0.884	0.9068	Normal Distribution
Distribution	Kolmogorov-Smirnov D	0.1318	0.2056	0.3417	Normal Distribution
Distribution	D'Agostino Skewness	0.3956	2.576	0.6924	Normal Distribution
Distribution	D'Agostino Kurtosis	0.07714	2.576	0.9385	Normal Distribution
Distribution	D'Agostino-Pearson K2 Omnibus	0.1624	9.21	0.9220	Normal Distribution
Distribution	Anderson-Darling A2 Normality	0.2667	3.878	0.7161	Normal Distribution

Mean Dry Biomass-mg Summary

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	Negative Control	4	0.28	0.2556	0.3044	0.2783	0.2667	0.2967	0.007655	5.47%	0.0%
6.25		4	0.28	0.2574	0.3026	0.2833	0.2613	0.292	0.007092	5.07%	0.0%
12.5		4	0.2822	0.2584	0.306	0.2787	0.2693	0.302	0.00748	5.3%	-0.77%
25		4	0.2675	0.2519	0.2831	0.2637	0.2607	0.282	0.004887	3.65%	4.46%
50		4	0.3012	0.2645	0.3378	0.301	0.2753	0.3273	0.01153	7.65%	-7.56%
100		4	0.276	0.2316	0.3204	0.2793	0.2393	0.306	0.01396	10.12%	1.43%

Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	06-9998-9284	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:28	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Mean Dry Biomass-mg Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.2893	0.2673	0.2967	0.2667
6.25		0.29	0.2613	0.2767	0.292
12.5		0.302	0.2693	0.272	0.2853
25		0.2607	0.2633	0.282	0.264
50		0.2753	0.312	0.3273	0.29
100		0.2393	0.306	0.2733	0.2853

CETIS Analytical Report

Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	00-9281-4680	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:28	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Batch ID:	15-8309-2020	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	20 Nov-12 16:28	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	27 Nov-12 14:35	**Species:**	Pimephales promelas	**Brine:**	Not Applicable
Duration:	6d 22h	**Source:**	Aquatic Biosystems, CO	**Age:**	

Sample ID:	15-8784-5418	**Code:**	VCF1112.258f	**Client:**	VCWPD
Sample Date:	17 Nov-12 08:34	**Material:**	Sample Water	**Project:**	2012/13-2 (Wet)
Receive Date:	17 Nov-12 12:42	**Source:**	Bioassay Report		
Sample Age:	80h	**Station:**	MO-OXN		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	0	280	Yes	Two-Point Interpolation

Test Acceptability Criteria

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	1	0.8 - NL	Yes	Passes Acceptability Criteria

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
EC5	75	N/A	N/A	1.333	NA	NA
EC10	>100	N/A	N/A	<1	NA	NA
EC15	>100	N/A	N/A	<1	NA	NA
EC20	>100	N/A	N/A	<1	NA	NA
EC25	>100	N/A	N/A	<1	NA	NA
EC40	>100	N/A	N/A	<1	NA	NA
EC50	>100	N/A	N/A	<1	NA	NA

7d Survival Rate Summary

			Calculated Variate(A/B)								
C-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	%Effect	A	B
0	Negative Control	4	1	1	1	0	0	0.0%	0.0%	60	60
6.25		4	1	1	1	0	0	0.0%	0.0%	60	60
12.5		4	1	1	1	0	0	0.0%	0.0%	60	60
25		4	0.9667	0.9333	1	0.01924	0.03849	3.98%	3.33%	58	60
50		4	0.9667	0.9333	1	0.01924	0.03849	3.98%	3.33%	58	60
100		4	0.9333	0.8667	1	0.02722	0.05443	5.83%	6.67%	56	60

7d Survival Rate Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1	1	1	1
6.25		1	1	1	1
12.5		1	1	1	1
25		0.9333	1	1	0.9333
50		0.9333	1	1	0.9333
100		0.8667	0.9333	1	0.9333

7d Survival Rate Binomials

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Contro	15/15	15/15	15/15	15/15
6.25		15/15	15/15	15/15	15/15
12.5		15/15	15/15	15/15	15/15
25		14/15	15/15	15/15	14/15
50		14/15	15/15	15/15	14/15
100		13/15	14/15	15/15	14/15

Analysis ID:	00-9281-4680	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:28	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	00-7728-7069	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:28	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Batch ID:	15-8309-2020	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	20 Nov-12 16:28	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	27 Nov-12 14:35	**Species:**	Pimephales promelas	**Brine:**	Not Applicable
Duration:	6d 22h	**Source:**	Aquatic Biosystems, CO	**Age:**	

Sample ID:	15-8784-5418	**Code:**	VCF1112.258f	**Client:**	VCWPD
Sample Date:	17 Nov-12 08:34	**Material:**	Sample Water	**Project:**	2012/13-2 (Wet)
Receive Date:	17 Nov-12 12:42	**Source:**	Bioassay Report		
Sample Age:	80h	**Station:**	MO-OXN		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	950886	280	Yes	Two-Point Interpolation

Test Acceptability Criteria

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.28	0.25 - NL	Yes	Passes Acceptability Criteria

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
IC5	>100	N/A	N/A	<1	NA	NA
IC10	>100	N/A	N/A	<1	NA	NA
IC15	>100	N/A	N/A	<1	NA	NA
IC20	>100	N/A	N/A	<1	NA	NA
IC25	>100	N/A	N/A	<1	NA	NA
IC40	>100	N/A	N/A	<1	NA	NA
IC50	>100	N/A	N/A	<1	NA	NA

Mean Dry Biomass-mg Summary

			Calculated Variate						
C-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Negative Control	4	0.28	0.2667	0.2967	0.007655	0.01531	5.47%	0.0%
6.25		4	0.28	0.2613	0.292	0.007092	0.01418	5.07%	0.0%
12.5		4	0.2822	0.2693	0.302	0.00748	0.01496	5.3%	-0.77%
25		4	0.2675	0.2607	0.282	0.004887	0.009773	3.65%	4.46%
50		4	0.3012	0.2753	0.3273	0.01153	0.02305	7.65%	-7.56%
100		4	0.276	0.2393	0.306	0.01396	0.02792	10.12%	1.43%

Mean Dry Biomass-mg Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.2893	0.2673	0.2967	0.2667
6.25		0.29	0.2613	0.2767	0.292
12.5		0.302	0.2693	0.272	0.2853
25		0.2607	0.2633	0.282	0.264
50		0.2753	0.312	0.3273	0.29
100		0.2393	0.306	0.2733	0.2853

Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	00-7728-7069	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:28	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

CETIS Measurement Report

Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Batch ID:	15-8309-2020	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	20 Nov-12 16:28	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	27 Nov-12 14:35	**Species:**	Pimephales promelas	**Brine:**	Not Applicable
Duration:	6d 22h	**Source:**	Aquatic Biosystems, CO	**Age:**	

Sample ID:	15-8784-5418	**Code:**	VCF1112.258f	**Client:**	VCWPD
Sample Date:	17 Nov-12 08:34	**Material:**	Sample Water	**Project:**	2012/13-2 (Wet)
Receive Date:	17 Nov-12 12:42	**Source:**	Bioassay Report		
Sample Age:	80h	**Station:**	MO-OXN		

Alkalinity (CaCO3)-mg/L

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	60.63	60.19	61.06	60	61	0.183	0.5175	0.85%	0
100		8	30	30	30	30	30	0	0	0.0%	0
Overall		16	45.31			30	61				0 (0%)

Conductivity-µmhos

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	347.1	343.8	350.4	344	356	1.394	3.944	1.14%	0
6.25		8	329.1	326.5	331.8	325	333	1.125	3.182	0.97%	0
12.5		8	322.5	320.7	324.3	320	325	0.7792	2.204	0.68%	0
25		8	310.4	308.2	312.5	307	315	0.9051	2.56	0.82%	0
50		8	284.6	281.6	287.7	279	289	1.295	3.662	1.29%	0
100		8	225.1	223.4	226.8	222	229	0.7181	2.031	0.9%	0
Overall		48	303.1			222	356				0 (0%)

Dissolved Oxygen-mg/L

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	8.075	7.819	8.331	7.8	8.5	0.1081	0.3059	3.79%	0
6.25		8	7.588	6.775	8.4	5.3	8.6	0.3435	0.9717	12.81%	0
12.5		8	7.288	6.121	8.454	4	8.7	0.4933	1.395	19.15%	0
25		8	7.088	5.987	8.188	4	8.5	0.4654	1.316	18.57%	0
50		8	6.85	5.731	7.969	4	8.5	0.4732	1.338	19.54%	0
100		8	6.563	5.307	7.818	4	8.1	0.5308	1.501	22.88%	0
Overall		48	7.242			4	8.7				0 (0%)

Hardness (CaCO3)-mg/L

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	93.13	91.83	94.42	92	95	0.5489	1.553	1.67%	0
100		8	57	57	57	57	57	0	0	0.0%	0
Overall		16	75.06			57	95				0 (0%)

pH-Units

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.913	7.883	7.942	7.9	8	0.01249	0.03533	0.45%	0
6.25		8	7.713	7.575	7.85	7.4	7.9	0.05806	0.1642	2.13%	0
12.5		8	7.663	7.515	7.81	7.3	7.9	0.0625	0.1768	2.31%	0
25		8	310.4	308.2	312.5	307	315	0.9051	2.56	0.82%	0
50		8	7.425	7.265	7.585	7.1	7.7	0.06748	0.1909	2.57%	0
100		8	7.325	7.05	7.6	6.9	7.9	0.1161	0.3284	4.48%	0
Overall		48	58.07			6.9	315				0 (0%)

Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Temperature-°C

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	24.11	24	24.23	24	24.3	0.04795	0.1356	0.56%	0
6.25		8	24.34	24.11	24.57	24	24.7	0.09808	0.2774	1.14%	0
12.5		8	24.36	24.08	24.65	24	24.9	0.1209	0.342	1.4%	0
25		8	7.088	5.987	8.188	4	8.5	0.4654	1.316	18.57%	0
50		8	24.95	24.18	25.72	24	26	0.3251	0.9196	3.69%	0
100		8	25.08	24.35	25.8	24	26	0.3075	0.8697	3.47%	0
Overall		48	21.65			4	26				0 (0%)

Alkalinity (CaCO3)-mg/L

C-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	61	61	61	61	61	60	60	60
100		30	30	30	30	30	30	30	30

Conductivity-µmhos

C-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	344	344	348	345	347	348	345	356
6.25		325	325	330	330	330	333	333	327
12.5		322	321	325	322	325	325	320	320
25		309	308	310	310	312	312	315	307
50		282	279	285	285	288	289	288	281
100		226	224	225	222	224	225	229	226

Dissolved Oxygen-mg/L

C-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	8.4	8.5	8	7.8	7.8	7.9	7.8	8.4
6.25		8.6	8	7.9	7.8	7.7	7.7	7.7	5.3
12.5		8.7	7.8	7.2	7.7	7.7	7.7	7.5	4
25		8.5	7.3	7.1	7.3	7.5	7.5	7.5	4
50		8.5	6	7	7.2	7.3	7.3	7.5	4
100		8.1	4.4	7	7.1	7.2	7.2	7.5	4

Hardness (CaCO3)-mg/L

C-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	92	92	92	92	92	95	95	95
100		57	57	57	57	57	57	57	57

pH-Units

C-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	8	7.9	7.9	7.9	7.9	7.9	7.9	7.9
6.25		7.6	7.6	7.8	7.8	7.8	7.8	7.9	7.4
12.5		7.6	7.6	7.7	7.7	7.7	7.8	7.9	7.3
25		309	308	310	310	312	312	315	307
50		7.5	7.2	7.4	7.5	7.5	7.5	7.7	7.1
100		7.3	6.9	7.2	7.2	7.9	7.5	7.6	7

Temperature-°C

C-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	24	24.1	24.3	24	24.2	24.3	24	24
6.25		24.2	24.6	24.7	24	24.4	24.2	24.6	24
12.5		24.2	24.8	24.9	24	24.5	24.2	24.3	24
25		8.5	7.3	7.1	7.3	7.5	7.5	7.5	4
50		24.2	26	25.9	24	24.2	25.7	25.6	24
100		24.2	26	25.9	24	25.2	25.7	25.6	24

aquatic bioassay & consulting laboratories, inc

January 4th, 2013

Mr. Arne Anselm
Ventura County Watershed Protection District
800 South Victoria Ave
Ventura, CA 93009

Dear Mr. Anselm:

We are pleased to present the enclosed revised bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms" EPA-821-R-02-013.* Results were as follows:

CLIENT:	Ventura County Flood Control
SAMPLE I.D.:	MO-CAM
DATE RECEIVED:	11/17/2012
ABC LAB. NO.:	VCF1112.261

CHRONIC FATHEAD SURVIVAL & GROWTH BIOASSAY

SURVIVAL	NOEC =	100.00 %
	TUc =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00 %
REPRODUCTION	NOEC =	100.00 %
	TUc =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00 %

Yours very truly,

Scott Johnson
Laboratory Director

CETIS Summary Report

Report Date: 04 Jan-13 11:59 (p 1 of 2)
Test Code: VCF1112.261fml | 07-1896-8878

Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Batch ID:	20-2106-3514	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	20 Nov-12 16:38	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	27 Nov-12 14:40	**Species:**	Pimephales promelas	**Brine:**	Not Applicable
Duration:	6d 22h	**Source:**	Aquatic Biosystems, CO	**Age:**	

Sample ID:	07-3174-8412	**Code:**	VCF1112.261f	**Client:**	VCWPD
Sample Date:	17 Nov-12 09:25	**Material:**	Sample Water	**Project:**	2012/13-2 (Wet)
Receive Date:	17 Nov-12 12:42	**Source:**	Bioassay Report		
Sample Age:	79h	**Station:**	MO-CAM		

Comparison Summary

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
09-2031-8096	7d Survival Rate	100	>100	NA	7.2%	1	Steel Many-One Rank Sum Test
19-5771-8506	Mean Dry Biomass-mg	100	>100	NA	17.9%	1	Dunnett Multiple Comparison Test

Point Estimate Summary

Analysis ID	Endpoint	Level	%	95% LCL	95% UCL	TU	Method
01-8212-1800	7d Survival Rate	EC5	>100	N/A	N/A	<1	Linear Interpolation (ICPIN)
		EC10	>100	N/A	N/A	<1	
		EC15	>100	N/A	N/A	<1	
		EC20	>100	N/A	N/A	<1	
		EC25	>100	N/A	N/A	<1	
		EC40	>100	N/A	N/A	<1	
		EC50	>100	N/A	N/A	<1	
15-7956-4882	Mean Dry Biomass-mg	IC5	>100	N/A	N/A	<1	Linear Interpolation (ICPIN)
		IC10	>100	N/A	N/A	<1	
		IC15	>100	N/A	N/A	<1	
		IC20	>100	N/A	N/A	<1	
		IC25	>100	N/A	N/A	<1	
		IC40	>100	N/A	N/A	<1	
		IC50	>100	N/A	N/A	<1	

Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits	Overlap	Decision
01-8212-1800	7d Survival Rate	Control Resp	1	0.8 - NL	Yes	Passes Acceptability Criteria
09-2031-8096	7d Survival Rate	Control Resp	1	0.8 - NL	Yes	Passes Acceptability Criteria
15-7956-4882	Mean Dry Biomass-mg	Control Resp	0.2637	0.25 - NL	Yes	Passes Acceptability Criteria
19-5771-8506	Mean Dry Biomass-mg	Control Resp	0.2637	0.25 - NL	Yes	Passes Acceptability Criteria
19-5771-8506	Mean Dry Biomass-mg	PMSD	0.1789	0.12 - 0.3	Yes	Passes Acceptability Criteria

7d Survival Rate Summary

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Negative Contro	4	1	1	1	1	1	0	0	0.0%	0.0%
6.25		4	0.9833	0.9303	1	0.9333	1	0.01667	0.03333	3.39%	1.67%
12.5		4	0.9833	0.9303	1	0.9333	1	0.01667	0.03333	3.39%	1.67%
25		4	0.95	0.8484	1	0.8667	1	0.03191	0.06383	6.72%	5.0%
50		4	0.9833	0.9303	1	0.9333	1	0.01667	0.03333	3.39%	1.67%
100		4	0.9667	0.8606	1	0.8667	1	0.03333	0.06667	6.9%	3.33%

Mean Dry Biomass-mg Summary

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Negative Contro	4	0.2637	0.2163	0.311	0.2333	0.3013	0.01487	0.02974	11.28%	0.0%
6.25		4	0.2817	0.2264	0.3369	0.2473	0.3293	0.01737	0.03474	12.33%	-6.83%
12.5		4	0.2863	0.2265	0.3461	0.2333	0.3147	0.01879	0.03758	13.12%	-8.6%
25		4	0.2895	0.2532	0.3258	0.2633	0.314	0.0114	0.02279	7.87%	-9.8%
50		4	0.3113	0.279	0.3437	0.2887	0.336	0.01017	0.02035	6.54%	-18.08%
100		4	0.2967	0.2759	0.3175	0.2793	0.3107	0.006538	0.01308	4.41%	-12.52%

7d Survival Rate Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Contro	1	1	1	1
6.25		1	0.9333	1	1
12.5		0.9333	1	1	1
25		0.8667	0.9333	1	1
50		1	1	1	0.9333
100		1	1	0.8667	1

Mean Dry Biomass-mg Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Contro	0.248	0.272	0.3013	0.2333
6.25		0.3293	0.2473	0.2687	0.2813
12.5		0.3147	0.286	0.3113	0.2333
25		0.2633	0.2787	0.302	0.314
50		0.318	0.2887	0.3027	0.336
100		0.3107	0.3007	0.2793	0.296

7d Survival Rate Binomials

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Contro	15/15	15/15	15/15	15/15
6.25		15/15	14/15	15/15	15/15
12.5		14/15	15/15	15/15	15/15
25		13/15	14/15	15/15	15/15
50		15/15	15/15	15/15	14/15
100		15/15	15/15	13/15	15/15

CETIS Analytical Report

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	09-2031-8096	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:29	**Analysis:**	Nonparametric-Control vs Treatments	**Official Results:**	Yes

Batch ID:	20-2106-3514	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	20 Nov-12 16:38	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	27 Nov-12 14:40	**Species:**	Pimephales promelas	**Brine:**	Not Applicable
Duration:	6d 22h	**Source:**	Aquatic Biosystems, CO	**Age:**	

Sample ID:	07-3174-8412	**Code:**	VCF1112.261f	**Client:**	VCWPD
Sample Date:	17 Nov-12 09:25	**Material:**	Sample Water	**Project:**	2012/13-2 (Wet)
Receive Date:	17 Nov-12 12:42	**Source:**	Bioassay Report		
Sample Age:	79h	**Station:**	MO-CAM		

Data Transform	Zeta	Alt Hyp	Trials	Seed	PMSD	NOEL	LOEL	TOEL	TU
Angular (Corrected)	NA	C > T	NA	NA	7.2%	100	>100	NA	1

Steel Many-One Rank Sum Test

Control	vs	C-%	Test Stat	Critical	Ties	DF	P-Value	P-Type	Decision(α:5%)
Negative Control		6.25	16	10	1	6	0.6105	Asymp	Non-Significant Effect
		12.5	16	10	1	6	0.6105	Asymp	Non-Significant Effect
		25	14	10	1	6	0.3451	Asymp	Non-Significant Effect
		50	16	10	1	6	0.6105	Asymp	Non-Significant Effect
		100	16	10	1	6	0.6105	Asymp	Non-Significant Effect

Test Acceptability Criteria

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	1	0.8 - NL	Yes	Passes Acceptability Criteria

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	0.02031768	0.004063535	5	0.5829	0.7128	Non-Significant Effect
Error	0.12549	0.006971664	18			
Total	0.1458076		23			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Mod Levene Equality of Variance	0.7839	4.248	0.5745	Equal Variances
Variances	Levene Equality of Variance	3.155	4.248	0.0322	Equal Variances
Distribution	Shapiro-Wilk W Normality	0.851	0.884	0.0023	Non-normal Distribution
Distribution	Kolmogorov-Smirnov D	0.2554	0.2056	0.0003	Non-normal Distribution
Distribution	D'Agostino Skewness	2.339	2.576	0.0193	Normal Distribution
Distribution	D'Agostino Kurtosis	0.8598	2.576	0.3899	Normal Distribution
Distribution	D'Agostino-Pearson K2 Omnibus	6.211	9.21	0.0448	Normal Distribution
Distribution	Anderson-Darling A2 Normality	1.799	3.878	<0.0001	Non-normal Distribution

7d Survival Rate Summary

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	Negative Control	4	1	1	1	1	1	1	0	0.0%	0.0%
6.25		4	0.9833	0.9303	1	1	0.9333	1	0.01667	3.39%	1.67%
12.5		4	0.9833	0.9303	1	1	0.9333	1	0.01667	3.39%	1.67%
25		4	0.95	0.8484	1	0.9667	0.8667	1	0.03191	6.72%	5.0%
50		4	0.9833	0.9303	1	1	0.9333	1	0.01667	3.39%	1.67%
100		4	0.9667	0.8606	1	1	0.8667	1	0.03333	6.9%	3.33%

Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	09-2031-8096	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:29	**Analysis:**	Nonparametric-Control vs Treatments	**Official Results:**	Yes

Angular (Corrected) Transformed Summary

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	Negative Contr	4	1.441	1.441	1.442	1.441	1.441	1.441	0	0.0%	0.0%
6.25		4	1.408	1.304	1.513	1.441	1.31	1.441	0.03292	4.68%	2.28%
12.5		4	1.408	1.304	1.513	1.441	1.31	1.441	0.03292	4.68%	2.28%
25		4	1.347	1.16	1.535	1.375	1.197	1.441	0.05894	8.75%	6.52%
50		4	1.408	1.304	1.513	1.441	1.31	1.441	0.03292	4.68%	2.28%
100		4	1.38	1.186	1.575	1.441	1.197	1.441	0.06108	8.85%	4.24%

7d Survival Rate Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1	1	1	1
6.25		1	0.9333	1	1
12.5		0.9333	1	1	1
25		0.8667	0.9333	1	1
50		1	1	1	0.9333
100		1	1	0.8667	1

Angular (Corrected) Transformed Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1.441	1.441	1.441	1.441
6.25		1.441	1.31	1.441	1.441
12.5		1.31	1.441	1.441	1.441
25		1.197	1.31	1.441	1.441
50		1.441	1.441	1.441	1.31
100		1.441	1.441	1.197	1.441

7d Survival Rate Binomials

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Contro	15/15	15/15	15/15	15/15
6.25		15/15	14/15	15/15	15/15
12.5		14/15	15/15	15/15	15/15
25		13/15	14/15	15/15	15/15
50		15/15	15/15	15/15	14/15
100		15/15	15/15	13/15	15/15

Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	19-5771-8506	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:29	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Batch ID:	20-2106-3514	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	20 Nov-12 16:38	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	27 Nov-12 14:40	**Species:**	Pimephales promelas	**Brine:**	Not Applicable
Duration:	6d 22h	**Source:**	Aquatic Biosystems, CO	**Age:**	

Sample ID:	07-3174-8412	**Code:**	VCF1112.261f	**Client:**	VCWPD
Sample Date:	17 Nov-12 09:25	**Material:**	Sample Water	**Project:**	2012/13-2 (Wet)
Receive Date:	17 Nov-12 12:42	**Source:**	Bioassay Report		
Sample Age:	79h	**Station:**	MO-CAM		

Data Transform	Zeta	Alt Hyp	Trials	Seed	PMSD	NOEL	LOEL	TOEL	TU
Untransformed	NA	C > T	NA	NA	17.9%	100	>100	NA	1

Dunnett Multiple Comparison Test

Control vs	C-%	Test Stat	Critical	MSD	DF	P-Value	P-Type	Decision(α:5%)
Negative Control	6.25	-0.9186	2.407	0.047	6	0.9785	CDF	Non-Significant Effect
	12.5	-1.157	2.407	0.047	6	0.9888	CDF	Non-Significant Effect
	25	-1.318	2.407	0.047	6	0.9929	CDF	Non-Significant Effect
	50	-2.432	2.407	0.047	6	0.9998	CDF	Non-Significant Effect
	100	-1.684	2.407	0.047	6	0.9976	CDF	Non-Significant Effect

Test Acceptability Criteria

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.2637	0.25 - NL	Yes	Passes Acceptability Criteria
PMSD	0.1789	0.12 - 0.3	Yes	Passes Acceptability Criteria

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	0.005026314	0.001005263	5	1.309	0.3041	Non-Significant Effect
Error	0.01382389	0.0007679938	18			
Total	0.0188502		23			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Bartlett Equality of Variance	3.476	15.09	0.6270	Equal Variances
Variances	Mod Levene Equality of Variance	0.6198	4.248	0.6865	Equal Variances
Variances	Levene Equality of Variance	0.7659	4.248	0.5862	Equal Variances
Distribution	Shapiro-Wilk W Normality	0.9913	0.884	0.9984	Normal Distribution
Distribution	Kolmogorov-Smirnov D	0.09119	0.2056	0.9990	Normal Distribution
Distribution	D'Agostino Skewness	0.1776	2.576	0.8590	Normal Distribution
Distribution	D'Agostino Kurtosis	0.1516	2.576	0.8795	Normal Distribution
Distribution	D'Agostino-Pearson K2 Omnibus	0.05455	9.21	0.9731	Normal Distribution
Distribution	Anderson-Darling A2 Normality	0.1314	3.878	1.0000	Normal Distribution

Mean Dry Biomass-mg Summary

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	Negative Control	4	0.2637	0.2163	0.311	0.26	0.2333	0.3013	0.01487	11.28%	0.0%
6.25		4	0.2817	0.2264	0.3369	0.275	0.2473	0.3293	0.01737	12.33%	-6.83%
12.5		4	0.2863	0.2265	0.3461	0.2987	0.2333	0.3147	0.01879	13.12%	-8.6%
25		4	0.2895	0.2532	0.3258	0.2903	0.2633	0.314	0.0114	7.87%	-9.8%
50		4	0.3113	0.279	0.3437	0.3103	0.2887	0.336	0.01017	6.54%	-18.08%
100		4	0.2967	0.2759	0.3175	0.2983	0.2793	0.3107	0.006538	4.41%	-12.52%

Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	19-5771-8506	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:29	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Mean Dry Biomass-mg Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.248	0.272	0.3013	0.2333
6.25		0.3293	0.2473	0.2687	0.2813
12.5		0.3147	0.286	0.3113	0.2333
25		0.2633	0.2787	0.302	0.314
50		0.318	0.2887	0.3027	0.336
100		0.3107	0.3007	0.2793	0.296

CETIS Analytical Report

Report Date: 04 Jan-13 11:59 (p 1 of 4)
Test Code: VCF1112.261fml | 07-1896-8878

Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	01-8212-1800	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:29	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Batch ID:	20-2106-3514	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	20 Nov-12 16:38	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	27 Nov-12 14:40	**Species:**	Pimephales promelas	**Brine:**	Not Applicable
Duration:	6d 22h	**Source:**	Aquatic Biosystems, CO	**Age:**	

Sample ID:	07-3174-8412	**Code:**	VCF1112.261f	**Client:**	VCWPD
Sample Date:	17 Nov-12 09:25	**Material:**	Sample Water	**Project:**	2012/13-2 (Wet)
Receive Date:	17 Nov-12 12:42	**Source:**	Bioassay Report		
Sample Age:	79h	**Station:**	MO-CAM		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	0	280	Yes	Two-Point Interpolation

Test Acceptability Criteria

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	1	0.8 - NL	Yes	Passes Acceptability Criteria

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
EC5	>100	N/A	N/A	<1	NA	NA
EC10	>100	N/A	N/A	<1	NA	NA
EC15	>100	N/A	N/A	<1	NA	NA
EC20	>100	N/A	N/A	<1	NA	NA
EC25	>100	N/A	N/A	<1	NA	NA
EC40	>100	N/A	N/A	<1	NA	NA
EC50	>100	N/A	N/A	<1	NA	NA

7d Survival Rate Summary

			Calculated Variate(A/B)								
C-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	%Effect	A	B
0	Negative Control	4	1	1	1	0	0	0.0%	0.0%	60	60
6.25		4	0.9833	0.9333	1	0.01667	0.03333	3.39%	1.67%	59	60
12.5		4	0.9833	0.9333	1	0.01667	0.03333	3.39%	1.67%	59	60
25		4	0.95	0.8667	1	0.03191	0.06383	6.72%	5.0%	57	60
50		4	0.9833	0.9333	1	0.01667	0.03333	3.39%	1.67%	59	60
100		4	0.9667	0.8667	1	0.03333	0.06667	6.9%	3.33%	58	60

7d Survival Rate Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1	1	1	1
6.25		1	0.9333	1	1
12.5		0.9333	1	1	1
25		0.8667	0.9333	1	1
50		1	1	1	0.9333
100		1	1	0.8667	1

7d Survival Rate Binomials

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Contro	15/15	15/15	15/15	15/15
6.25		15/15	14/15	15/15	15/15
12.5		14/15	15/15	15/15	15/15
25		13/15	14/15	15/15	15/15
50		15/15	15/15	15/15	14/15
100		15/15	15/15	13/15	15/15

Analysis ID:	01-8212-1800	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:29	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	15-7956-4882	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:29	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Batch ID:	20-2106-3514	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	20 Nov-12 16:38	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	27 Nov-12 14:40	**Species:**	Pimephales promelas	**Brine:**	Not Applicable
Duration:	6d 22h	**Source:**	Aquatic Biosystems, CO	**Age:**	

Sample ID:	07-3174-8412	**Code:**	VCF1112.261f	**Client:**	VCWPD
Sample Date:	17 Nov-12 09:25	**Material:**	Sample Water	**Project:**	2012/13-2 (Wet)
Receive Date:	17 Nov-12 12:42	**Source:**	Bioassay Report		
Sample Age:	79h	**Station:**	MO-CAM		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	1722306	280	Yes	Two-Point Interpolation

Test Acceptability Criteria

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.2637	0.25 - NL	Yes	Passes Acceptability Criteria

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
IC5	>100	N/A	N/A	<1	NA	NA
IC10	>100	N/A	N/A	<1	NA	NA
IC15	>100	N/A	N/A	<1	NA	NA
IC20	>100	N/A	N/A	<1	NA	NA
IC25	>100	N/A	N/A	<1	NA	NA
IC40	>100	N/A	N/A	<1	NA	NA
IC50	>100	N/A	N/A	<1	NA	NA

Mean Dry Biomass-mg Summary

			Calculated Variate						
C-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Negative Control	4	0.2637	0.2333	0.3013	0.01487	0.02974	11.28%	0.0%
6.25		4	0.2817	0.2473	0.3293	0.01737	0.03474	12.33%	-6.83%
12.5		4	0.2863	0.2333	0.3147	0.01879	0.03758	13.12%	-8.6%
25		4	0.2895	0.2633	0.314	0.0114	0.02279	7.87%	-9.8%
50		4	0.3113	0.2887	0.336	0.01017	0.02035	6.54%	-18.08%
100		4	0.2967	0.2793	0.3107	0.006538	0.01308	4.41%	-12.52%

Mean Dry Biomass-mg Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.248	0.272	0.3013	0.2333
6.25		0.3293	0.2473	0.2687	0.2813
12.5		0.3147	0.286	0.3113	0.2333
25		0.2633	0.2787	0.302	0.314
50		0.318	0.2887	0.3027	0.336
100		0.3107	0.3007	0.2793	0.296

Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	15-7956-4882	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:29	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

CETIS Measurement Report

Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Batch ID:	20-2106-3514	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	20 Nov-12 16:38	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	27 Nov-12 14:40	**Species:**	Pimephales promelas	**Brine:**	Not Applicable
Duration:	6d 22h	**Source:**	Aquatic Biosystems, CO	**Age:**	

Sample ID:	07-3174-8412	**Code:**	VCF1112.261f	**Client:**	VCWPD
Sample Date:	17 Nov-12 09:25	**Material:**	Sample Water	**Project:**	2012/13-2 (Wet)
Receive Date:	17 Nov-12 12:42	**Source:**	Bioassay Report		
Sample Age:	79h	**Station:**	MO-CAM		

Alkalinity (CaCO3)-mg/L

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	60.63	60.19	61.06	60	61	0.183	0.5175	0.85%	0
100		8	30	30	30	30	30	0	0	0.0%	0
Overall		16	45.31			30	61				0 (0%)

Conductivity-µmhos

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	347.1	343.8	350.4	344	356	1.394	3.944	1.14%	0
6.25		8	329	325	333	323	333	1.701	4.811	1.46%	0
12.5		8	321.3	316.7	325.8	313	328	1.943	5.497	1.71%	0
25		8	297.5	296	299	294	299	0.6268	1.773	0.6%	0
50		8	255.9	254.1	257.6	252	258	0.7425	2.1	0.82%	0
100		8	178.3	175.2	181.3	173	182	1.292	3.655	2.05%	0
Overall		48	288.2			173	356				0 (0%)

Dissolved Oxygen-mg/L

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	8.075	7.819	8.331	7.8	8.5	0.1081	0.3059	3.79%	0
6.25		8	7.738	7.061	8.414	5.9	8.6	0.2859	0.8088	10.45%	0
12.5		8	7.463	6.259	8.666	4	8.6	0.5088	1.439	19.29%	0
25		8	7.35	6.178	8.522	4	8.7	0.4957	1.402	19.08%	0
50		8	7.188	6.05	8.325	4	8.6	0.4812	1.361	18.94%	0
100		8	6.95	5.732	8.168	4	8.5	0.5151	1.457	20.96%	0
Overall		48	7.46			4	8.7				0 (0%)

Hardness (CaCO3)-mg/L

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	93.13	91.83	94.42	92	95	0.5489	1.553	1.67%	0
100		8	46	46	46	46	46	0	0	0.0%	0
Overall		16	69.56			46	95				0 (0%)

pH-Units

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.913	7.883	7.942	7.9	8	0.01249	0.03533	0.45%	0
6.25		8	7.713	7.608	7.817	7.5	7.8	0.04407	0.1246	1.62%	0
12.5		8	7.563	7.454	7.671	7.3	7.7	0.04605	0.1302	1.72%	0
25		8	7.5	7.382	7.618	7.2	7.6	0.05	0.1414	1.89%	0
50		8	7.3	7.2	7.4	7.1	7.5	0.04226	0.1195	1.64%	0
100		8	7.125	7.001	7.249	6.9	7.3	0.05261	0.1488	2.09%	0
Overall		48	7.519			6.9	8				0 (0%)

Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Temperature-°C

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	24.11	24	24.23	24	24.3	0.04795	0.1356	0.56%	0
6.25		8	24.21	24.01	24.42	24	24.6	0.0875	0.2475	1.02%	0
12.5		8	24.39	24.09	24.68	24	24.8	0.1246	0.3523	1.45%	0
25		8	24.54	24.12	24.96	24	25.1	0.1782	0.5041	2.05%	0
50		8	24.45	23.99	24.91	24	25.3	0.1955	0.5529	2.26%	0
100		8	24.83	24.15	25.5	24	25.8	0.2871	0.812	3.27%	0
Overall		48	24.42			24	25.8				0 (0%)

Alkalinity (CaCO3)-mg/L

C-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	61	61	61	61	61	60	60	60
100		30	30	30	30	30	30	30	30

Conductivity-µmhos

C-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	344	344	348	345	347	348	345	356
6.25		323	324	330	333	333	333	333	323
12.5		316	316	325	328	325	325	322	313
25		297	296	299	299	298	299	298	294
50		258	256	258	255	252	255	258	255
100		175	174	180	182	180	180	182	173

Dissolved Oxygen-mg/L

C-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	8.4	8.5	8	7.8	7.8	7.9	7.8	8.4
6.25		8.6	8.3	8.1	7.7	7.8	7.8	7.7	5.9
12.5		8.6	8.3	8	7.7	7.7	7.7	7.7	4
25		8.7	7.5	7.8	7.7	7.7	7.7	7.7	4
50		8.6	7	7.6	7.6	7.5	7.6	7.6	4
100		8.5	5.5	7.4	7.6	7.5	7.5	7.6	4

Hardness (CaCO3)-mg/L

C-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	92	92	92	92	92	95	95	95
100		46	46	46	46	46	46	46	46

pH-Units

C-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	8	7.9	7.9	7.9	7.9	7.9	7.9	7.9
6.25		7.6	7.6	7.8	7.8	7.8	7.8	7.8	7.5
12.5		7.6	7.6	7.5	7.7	7.5	7.6	7.7	7.3
25		7.6	7.5	7.4	7.6	7.6	7.6	7.5	7.2
50		7.5	7.3	7.2	7.4	7.3	7.3	7.3	7.1
100		7.2	6.9	7.1	7.2	7.2	7.2	7.3	6.9

Temperature-°C

C-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	24	24.1	24.3	24	24.2	24.3	24	24
6.25		24.1	24.6	24.1	24	24.5	24.4	24	24
12.5		24.2	24.8	24.1	24	24.7	24.5	24.8	24
25		24.2	24.9	24.1	24	25.1	25.1	24.9	24
50		24.2	25.3	24.1	24	25.1	24.9	24	24
100		24.2	25.6	24.1	24	25.5	25.8	25.4	24

aquatic bioassay & consulting laboratories, inc

January 4th, 2013

Mr. Arne Anselm
Ventura County Watershed Protection District
800 South Victoria Ave
Ventura, CA 93009

Dear Mr. Anselm:

We are pleased to present the enclosed revised bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms" EPA-821-R-02-013*. Results were as follows:

CLIENT:	Ventura County Flood Control
SAMPLE I.D.:	MO-SPA
DATE RECEIVED:	11/17/2012
ABC LAB. NO.:	VCF1112.266

CHRONIC FATHEAD SURVIVAL & GROWTH BIOASSAY

SURVIVAL	NOEC =	100.00 %
	TUc =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00 %
REPRODUCTION	NOEC =	100.00 %
	TUc =	1.00
	IC25 =	>100.00 %
	IC50 =	>100.00 %

Yours very truly,

Scott Johnson
Laboratory Director

CETIS Summary Report

Report Date: 04 Jan-13 12:00 (p 1 of 2)
Test Code: VCF1112.266fml | 11-7955-1566

Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Batch ID:	16-9865-3945	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	20 Nov-12 16:43	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	27 Nov-12 14:50	**Species:**	Pimephales promelas	**Brine:**	Not Applicable
Duration:	6d 22h	**Source:**	Aquatic Biosystems, CO	**Age:**	

Sample ID:	12-0822-2840	**Code:**	VCF1112.266f	**Client:**	VCWPD
Sample Date:	17 Nov-12 08:35	**Material:**	Sample Water	**Project:**	2012/13-2 (Wet)
Receive Date:	17 Nov-12 14:20	**Source:**	Bioassay Report		
Sample Age:	80h	**Station:**	MO-SPA		

Comparison Summary

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
12-9719-5954	7d Survival Rate	100	>100	NA	5.28%	1	Dunnett Multiple Comparison Test
17-7858-3289	Mean Dry Biomass-mg	100	>100	NA	15.4%	1	Dunnett Multiple Comparison Test

Point Estimate Summary

Analysis ID	Endpoint	Level	%	95% LCL	95% UCL	TU	Method
00-8183-2415	7d Survival Rate	EC5	100	20	N/A	1	Linear Interpolation (ICPIN)
		EC10	>100	N/A	N/A	<1	
		EC15	>100	N/A	N/A	<1	
		EC20	>100	N/A	N/A	<1	
		EC25	>100	N/A	N/A	<1	
		EC40	>100	N/A	N/A	<1	
		EC50	>100	N/A	N/A	<1	
03-8222-2206	Mean Dry Biomass-mg	IC5	68.97	58.78	85.28	1.45	Linear Interpolation (ICPIN)
		IC10	87.93	69.05	N/A	1.137	
		IC15	>100	N/A	N/A	<1	
		IC20	>100	N/A	N/A	<1	
		IC25	>100	N/A	N/A	<1	
		IC40	>100	N/A	N/A	<1	
		IC50	>100	N/A	N/A	<1	

Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits	Overlap	Decision
00-8183-2415	7d Survival Rate	Control Resp	1	0.8 - NL	Yes	Passes Acceptability Criteria
12-9719-5954	7d Survival Rate	Control Resp	1	0.8 - NL	Yes	Passes Acceptability Criteria
03-8222-2206	Mean Dry Biomass-mg	Control Resp	0.2637	0.25 - NL	Yes	Passes Acceptability Criteria
17-7858-3289	Mean Dry Biomass-mg	Control Resp	0.2637	0.25 - NL	Yes	Passes Acceptability Criteria
17-7858-3289	Mean Dry Biomass-mg	PMSD	0.1536	0.12 - 0.3	Yes	Passes Acceptability Criteria

7d Survival Rate Summary

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Negative Contro	4	1	1	1	1	1	0	0	0.0%	0.0%
6.25		4	0.95	0.897	1	0.9333	1	0.01667	0.03333	3.51%	5.0%
12.5		4	0.9833	0.9303	1	0.9333	1	0.01667	0.03333	3.39%	1.67%
25		4	0.95	0.897	1	0.9333	1	0.01667	0.03333	3.51%	5.0%
50		4	0.9833	0.9303	1	0.9333	1	0.01667	0.03333	3.39%	1.67%
100		4	0.95	0.897	1	0.9333	1	0.01667	0.03333	3.51%	5.0%

Mean Dry Biomass-mg Summary

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Negative Contro	4	0.2637	0.2163	0.311	0.2333	0.3013	0.01487	0.02974	11.28%	0.0%
6.25		4	0.3322	0.301	0.3634	0.318	0.3607	0.009803	0.01961	5.9%	-25.98%
12.5		4	0.3393	0.3158	0.3629	0.3227	0.3567	0.007409	0.01482	4.37%	-28.7%
25		4	0.3152	0.2601	0.3702	0.2667	0.3487	0.01729	0.03458	10.97%	-19.53%
50		4	0.344	0.3115	0.3765	0.3187	0.3687	0.01021	0.02042	5.94%	-30.47%
100		4	0.2768	0.2496	0.3041	0.2573	0.2973	0.008569	0.01714	6.19%	-4.99%

7d Survival Rate Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Contro	1	1	1	1
6.25		1	0.9333	0.9333	0.9333
12.5		0.9333	1	1	1
25		0.9333	0.9333	0.9333	1
50		1	1	0.9333	1
100		1	0.9333	0.9333	0.9333

Mean Dry Biomass-mg Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Contro	0.248	0.272	0.3013	0.2333
6.25		0.3207	0.318	0.3607	0.3293
12.5		0.3227	0.3567	0.3327	0.3453
25		0.322	0.2667	0.3233	0.3487
50		0.3447	0.3187	0.3687	0.344
100		0.2827	0.2573	0.27	0.2973

7d Survival Rate Binomials

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Contro	15/15	15/15	15/15	15/15
6.25		15/15	14/15	14/15	14/15
12.5		14/15	15/15	15/15	15/15
25		14/15	14/15	14/15	15/15
50		15/15	15/15	14/15	15/15
100		15/15	14/15	14/15	14/15

CETIS Analytical Report

Report Date: 04 Jan-13 12:00 (p 1 of 4)
Test Code: VCF1112.266fml | 11-7955-1566

Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	12-9719-5954	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:29	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Batch ID:	16-9865-3945	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	20 Nov-12 16:43	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	27 Nov-12 14:50	**Species:**	Pimephales promelas	**Brine:**	Not Applicable
Duration:	6d 22h	**Source:**	Aquatic Biosystems, CO	**Age:**	

Sample ID:	12-0822-2840	**Code:**	VCF1112.266f	**Client:**	VCWPD
Sample Date:	17 Nov-12 08:35	**Material:**	Sample Water	**Project:**	2012/13-2 (Wet)
Receive Date:	17 Nov-12 14:20	**Source:**	Bioassay Report		
Sample Age:	80h	**Station:**	MO-SPA		

Data Transform	Zeta	Alt Hyp	Trials	Seed	PMSD	NOEL	LOEL	TOEL	TU
Angular (Corrected)	NA	C > T	NA	NA	5.28%	100	>100	NA	1

Dunnett Multiple Comparison Test

Control vs	C-%	Test Stat	Critical	MSD	DF	P-Value	P-Type	Decision(α:5%)
Negative Control	6.25	2.324	2.407	0.102	6	0.0585	CDF	Non-Significant Effect
	12.5	0.7746	2.407	0.102	6	0.5239	CDF	Non-Significant Effect
	25	2.324	2.407	0.102	6	0.0585	CDF	Non-Significant Effect
	50	0.7746	2.407	0.102	6	0.5239	CDF	Non-Significant Effect
	100	2.324	2.407	0.102	6	0.0585	CDF	Non-Significant Effect

Test Acceptability Criteria

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	1	0.8 - NL	Yes	Passes Acceptability Criteria

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	0.03830134	0.007660269	5	2.12	0.1098	Non-Significant Effect
Error	0.06504002	0.003613334	18			
Total	0.1033414		23			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Mod Levene Equality of Variance	0.2	4.248	0.9583	Equal Variances
Variances	Levene Equality of Variance	1.8	4.248	0.1637	Equal Variances
Distribution	Shapiro-Wilk W Normality	0.9035	0.884	0.0255	Normal Distribution
Distribution	Kolmogorov-Smirnov D	0.1904	0.2056	0.0245	Normal Distribution
Distribution	D'Agostino Skewness	0.6038	2.576	0.5460	Normal Distribution
Distribution	D'Agostino Kurtosis	0.2923	2.576	0.7700	Normal Distribution
Distribution	D'Agostino-Pearson K2 Omnibus	0.4501	9.21	0.7985	Normal Distribution
Distribution	Anderson-Darling A2 Normality	1.114	3.878	0.0065	Non-normal Distribution

7d Survival Rate Summary

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	Negative Control	4	1	1	1	1	1	1	0	0.0%	0.0%
6.25		4	0.95	0.897	1	0.9333	0.9333	1	0.01667	3.51%	5.0%
12.5		4	0.9833	0.9303	1	1	0.9333	1	0.01667	3.39%	1.67%
25		4	0.95	0.897	1	0.9333	0.9333	1	0.01667	3.51%	5.0%
50		4	0.9833	0.9303	1	1	0.9333	1	0.01667	3.39%	1.67%
100		4	0.95	0.897	1	0.9333	0.9333	1	0.01667	3.51%	5.0%

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	12-9719-5954	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:29	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Angular (Corrected) Transformed Summary

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	Negative Contr	4	1.441	1.441	1.442	1.441	1.441	1.441	0	0.0%	0.0%
6.25		4	1.343	1.238	1.447	1.31	1.31	1.441	0.03292	4.91%	6.85%
12.5		4	1.408	1.304	1.513	1.441	1.31	1.441	0.03292	4.68%	2.28%
25		4	1.343	1.238	1.447	1.31	1.31	1.441	0.03292	4.91%	6.85%
50		4	1.408	1.304	1.513	1.441	1.31	1.441	0.03292	4.68%	2.28%
100		4	1.343	1.238	1.447	1.31	1.31	1.441	0.03292	4.91%	6.85%

7d Survival Rate Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1	1	1	1
6.25		1	0.9333	0.9333	0.9333
12.5		0.9333	1	1	1
25		0.9333	0.9333	0.9333	1
50		1	1	0.9333	1
100		1	0.9333	0.9333	0.9333

Angular (Corrected) Transformed Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1.441	1.441	1.441	1.441
6.25		1.441	1.31	1.31	1.31
12.5		1.31	1.441	1.441	1.441
25		1.31	1.31	1.31	1.441
50		1.441	1.441	1.31	1.441
100		1.441	1.31	1.31	1.31

7d Survival Rate Binomials

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Contro	15/15	15/15	15/15	15/15
6.25		15/15	14/15	14/15	14/15
12.5		14/15	15/15	15/15	15/15
25		14/15	14/15	14/15	15/15
50		15/15	15/15	14/15	15/15
100		15/15	14/15	14/15	14/15

Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	17-7858-3289	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:29	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Batch ID:	16-9865-3945	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	20 Nov-12 16:43	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	27 Nov-12 14:50	**Species:**	Pimephales promelas	**Brine:**	Not Applicable
Duration:	6d 22h	**Source:**	Aquatic Biosystems, CO	**Age:**	

Sample ID:	12-0822-2840	**Code:**	VCF1112.266f	**Client:**	VCWPD
Sample Date:	17 Nov-12 08:35	**Material:**	Sample Water	**Project:**	2012/13-2 (Wet)
Receive Date:	17 Nov-12 14:20	**Source:**	Bioassay Report		
Sample Age:	80h	**Station:**	MO-SPA		

Data Transform	Zeta	Alt Hyp	Trials	Seed	PMSD	NOEL	LOEL	TOEL	TU
Untransformed	NA	C > T	NA	NA	15.4%	100	>100	NA	1

Dunnett Multiple Comparison Test

Control	vs	C-%	Test Stat	Critical	MSD	DF	P-Value	P-Type	Decision(α:5%)
Negative Control		6.25	-4.072	2.407	0.040	6	1.0000	CDF	Non-Significant Effect
		12.5	-4.498	2.407	0.040	6	1.0000	CDF	Non-Significant Effect
		25	-3.062	2.407	0.040	6	1.0000	CDF	Non-Significant Effect
		50	-4.776	2.407	0.040	6	1.0000	CDF	Non-Significant Effect
		100	-0.7828	2.407	0.040	6	0.9695	CDF	Non-Significant Effect

Test Acceptability Criteria

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.2637	0.25 - NL	Yes	Passes Acceptability Criteria
PMSD	0.1536	0.12 - 0.3	Yes	Passes Acceptability Criteria

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	0.02304209	0.004608418	5	8.144	0.0004	Significant Effect
Error	0.01018544	0.0005658579	18			
Total	0.03322753		23			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Bartlett Equality of Variance	2.92	15.09	0.7124	Equal Variances
Variances	Mod Levene Equality of Variance	0.4028	4.248	0.8405	Equal Variances
Variances	Levene Equality of Variance	0.7451	4.248	0.6000	Equal Variances
Distribution	Shapiro-Wilk W Normality	0.9859	0.884	0.9758	Normal Distribution
Distribution	Kolmogorov-Smirnov D	0.09605	0.2056	0.9078	Normal Distribution
Distribution	D'Agostino Skewness	0.3915	2.576	0.6954	Normal Distribution
Distribution	D'Agostino Kurtosis	0.1604	2.576	0.8725	Normal Distribution
Distribution	D'Agostino-Pearson K2 Omnibus	0.179	9.21	0.9144	Normal Distribution
Distribution	Anderson-Darling A2 Normality	0.1551	3.878	0.9976	Normal Distribution

Mean Dry Biomass-mg Summary

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	Negative Control	4	0.2637	0.2163	0.311	0.26	0.2333	0.3013	0.01487	11.28%	0.0%
6.25		4	0.3322	0.301	0.3634	0.325	0.318	0.3607	0.009803	5.9%	-25.98%
12.5		4	0.3393	0.3158	0.3629	0.339	0.3227	0.3567	0.007409	4.37%	-28.7%
25		4	0.3152	0.2601	0.3702	0.3227	0.2667	0.3487	0.01729	10.97%	-19.53%
50		4	0.344	0.3115	0.3765	0.3443	0.3187	0.3687	0.01021	5.94%	-30.47%
100		4	0.2768	0.2496	0.3041	0.2763	0.2573	0.2973	0.008569	6.19%	-4.99%

Fathead Minnow 7-d Larval Survival and Growth Test — Aquatic Bioassay & Consulting Labs, Inc.

Analysis ID:	17-7858-3289	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:29	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Mean Dry Biomass-mg Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.248	0.272	0.3013	0.2333
6.25		0.3207	0.318	0.3607	0.3293
12.5		0.3227	0.3567	0.3327	0.3453
25		0.322	0.2667	0.3233	0.3487
50		0.3447	0.3187	0.3687	0.344
100		0.2827	0.2573	0.27	0.2973

CETIS Analytical Report

Report Date: 04 Jan-13 12:00 (p 1 of 4)
Test Code: VCF1112.266fml | 11-7955-1566

Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	00-8183-2415	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:29	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Batch ID:	16-9865-3945	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	20 Nov-12 16:43	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	27 Nov-12 14:50	**Species:**	Pimephales promelas	**Brine:**	Not Applicable
Duration:	6d 22h	**Source:**	Aquatic Biosystems, CO	**Age:**	

Sample ID:	12-0822-2840	**Code:**	VCF1112.266f	**Client:**	VCWPD
Sample Date:	17 Nov-12 08:35	**Material:**	Sample Water	**Project:**	2012/13-2 (Wet)
Receive Date:	17 Nov-12 14:20	**Source:**	Bioassay Report		
Sample Age:	80h	**Station:**	MO-SPA		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	0	280	Yes	Two-Point Interpolation

Test Acceptability Criteria

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	1	0.8 - NL	Yes	Passes Acceptability Criteria

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
EC5	100	20	N/A	1	NA	5
EC10	>100	N/A	N/A	<1	NA	NA
EC15	>100	N/A	N/A	<1	NA	NA
EC20	>100	N/A	N/A	<1	NA	NA
EC25	>100	N/A	N/A	<1	NA	NA
EC40	>100	N/A	N/A	<1	NA	NA
EC50	>100	N/A	N/A	<1	NA	NA

7d Survival Rate Summary

			Calculated Variate(A/B)								
C-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	%Effect	A	B
0	Negative Control	4	1	1	1	0	0	0.0%	0.0%	60	60
6.25		4	0.95	0.9333	1	0.01667	0.03333	3.51%	5.0%	57	60
12.5		4	0.9833	0.9333	1	0.01667	0.03333	3.39%	1.67%	59	60
25		4	0.95	0.9333	1	0.01667	0.03333	3.51%	5.0%	57	60
50		4	0.9833	0.9333	1	0.01667	0.03333	3.39%	1.67%	59	60
100		4	0.95	0.9333	1	0.01667	0.03333	3.51%	5.0%	57	60

7d Survival Rate Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1	1	1	1
6.25		1	0.9333	0.9333	0.9333
12.5		0.9333	1	1	1
25		0.9333	0.9333	0.9333	1
50		1	1	0.9333	1
100		1	0.9333	0.9333	0.9333

7d Survival Rate Binomials

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Contro	15/15	15/15	15/15	15/15
6.25		15/15	14/15	14/15	14/15
12.5		14/15	15/15	15/15	15/15
25		14/15	14/15	14/15	15/15
50		15/15	15/15	14/15	15/15
100		15/15	14/15	14/15	14/15

Analysis ID:	00-8183-2415	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:29	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	03-8222-2206	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:29	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Batch ID:	16-9865-3945	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	20 Nov-12 16:43	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	27 Nov-12 14:50	**Species:**	Pimephales promelas	**Brine:**	Not Applicable
Duration:	6d 22h	**Source:**	Aquatic Biosystems, CO	**Age:**	

Sample ID:	12-0822-2840	**Code:**	VCF1112.266f	**Client:**	VCWPD
Sample Date:	17 Nov-12 08:35	**Material:**	Sample Water	**Project:**	2012/13-2 (Wet)
Receive Date:	17 Nov-12 14:20	**Source:**	Bioassay Report		
Sample Age:	80h	**Station:**	MO-SPA		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	1621691	280	Yes	Two-Point Interpolation

Test Acceptability Criteria

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.2637	0.25 - NL	Yes	Passes Acceptability Criteria

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
IC5	68.97	58.78	85.28	1.45	1.173	1.701
IC10	87.93	69.05	N/A	1.137	NA	1.448
IC15	>100	N/A	N/A	<1	NA	NA
IC20	>100	N/A	N/A	<1	NA	NA
IC25	>100	N/A	N/A	<1	NA	NA
IC40	>100	N/A	N/A	<1	NA	NA
IC50	>100	N/A	N/A	<1	NA	NA

Mean Dry Biomass-mg Summary

			Calculated Variate						
C-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Negative Control	4	0.2637	0.2333	0.3013	0.01487	0.02974	11.28%	0.0%
6.25		4	0.3322	0.318	0.3607	0.009803	0.01961	5.9%	-25.98%
12.5		4	0.3393	0.3227	0.3567	0.007409	0.01482	4.37%	-28.7%
25		4	0.3152	0.2667	0.3487	0.01729	0.03458	10.97%	-19.53%
50		4	0.344	0.3187	0.3687	0.01021	0.02042	5.94%	-30.47%
100		4	0.2768	0.2573	0.2973	0.008569	0.01714	6.19%	-4.99%

Mean Dry Biomass-mg Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.248	0.272	0.3013	0.2333
6.25		0.3207	0.318	0.3607	0.3293
12.5		0.3227	0.3567	0.3327	0.3453
25		0.322	0.2667	0.3233	0.3487
50		0.3447	0.3187	0.3687	0.344
100		0.2827	0.2573	0.27	0.2973

Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	03-8222-2206	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:29	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

CETIS Measurement Report

Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Batch ID:	16-9865-3945	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	20 Nov-12 16:43	**Protocol:**	EPA/821/R-02-013 (2002)	**Diluent:**	Laboratory Water
Ending Date:	27 Nov-12 14:50	**Species:**	Pimephales promelas	**Brine:**	Not Applicable
Duration:	6d 22h	**Source:**	Aquatic Biosystems, CO	**Age:**	

Sample ID:	12-0822-2840	**Code:**	VCF1112.266f	**Client:**	VCWPD
Sample Date:	17 Nov-12 08:35	**Material:**	Sample Water	**Project:**	2012/13-2 (Wet)
Receive Date:	17 Nov-12 14:20	**Source:**	Bioassay Report		
Sample Age:	80h	**Station:**	MO-SPA		

Alkalinity (CaCO3)-mg/L

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	60.63	60.19	61.06	60	61	0.183	0.5175	0.85%	0
100		8	35	35	35	35	35	0	0	0.0%	0
Overall		16	47.81			35	61				0 (0%)

Conductivity-µmhos

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	347.1	343.8	350.4	344	356	1.394	3.944	1.14%	0
6.25		8	326.4	324	328.8	322	329	1.017	2.875	0.88%	0
12.5		8	320.5	318.2	322.8	317	325	0.9636	2.726	0.85%	0
25		8	304.8	301.6	307.9	300	308	1.346	3.808	1.25%	0
50		8	266.3	265	267.5	264	268	0.5261	1.488	0.56%	0
100		8	196.8	194.9	198.6	193	199	0.7734	2.188	1.11%	0
Overall		48	293.6			193	356				0 (0%)

Dissolved Oxygen-mg/L

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	8.075	7.819	8.331	7.8	8.5	0.1081	0.3059	3.79%	0
6.25		8	7.488	6.386	8.589	4.3	8.5	0.4658	1.317	17.59%	0
12.5		8	7.425	6.234	8.616	4	8.6	0.5035	1.424	19.18%	0
25		8	7.225	6.086	8.364	4	8.6	0.4817	1.363	18.86%	0
50		8	6.875	5.786	7.964	4	8.4	0.4605	1.302	18.95%	0
100		8	6.638	5.482	7.793	4	8.1	0.4888	1.382	20.83%	0
Overall		48	7.288			4	8.6				0 (0%)

Hardness (CaCO3)-mg/L

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	93.13	91.83	94.42	92	95	0.5489	1.553	1.67%	0
100		8	57	57	57	57	57	0	0	0.0%	0
Overall		16	75.06			57	95				0 (0%)

pH-Units

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.913	7.883	7.942	7.9	8	0.01249	0.03533	0.45%	0
6.25		8	7.663	7.479	7.846	7.2	7.8	0.07778	0.22	2.87%	0
12.5		8	7.625	7.478	7.772	7.2	7.7	0.06196	0.1753	2.3%	0
25		8	7.5	7.382	7.618	7.2	7.6	0.05	0.1414	1.89%	0
50		8	7.313	7.208	7.417	7.1	7.5	0.04407	0.1246	1.7%	0
100		8	7.113	6.931	7.294	6.8	7.4	0.07662	0.2167	3.05%	0
Overall		48	7.521			6.8	8				0 (0%)

Fathead Minnow 7-d Larval Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Temperature-°C

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	24.11	24	24.23	24	24.3	0.04795	0.1356	0.56%	0
6.25		8	24.23	23.99	24.46	24	24.7	0.09774	0.2764	1.14%	0
12.5		8	24.26	23.95	24.58	24	25	0.1335	0.3777	1.56%	0
25		8	24.35	23.95	24.75	24	25.2	0.1711	0.484	1.99%	0
50		8	24.46	23.98	24.95	24	25.4	0.2052	0.5805	2.37%	0
100		8	24.6	23.99	25.21	24	25.7	0.2591	0.7329	2.98%	0
Overall		48	24.34			24	25.7				0 (0%)

Alkalinity (CaCO3)-mg/L

C-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	61	61	61	61	61	60	60	60
100		35	35	35	35	35	35	35	35

Conductivity-µmhos

C-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	344	344	348	345	347	348	345	356
6.25		324	322	328	328	329	329	328	323
12.5		318	318	320	322	322	325	322	317
25		300	301	305	308	308	308	308	300
50		268	266	268	265	265	267	267	264
100		196	196	199	197	199	199	195	193

Dissolved Oxygen-mg/L

C-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	8.4	8.5	8	7.8	7.8	7.9	7.8	8.4
6.25		8.5	8.2	7.9	7.8	7.7	7.8	7.7	4.3
12.5		8.6	8.2	7.9	7.7	7.6	7.7	7.7	4
25		8.6	7.8	7.3	7.5	7.5	7.5	7.6	4
50		8.4	6.2	7.2	7.3	7.3	7.3	7.3	4
100		8.1	5	7.1	7.2	7.2	7.2	7.3	4

Hardness (CaCO3)-mg/L

C-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	92	92	92	92	92	95	95	95
100		57	57	57	57	57	57	57	57

pH-Units

C-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	8	7.9	7.9	7.9	7.9	7.9	7.9	7.9
6.25		7.6	7.5	7.8	7.8	7.8	7.8	7.8	7.2
12.5		7.7	7.6	7.7	7.7	7.7	7.7	7.7	7.2
25		7.6	7.5	7.6	7.6	7.6	7.4	7.5	7.2
50		7.4	7.2	7.3	7.3	7.5	7.3	7.4	7.1
100		7	6.8	7	7.2	7.4	7.3	7.3	6.9

Temperature-°C

C-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	24	24.1	24.3	24	24.2	24.3	24	24
6.25		24.2	24.7	24.1	24	24	24.2	24.6	24
12.5		24.2	24.7	24.1	24	24.1	25	24	24
25		25	24.1	24	24.1	24.4	25.2	24	24
50		24.2	25.4	24.1	24	24.1	24.6	25.3	24
100		24.2	25.7	24.1	24	24.1	25.2	25.5	24

aquatic bioassay & consulting laboratories, inc

January 4th, 2013

Mr. Arne Anselm
Ventura County Watershed Protection District
800 South Victoria Ave
Ventura, CA 93009

Dear Mr. Anselm:

We are pleased to present the enclosed bioassay report. The test was conducted under guidelines prescribed in *Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms, EPA-821-R-02-012*. All acceptability criteria were met and dose response was normal. This is a valid test. Results were as follows:

CLIENT:	Ventura County Flood Control
SAMPLE I.D.:	MO-HUE [High Salinity]
DATE RECEIVED:	11/17/2012
ABC LAB NO.:	VCF1112.259

ACUTE HYALELLA SURVIVAL BIOASSAY

Percent Survival	=	70.00 %
IC25	=	94.32 %
IC50	=	>100.00 %
TUa	=	0.87

Yours very truly,

Scott Johnson
Laboratory Director

CETIS Summary Report

Report Date: 04 Jan-13 12:00 (p 1 of 1)
Test Code: VCF1112.259hya | 01-0551-8947

Hyalella 96-h Acute Survival Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Batch ID:	05-5727-8261	**Test Type:**	Survival (96h)	**Analyst:**	
Start Date:	27 Nov-12 15:35	**Protocol:**	EPA/821/R-02-012 (2002)	**Diluent:**	Laboratory Water
Ending Date:	01 Dec-12 14:30	**Species:**	Hyalella azteca	**Brine:**	Not Applicable
Duration:	95h	**Source:**	Aquatic Biosystems, CO	**Age:**	

Sample ID:	06-6717-9562	**Code:**	VCF1112.259h	**Client:**	VCWPD
Sample Date:	17 Nov-12 10:30	**Material:**	Sample Water	**Project:**	2012/13-2 (Wet)
Receive Date:	17 Nov-12 12:42	**Source:**	Bioassay Report		
Sample Age:	10d 5h	**Station:**	MO-HUE		

Batch Note: High Salinity

Comparison Summary

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
13-3856-9158	96h Survival Rate	100	>100	NA	32.1%	1	Dunnett Multiple Comparison Test

Point Estimate Summary

Analysis ID	Endpoint	Level	%	95% LCL	95% UCL	TU	Method
21-0984-9564	96h Survival Rate	EC5	58.86	50.92	N/A	1.699	Linear Interpolation (ICPIN)
		EC10	67.73	51.84	N/A	1.477	
		EC15	76.59	52.77	N/A	1.306	
		EC20	85.45	53.69	N/A	1.17	
		EC25	94.32	54.61	N/A	1.06	
		EC40	>100	N/A	N/A	<1	
		EC50	>100	N/A	N/A	<1	

96h Survival Rate Summary

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Negative Contro	4	0.95	0.7909	1	0.8	1	0.05	0.1	10.53%	0.0%
50		4	1	1	1	1	1	0	0	0.0%	-5.26%
100		4	0.7	0.1488	1	0.2	1	0.1732	0.3464	49.49%	26.32%

96h Survival Rate Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Contro	1	1	0.8	1
50		1	1	1	1
100		0.8	0.8	1	0.2

96h Survival Rate Binomials

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Contro	5/5	5/5	4/5	5/5
50		5/5	5/5	5/5	5/5
100		4/5	4/5	5/5	1/5

CETIS Analytical Report

Report Date: 04 Jan-13 12:00 (p 1 of 2)
Test Code: VCF1112.259hya | 01-0551-8947

Hyalella 96-h Acute Survival Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	13-3856-9158	**Endpoint:**	96h Survival Rate	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:30	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Batch ID:	05-5727-8261	**Test Type:**	Survival (96h)	**Analyst:**	
Start Date:	27 Nov-12 15:35	**Protocol:**	EPA/821/R-02-012 (2002)	**Diluent:**	Laboratory Water
Ending Date:	01 Dec-12 14:30	**Species:**	Hyalella azteca	**Brine:**	Not Applicable
Duration:	95h	**Source:**	Aquatic Biosystems, CO	**Age:**	

Sample ID:	06-6717-9562	**Code:**	VCF1112.259h	**Client:**	VCWPD
Sample Date:	17 Nov-12 10:30	**Material:**	Sample Water	**Project:**	2012/13-2 (Wet)
Receive Date:	17 Nov-12 12:42	**Source:**	Bioassay Report		
Sample Age:	10d 5h	**Station:**	MO-HUE		

Batch Note: High Salinity

Data Transform	Zeta	Alt Hyp	Trials	Seed	PMSD	NOEL	LOEL	TOEL	TU
Angular (Corrected)	NA	C > T	NA	NA	32.1%	100	>100	NA	1

Dunnett Multiple Comparison Test

Control	vs	C-%	Test Stat	Critical	MSD	DF	P-Value	P-Type	Decision(α:5%)
Negative Control		50	-0.3675	2.18	0.353	6	0.7939	CDF	Non-Significant Effect
		100	1.728	2.18	0.353	6	0.1002	CDF	Non-Significant Effect

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	0.2628745	0.1314373	2	2.505	0.1365	Non-Significant Effect
Error	0.4722519	0.05247243	9			
Total	0.7351264		11			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Mod Levene Equality of Variance	1.467	8.022	0.2809	Equal Variances
Variances	Levene Equality of Variance	4.692	8.022	0.0402	Equal Variances
Distribution	Shapiro-Wilk W Normality	0.8042	0.8025	0.0105	Normal Distribution
Distribution	Kolmogorov-Smirnov D	0.3333	0.2801	0.0006	Non-normal Distribution
Distribution	D'Agostino Skewness	2.294	2.576	0.0218	Normal Distribution
Distribution	Anderson-Darling A2 Normality	1.318	3.878	0.0016	Non-normal Distribution

96h Survival Rate Summary

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	Negative Control	4	0.95	0.7909	1	1	0.8	1	0.05	10.53%	0.0%
50		4	1	1	1	1	1	1	0	0.0%	-5.26%
100		4	0.7	0.1488	1	0.8	0.2	1	0.1732	49.49%	26.32%

Angular (Corrected) Transformed Summary

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	Negative Contr	4	1.286	1.096	1.475	1.345	1.107	1.345	0.05953	9.26%	0.0%
50		4	1.345	1.345	1.346	1.345	1.345	1.345	0	0.0%	-4.63%
100		4	1.006	0.4036	1.608	1.107	0.4636	1.345	0.1892	37.63%	21.77%

96h Survival Rate Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1	1	0.8	1
50		1	1	1	1
100		0.8	0.8	1	0.2

Hyalella 96-h Acute Survival Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	13-3856-9158	**Endpoint:**	96h Survival Rate	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:30	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Angular (Corrected) Transformed Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1.345	1.345	1.107	1.345
50		1.345	1.345	1.345	1.345
100		1.107	1.107	1.345	0.4636

96h Survival Rate Binomials

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Contro	5/5	5/5	4/5	5/5
50		5/5	5/5	5/5	5/5
100		4/5	4/5	5/5	1/5

CETIS Analytical Report

Hyalella 96-h Acute Survival Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	21-0984-9564	**Endpoint:**	96h Survival Rate	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:30	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Batch ID:	05-5727-8261	**Test Type:**	Survival (96h)	**Analyst:**	
Start Date:	27 Nov-12 15:35	**Protocol:**	EPA/821/R-02-012 (2002)	**Diluent:**	Laboratory Water
Ending Date:	01 Dec-12 14:30	**Species:**	Hyalella azteca	**Brine:**	Not Applicable
Duration:	95h	**Source:**	Aquatic Biosystems, CO	**Age:**	

Sample ID:	06-6717-9562	**Code:**	VCF1112.259h	**Client:**	VCWPD
Sample Date:	17 Nov-12 10:30	**Material:**	Sample Water	**Project:**	2012/13-2 (Wet)
Receive Date:	17 Nov-12 12:42	**Source:**	Bioassay Report		
Sample Age:	10d 5h	**Station:**	MO-HUE		

Batch Note: High Salinity

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	0	280	Yes	Two-Point Interpolation

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
EC5	58.86	50.92	N/A	1.699	NA	1.964
EC10	67.73	51.84	N/A	1.477	NA	1.929
EC15	76.59	52.77	N/A	1.306	NA	1.895
EC20	85.45	53.69	N/A	1.17	NA	1.863
EC25	94.32	54.61	N/A	1.06	NA	1.831
EC40	>100	N/A	N/A	<1	NA	NA
EC50	>100	N/A	N/A	<1	NA	NA

96h Survival Rate Summary

			Calculated Variate(A/B)								
C-%	**Control Type**	**Count**	**Mean**	**Min**	**Max**	**Std Err**	**Std Dev**	**CV%**	**%Effect**	**A**	**B**
0	Negative Control	4	0.95	0.8	1	0.05	0.1	10.53%	0.0%	19	20
50		4	1	1	1	0	0	0.0%	-5.26%	20	20
100		4	0.7	0.2	1	0.1732	0.3464	49.49%	26.32%	14	20

96h Survival Rate Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1	1	0.8	1
50		1	1	1	1
100		0.8	0.8	1	0.2

96h Survival Rate Binomials

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Contro	5/5	5/5	4/5	5/5
50		5/5	5/5	5/5	5/5
100		4/5	4/5	5/5	1/5

Hyalella 96-h Acute Survival Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	21-0984-9564	**Endpoint:**	96h Survival Rate	**CETIS Version:**	CETISv1.8.6
Analyzed:	04 Jan-13 11:30	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

CETIS Measurement Report

Hyalella 96-h Acute Survival Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Batch ID:	05-5727-8261	**Test Type:**	Survival (96h)	**Analyst:**	
Start Date:	27 Nov-12 15:35	**Protocol:**	EPA/821/R-02-012 (2002)	**Diluent:**	Laboratory Water
Ending Date:	01 Dec-12 14:30	**Species:**	Hyalella azteca	**Brine:**	Not Applicable
Duration:	95h	**Source:**	Aquatic Biosystems, CO	**Age:**	

Sample ID:	06-6717-9562	**Code:**	VCF1112.259h	**Client:**	VCWPD
Sample Date:	17 Nov-12 10:30	**Material:**	Sample Water	**Project:**	2012/13-2 (Wet)
Receive Date:	17 Nov-12 12:42	**Source:**	Bioassay Report		
Sample Age:	10d 5h	**Station:**	MO-HUE		

Batch Note: High Salinity

Alkalinity (CaCO3)-mg/L

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	3	60.67	59.23	62.1	60	61	0.3333	0.5774	0.95%	0
100		3	266	266	266	266	266	0	0	0.0%	0
Overall		6	163.3			60	266				0 (0%)

Conductivity-µmhos

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	3	346.7	292.1	401.2	333	372	12.68	21.96	6.34%	0
50		3	4847	4794	4901	4833	4872	12.37	21.43	0.44%	0
100		3	9046	9027	9066	9038	9054	4.466	7.735	0.09%	0
Overall		9	4747			333	9054				0 (0%)

Dissolved Oxygen-mg/L

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	5	7.92	7.255	8.585	7	8.3	0.2396	0.5357	6.76%	0
50		5	6.52	4.519	8.521	4	8	0.7207	1.612	24.72%	0
100		5	5.98	4.261	7.699	4	7.9	0.6192	1.385	23.15%	0
Overall		15	6.807			4	8.3				0 (0%)

Hardness (CaCO3)-mg/L

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	3	93.67	90.8	96.54	93	95	0.6667	1.155	1.23%	0
100		3	1180	1180	1180	1180	1180	0	0	0.0%	0
Overall		6	636.8			93	1180				0 (0%)

pH-Units

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	5	7.88	7.824	7.936	7.8	7.9	0.01999	0.04471	0.57%	0
50		5	7.74	7.598	7.882	7.6	7.9	0.05099	0.114	1.47%	0
100		5	7.72	7.584	7.856	7.6	7.9	0.04899	0.1095	1.42%	0
Overall		15	7.78			7.6	7.9				0 (0%)

Temperature-°C

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	5	22	22	22	22	22	0	0	0.0%	0
50		5	22	22	22	22	22	0	0	0.0%	0
100		5	22	22	22	22	22	0	0	0.0%	0
Overall		15	22			22	22				0 (0%)

Hyalella 96-h Acute Survival Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Alkalinity (CaCO3)-mg/L

C-%	Control Type	1	2	3
0	Negative Contr	60	61	61
100		266	266	266

Conductivity-µmhos

C-%	Control Type	1	2	3
0	Negative Contr	372	333	335
50		4837	4872	4833
100		9054	9038	9047

Dissolved Oxygen-mg/L

C-%	Control Type	1	2	3	4	5
0	Negative Contr	8.2	8.2	7.9	8.3	7
50		8	6.7	7.8	4	6.1
100		7.9	5.8	6.1	4	6.1

Hardness (CaCO3)-mg/L

C-%	Control Type	1	2	3
0	Negative Contr	95	93	93
100		1180	1180	1180

pH-Units

C-%	Control Type	1	2	3	4	5
0	Negative Contr	7.9	7.9	7.8	7.9	7.9
50		7.7	7.9	7.8	7.6	7.7
100		7.6	7.9	7.7	7.7	7.7

Temperature-°C

C-%	Control Type	1	2	3	4	5
0	Negative Contr	22	22	22	22	22
50		22	22	22	22	22
100		22	22	22	22	22

Chain of Custody Record

Ventura County Watershed Protection District
NPDES Stormwater Monitoring Program
Project: NPDES Stormwater Wet Season
Toxicity - ABC Laboratories

Sampling Date: 11-17-12 Project Number: 2012/13-2 (Wet)

Sampling Team: BS, TL

	SAMPLE ID	DATE/TIME COLLECTED	Chronic toxicity - topsmelt (*Atherinops affinis*)	Chronic toxicity - inland silverside (*Menidia beryllina*)	Chronic toxicity - giant kelp (*Macrocystis pyrifera*)	Chronic toxicity - purple sea urchin (*Strongylocentrotus purpuratus*)	Chronic toxicity - fathead minnow (*Pimephales promelas*)	Chronic toxicity - daphnid (*Ceriodaphnia dubia*)	Chronic toxicity - green alga (*Raphidocelis subcapitata*)	Number of 5-Gallon Buckets	NOTES
	ME-CC		X							2	Note 1, Note 2, Note 3
54	ME-SCR	11-17-12 1050				X				1	Note 1, Note 2, Note 3 NH_3 - 0.0
55	ME-VR2	11-17-12 950	X							2	Note 1, Note 2, Note 3 NH_3 - 0.0
	MO-CAM						X			2	Note 1, Note 2, Note 3
	MO-OJA	[redacted]					X			2	Note 1, Note 2, Note 3
256	MO-MEI	11-17-12 915					X			2	Note 1, Note 2, Note 3 NH_3 - 1.0
257	MO-VEN	11-17-12 745						X		2	Note 1, Note 2, Note 3 NH_3 - 1.5

SUB - Topsmelt ice because urchin fail to spawn

Relinquished Printed Name BRAM SERCU

Signature [redacted]

Affiliation VC-WPD Date/Time 11-17-12 12:16

Received Printed Name Lorena Marquez

Signature [redacted]

Affiliation ABC Date/Time 11-17-12 1216

Other Notes: Note 1: Dilutions - 6.25%, 12.5%, 25%, 50%, 100% Note 2: Please execute TIE if mortality > 50%

Note 3: Notify District within 24 hours if significant toxicity is observed. Temp - 8.0°C

chlorine - <0.1

Chain of Custody Record

Ventura County Watershed Protection District
NPDES Stormwater Monitoring Program
Project: NPDES Stormwater Wet Season
Toxicity - ABC Laboratories

Sampling Date: 11/17/12 Project Number: 2012/13-2 (Wet)

Sampling Team: Jason Siegert & Daniel Calderon

	SAMPLE ID	DATE/TIME COLLECTED	Chronic toxicity - topsmelt (*Atherinops affinis*)	Chronic toxicity - inland silverside (*Menidia beryllina*)	Chronic toxicity - giant kelp (*Macrocystis pyrifera*)	Chronic toxicity - purple sea urchin (*Strongylocentrotus purpuratus*)	Chronic toxicity - fathead minnow (*Pimephales promelas*)	Chronic toxicity - daphnid (*Ceriodaphnia dubia*)	Chronic toxicity - green alga (*Raphidocelis subcapitata*)	Number of 5-Gallon Buckets	NOTES
	MO-OXN	11/17/12					X			2	Note 1, Note 2, Note 3
	MO-HUE							X		2	Note 1, Note 2, Note 3
262	MO-THO	12:45						X		2	Note 1, Note 2, Note 3 NH_3 - 1.5
263	MO-MPK	10:45							X	2	Note 1, Note 2, Note 3 NH_3 - 1.0
264	MO-SIM	11:45						X		2	Note 1, Note 2, Note 3 NH_3 - 1.5
265	MO-FIL	09:30						X		2	Note 1, Note 2, Note 3 NH_3 - 1.0
266	MO-SPA	08:35					X			2	Note 1, Note 2, Note 3 NH_3 - 2.0

Relinquished Printed Name: Jason Siegert

Signature: [signature]

Affiliation: VRSD Date/Time: 11/17/12 1420

Received Printed Name: Lorena Marquez

Signature: [signature]

Affiliation: ABC Lab Date/Time: 11/17/12 1420

Other Notes:

Note 1: Dilutions - 6.25%, 12.5%, 25%, 50%, 100%

Note 2: Please execute TIE if mortality > 50%

Note 3: Notify District within 24 hours if significant toxicity is observed.

chlorine - < 0.1 temp - 10.4°C

Chain of Custody Record

Ventura County Watershed Protection District
NPDES Stormwater Monitoring Program
Project: NPDES Stormwater Wet Season
Toxicity - ABC Laboratories

Sampling Date: 11-17-12 Project Number: 2012/13-2 (Wet)

Sampling Team: AA, TS, SM

SAMPLE ID	DATE/TIME COLLECTED	Chronic toxicity - topsmelt (*Atherinops affinis*)	Chronic toxicity - inland silverside (*Menidia beryllina*)	Chronic toxicity - giant kelp (*Macrocystis pyrifera*)	Chronic toxicity - purple sea urchin (*Strongylocentrotus purpuratus*)	Chronic toxicity - fathead minnow (*Pimephales promelas*)	Chronic toxicity - daphnid (*Ceriodaphnia dubia*)	Chronic toxicity - green alga (*Raphidocelis subcapitata*)	Number of 5-Gallon Buckets	NOTES
1258 MO-OXN	11-17-12 08:34					X			2	Note 1, Note 2, Note 3 NH_3 - 1.0
1259 MO-HUE	11-17-12 10:30						X		2	Note 1, Note 2, Note 3 NH_3 - 1.5
MO-THO							X		2	Note 1, Note 2, Note 3
MO-MPK								X	2	Note 1, Note 2, Note 3
MO-SIM							X		2	Note 1, Note 2, Note 3
MO-FIL							X		2	Note 1, Note 2, Note 3
MO-SPA						X			2	Note 1, Note 2, Note 3

Relinquished Printed Name ARNE ANSELM

Signature [signature]

Affiliation VCWPD Date/Time 11-17-12 12:41

Received Printed Name Lorena Marquez

Signature [signature]

Affiliation ABC Lab Date/Time 11-17-12 1242

Other Notes:

Note 1: Dilutions - 6.25%, 12.5%, 25%, 50%, 100%

Note 2: Please execute TIE if mortality > 50%

Note 3: Notify District within 24 hours if significant toxicity is observed.

Chain of Custody Record

Ventura County Watershed Protection District
NPDES Stormwater Monitoring Program
Project: NPDES Stormwater Wet Season
Toxicity - ABC Laboratories

Sampling Date: 11-17-12 Project Number: 2012/13-2 (Wet)

Sampling Team: AA, TS, SM

	SAMPLE ID	DATE/TIME COLLECTED	Chronic toxicity - topsmelt (*Atherinops affinis*)	Chronic toxicity - inland silverside (*Menidia beryllina*)	Chronic toxicity - giant kelp (*Macrocystis pyrifera*)	Chronic toxicity - purple sea urchin (*Strongylocentrotus purpuratus*)	Chronic toxicity - fathead minnow (*Pimephales promelas*)	Chronic toxicity - daphnid (*Ceriodaphnia dubia*)	Chronic toxicity - green alga (*Raphidocelis subcapitata*)	Number of 5-Gallon Buckets	NOTES
60	ME-CC	11-17-12 1145	X							2	Note 1, Note 2, Note 3 NH_3 -0.0
	~~ME-SCR~~					X				1	Note 1, Note 2, Note 3 ~~NH_3 1.0~~ 2
	~~ME-VR2~~		X							2	Note 1, Note 2, Note 3
61	MO-CAM	11-17-12 09:25					X			2	Note 1, Note 2, Note 3 NH_3 -1.0
	~~MO-OJA~~						X			2	Note 1, Note 2, Note 3
	~~MO-MEI~~						X			2	Note 1, Note 2, Note 3
	~~MO-VEN~~							X		2	Note 1, Note 2, Note 3

Relinquished Printed Name ARNE ANSEM

Signature

Affiliation VCWPD Date/Time 11-17-12 12:41

Received Printed Name Lorena Marquez

Signature

Affiliation ABC Labs Date/Time 11-17-12 1242

Other Notes: Note 1: Dilutions - 6.25%, 12.5%, 25%, 50%, 100% Note 2: Please execute TIE if mortality > 50%

Note 3: Notify District within 24 hours if significant toxicity is observed.

Temp - 7.5°C Chlorine - <0.1

aquatic bioassay & consulting laboratories, inc

November 26, 2012

Ventura County Watershed Protection District
800 South Victoria Avenue
Ventura, CA 93009

Dear Client:

We received your sample labeled "ME-SCR" on November 17th, 2012 for chronic sea urchin toxicity testing. The sea urchins we had secured to conduct this testing failed to spawn. Therefore we were unable to proceed with the testing. There will be no report generated for these samples. As requested the sample was successfully run for toxicity using Topsmelt. A report will be generated for the Topsmelt toxicity testing and sent out with all corresponding testing.

Please feel free to phone me at your convenience if you have any questions.

Sincerely,

Joe Freas
Sr. Aquatic Toxicologist

aquatic bioassay & consulting laboratories, inc

December 6, 2012

Mr. Arne Anselm/ Ms. Kelly Hahs
Ventura County Watershed Protection District
800 South Victoria Ave
Ventura, CA 93009

Dear Mr. Anselm & Ms. Hahs:

We received a sample in our laboratory 17 November 2012 labeled "MO-HUE". Upon arrival the salinity of the sample was checked & determined to be 6ppt. We set up a chronic *Ceriodaphnia dubia* test with this sample as instructed. As we expected the sample performed poorly with the *Ceriodaphnia* due to the high salinity, survival was 0% in 100% sample.

Since the salinity was 6ppt and no TIE treatments address salinity there is no way to remove salinity from a sample. Therefore we did not proceed with a TIE for the *Ceriodaphnia dubia*. *Ceriodaphnia dubia* can tolerate a maximum salinity of 1-2ppt.

We then initiated a test with *Hyalella azteca*, since they have a higher tolerance to high conductivity samples. *Hyalella azteca* do well in waters with salinities of 0-10ppt. The *Hyalella* gave a more favorable result, 75% survival in 100% sample. This resulted in a TU value of 0.82 which would not require a TIE by the direction in the permit. The IC25 & IC50 in the *Hyalella* test were both >100%.

In the future, if this site is sampled again, we believe a more appropriate organism would be topsmelt, if they are available at the time of sampling. The topsmelt is a euryhaline organism that can tolerate salinities of 3-36ppt. Since this site is influenced by the ocean during storms the topsmelt would be a more appropriate organism even if the salinity was higher during future sampling events.

Please feel free to contact me at your convenience if you have any questions.

Sincerely,

Michael Machuzak
Laboratory Manager

29 north olive ventura, ca 93001 (805) 643 5621 www.aquabio.org

Appendix J. Dry-Weather Analytical Monitoring Results

	Site ID	Port Hueneme-3	Unincorporated-4	Camarillo-1	Fillmore-1
		DRY-HUE3	DRY-UNI4	MO-CAM	MO-FIL
	At Major Outfall?	No	No	Yes	Yes
	Location	Bubbling Springs @ RR xing	Arroyo Santa Rosa above Box Canyon confluence	Camarillo Hills Drain	North Fillmore Drain
	Date	08/12/13	08/13/13	08/13/13	08/12/13
	Time	1035	1200	1240	1325
Site Description	**Conveyence Type**	Natural channel	Box culvert	Box culvert	Box culvert
	Dimensions	N/A	N/A	8' x 24'	N/A
	Dominant Land Use	Commercial & residential	Residential & rural	Commercial & residential	Residential
	Site Elevation	10	250	100	430
Weather	**Weather**	Overcast	Clear	Clear	Clear
	Wind Condtion	Slight breeze	Slight breeze	Slight breeze	Slight breeze
	Air Temp. (^{0}F)	68	67	80	80
Trash	**Trash (general area)**	Light	None	Light	Light
	Trash (stream banks)	High	Light	Moderate	High
Observations	**Water Clarity**	Muddy	Clear	Clear	Clear
	Water Color	Other	Clear	Clear	Clear
	Odors	None	None	None	None
	Floatables	None	None	None	None
	Foam	N/A	N/A	N/A	N/A
	Stains/ deposits	N/A	Brown/red staining on apron entering channel but dry during sampling	Brown staining at water edge	N/A
	Structural condition	Natural channel	Concrete channel	Concrete channel	Natural channel below flap gate
	Vegetation Condition	Lawns surrounding channel	Herbaceous growth in channel and abundant duckweed	Grass in channel causing small pond	Abundant willow weed growth in channel
	Biology	Many ducks	-	-	Frog
	Algae (suspended)	N/A	N/A	N/A	N/A
	Algae (substrate)	N/A	Brown 20% Green 20%	Green 50%	Green 80%
Water Chemistry (Field)	**Dissolved Oxygen (%)**	29.1	97.3	276.1	56.8
	Dissolved Oxygen (mg/L)	2.73	8.88	19.55	5.04
	Conductivity (µS)	2918	1182	2002	1500
	Specific Conductance (µS)	3264	1322	1716	1632
	Salinity (ppt)	1.7	0.7	0.9	0.8
	Water Temp. (^{0}C)	19.5	19.4	33.6	21.0
	Water Temp. (^{0}F)	67.1	66.9	92.5	69.8
	pH	7.26	8.26	10.17	7.54
	Turbidity (NTU)	21.70	3.35	15.13	2.17
Water Chemistry (Lab)	**Total Organic Carbon (mg/L)**	5.2	16	21	2.4
	Total Hardness as $CaCO_3$ (mg/L)	991	517	420	715
	Total Calcium (mg/L)	249	72.6	142	192
	Total Magnesium (mg/L)	89.7	81.5	16.1	57.3
	Dissolved Copper (µg/L)	DNQ (0.23)	7.4	22	2.1
	Dissolved Lead (µg/L)	ND (-0.024)	ND (-0.024)	DNW (0.050)	ND (-0.024)
	Dissolved Zinc (µg/L)	DNQ (2.5)	DNQ (3.8)	5.5	5.8
	Total Coliform (MPN/100 mL)	88,200	410,600	259	19,863
	***E. coli* (MPN/100 mL)**	14,136	12,033	ND (<10)	2,613
Estimated Flow	**Flow Status**	Flowing	Flowing	Flowing	Ponded
	Water Width (ft.)	8.0	1.0	1.5	15.0
	Water Depth (ft.)	1.00	0.02	0.01	2.00
	Flow Velocity (ft/s)	0.01	0.80	1.00	0.00
	Flow Rate (ft^3/s)	0.08	0.02	0.02	0.00
	Comments	Sampled upstream MO location. Water gray/blue/black		pH measured twice (10.16, 10.18)	Congested willow weed growth in channel

	Site ID	Moorpark-1	Ojai-1	Oxnard-1	Santa Paula-1
		MO-MPK	MO-OJA	MO-OXN	MO-SPA
	At Major Outfall?	Yes	Yes	Yes	Yes
	Location	Walnut Canyon*	Fox Barranca	El Rio Drain above MO-OXN	11th St Drain (Santa Paula Airport)
	Date	08/13/13	08/13/13	08/12/13	08/13/13
	Time	0955	0810	0945	0905
Site Description	Conveyence Type	Box culvert	Box culvert	Trapezoidal channel	Reinforced concrete pipe
	Dimensions	5' x 12'	6.5' x 12'	5.5' x 12'(toe) x 34'(top)	48"
	Dominant Land Use	Commercial & residential	Residential	Commercial & residential	Commercial & residential
	Site Elevation	460	720	60	240
Weather	Weather	Clear	Clear	Partly cloudy	Overcast
	Wind Condtion	Slight breeze	Calm	Slight breeze	Calm
	Air Temp. (^{0}F)	65	61	72	64
Trash	Trash (general area)	Light	Light	Light	High
	Trash (stream banks)	Moderate	Moderate	None	High
Observations	Water Clarity	Clear	Clear	Clear	Clear
	Water Color	Clear	Clear	Yellow	Clear
	Odors	None	None	None	None
	Floatables	None	None	None	None
	Foam	N/A	N/A	N/A	N/A
	Stains/ deposits	N/A	White powdery material	Green stain at water edge	N/A
	Structural condition	Concrete channel	Concrete channel	Concrete channel	Concrete channel
	Vegetation Condition	N/A	N/A	N/A	N/A
	Biology	N/A	N/A	N/A	N/A
	Algae (suspended)	N/A	N/A	N/A	N/A
	Algae (substrate)	N/A	Green 20%	Brown 10%	N/A
Water Chemistry (Field)	Dissolved Oxygen (%)	113.4	91.3	157.4	96.1
	Dissolved Oxygen (mg/L)	10.13	8.76	13.39	8.88
	Conductivity (µS)	1093	1922	2030	1181
	Specific Conductance (µS)	1188	2213	2080	1338
	Salinity (ppt)	0.6	1.1	1.1	0.7
	Water Temp. (^{0}C)	20.8	17.2	23.7	18.9
	Water Temp. (^{0}F)	69.4	63.0	74.7	66.0
	pH	8.44	8.28	9.08	8.2
	Turbidity (NTU)	5.49	3.80	4.94	1.03
Water Chemistry (Lab)	Total Organic Carbon (mg/L)	16	17	28	1.2
	Total Hardness as $CaCO_3$ (mg/L)	237	679	561	537
	Total Calcium (mg/L)	55.6	110	110	141
	Total Magnesium (mg/L)	23.8	98.1	69.4	45.1
	Dissolved Copper (µg/L)	3.5	9.2	55	5.1
	Dissolved Lead (µg/L)	DNQ (0.050)	0.38	0.26	DNQ (0.040)
	Dissolved Zinc (µg/L)	DNQ (3.8)	12	6.1	7.3
	Total Coliform (MPN/100 mL)	248,100	63,700	517,200	6,131
	E. coli (MPN/100 mL)	2,143	4,352	31	31
Estimated Flow	Flow Status	Flowing	Flowing	Flowing	Flowing
	Water Width (ft.)	2.0	1.0	5.0	0.5
	Water Depth (ft.)	0.01	0.01	0.03	0.01
	Flow Velocity (ft/s)	1.00	1.00	0.01	1.00
	Flow Rate (ft^3/s)	0.02	0.01	0.00	0.01
	Comments	* Previously reported incorrectly as Gabbert Drain. Channel dammed for construction downstream of sampling site. Water ponded at dam. Collected samples upstream of ponding	Samples collected between bridges downstream of site. White powdery material present upstream where pipe discharges from athletic center	pH measured twice (9.05, 9.11)	

	Site ID	Simi Valley-1	Thousand Oaks-1	Ventura-1
		MO-SIM	MO-THO	MO-VEN
	At Major Outfall?	Yes	Yes	Yes
	Location	Bus Canyon Drain	North Fork Arroyo Conejo at Hill Canyon WWTP	Moon Ditch
	Date	08/13/13	08/13/13	08/12/13
	Time	1030	1125	0855
Site Description	Conveyence Type	Box culvert	Natural channel	Trapezoidal channel
	Dimensions	7' x 16'	N/A	7.5' x 20'(toe) x 35'(top)
	Dominant Land Use	Commercial & residential	Commercial, residential & rural	Commercial & residential
	Site Elevation	760	280	70
Weather	Weather	Clear	Clear	Overcast
	Wind Condtion	Slight breeze	Slight breeze	Calm
	Air Temp. (^{0}F)	76	70	70
Trash	Trash (general area)	Light	None	Light
	Trash (stream banks)	High	None	Light
Observations	Water Clarity	Clear	Clear	Clear
	Water Color	Clear	Clear	Yellow
	Odors	None	None	None
	Floatables	None	None	None
	Foam	N/A	N/A	N/A
	Stains/ deposits	N/A	N/A	N/A
	Structural condition	Concrete channel	Rip-rap with natural bottom	Concrete channel
	Vegetation Condition	N/A	Healthy	N/A
	Biology	N/A	Multiple small (~1") fish	N/A
	Algae (suspended)	N/A	N/A	N/A
	Algae (substrate)	Green 70%	N/A	Brown 30%
Water Chemistry (Field)	Dissolved Oxygen (%)	161.7	121.3	117.3
	Dissolved Oxygen (mg/L)	14.15	11.23	9.99
	Conductivity (µS)	2519	1725	6360
	Specific Conductance (µS)	2697	1960	6700
	Salinity (ppt)	1.4	1.0	3.7
	Water Temp. (^{0}C)	21.6	18.8	22.4
	Water Temp. (^{0}F)	70.9	65.8	72.3
	pH	7.98	8.01	8.51
	Turbidity (NTU)	1.84	2.12	4.48
Water Chemistry (Lab)	Total Organic Carbon (mg/L)	2.5	3.0	54
	Total Hardness as $CaCO_3$ (mg/L)	1170	699	2120
	Total Calcium (mg/L)	298	105	362
	Total Magnesium (mg/L)	104	106	296
	Dissolved Copper (µg/L)	0.50	0.60	74
	Dissolved Lead (µg/L)	ND (-0.024)	ND (-0.024)	0.51
	Dissolved Zinc (µg/L)	DNQ (2.6)	DNQ (2.4)	11
	Total Coliform (MPN/100 mL)	>24,196**	15,531	770,100
	E. coli (MPN/100 mL)	31	309	364
Estimated Flow	Flow Status	Flowing	Flowing	Flowing
	Water Width (ft.)	6.0	12.0	3.0
	Water Depth (ft.)	0.05	1.00	0.03
	Flow Velocity (ft/s)	2.00	0.08	0.30
	Flow Rate (ft^3/s)	0.60	0.96	0.03
	Comments	** 1:10 dilution >24,196 but 1:1000 dilution <1,000	Flow from 4230=1cfs	pH measured twice (8.51, 8.51)

Appendix G. Laboratory Environmental Analysis Results

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
DRY-HUE3	2013-DRY	Dry	8/12/2013 10:35:00 AM	8/13/2013 9:30:00 AM	E. Coli	n/a	=	14136	MPN/100 mL	MMO-MUG	10	10	VCHCA	
DRY-HUE3	2013-DRY	Dry	8/12/2013 10:35:00 AM	8/13/2013 9:30:00 AM	Total Coliform	n/a	=	88200	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	
DRY-HUE3	2013-DRY	Dry	8/12/2013 10:35:00 AM	8/22/2013 12:09:00 PM	Calcium	Total	=	249	mg/L	EPA 200.7	0.016	0.1	WKL	
DRY-HUE3	2013-DRY	Dry	8/12/2013 10:35:00 AM	8/22/2013 12:09:00 PM	Magnesium	Total	=	89.7	mg/L	EPA 200.7	0.012	0.1	WKL	
DRY-HUE3	2013-DRY	Dry	8/12/2013 10:35:00 AM	8/12/2013 10:35:00 AM	Conductivity	n/a	=	2918	µmhos/cm	Field Meter	-88	1	Field Crew	
DRY-HUE3	2013-DRY	Dry	8/12/2013 10:35:00 AM	8/12/2013 10:35:00 AM	Discharge	n/a	=	0.08	cfs	Field Estimate	-88	-88	Field Crew	
DRY-HUE3	2013-DRY	Dry	8/12/2013 10:35:00 AM	8/12/2013 10:35:00 AM	DO	n/a	=	2.73	mg/L	Field Meter	-88	0.3	Field Crew	
DRY-HUE3	2013-DRY	Dry	8/12/2013 10:35:00 AM	8/12/2013 10:35:00 AM	DO	n/a	=	29.1	%	Field Meter	-88	0.1	Field Crew	
DRY-HUE3	2013-DRY	Dry	8/12/2013 10:35:00 AM	8/22/2013 12:09:00 PM	Hardness as CaCO3	Total	=	991	mg/L	EPA 200.7	0.0894	0.662	WKL	
DRY-HUE3	2013-DRY	Dry	8/12/2013 10:35:00 AM	8/12/2013 10:35:00 AM	pH	n/a	=	7.26	pH Units	Field Meter	-88	0.01	Field Crew	
DRY-HUE3	2013-DRY	Dry	8/12/2013 10:35:00 AM	8/12/2013 10:35:00 AM	Salinity	n/a	=	1700	mg/L	Field Meter	-88	100	Field Crew	
DRY-HUE3	2013-DRY	Dry	8/12/2013 10:35:00 AM	8/12/2013 10:35:00 AM	Specific Conductance	n/a	=	3264	µmhos/cm	Field Meter	-88	1	Field Crew	
DRY-HUE3	2013-DRY	Dry	8/12/2013 10:35:00 AM	8/12/2013 10:35:00 AM	Temperature	n/a	=	19.5	°C	Field Meter	-88	0.1	Field Crew	
DRY-HUE3	2013-DRY	Dry	8/12/2013 10:35:00 AM	8/19/2013 7:05:00 PM	Total Organic Carbon	n/a	=	5.2	mg/L	SM 5310 C	0.036	1.2	WKL	D
DRY-HUE3	2013-DRY	Dry	8/12/2013 10:35:00 AM	8/12/2013 10:35:00 AM	Turbidity	n/a	=	21.7	NTU	Field Meter	-88	0.01	Field Crew	
DRY-HUE3	2013-DRY	Dry	8/12/2013 10:35:00 AM	8/23/2013 11:45:00 PM	Copper	Dissolved	DNQ	0.23	µg/L	EPA 200.8	0.036	0.5	WKL	
DRY-HUE3	2013-DRY	Dry	8/12/2013 10:35:00 AM	8/23/2013 11:45:00 PM	Lead	Dissolved	<	0.024	µg/L	EPA 200.8	0.024	0.2	WKL	
DRY-HUE3	2013-DRY	Dry	8/12/2013 10:35:00 AM	8/23/2013 11:45:00 PM	Zinc	Dissolved	DNQ	2.5	µg/L	EPA 200.8	0.5	5	WKL	
DRY-UNI4	2013-DRY	Dry	8/13/2013 12:00:00 PM	8/14/2013 9:00:00 AM	E. Coli	n/a	=	12033	MPN/100 mL	MMO-MUG	10	10	VCHCA	
DRY-UNI4	2013-DRY	Dry	8/13/2013 12:00:00 PM	8/14/2013 9:00:00 AM	Total Coliform	n/a	=	410600	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	
DRY-UNI4	2013-DRY	Dry	8/13/2013 12:00:00 PM	8/22/2013 12:19:00 PM	Calcium	Total	=	72.6	mg/L	EPA 200.7	0.016	0.1	WKL	
DRY-UNI4	2013-DRY	Dry	8/13/2013 12:00:00 PM	8/22/2013 12:19:00 PM	Magnesium	Total	=	81.5	mg/L	EPA 200.7	0.012	0.1	WKL	
DRY-UNI4	2013-DRY	Dry	8/13/2013 12:00:00 PM	8/13/2013 12:00:00 PM	Conductivity	n/a	=	1182	µmhos/cm	Field Meter	-88	1	Field Crew	
DRY-UNI4	2013-DRY	Dry	8/13/2013 12:00:00 PM	8/13/2013 12:00:00 PM	Discharge	n/a	=	0.02	cfs	Field Estimate	-88	-88	Field Crew	
DRY-UNI4	2013-DRY	Dry	8/13/2013 12:00:00 PM	8/13/2013 12:00:00 PM	DO	n/a	=	97.3	%	Field Meter	-88	0.1	Field Crew	
DRY-UNI4	2013-DRY	Dry	8/13/2013 12:00:00 PM	8/13/2013 12:00:00 PM	DO	n/a	=	8.88	mg/L	Field Meter	-88	0.3	Field Crew	
DRY-UNI4	2013-DRY	Dry	8/13/2013 12:00:00 PM	8/22/2013 12:19:00 PM	Hardness as CaCO3	Total	=	517	mg/L	EPA 200.7	0.0894	0.662	WKL	
DRY-UNI4	2013-DRY	Dry	8/13/2013 12:00:00 PM	8/13/2013 12:00:00 PM	pH	n/a	=	8.26	pH Units	Field Meter	-88	0.01	Field Crew	
DRY-UNI4	2013-DRY	Dry	8/13/2013 12:00:00 PM	8/13/2013 12:00:00 PM	Salinity	n/a	=	700	mg/L	Field Meter	-88	100	Field Crew	
DRY-UNI4	2013-DRY	Dry	8/13/2013 12:00:00 PM	8/13/2013 12:00:00 PM	Specific Conductance	n/a	=	1322	µmhos/cm	Field Meter	-88	1	Field Crew	
DRY-UNI4	2013-DRY	Dry	8/13/2013 12:00:00 PM	8/13/2013 12:00:00 PM	Temperature	n/a	=	19.4	°C	Field Meter	-88	0.1	Field Crew	
DRY-UNI4	2013-DRY	Dry	8/13/2013 12:00:00 PM	8/28/2013 1:42:00 PM	Total Organic Carbon	n/a	=	16	mg/L	SM 5310 C	0.09	3	WKL	D
DRY-UNI4	2013-DRY	Dry	8/13/2013 12:00:00 PM	8/13/2013 12:00:00 PM	Turbidity	n/a	=	3.35	NTU	Field Meter	-88	0.01	Field Crew	
DRY-UNI4	2013-DRY	Dry	8/13/2013 12:00:00 PM	8/24/2013 12:42:00 AM	Copper	Dissolved	=	7.4	µg/L	EPA 200.8	0.036	0.5	WKL	
DRY-UNI4	2013-DRY	Dry	8/13/2013 12:00:00 PM	8/24/2013 12:42:00 AM	Lead	Dissolved	<	0.024	µg/L	EPA 200.8	0.024	0.2	WKL	
DRY-UNI4	2013-DRY	Dry	8/13/2013 12:00:00 PM	8/24/2013 12:42:00 AM	Zinc	Dissolved	DNQ	3.8	µg/L	EPA 200.8	0.5	5	WKL	
ME-CC	2012/13-2	Wet	11/17/2012 11:05:00 AM	11/18/2012 7:56:00 AM	E. Coli	n/a	=	11199	MPN/100 mL	MMO-MUG	10	10	VCHCA	
ME-CC	2012/13-2	Wet	11/17/2012 11:05:00 AM	11/18/2012 1:14:00 PM	Enterococcus	n/a	=	5794	MPN/100 mL	Enterolert	10	10	VCHCA	
ME-CC	2012/13-2	Wet	11/17/2012 11:05:00 AM	11/21/2012 1:08:00 PM	Fecal Coliform	n/a	=	16000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
ME-CC	2012/13-2	Wet	11/17/2012 11:05:00 AM	11/18/2012 7:56:00 AM	Total Coliform	n/a	=	260200	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	
ME-CC	2012/13-2	Wet	11/17/2012 11:05:00 AM	11/17/2012 11:05:00 AM	Conductivity	n/a	=	1095	µmhos/cm	Field Meter	-88	1	Field Crew	
ME-CC	2012/13-2	Wet	11/17/2012 11:05:00 AM	12/6/2012 9:26:00 PM	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
ME-CC	2012/13-2	Wet	11/17/2012 11:05:00 AM	11/17/2012 11:05:00 AM	DO	n/a	=	7.35	mg/L	Field Meter	-88	0.3	Field Crew	
ME-CC	2012/13-2	Wet	11/17/2012 11:05:00 AM	11/17/2012 11:05:00 AM	DO	n/a	=	77.9	%	Field Meter	-88	0.1	Field Crew	
ME-CC	2012/13-2	Wet	11/17/2012 11:05:00 AM	11/17/2012 11:05:00 AM	pH	n/a	=	7.51	pH Units	Field Meter	-88	0.01	Field Crew	
ME-CC	2012/13-2	Wet	11/17/2012 11:05:00 AM	11/17/2012 11:05:00 AM	Salinity	n/a	=	500	mg/L	Field Meter	-88	100	Field Crew	
ME-CC	2012/13-2	Wet	11/17/2012 11:05:00 AM	11/17/2012 11:05:00 AM	Specific Conductance	n/a	=	1167	µmhos/cm	Field Meter	-88	1	Field Crew	
ME-CC	2012/13-2	Wet	11/17/2012 11:05:00 AM	11/17/2012 11:05:00 AM	Temperature	n/a	=	17.7	°C	Field Meter	-88	0.1	Field Crew	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-CC	2012/13-2	Wet	11/17/2012 11:05:00 AM	11/27/2012 4:55:00 PM	Oil and Grease	n/a	<	1.3	mg/L	EPA 1664A	1.3	5	WKL	
ME-CC	2012/13-2	Wet	11/17/2012 11:05:00 AM	11/27/2012 4:55:00 PM	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
ME-CC	2012/13-2	Wet	11/17/2012 11:05:00 AM	11/27/2012 4:02:00 PM	2-Chloroethyl vinyl ether	n/a	<	0.61	µg/L	EPA 524.2	0.61	1	WKL	
ME-CC	2012/13-2	Wet	11/17/2012 11:05:00 AM	11/27/2012 4:02:00 PM	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/27/2012 10:55:00 PM	Chloride	n/a	=	140	mg/L	EPA 300.0	1	5	WKL	D
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/27/2012 10:55:00 PM	Fluoride	n/a	=	0.36	mg/L	EPA 300.0	0.04	0.2	WKL	D
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/21/2012 4:57:00 PM	Perchlorate	n/a	<	1.9	µg/L	EPA 314.0	1.9	4	WKL	D, DF
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/27/2012 5:13:00 PM	Calcium	Total	=	63.8	mg/L	EPA 200.7	0.0156	0.1	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/27/2012 5:13:00 PM	Magnesium	Total	=	42.7	mg/L	EPA 200.7	0.0121	0.1	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/30/2012 4:45:00 PM	Alkalinity as CaCO3	n/a	=	180	mg/L	SM 2320 B	0.56	2	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/24/2012 12:30:00 PM	BOD	n/a	=	6.8	mg/L	SM 5210 B	0.1	2	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/27/2012 9:06:00 AM	COD	n/a	=	44	mg/L	EPA 410.4	0.73	5	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/27/2012 5:13:00 PM	Hardness as CaCO3	Total	=	335	mg/L	EPA 200.7	0.0885	0.662	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/19/2012 9:46:00 PM	MBAS	n/a	DNQ	0.03	mg/L	SM 5540 C	0.019	0.05	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/30/2012 2:37:00 PM	Phenolics	n/a	=	0.037	mg/L	EPA 420.4	0.0042	0.01	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/30/2012 11:00:00 AM	Specific Conductance	n/a	=	1200	µmhos/cm	SM 2510 B	0.23	2	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/19/2012 9:08:00 PM	Total Chlorine Residual	n/a	DNQ	0.026	mg/L	SM 4500-Cl G	0.003	0.1	WKL	BV, D, DF
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/21/2012 11:58:00 AM	Total Dissolved Solids	n/a	=	720	mg/L	SM 2540 C	4	10	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/26/2012 10:48:00 AM	Total Organic Carbon	n/a	=	9.4	mg/L	SM 5310 C	0.045	1.5	WKL	D
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/20/2012 7:20:00 PM	Total Suspended Solids	n/a	=	88	mg/L	SM 2540 D	5	5	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/19/2012 10:13:00 PM	Turbidity	n/a	=	48	NTU	EPA 180.1	0.024	0.1	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/20/2012 7:20:00 PM	Volatile Suspended Solids	n/a	=	13	mg/L	EPA 160.4	3.1	5	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	12/1/2012 12:52:00 AM	Aluminum	Dissolved	DNQ	4.9	µg/L	EPA 200.8	0.61	5	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	12/1/2012 12:59:00 AM	Aluminum	Total	=	2200	µg/L	EPA 200.8	0.61	5	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	12/1/2012 12:52:00 AM	Antimony	Dissolved	=	0.64	µg/L	EPA 200.8	0.04	0.5	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	12/1/2012 12:59:00 AM	Antimony	Total	=	0.67	µg/L	EPA 200.8	0.04	0.5	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	12/1/2012 12:52:00 AM	Arsenic	Dissolved	=	3.6	µg/L	EPA 200.8	0.036	0.4	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	12/1/2012 12:59:00 AM	Arsenic	Total	=	4.5	µg/L	EPA 200.8	0.036	0.4	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	12/1/2012 12:59:00 AM	Barium	Total	=	48	µg/L	EPA 200.8	0.03	0.5	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	12/1/2012 12:52:00 AM	Beryllium	Dissolved	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	12/1/2012 12:59:00 AM	Beryllium	Total	=	0.1	µg/L	EPA 200.8	0.088	0.1	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	12/1/2012 12:52:00 AM	Cadmium	Dissolved	=	0.24	µg/L	EPA 200.8	0.02	0.1	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	12/1/2012 12:59:00 AM	Cadmium	Total	=	0.44	µg/L	EPA 200.8	0.02	0.1	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	12/1/2012 12:52:00 AM	Chromium	Dissolved	=	0.29	µg/L	EPA 200.8	0.074	0.2	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	12/1/2012 12:59:00 AM	Chromium	Total	=	6.4	µg/L	EPA 200.8	0.074	0.2	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	12/3/2012 7:33:00 PM	Chromium VI	n/a	DNQ	0.28	µg/L	EPA 218.6	0.0059	0.3	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	12/1/2012 12:52:00 AM	Copper	Dissolved	=	4.7	µg/L	EPA 200.8	0.27	0.5	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	12/1/2012 12:59:00 AM	Copper	Total	=	11	µg/L	EPA 200.8	0.27	0.5	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/27/2012 5:11:00 PM	Iron	Dissolved	=	22	µg/L	EPA 200.7	1.1	10	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/27/2012 5:13:00 PM	Iron	Total	=	3600	µg/L	EPA 200.7	1.1	10	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	12/1/2012 12:52:00 AM	Lead	Dissolved	DNQ	0.11	µg/L	EPA 200.8	0.011	0.2	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	12/1/2012 12:59:00 AM	Lead	Total	=	2.8	µg/L	EPA 200.8	0.011	0.2	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	12/11/2012 3:45:00 PM	Mercury	Dissolved	DNQ	21	ng/L	EPA 245.1	3.9	50	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	12/11/2012 3:45:00 PM	Mercury	Total	DNQ	38	ng/L	EPA 245.1	3.9	50	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	12/1/2012 12:52:00 AM	Nickel	Dissolved	=	4.5	µg/L	EPA 200.8	0.13	0.8	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	12/1/2012 12:59:00 AM	Nickel	Total	=	9.4	µg/L	EPA 200.8	0.13	0.8	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	12/1/2012 12:52:00 AM	Selenium	Dissolved	=	1.4	µg/L	EPA 200.8	0.28	0.4	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	12/1/2012 12:59:00 AM	Selenium	Total	=	1.5	µg/L	EPA 200.8	0.28	0.4	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	12/1/2012 12:52:00 AM	Silver	Dissolved	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	12/1/2012 12:59:00 AM	Silver	Total	DNQ	0.05	µg/L	EPA 200.8	0.027	0.2	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	12/1/2012 12:52:00 AM	Thallium	Dissolved	DNQ	0.02	µg/L	EPA 200.8	0.009	0.2	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	12/1/2012 12:59:00 AM	Thallium	Total	DNQ	0.06	µg/L	EPA 200.8	0.009	0.2	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	12/1/2012 12:52:00 AM	Zinc	Dissolved	=	14	µg/L	EPA 200.8	1.1	5	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	12/1/2012 12:59:00 AM	Zinc	Total	=	38	µg/L	EPA 200.8	1.1	5	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	12/5/2012 5:29:00 PM	Ammonia as N	n/a	=	0.32	mg/L	EPA 350.1	0.048	0.1	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/19/2012 7:13:00 PM	Nitrate + Nitrite as N	n/a	=	5.5	mg/L	EPA 353.2	0.01	0.1	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/19/2012 7:13:00 PM	Nitrate as N	n/a	=	5.3	mg/L	EPA 353.2	0.041	0.1	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	12/14/2012 12:19:00 PM	Phosphorus as P	Dissolved	=	1.8	mg/L	EPA 365.1	0.07	0.5	WKL	DG
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	12/3/2012 8:19:00 PM	Phosphorus as P	Total	=	2.5	mg/L	EPA 365.1	0.07	0.5	WKL	DG
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/28/2012 3:42:00 PM	TKN	n/a	=	2.4	mg/L	EPA 351.2	0.074	0.1	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/27/2012 10:34:00 PM	1,2,4-Trichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/27/2012 10:34:00 PM	1,2-Dichlorobenzene	n/a	<	0.57	µg/L	EPA 625	0.57	1	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/27/2012 10:34:00 PM	1,2-Diphenylhydrazine	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/27/2012 10:34:00 PM	1,3-Dichlorobenzene	n/a	<	0.53	µg/L	EPA 625	0.53	1	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/27/2012 10:34:00 PM	1,4-Dichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/28/2012 11:32:00 PM	1-Methylnaphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/29/2012 4:44:00 PM	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/29/2012 4:44:00 PM	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	EUM
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/29/2012 4:44:00 PM	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/29/2012 4:44:00 PM	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/29/2012 4:44:00 PM	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/27/2012 10:34:00 PM	2,4-Dinitrotoluene	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/27/2012 10:34:00 PM	2,6-Dinitrotoluene	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/27/2012 10:34:00 PM	2-Chloronaphthalene	n/a	<	0.45	µg/L	EPA 625	0.45	1	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/29/2012 4:44:00 PM	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	EUM
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/28/2012 11:32:00 PM	2-Methylnaphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/29/2012 4:44:00 PM	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/29/2012 4:44:00 PM	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/27/2012 10:34:00 PM	3,3'-Dichlorobenzidine	n/a	<	1.2	µg/L	EPA 625	1.2	5	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/29/2012 4:44:00 PM	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/29/2012 4:44:00 PM	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/27/2012 10:34:00 PM	4-Bromophenyl phenyl ether	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/29/2012 4:44:00 PM	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/27/2012 10:34:00 PM	4-Chlorophenyl phenyl ether	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/29/2012 4:44:00 PM	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/28/2012 11:32:00 PM	Acenaphthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	EUM
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/28/2012 11:32:00 PM	Acenaphthylene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/28/2012 11:32:00 PM	Anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/28/2012 11:32:00 PM	Benz(a)anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/27/2012 10:34:00 PM	Benzidine	n/a	<	3.7	µg/L	EPA 625	3.7	10	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	12/4/2012 3:10:00 AM	Benzo(a)pyrene	n/a	=	0.16	µg/L	EPA 525.2	0.07	0.1	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/28/2012 11:32:00 PM	Benzo(b)fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/28/2012 11:32:00 PM	Benzo(g,h,i)perylene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/28/2012 11:32:00 PM	Benzo(k)fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/27/2012 10:34:00 PM	Bis(2-chloroethoxy)methane	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/27/2012 10:34:00 PM	Bis(2-chloroethyl)ether	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/27/2012 10:34:00 PM	Bis(2-chloroisopropyl)ether	n/a	<	0.38	µg/L	EPA 625	0.38	1	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	12/4/2012 3:10:00 AM	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	12/4/2012 3:10:00 AM	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/27/2012 10:34:00 PM	Butyl benzyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/28/2012 11:32:00 PM	Chrysene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/28/2012 11:32:00 PM	Dibenz(a,h)anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/27/2012 10:34:00 PM	Diethyl phthalate	n/a	=	1.1	µg/L	EPA 625	0.15	1	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/27/2012 10:34:00 PM	Dimethyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/27/2012 10:34:00 PM	Di-n-butylphthalate	n/a	<	0.24	µg/L	EPA 625	0.24	1	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/27/2012 10:34:00 PM	Di-n-octylphthalate	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/28/2012 11:32:00 PM	Fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/28/2012 11:32:00 PM	Fluorene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	EUM
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/27/2012 10:34:00 PM	Hexachlorobenzene	n/a	<	0.49	µg/L	EPA 625	0.49	1	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/27/2012 10:34:00 PM	Hexachlorobutadiene	n/a	<	0.47	µg/L	EPA 625	0.47	1	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/27/2012 10:34:00 PM	Hexachlorocyclopentadiene	n/a	<	1.5	µg/L	EPA 625	1.5	5	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/27/2012 10:34:00 PM	Hexachloroethane	n/a	<	0.52	µg/L	EPA 625	0.52	1	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/28/2012 11:32:00 PM	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/27/2012 10:34:00 PM	Isophorone	n/a	<	0.21	µg/L	EPA 625	0.21	1	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/28/2012 11:32:00 PM	Naphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/27/2012 10:34:00 PM	Nitrobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/27/2012 10:34:00 PM	N-Nitrosodimethylamine	n/a	<	0.14	µg/L	EPA 625	0.14	1	WKL	EUM
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/27/2012 10:34:00 PM	N-Nitrosodi-N-propylamine	n/a	<	0.26	µg/L	EPA 625	0.26	1	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/27/2012 10:34:00 PM	N-Nitrosodiphenylamine	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/28/2012 11:32:00 PM	Phenanthrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	EUM
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/29/2012 4:44:00 PM	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/28/2012 11:32:00 PM	Pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	EUM
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/27/2012 10:29:00 PM	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/27/2012 10:29:00 PM	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/27/2012 10:29:00 PM	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/27/2012 10:29:00 PM	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/27/2012 10:29:00 PM	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/27/2012 10:29:00 PM	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/27/2012 10:29:00 PM	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	12/1/2012 8:54:00 PM	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	12/1/2012 8:54:00 PM	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	12/1/2012 8:54:00 PM	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	12/1/2012 8:54:00 PM	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	12/1/2012 8:54:00 PM	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/27/2012 10:29:00 PM	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/27/2012 10:29:00 PM	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/27/2012 10:29:00 PM	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	12/1/2012 8:54:00 PM	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	12/4/2012 3:10:00 AM	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/27/2012 10:29:00 PM	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/27/2012 10:29:00 PM	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/27/2012 10:29:00 PM	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	12/4/2012 3:10:00 AM	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	12/13/2012 2:49:00 PM	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	EUM

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	12/1/2012 8:54:00 PM	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/27/2012 10:29:00 PM	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	12/13/2012 2:49:00 PM	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	12/4/2012 3:10:00 AM	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	12/4/2012 3:10:00 AM	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	12/4/2012 3:10:00 AM	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/27/2012 10:29:00 PM	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	12/4/2012 3:10:00 AM	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	12/13/2012 2:49:00 PM	Chlorpyrifos	n/a	=	0.24	µg/L	EPA 525.2	0.0069	0.01	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	12/13/2012 2:49:00 PM	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	12/4/2012 3:10:00 AM	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	12/1/2012 8:54:00 PM	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	12/1/2012 8:54:00 PM	DCPA (Dacthal)	n/a	=	0.84	µg/L	EPA 515.3	0.07	0.1	WKL	GB
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/27/2012 10:29:00 PM	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	12/13/2012 2:49:00 PM	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	12/13/2012 2:49:00 PM	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	12/13/2012 2:49:00 PM	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	12/1/2012 8:54:00 PM	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	12/1/2012 8:54:00 PM	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	12/13/2012 2:49:00 PM	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/27/2012 10:29:00 PM	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	12/13/2012 2:49:00 PM	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	12/1/2012 8:54:00 PM	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	12/4/2012 3:10:00 AM	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	12/13/2012 2:49:00 PM	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/27/2012 10:29:00 PM	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/27/2012 10:29:00 PM	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/27/2012 10:29:00 PM	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/27/2012 10:29:00 PM	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/27/2012 10:29:00 PM	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	12/4/2012 3:10:00 AM	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	12/13/2012 2:49:00 PM	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	12/13/2012 2:49:00 PM	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	12/13/2012 2:49:00 PM	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	12/13/2012 2:49:00 PM	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/27/2012 10:29:00 PM	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/27/2012 10:29:00 PM	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/28/2012 6:40:00 PM	Glyphosate	n/a	=	9	µg/L	EPA 547	1.8	5	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/27/2012 10:29:00 PM	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/27/2012 10:29:00 PM	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	12/13/2012 2:49:00 PM	Malathion	n/a	=	0.021	µg/L	EPA 525.2	0.0076	0.01	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	12/13/2012 2:49:00 PM	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/27/2012 10:29:00 PM	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	12/13/2012 2:49:00 PM	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	12/4/2012 3:10:00 AM	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	12/4/2012 3:10:00 AM	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	12/13/2012 2:49:00 PM	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	12/4/2012 3:10:00 AM	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	12/13/2012 2:49:00 PM	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.1	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	12/1/2012 8:54:00 PM	Pentachlorophenol	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.2	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	12/13/2012 2:49:00 PM	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	12/1/2012 8:54:00 PM	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	12/4/2012 3:10:00 AM	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	12/4/2012 3:10:00 AM	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	12/13/2012 2:49:00 PM	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	12/4/2012 3:10:00 AM	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	12/13/2012 2:49:00 PM	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	12/4/2012 3:10:00 AM	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	12/4/2012 3:10:00 AM	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	12/13/2012 2:49:00 PM	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	11/27/2012 10:29:00 PM	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	12/13/2012 2:49:00 PM	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
ME-CC	2012/13-2	Wet	11/18/2012 8:50:00 AM	12/4/2012 3:10:00 AM	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
ME-CC	2012/13-3	Wet	2/19/2013 8:20:00 PM	2/20/2013 6:30:00 PM	E. Coli	n/a	=	373	MPN/100 mL	MMO-MUG	10	10	VCHCA	
ME-CC	2012/13-3	Wet	2/19/2013 8:20:00 PM	2/21/2013 12:38:00 AM	Enterococcus	n/a	=	109	MPN/100 mL	Enterolert	10	10	VCHCA	
ME-CC	2012/13-3	Wet	2/19/2013 8:20:00 PM	2/23/2013 9:58:00 PM	Fecal Coliform	n/a	=	2400	MPN/100 mL	SM 9221 E	2	2	VCHCA	
ME-CC	2012/13-3	Wet	2/19/2013 8:20:00 PM	2/20/2013 6:30:00 PM	Total Coliform	n/a	=	48000	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	
ME-CC	2012/13-3	Wet	2/19/2013 8:20:00 PM	2/19/2013 8:20:00 PM	Conductivity	n/a	=	1267	µmhos/cm	Field Meter	-88	1	Field Crew	
ME-CC	2012/13-3	Wet	2/19/2013 8:20:00 PM	3/2/2013 4:12:00 PM	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
ME-CC	2012/13-3	Wet	2/19/2013 8:20:00 PM	2/19/2013 8:20:00 PM	DO	n/a	=	79.8	%	Field Meter	-88	0.1	Field Crew	
ME-CC	2012/13-3	Wet	2/19/2013 8:20:00 PM	2/19/2013 8:20:00 PM	DO	n/a	=	7.37	mg/L	Field Meter	-88	0.3	Field Crew	
ME-CC	2012/13-3	Wet	2/19/2013 8:20:00 PM	2/19/2013 8:20:00 PM	pH	n/a	=	8.08	pH Units	Field Meter	-88	0.01	Field Crew	
ME-CC	2012/13-3	Wet	2/19/2013 8:20:00 PM	2/19/2013 8:20:00 PM	Salinity	n/a	=	800	mg/L	Field Meter	-88	100	Field Crew	
ME-CC	2012/13-3	Wet	2/19/2013 8:20:00 PM	2/19/2013 8:20:00 PM	Specific Conductance	n/a	=	1601	µmhos/cm	Field Meter	-88	1	Field Crew	
ME-CC	2012/13-3	Wet	2/19/2013 8:20:00 PM	2/19/2013 8:20:00 PM	Temperature	n/a	=	14.1	°C	Field Meter	-88	0.1	Field Crew	
ME-CC	2012/13-3	Wet	2/19/2013 8:20:00 PM	3/4/2013 6:09:00 PM	Oil and Grease	n/a	<	1.3	mg/L	EPA 1664A	1.3	5	WKL	
ME-CC	2012/13-3	Wet	2/19/2013 8:20:00 PM	3/4/2013 6:09:00 PM	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
ME-CC	2012/13-3	Wet	2/19/2013 8:20:00 PM	2/27/2013 11:23:00 PM	2-Chloroethyl vinyl ether	n/a	<	0.61	µg/L	EPA 524.2	0.61	1	WKL	
ME-CC	2012/13-3	Wet	2/19/2013 8:20:00 PM	2/27/2013 11:23:00 PM	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	2/28/2013 12:03:00 PM	Chloride	n/a	=	160	mg/L	EPA 300.0	1	5	WKL	D
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	2/28/2013 12:03:00 PM	Fluoride	n/a	=	0.54	mg/L	EPA 300.0	0.02	0.1	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/1/2013 4:10:00 PM	Perchlorate	n/a	<	1.9	µg/L	EPA 314.0	1.9	4	WKL	D
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	2/25/2013 1:41:00 PM	Calcium	Total	=	66.7	mg/L	EPA 200.7	0.0156	0.1	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	2/25/2013 1:41:00 PM	Magnesium	Total	=	40.7	mg/L	EPA 200.7	0.0121	0.1	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	2/25/2013 10:23:00 PM	Alkalinity as CaCO3	n/a	=	190	mg/L	SM 2320 B	0.56	2	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	2/26/2013 5:11:00 PM	BOD	n/a	=	8.5	mg/L	SM 5210 B	0.1	2	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/2/2013 4:05:00 PM	COD	n/a	=	36	mg/L	EPA 410.4	0.73	5	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	2/25/2013 1:41:00 PM	Hardness as CaCO3	Total	=	334	mg/L	EPA 200.7	0.0885	0.662	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	2/21/2013 9:38:00 PM	MBAS	n/a	DNQ	0.022	mg/L	SM 5540 C	0.019	0.05	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	2/25/2013 6:17:00 PM	Phenolics	n/a	=	0.064	mg/L	EPA 420.4	0.0042	0.01	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/4/2013 7:13:00 PM	Specific Conductance	n/a	=	1300	µmhos/cm	SM 2510 B	0.23	2	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	2/20/2013 8:19:00 PM	Total Chlorine Residual	n/a	=	0.056	mg/L	SM 4500-Cl G	0.0015	0.05	WKL	BV
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	2/26/2013 4:20:00 PM	Total Dissolved Solids	n/a	=	730	mg/L	SM 2540 C	4	10	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/4/2013 10:20:00 AM	Total Organic Carbon	n/a	=	7.3	mg/L	SM 5310 C	0.036	1.2	WKL	D
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	2/26/2013 8:27:00 PM	Total Suspended Solids	n/a	=	90	mg/L	SM 2540 D	5	5	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	2/21/2013 7:26:00 PM	Turbidity	n/a	=	25	NTU	EPA 180.1	0.024	0.1	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	2/26/2013 8:27:00 PM	Volatile Suspended Solids	n/a	<	3.1	mg/L	EPA 160.4	3.1	5	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/5/2013 1:48:00 PM	Aluminum	Dissolved	=	170	µg/L	EPA 200.8	0.61	5	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/5/2013 1:56:00 PM	Aluminum	Total	=	1100	µg/L	EPA 200.8	2.1	5	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/5/2013 1:48:00 PM	Antimony	Dissolved	DNQ	0.39	µg/L	EPA 200.8	0.04	0.5	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/5/2013 1:56:00 PM	Antimony	Total	DNQ	0.45	µg/L	EPA 200.8	0.04	0.5	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/5/2013 1:48:00 PM	Arsenic	Dissolved	=	3.2	µg/L	EPA 200.8	0.036	0.4	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/5/2013 1:56:00 PM	Arsenic	Total	=	3.3	µg/L	EPA 200.8	0.13	0.4	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/5/2013 1:56:00 PM	Barium	Total	=	36	µg/L	EPA 200.8	0.097	0.5	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/5/2013 1:48:00 PM	Beryllium	Dissolved	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/5/2013 1:56:00 PM	Beryllium	Total	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/5/2013 1:48:00 PM	Cadmium	Dissolved	=	0.26	µg/L	EPA 200.8	0.02	0.1	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/5/2013 1:56:00 PM	Cadmium	Total	=	0.27	µg/L	EPA 200.8	0.02	0.1	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/5/2013 1:48:00 PM	Chromium	Dissolved	=	0.75	µg/L	EPA 200.8	0.074	0.2	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/5/2013 1:56:00 PM	Chromium	Total	=	3.4	µg/L	EPA 200.8	0.074	0.2	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/4/2013 9:56:00 AM	Chromium VI	n/a	DNQ	0.17	µg/L	EPA 218.6	0.0059	0.3	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/5/2013 1:48:00 PM	Copper	Dissolved	=	6.2	µg/L	EPA 200.8	0.27	0.5	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/5/2013 1:56:00 PM	Copper	Total	=	7.2	µg/L	EPA 200.8	0.27	0.5	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	2/25/2013 1:39:00 PM	Iron	Dissolved	=	220	µg/L	EPA 200.7	1.1	10	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	2/25/2013 1:41:00 PM	Iron	Total	=	1500	µg/L	EPA 200.7	1.1	10	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/5/2013 1:48:00 PM	Lead	Dissolved	=	1.3	µg/L	EPA 200.8	0.011	0.2	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/5/2013 1:56:00 PM	Lead	Total	=	1.6	µg/L	EPA 200.8	0.035	0.2	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	2/25/2013 6:59:00 PM	Mercury	Dissolved	DNQ	10	ng/L	EPA 245.1	3.9	50	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	2/25/2013 6:59:00 PM	Mercury	Total	DNQ	24	ng/L	EPA 245.1	3.9	50	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/5/2013 1:48:00 PM	Nickel	Dissolved	=	4.2	µg/L	EPA 200.8	0.13	0.8	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/5/2013 1:56:00 PM	Nickel	Total	=	5.8	µg/L	EPA 200.8	0.13	0.8	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/5/2013 1:48:00 PM	Selenium	Dissolved	=	1.4	µg/L	EPA 200.8	0.28	0.4	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/5/2013 1:56:00 PM	Selenium	Total	=	1.4	µg/L	EPA 200.8	0.28	0.4	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/5/2013 1:48:00 PM	Silver	Dissolved	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/5/2013 1:56:00 PM	Silver	Total	DNQ	0.03	µg/L	EPA 200.8	0.027	0.2	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/5/2013 1:48:00 PM	Thallium	Dissolved	DNQ	0.01	µg/L	EPA 200.8	0.009	0.2	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/5/2013 1:56:00 PM	Thallium	Total	<	0.034	µg/L	EPA 200.8	0.034	0.2	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/5/2013 1:48:00 PM	Zinc	Dissolved	=	25	µg/L	EPA 200.8	1.1	5	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/5/2013 1:56:00 PM	Zinc	Total	=	27	µg/L	EPA 200.8	1.1	5	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/12/2013 6:37:00 PM	Ammonia as N	n/a	=	0.24	mg/L	EPA 350.1	0.048	0.1	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	2/21/2013 7:50:00 PM	Nitrate + Nitrite as N	n/a	=	4.7	mg/L	EPA 353.2	0.01	0.1	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	2/21/2013 7:50:00 PM	Nitrate as N	n/a	=	4.6	mg/L	EPA 353.2	0.041	0.1	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/14/2013 4:32:00 PM	Phosphorus as P	Dissolved	=	1.4	mg/L	EPA 365.1	0.035	0.25	WKL	D
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/5/2013 3:19:00 PM	Phosphorus as P	Total	=	1.7	mg/L	EPA 365.1	0.014	0.1	WKL	D
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/12/2013 10:08:00 PM	TKN	n/a	=	1.4	mg/L	EPA 351.2	0.074	0.1	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/6/2013 7:46:00 PM	1,2,4-Trichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	GB
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/6/2013 7:46:00 PM	1,2-Dichlorobenzene	n/a	<	0.57	µg/L	EPA 625	0.57	1	WKL	GB
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/6/2013 7:46:00 PM	1,2-Diphenylhydrazine	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/6/2013 7:46:00 PM	1,3-Dichlorobenzene	n/a	<	0.53	µg/L	EPA 625	0.53	1	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/6/2013 7:46:00 PM	1,4-Dichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/21/2013 5:51:00 AM	1-Methylnaphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/20/2013 9:33:00 PM	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/20/2013 9:33:00 PM	2,4,6-Trichlorophenol	n/a	DNQ	0.33	µg/L	EPA 8270Cm	0.3	1	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/20/2013 9:33:00 PM	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/20/2013 9:33:00 PM	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/20/2013 9:33:00 PM	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/6/2013 7:46:00 PM	2,4-Dinitrotoluene	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	GB
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/6/2013 7:46:00 PM	2,6-Dinitrotoluene	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	GB
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/6/2013 7:46:00 PM	2-Chloronaphthalene	n/a	<	0.45	µg/L	EPA 625	0.45	1	WKL	GB
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/20/2013 9:33:00 PM	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/21/2013 5:51:00 AM	2-Methylnaphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/20/2013 9:33:00 PM	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/20/2013 9:33:00 PM	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/6/2013 7:46:00 PM	3,3'-Dichlorobenzidine	n/a	<	1.2	µg/L	EPA 625	1.2	5	WKL	GB
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/20/2013 9:33:00 PM	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/20/2013 9:33:00 PM	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/6/2013 7:46:00 PM	4-Bromophenyl phenyl ether	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	GB
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/20/2013 9:33:00 PM	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/6/2013 7:46:00 PM	4-Chlorophenyl phenyl ether	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/20/2013 9:33:00 PM	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/21/2013 5:51:00 AM	Acenaphthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/21/2013 5:51:00 AM	Acenaphthylene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/21/2013 5:51:00 AM	Anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/21/2013 5:51:00 AM	Benz(a)anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/6/2013 7:46:00 PM	Benzidine	n/a	<	3.7	µg/L	EPA 625	3.7	10	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/15/2013 1:24:00 AM	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/21/2013 5:51:00 AM	Benzo(b)fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/21/2013 5:51:00 AM	Benzo(g,h,i)perylene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/21/2013 5:51:00 AM	Benzo(k)fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/6/2013 7:46:00 PM	Bis(2-chloroethoxy)methane	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	GB
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/6/2013 7:46:00 PM	Bis(2-chloroethyl)ether	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/6/2013 7:46:00 PM	Bis(2-chloroisopropyl)ether	n/a	<	0.38	µg/L	EPA 625	0.38	1	WKL	GB
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/15/2013 1:24:00 AM	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/15/2013 1:24:00 AM	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/6/2013 7:46:00 PM	Butyl benzyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/21/2013 5:51:00 AM	Chrysene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/21/2013 5:51:00 AM	Dibenz(a,h)anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/6/2013 7:46:00 PM	Diethyl phthalate	n/a	DNQ	0.43	µg/L	EPA 625	0.15	1	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/6/2013 7:46:00 PM	Dimethyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/6/2013 7:46:00 PM	Di-n-butylphthalate	n/a	<	0.24	µg/L	EPA 625	0.24	1	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/6/2013 7:46:00 PM	Di-n-octylphthalate	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/21/2013 5:51:00 AM	Fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/21/2013 5:51:00 AM	Fluorene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/6/2013 7:46:00 PM	Hexachlorobenzene	n/a	<	0.49	µg/L	EPA 625	0.49	1	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/6/2013 7:46:00 PM	Hexachlorobutadiene	n/a	<	0.47	µg/L	EPA 625	0.47	1	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/6/2013 7:46:00 PM	Hexachlorocyclopentadiene	n/a	<	1.5	µg/L	EPA 625	1.5	5	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/6/2013 7:46:00 PM	Hexachloroethane	n/a	<	0.52	µg/L	EPA 625	0.52	1	WKL	GB
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/21/2013 5:51:00 AM	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/6/2013 7:46:00 PM	Isophorone	n/a	<	0.21	µg/L	EPA 625	0.21	1	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/21/2013 5:51:00 AM	Naphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/6/2013 7:46:00 PM	Nitrobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	GB
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/6/2013 7:46:00 PM	N-Nitrosodimethylamine	n/a	<	0.14	µg/L	EPA 625	0.14	1	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/6/2013 7:46:00 PM	N-Nitrosodi-N-propylamine	n/a	<	0.26	µg/L	EPA 625	0.26	1	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/6/2013 7:46:00 PM	N-Nitrosodiphenylamine	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/21/2013 5:51:00 AM	Phenanthrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/20/2013 9:33:00 PM	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/21/2013 5:51:00 AM	Pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/14/2013 12:10:00 AM	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/14/2013 12:10:00 AM	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/14/2013 12:10:00 AM	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/14/2013 12:10:00 AM	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/14/2013 12:10:00 AM	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/14/2013 12:10:00 AM	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/14/2013 12:10:00 AM	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	2/26/2013 3:55:00 PM	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	2/26/2013 3:55:00 PM	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	2/26/2013 3:55:00 PM	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	2/26/2013 3:55:00 PM	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	2/26/2013 3:55:00 PM	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/14/2013 12:10:00 AM	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/14/2013 12:10:00 AM	4,4'-DDE	n/a	DNQ	0.022	µg/L	EPA 608	0.0025	0.05	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/14/2013 12:10:00 AM	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	2/26/2013 3:55:00 PM	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/15/2013 1:24:00 AM	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/14/2013 12:10:00 AM	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/14/2013 12:10:00 AM	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/14/2013 12:10:00 AM	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/15/2013 1:24:00 AM	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/15/2013 6:11:00 AM	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	2/26/2013 3:55:00 PM	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/14/2013 12:10:00 AM	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/15/2013 6:11:00 AM	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/15/2013 1:24:00 AM	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/15/2013 1:24:00 AM	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/15/2013 1:24:00 AM	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/14/2013 12:10:00 AM	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/15/2013 1:24:00 AM	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/15/2013 6:11:00 AM	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/15/2013 6:11:00 AM	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/15/2013 1:24:00 AM	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	2/26/2013 3:55:00 PM	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	2/26/2013 3:55:00 PM	DCPA (Dacthal)	n/a	=	1.2	µg/L	EPA 515.3	0.07	0.1	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/14/2013 12:10:00 AM	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/15/2013 6:11:00 AM	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/15/2013 6:11:00 AM	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/15/2013 6:11:00 AM	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	2/26/2013 3:55:00 PM	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	2/26/2013 3:55:00 PM	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/15/2013 6:11:00 AM	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/14/2013 12:10:00 AM	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/15/2013 6:11:00 AM	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	2/26/2013 3:55:00 PM	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/15/2013 1:24:00 AM	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/15/2013 6:11:00 AM	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/14/2013 12:10:00 AM	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/14/2013 12:10:00 AM	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/14/2013 12:10:00 AM	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/14/2013 12:10:00 AM	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/14/2013 12:10:00 AM	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/15/2013 1:24:00 AM	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/15/2013 6:11:00 AM	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/15/2013 6:11:00 AM	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/15/2013 6:11:00 AM	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/15/2013 6:11:00 AM	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/14/2013 12:10:00 AM	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/14/2013 12:10:00 AM	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	2/25/2013 5:50:00 PM	Glyphosate	n/a	=	14	µg/L	EPA 547	1.8	5	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/14/2013 12:10:00 AM	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/14/2013 12:10:00 AM	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/15/2013 6:11:00 AM	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/15/2013 6:11:00 AM	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/14/2013 12:10:00 AM	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/15/2013 6:11:00 AM	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/15/2013 1:24:00 AM	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/15/2013 1:24:00 AM	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/15/2013 6:11:00 AM	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/15/2013 1:24:00 AM	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/15/2013 6:11:00 AM	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	2/26/2013 3:55:00 PM	Pentachlorophenol	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.2	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/15/2013 6:11:00 AM	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	2/26/2013 3:55:00 PM	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/15/2013 1:24:00 AM	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/15/2013 1:24:00 AM	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/15/2013 6:11:00 AM	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/15/2013 1:24:00 AM	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/15/2013 6:11:00 AM	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/15/2013 1:24:00 AM	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/15/2013 1:24:00 AM	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/15/2013 6:11:00 AM	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/14/2013 12:10:00 AM	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/15/2013 6:11:00 AM	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
ME-CC	2012/13-3	Wet	2/20/2013 10:50:00 AM	3/15/2013 1:24:00 AM	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
ME-CC	2012/13-4	Wet	3/7/2013 11:27:00 PM	3/8/2013 11:02:00 PM	E. Coli	n/a	=	341	MPN/100 mL	MMO-MUG	10	10	VCHCA	
ME-CC	2012/13-4	Wet	3/7/2013 11:27:00 PM	3/9/2013 5:00:00 AM	Enterococcus	n/a	=	86	MPN/100 mL	Enterolert	10	10	VCHCA	
ME-CC	2012/13-4	Wet	3/7/2013 11:27:00 PM	3/11/2013 2:06:00 AM	Fecal Coliform	n/a	=	240	MPN/100 mL	SM 9221 E	2	2	VCHCA	
ME-CC	2012/13-4	Wet	3/7/2013 11:27:00 PM	3/8/2013 11:02:00 PM	Total Coliform	n/a	=	18700	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	
ME-CC	2012/13-4	Wet	3/7/2013 11:27:00 PM	3/7/2013 11:27:00 PM	Conductivity	n/a	=	1250	µmhos/cm	Field Meter	-88	1	Field Crew	
ME-CC	2012/13-4	Wet	3/7/2013 11:27:00 PM	3/22/2013 1:57:00 PM	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-CC	2012/13-4	Wet	3/7/2013 11:27:00 PM	3/7/2013 11:27:00 PM	DO	n/a	=	70.7	%	Field Meter	-88	0.1	Field Crew	
ME-CC	2012/13-4	Wet	3/7/2013 11:27:00 PM	3/7/2013 11:27:00 PM	DO	n/a	=	6.69	mg/L	Field Meter	-88	0.3	Field Crew	
ME-CC	2012/13-4	Wet	3/7/2013 11:27:00 PM	3/7/2013 11:27:00 PM	pH	n/a	=	7.92	pH Units	Field Meter	-88	0.01	Field Crew	
ME-CC	2012/13-4	Wet	3/7/2013 11:27:00 PM	3/7/2013 11:27:00 PM	Salinity	n/a	=	700	mg/L	Field Meter	-88	100	Field Crew	
ME-CC	2012/13-4	Wet	3/7/2013 11:27:00 PM	3/7/2013 11:27:00 PM	Specific Conductance	n/a	=	1461	µmhos/cm	Field Meter	-88	1	Field Crew	
ME-CC	2012/13-4	Wet	3/7/2013 11:27:00 PM	3/7/2013 11:27:00 PM	Temperature	n/a	=	15.7	°C	Field Meter	-88	0.1	Field Crew	
ME-CC	2012/13-4	Wet	3/7/2013 11:27:00 PM	3/14/2013 3:00:00 PM	Oil and Grease	n/a	DNQ	1.8	mg/L	EPA 1664A	1.3	5	WKL	
ME-CC	2012/13-4	Wet	3/7/2013 11:27:00 PM	3/14/2013 3:00:00 PM	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
ME-CC	2012/13-4	Wet	3/7/2013 11:27:00 PM	3/11/2013 2:51:00 PM	2-Chloroethyl vinyl ether	n/a	<	0.61	µg/L	EPA 524.2	0.61	1	WKL	
ME-CC	2012/13-4	Wet	3/7/2013 11:27:00 PM	3/11/2013 2:51:00 PM	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/19/2013 8:50:00 PM	Chloride	n/a	=	69	mg/L	EPA 300.0	1	5	WKL	D
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/19/2013 8:50:00 PM	Fluoride	n/a	=	0.27	mg/L	EPA 300.0	0.02	0.1	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/20/2013 5:01:00 PM	Perchlorate	n/a	<	0.95	µg/L	EPA 314.0	0.95	2	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/14/2013 2:56:00 PM	Calcium	Total	=	41.9	mg/L	EPA 200.7	0.0156	0.1	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/14/2013 2:56:00 PM	Magnesium	Total	=	22.3	mg/L	EPA 200.7	0.0121	0.1	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/22/2013 10:05:00 AM	Alkalinity as CaCO3	n/a	=	120	mg/L	SM 2320 B	0.56	10	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/14/2013 2:00:00 PM	BOD	n/a	=	11	mg/L	SM 5210 B	0.1	2	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/20/2013 10:56:00 PM	COD	n/a	=	29	mg/L	EPA 410.4	0.73	5	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/14/2013 2:56:00 PM	Hardness as CaCO3	Total	=	197	mg/L	EPA 200.7	0.0885	0.662	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/9/2013 8:43:00 PM	MBAS	n/a	<	0.076	mg/L	SM 5540 C	0.076	0.2	WKL	D
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	4/3/2013 4:46:00 PM	Phenolics	n/a	=	0.12	mg/L	EPA 420.4	0.0042	0.01	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/18/2013 3:18:00 PM	Specific Conductance	n/a	=	720	µmhos/cm	SM 2510 B	0.23	2	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/9/2013 4:30:00 PM	Total Chlorine Residual	n/a	<	0.015	mg/L	SM 4500-Cl G	0.015	0.5	WKL	D, EST-HT
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/12/2013 9:45:00 PM	Total Dissolved Solids	n/a	=	440	mg/L	SM 2540 C	4	10	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/17/2013 10:31:00 AM	Total Organic Carbon	n/a	=	6.4	mg/L	SM 5310 C	0.036	1.2	WKL	D
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/12/2013 8:00:00 PM	Total Suspended Solids	n/a	=	960	mg/L	SM 2540 D	5	5	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/9/2013 6:55:00 PM	Turbidity	n/a	=	630	NTU	EPA 180.1	0.024	0.1	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/12/2013 8:00:00 PM	Volatile Suspended Solids	n/a	=	160	mg/L	EPA 160.4	3.1	5	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/22/2013 10:25:00 AM	Aluminum	Dissolved	=	11	µg/L	EPA 200.8	0.61	5	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/22/2013 9:20:00 AM	Aluminum	Total	=	2400	µg/L	EPA 200.8	2.1	5	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/22/2013 10:25:00 AM	Antimony	Dissolved	DNQ	0.46	µg/L	EPA 200.8	0.04	0.5	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/22/2013 9:20:00 AM	Antimony	Total	=	0.5	µg/L	EPA 200.8	0.04	0.5	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/22/2013 10:25:00 AM	Arsenic	Dissolved	=	2.7	µg/L	EPA 200.8	0.036	0.4	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/22/2013 9:20:00 AM	Arsenic	Total	=	3.7	µg/L	EPA 200.8	0.13	0.4	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/22/2013 9:20:00 AM	Barium	Total	=	42	µg/L	EPA 200.8	0.097	0.5	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/22/2013 10:25:00 AM	Beryllium	Dissolved	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/22/2013 9:20:00 AM	Beryllium	Total	DNQ	0.09	µg/L	EPA 200.8	0.088	0.1	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/22/2013 10:25:00 AM	Cadmium	Dissolved	=	0.22	µg/L	EPA 200.8	0.02	0.1	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/22/2013 9:20:00 AM	Cadmium	Total	=	0.41	µg/L	EPA 200.8	0.02	0.1	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/22/2013 10:25:00 AM	Chromium	Dissolved	=	0.3	µg/L	EPA 200.8	0.074	0.2	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/22/2013 9:20:00 AM	Chromium	Total	=	6	µg/L	EPA 200.8	0.074	0.2	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/13/2013 3:51:00 PM	Chromium VI	n/a	DNQ	0.25	µg/L	EPA 218.6	0.0059	0.3	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/22/2013 10:25:00 AM	Copper	Dissolved	=	4.2	µg/L	EPA 200.8	0.27	0.5	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/22/2013 9:20:00 AM	Copper	Total	=	8.7	µg/L	EPA 200.8	0.27	0.5	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/14/2013 2:54:00 PM	Iron	Dissolved	=	27	µg/L	EPA 200.7	1.1	10	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/14/2013 2:56:00 PM	Iron	Total	=	3800	µg/L	EPA 200.7	1.1	10	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/22/2013 10:25:00 AM	Lead	Dissolved	DNQ	0.16	µg/L	EPA 200.8	0.011	0.2	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/22/2013 9:20:00 AM	Lead	Total	=	2.7	µg/L	EPA 200.8	0.035	0.2	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/27/2013 4:49:00 PM	Mercury	Dissolved	<	3.9	ng/L	EPA 245.1	3.9	50	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	4/3/2013 2:38:00 PM	Mercury	Total	=	78	ng/L	EPA 245.1	3.9	50	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/22/2013 10:25:00 AM	Nickel	Dissolved	=	3.2	µg/L	EPA 200.8	0.13	0.8	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/22/2013 9:20:00 AM	Nickel	Total	=	6.9	µg/L	EPA 200.8	0.13	0.8	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/22/2013 10:25:00 AM	Selenium	Dissolved	=	0.73	µg/L	EPA 200.8	0.28	0.4	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/22/2013 9:20:00 AM	Selenium	Total	=	0.74	µg/L	EPA 200.8	0.28	0.4	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/22/2013 10:25:00 AM	Silver	Dissolved	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/22/2013 9:20:00 AM	Silver	Total	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/22/2013 10:25:00 AM	Thallium	Dissolved	<	0.009	µg/L	EPA 200.8	0.009	0.2	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/22/2013 9:20:00 AM	Thallium	Total	<	0.034	µg/L	EPA 200.8	0.034	0.2	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/22/2013 10:25:00 AM	Zinc	Dissolved	=	11	µg/L	EPA 200.8	1.1	5	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/22/2013 9:20:00 AM	Zinc	Total	=	27	µg/L	EPA 200.8	1.1	5	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/26/2013 2:08:00 PM	Ammonia as N	n/a	=	0.16	mg/L	EPA 350.1	0.048	0.1	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/9/2013 7:45:00 PM	Nitrate + Nitrite as N	n/a	=	3.7	mg/L	EPA 353.2	0.01	0.1	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/9/2013 7:45:00 PM	Nitrate as N	n/a	=	3.6	mg/L	EPA 353.2	0.041	0.1	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	4/4/2013 8:00:00 PM	Phosphorus as P	Dissolved	=	0.94	mg/L	EPA 365.1	0.035	0.25	WKL	D
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	4/4/2013 8:30:00 PM	Phosphorus as P	Total	=	1.1	mg/L	EPA 365.1	0.028	0.2	WKL	D
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/21/2013 1:26:00 PM	TKN	n/a	=	0.99	mg/L	EPA 351.2	0.074	0.1	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/28/2013 12:48:00 AM	1,2,4-Trichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	EST-MSRPD
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/28/2013 12:48:00 AM	1,2-Dichlorobenzene	n/a	<	0.57	µg/L	EPA 625	0.57	1	WKL	EST-MSRPD
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/28/2013 12:48:00 AM	1,2-Diphenylhydrazine	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/28/2013 12:48:00 AM	1,3-Dichlorobenzene	n/a	<	0.53	µg/L	EPA 625	0.53	1	WKL	EST-MSRPD
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/28/2013 12:48:00 AM	1,4-Dichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	EST-MSRPD
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	4/10/2013 6:58:00 PM	1-Methylnaphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	4/11/2013 8:42:00 AM	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	4/11/2013 8:42:00 AM	2,4,6-Trichlorophenol	n/a	DNQ	0.36	µg/L	EPA 8270Cm	0.3	1	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	4/11/2013 8:42:00 AM	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	4/11/2013 8:42:00 AM	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	4/11/2013 8:42:00 AM	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/28/2013 12:48:00 AM	2,4-Dinitrotoluene	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	EST-MSRPD
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/28/2013 12:48:00 AM	2,6-Dinitrotoluene	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	EST-MSRPD
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/28/2013 12:48:00 AM	2-Chloronaphthalene	n/a	<	0.45	µg/L	EPA 625	0.45	1	WKL	RPD, LB-LCSR,
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	4/11/2013 8:42:00 AM	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	4/10/2013 6:58:00 PM	2-Methylnaphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	4/11/2013 8:42:00 AM	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	4/11/2013 8:42:00 AM	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/28/2013 12:48:00 AM	3,3'-Dichlorobenzidine	n/a	<	1.2	µg/L	EPA 625	1.2	5	WKL	LB-MSR
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	4/11/2013 8:42:00 AM	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	4/11/2013 8:42:00 AM	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/28/2013 12:48:00 AM	4-Bromophenyl phenyl ether	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	EST-MSRPD
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	4/11/2013 8:42:00 AM	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/28/2013 12:48:00 AM	4-Chlorophenyl phenyl ether	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	EST-MSRPD
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	4/11/2013 8:42:00 AM	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	4/10/2013 6:58:00 PM	Acenaphthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	4/10/2013 6:58:00 PM	Acenaphthylene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	4/10/2013 6:58:00 PM	Anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	4/10/2013 6:58:00 PM	Benz(a)anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/28/2013 12:48:00 AM	Benzidine	n/a	<	3.7	µg/L	EPA 625	3.7	10	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	4/6/2013 1:58:00 AM	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	4/10/2013 6:58:00 PM	Benzo(b)fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	4/10/2013 6:58:00 PM	Benzo(g,h,i)perylene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	4/10/2013 6:58:00 PM	Benzo(k)fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/28/2013 12:48:00 AM	Bis(2-chloroethoxy)methane	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	EST-MSRPD
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/28/2013 12:48:00 AM	Bis(2-chloroethyl)ether	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	EST-MSRPD
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/28/2013 12:48:00 AM	Bis(2-chloroisopropyl)ether	n/a	<	0.38	µg/L	EPA 625	0.38	1	WKL	EST-MSRPD
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	4/6/2013 1:58:00 AM	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	4/6/2013 1:58:00 AM	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/28/2013 12:48:00 AM	Butyl benzyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	EST-MSRPD
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	4/10/2013 6:58:00 PM	Chrysene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	4/10/2013 6:58:00 PM	Dibenz(a,h)anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/28/2013 12:48:00 AM	Diethyl phthalate	n/a	DNQ	0.55	µg/L	EPA 625	0.15	1	WKL	EST-MSRPD
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/28/2013 12:48:00 AM	Dimethyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	EST-MSRPD
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/28/2013 12:48:00 AM	Di-n-butylphthalate	n/a	<	0.24	µg/L	EPA 625	0.24	1	WKL	EST-MSRPD
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/28/2013 12:48:00 AM	Di-n-octylphthalate	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	EST-MSRPD
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	4/10/2013 6:58:00 PM	Fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	4/10/2013 6:58:00 PM	Fluorene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/28/2013 12:48:00 AM	Hexachlorobenzene	n/a	<	0.49	µg/L	EPA 625	0.49	1	WKL	EST-MSRPD
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/28/2013 12:48:00 AM	Hexachlorobutadiene	n/a	<	0.47	µg/L	EPA 625	0.47	1	WKL	EST-MSRPD
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/28/2013 12:48:00 AM	Hexachlorocyclopentadiene	n/a	<	1.5	µg/L	EPA 625	1.5	5	WKL	EST-MSRPD
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/28/2013 12:48:00 AM	Hexachloroethane	n/a	<	0.52	µg/L	EPA 625	0.52	1	WKL	EST-MSRPD
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	4/10/2013 6:58:00 PM	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/28/2013 12:48:00 AM	Isophorone	n/a	<	0.21	µg/L	EPA 625	0.21	1	WKL	EST-MSRPD
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	4/10/2013 6:58:00 PM	Naphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/28/2013 12:48:00 AM	Nitrobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	EST-MSRPD
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/28/2013 12:48:00 AM	N-Nitrosodimethylamine	n/a	<	0.14	µg/L	EPA 625	0.14	1	WKL	EST-MSRPD
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/28/2013 12:48:00 AM	N-Nitrosodi-N-propylamine	n/a	<	0.26	µg/L	EPA 625	0.26	1	WKL	EST-MSRPD
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/28/2013 12:48:00 AM	N-Nitrosodiphenylamine	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	EST-MSRPD
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	4/10/2013 6:58:00 PM	Phenanthrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	4/11/2013 8:42:00 AM	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	4/10/2013 6:58:00 PM	Pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/24/2013 1:44:00 PM	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/24/2013 1:44:00 PM	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/24/2013 1:44:00 PM	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/24/2013 1:44:00 PM	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/24/2013 1:44:00 PM	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/24/2013 1:44:00 PM	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/24/2013 1:44:00 PM	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/22/2013 2:25:00 AM	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/22/2013 2:25:00 AM	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/22/2013 2:25:00 AM	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/22/2013 2:25:00 AM	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/22/2013 2:25:00 AM	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/24/2013 1:44:00 PM	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/24/2013 1:44:00 PM	4,4'-DDE	n/a	DNQ	0.042	µg/L	EPA 608	0.0025	0.05	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/24/2013 1:44:00 PM	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/22/2013 2:25:00 AM	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	4/6/2013 1:58:00 AM	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/24/2013 1:44:00 PM	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/24/2013 1:44:00 PM	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/24/2013 1:44:00 PM	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	4/6/2013 1:58:00 AM	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/23/2013 1:16:00 AM	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	LB-LCSR
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/22/2013 2:25:00 AM	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/24/2013 1:44:00 PM	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/23/2013 1:16:00 AM	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	4/6/2013 1:58:00 AM	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	4/6/2013 1:58:00 AM	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	4/6/2013 1:58:00 AM	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/24/2013 1:44:00 PM	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	4/6/2013 1:58:00 AM	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/23/2013 1:16:00 AM	Chlorpyrifos	n/a	=	0.044	µg/L	EPA 525.2	0.0069	0.01	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/23/2013 1:16:00 AM	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	4/6/2013 1:58:00 AM	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/22/2013 2:25:00 AM	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/22/2013 2:25:00 AM	DCPA (Dacthal)	n/a	=	1.1	µg/L	EPA 515.3	0.07	0.1	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/24/2013 1:44:00 PM	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/23/2013 1:16:00 AM	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/23/2013 1:16:00 AM	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/23/2013 1:16:00 AM	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/22/2013 2:25:00 AM	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/22/2013 2:25:00 AM	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/23/2013 1:16:00 AM	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/24/2013 1:44:00 PM	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/23/2013 1:16:00 AM	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/22/2013 2:25:00 AM	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	4/6/2013 1:58:00 AM	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/23/2013 1:16:00 AM	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/24/2013 1:44:00 PM	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/24/2013 1:44:00 PM	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/24/2013 1:44:00 PM	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/24/2013 1:44:00 PM	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/24/2013 1:44:00 PM	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	4/6/2013 1:58:00 AM	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/23/2013 1:16:00 AM	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/23/2013 1:16:00 AM	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/23/2013 1:16:00 AM	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/23/2013 1:16:00 AM	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/24/2013 1:44:00 PM	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/24/2013 1:44:00 PM	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/12/2013 4:53:00 PM	Glyphosate	n/a	=	16	µg/L	EPA 547	1.8	5	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/24/2013 1:44:00 PM	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/24/2013 1:44:00 PM	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/23/2013 1:16:00 AM	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/23/2013 1:16:00 AM	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/24/2013 1:44:00 PM	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/23/2013 1:16:00 AM	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	4/6/2013 1:58:00 AM	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	4/6/2013 1:58:00 AM	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/23/2013 1:16:00 AM	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	4/6/2013 1:58:00 AM	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/23/2013 1:16:00 AM	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/22/2013 2:25:00 AM	Pentachlorophenol	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.2	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/23/2013 1:16:00 AM	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/22/2013 2:25:00 AM	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	4/6/2013 1:58:00 AM	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	4/6/2013 1:58:00 AM	Prometryn	n/a	=	0.23	µg/L	EPA 525.2	0.036	0.1	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/23/2013 1:16:00 AM	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	4/6/2013 1:58:00 AM	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/23/2013 1:16:00 AM	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	LB-LCSR
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	4/6/2013 1:58:00 AM	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	4/6/2013 1:58:00 AM	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/23/2013 1:16:00 AM	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/24/2013 1:44:00 PM	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	3/23/2013 1:16:00 AM	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
ME-CC	2012/13-4	Wet	3/9/2013 8:05:00 AM	4/6/2013 1:58:00 AM	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/4/2013 11:51:00 PM	Chloride	n/a	=	250	mg/L	EPA 300.0	1	5	WKL	D
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/4/2013 11:51:00 PM	Fluoride	n/a	=	0.45	mg/L	EPA 300.0	0.02	0.1	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/4/2013 4:54:00 PM	Perchlorate	n/a	<	0.95	µg/L	EPA 314.0	0.95	2	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	5/24/2013 8:30:00 AM	E. Coli	n/a	=	41	MPN/100 mL	MMO-MUG	10	10	VCHCA	D
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	5/24/2013 2:00:00 PM	Enterococcus	n/a	=	31	MPN/100 mL	Enterolert	10	10	VCHCA	D
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	5/27/2013 11:22:00 AM	Fecal Coliform	n/a	=	70	MPN/100 mL	SM 9221 E	2	2	VCHCA	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	5/24/2013 8:30:00 AM	Total Coliform	n/a	=	24192	MPN/100 mL	MMO-MUG	10	10	VCHCA	D
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/19/2013 3:54:00 PM	Calcium	Total	=	94.9	mg/L	EPA 200.7	0.016	0.1	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/19/2013 3:54:00 PM	Magnesium	Total	=	53.9	mg/L	EPA 200.7	0.012	0.1	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/4/2013 1:05:00 PM	Alkalinity as CaCO3	n/a	=	270	mg/L	SM 2320 B	0.56	2	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	5/28/2013 5:35:00 PM	BOD	n/a	DNQ	1.5	mg/L	SM 5210 B	0.1	2	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	5/31/2013 2:44:00 PM	COD	n/a	=	11	mg/L	EPA 410.4	0.73	5	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	5/23/2013 10:30:00 AM	Conductivity	n/a	=	1680	µmhos/cm	Field Meter	-88	1	Field Crew	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/12/2013 11:22:00 AM	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	5/23/2013 10:30:00 AM	DO	n/a	=	8.36	mg/L	Field Meter	-88	0.3	Field Crew	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	5/23/2013 10:30:00 AM	DO	n/a	=	93.8	%	Field Meter	-88	0.1	Field Crew	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/19/2013 3:54:00 PM	Hardness as CaCO3	Total	=	459	mg/L	EPA 200.7	0.0894	0.662	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	5/24/2013 11:27:00 AM	MBAS	n/a	=	0.057	mg/L	SM 5540 C	0.019	0.05	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	5/23/2013 10:30:00 AM	pH	n/a	=	8.01	pH Units	Field Meter	-88	0.01	Field Crew	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/10/2013 4:37:00 PM	Phenolics	n/a	DNQ	0.0092	mg/L	EPA 420.4	0.0042	0.01	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	5/23/2013 10:30:00 AM	Salinity	n/a	=	900	mg/L	Field Meter	-88	100	Field Crew	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	5/23/2013 10:30:00 AM	Specific Conductance	n/a	=	1823	µmhos/cm	Field Meter	-88	1	Field Crew	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	5/29/2013 10:15:00 AM	Specific Conductance	n/a	=	1900	µmhos/cm	SM 2510 B	0.47	4	WKL	D
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	5/23/2013 10:30:00 AM	Temperature	n/a	=	20.7	°C	Field Meter	-88	0.1	Field Crew	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	5/24/2013 8:38:00 PM	Total Chlorine Residual	n/a	DNQ	0.033	mg/L	SM 4500-Cl G	0.0015	0.05	WKL	EST-HT
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	5/28/2013 6:05:00 PM	Total Dissolved Solids	n/a	=	1100	mg/L	SM 2540 C	4	10	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/5/2013 12:37:00 PM	Total Organic Carbon	n/a	=	4.4	mg/L	SM 5310 C	0.009	0.3	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	5/28/2013 1:25:00 PM	Total Suspended Solids	n/a	=	8	mg/L	SM 2540 D	5	5	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	5/24/2013 5:47:00 PM	Turbidity	n/a	=	3	NTU	EPA 180.1	0.024	0.1	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	5/28/2013 1:25:00 PM	Volatile Suspended Solids	n/a	<	3.1	mg/L	EPA 160.4	3.1	5	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	5/31/2013 6:36:00 PM	Oil and Grease	n/a	<	1.3	mg/L	EPA 1664A	1.3	5	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	5/31/2013 6:36:00 PM	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/15/2013 3:45:00 AM	Aluminum	Dissolved	DNQ	3.8	µg/L	EPA 200.8	2.1	5	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/15/2013 3:53:00 AM	Aluminum	Total	=	130	µg/L	EPA 200.8	2.1	5	WKL	LB-MSR
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/15/2013 3:45:00 AM	Antimony	Dissolved	DNQ	0.38	µg/L	EPA 200.8	0.034	0.5	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/15/2013 3:53:00 AM	Antimony	Total	DNQ	0.39	µg/L	EPA 200.8	0.034	0.5	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/15/2013 3:45:00 AM	Arsenic	Dissolved	=	3.6	µg/L	EPA 200.8	0.13	0.4	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/15/2013 3:53:00 AM	Arsenic	Total	=	3.6	µg/L	EPA 200.8	0.13	0.4	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/15/2013 3:53:00 AM	Barium	Total	=	33	µg/L	EPA 200.8	0.097	0.5	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/15/2013 3:45:00 AM	Beryllium	Dissolved	<	0.015	µg/L	EPA 200.8	0.015	0.1	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/15/2013 3:53:00 AM	Beryllium	Total	<	0.015	µg/L	EPA 200.8	0.015	0.1	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/15/2013 3:45:00 AM	Cadmium	Dissolved	=	0.2	µg/L	EPA 200.8	0.017	0.1	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/15/2013 3:53:00 AM	Cadmium	Total	=	0.2	µg/L	EPA 200.8	0.017	0.1	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/15/2013 3:45:00 AM	Chromium	Dissolved	=	0.22	µg/L	EPA 200.8	0.024	0.2	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/15/2013 3:53:00 AM	Chromium	Total	=	0.65	µg/L	EPA 200.8	0.024	0.2	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	5/29/2013	Chromium VI	n/a	DNQ	0.28	µg/L	EPA 218.6	0.0059	0.3	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/15/2013 3:45:00 AM	Copper	Dissolved	=	3	µg/L	EPA 200.8	0.036	0.5	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/15/2013 3:53:00 AM	Copper	Total	=	3.3	µg/L	EPA 200.8	0.036	0.5	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/19/2013 3:52:00 PM	Iron	Dissolved	DNQ	2.8	µg/L	EPA 200.7	1.1	10	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/19/2013 3:54:00 PM	Iron	Total	=	170	µg/L	EPA 200.7	1.1	10	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/15/2013 3:45:00 AM	Lead	Dissolved	DNQ	0.03	µg/L	EPA 200.8	0.024	0.2	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/15/2013 3:53:00 AM	Lead	Total	DNQ	0.14	µg/L	EPA 200.8	0.024	0.2	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/6/2013 5:53:00 PM	Mercury	Dissolved	<	3.9	ng/L	EPA 245.1	3.9	50	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/6/2013 5:53:00 PM	Mercury	Total	<	3.9	ng/L	EPA 245.1	3.9	50	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/15/2013 3:45:00 AM	Nickel	Dissolved	=	6.1	µg/L	EPA 200.8	0.091	0.8	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/15/2013 3:53:00 AM	Nickel	Total	=	6.4	µg/L	EPA 200.8	0.091	0.8	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/15/2013 3:45:00 AM	Selenium	Dissolved	=	0.71	µg/L	EPA 200.8	0.081	0.4	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/15/2013 3:53:00 AM	Selenium	Total	=	0.66	µg/L	EPA 200.8	0.081	0.4	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/15/2013 3:45:00 AM	Silver	Dissolved	DNQ	0.03	µg/L	EPA 200.8	0.012	0.2	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/15/2013 3:53:00 AM	Silver	Total	DNQ	0.05	µg/L	EPA 200.8	0.012	0.2	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/15/2013 3:45:00 AM	Thallium	Dissolved	<	0.034	µg/L	EPA 200.8	0.034	0.2	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/15/2013 3:53:00 AM	Thallium	Total	<	0.034	µg/L	EPA 200.8	0.034	0.2	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/15/2013 3:45:00 AM	Zinc	Dissolved	=	19	µg/L	EPA 200.8	0.5	5	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/15/2013 3:53:00 AM	Zinc	Total	=	19	µg/L	EPA 200.8	0.5	5	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/10/2013 6:08:00 PM	Ammonia as N	n/a	DNQ	0.093	mg/L	EPA 350.1	0.048	0.1	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	5/23/2013 10:14:00 PM	Nitrate + Nitrite as N	n/a	=	8.6	mg/L	EPA 353.2	0.01	0.1	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	5/23/2013 10:14:00 PM	Nitrate as N	n/a	=	8.5	mg/L	EPA 353.2	0.041	0.1	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/12/2013 9:09:00 PM	Phosphorus as P	Dissolved	=	3	mg/L	EPA 365.1	0.035	0.25	WKL	D
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/12/2013 8:27:00 PM	Phosphorus as P	Total	=	3.2	mg/L	EPA 365.1	0.035	0.25	WKL	D
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/11/2013 2:47:00 PM	TKN	n/a	=	0.61	mg/L	EPA 351.2	0.05	0.1	WKL	LB-MSR
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/12/2013 6:16:00 PM	1,2,4-Trichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/12/2013 6:16:00 PM	1,2-Dichlorobenzene	n/a	<	0.57	µg/L	EPA 625	0.57	1	WKL	EST-MSRPD
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/12/2013 6:16:00 PM	1,2-Diphenylhydrazine	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/12/2013 6:16:00 PM	1,3-Dichlorobenzene	n/a	<	0.53	µg/L	EPA 625	0.53	1	WKL	EST-MSRPD
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/12/2013 6:16:00 PM	1,4-Dichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	EST-MSRPD

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/18/2013 7:39:00 AM	1-Methylnaphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/16/2013 5:21:00 AM	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/16/2013 5:21:00 AM	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	LB-LCSR
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/16/2013 5:21:00 AM	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	LB-LCSR
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/16/2013 5:21:00 AM	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/16/2013 5:21:00 AM	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/12/2013 6:16:00 PM	2,4-Dinitrotoluene	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/12/2013 6:16:00 PM	2,6-Dinitrotoluene	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/12/2013 6:16:00 PM	2-Chloronaphthalene	n/a	<	0.45	µg/L	EPA 625	0.45	1	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/16/2013 5:21:00 AM	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/18/2013 7:39:00 AM	2-Methylnaphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/16/2013 5:21:00 AM	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/16/2013 5:21:00 AM	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/12/2013 6:16:00 PM	3,3'-Dichlorobenzidine	n/a	<	1.2	µg/L	EPA 625	1.2	5	WKL	LB-MSR
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/16/2013 5:21:00 AM	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/16/2013 5:21:00 AM	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	LB-LCSR
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/12/2013 6:16:00 PM	4-Bromophenyl phenyl ether	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/16/2013 5:21:00 AM	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/12/2013 6:16:00 PM	4-Chlorophenyl phenyl ether	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/16/2013 5:21:00 AM	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/18/2013 7:39:00 AM	Acenaphthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/18/2013 7:39:00 AM	Acenaphthylene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/18/2013 7:39:00 AM	Anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/18/2013 7:39:00 AM	Benz(a)anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/12/2013 6:16:00 PM	Benzidine	n/a	<	3.7	µg/L	EPA 625	3.7	10	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/11/2013 7:44:00 PM	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/18/2013 7:39:00 AM	Benzo(b)fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/18/2013 7:39:00 AM	Benzo(g,h,i)perylene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/18/2013 7:39:00 AM	Benzo(k)fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/12/2013 6:16:00 PM	Bis(2-chloroethoxy)methane	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/12/2013 6:16:00 PM	Bis(2-chloroethyl)ether	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	EST-MSRPD
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/12/2013 6:16:00 PM	Bis(2-chloroisopropyl)ether	n/a	<	0.38	µg/L	EPA 625	0.38	1	WKL	EST-MSRPD
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/11/2013 7:44:00 PM	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/11/2013 7:44:00 PM	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/12/2013 6:16:00 PM	Butyl benzyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/18/2013 7:39:00 AM	Chrysene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/18/2013 7:39:00 AM	Dibenz(a,h)anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/12/2013 6:16:00 PM	Diethyl phthalate	n/a	DNQ	0.44	µg/L	EPA 625	0.15	1	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/12/2013 6:16:00 PM	Dimethyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/12/2013 6:16:00 PM	Di-n-butylphthalate	n/a	<	0.24	µg/L	EPA 625	0.24	1	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/12/2013 6:16:00 PM	Di-n-octylphthalate	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/18/2013 7:39:00 AM	Fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/18/2013 7:39:00 AM	Fluorene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/12/2013 6:16:00 PM	Hexachlorobenzene	n/a	<	0.49	µg/L	EPA 625	0.49	1	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/12/2013 6:16:00 PM	Hexachlorobutadiene	n/a	<	0.47	µg/L	EPA 625	0.47	1	WKL	EST-MSRPD
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/12/2013 6:16:00 PM	Hexachlorocyclopentadiene	n/a	<	1.5	µg/L	EPA 625	1.5	5	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/12/2013 6:16:00 PM	Hexachloroethane	n/a	<	0.52	µg/L	EPA 625	0.52	1	WKL	EST-MSRPD
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/18/2013 7:39:00 AM	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/12/2013 6:16:00 PM	Isophorone	n/a	<	0.21	µg/L	EPA 625	0.21	1	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	5/25/2013 1:26:00 AM	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/18/2013 7:39:00 AM	Naphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/12/2013 6:16:00 PM	Nitrobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	EST-MSRPD
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/12/2013 6:16:00 PM	N-Nitrosodimethylamine	n/a	<	0.14	µg/L	EPA 625	0.14	1	WKL	EST-MSRPD
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/12/2013 6:16:00 PM	N-Nitrosodi-N-propylamine	n/a	<	0.26	µg/L	EPA 625	0.26	1	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/12/2013 6:16:00 PM	N-Nitrosodiphenylamine	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/18/2013 7:39:00 AM	Phenanthrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/16/2013 5:21:00 AM	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/18/2013 7:39:00 AM	Pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/16/2013 2:18:00 AM	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/16/2013 2:18:00 AM	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/16/2013 2:18:00 AM	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/16/2013 2:18:00 AM	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/16/2013 2:18:00 AM	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/16/2013 2:18:00 AM	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/16/2013 2:18:00 AM	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/6/2013 11:50:00 PM	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/6/2013 11:50:00 PM	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/6/2013 11:50:00 PM	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/6/2013 11:50:00 PM	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/6/2013 11:50:00 PM	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/16/2013 2:18:00 AM	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/16/2013 2:18:00 AM	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/16/2013 2:18:00 AM	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/6/2013 11:50:00 PM	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/11/2013 7:44:00 PM	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/16/2013 2:18:00 AM	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/16/2013 2:18:00 AM	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/16/2013 2:18:00 AM	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/11/2013 7:44:00 PM	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/13/2013 4:47:00 PM	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/6/2013 11:50:00 PM	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/16/2013 2:18:00 AM	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/13/2013 4:47:00 PM	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/11/2013 7:44:00 PM	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/11/2013 7:44:00 PM	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/11/2013 7:44:00 PM	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/16/2013 2:18:00 AM	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/11/2013 7:44:00 PM	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/13/2013 4:47:00 PM	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/13/2013 4:47:00 PM	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/11/2013 7:44:00 PM	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/6/2013 11:50:00 PM	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/6/2013 11:50:00 PM	DCPA (Dacthal)	n/a	=	2.4	µg/L	EPA 515.3	0.07	0.1	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/16/2013 2:18:00 AM	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/13/2013 4:47:00 PM	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/13/2013 4:47:00 PM	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/13/2013 4:47:00 PM	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/6/2013 11:50:00 PM	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/6/2013 11:50:00 PM	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/13/2013 4:47:00 PM	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/16/2013 2:18:00 AM	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/13/2013 4:47:00 PM	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/6/2013 11:50:00 PM	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/11/2013 7:44:00 PM	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/13/2013 4:47:00 PM	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/16/2013 2:18:00 AM	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/16/2013 2:18:00 AM	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/16/2013 2:18:00 AM	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/16/2013 2:18:00 AM	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/16/2013 2:18:00 AM	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/11/2013 7:44:00 PM	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/13/2013 4:47:00 PM	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/13/2013 4:47:00 PM	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/13/2013 4:47:00 PM	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/13/2013 4:47:00 PM	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/16/2013 2:18:00 AM	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/16/2013 2:18:00 AM	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	5/31/2013 2:44:00 PM	Glyphosate	n/a	<	1.8	µg/L	EPA 547	1.8	5	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/16/2013 2:18:00 AM	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/16/2013 2:18:00 AM	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/13/2013 4:47:00 PM	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/13/2013 4:47:00 PM	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/16/2013 2:18:00 AM	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/13/2013 4:47:00 PM	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/11/2013 7:44:00 PM	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/11/2013 7:44:00 PM	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/13/2013 4:47:00 PM	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/11/2013 7:44:00 PM	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/13/2013 4:47:00 PM	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/6/2013 11:50:00 PM	Pentachlorophenol	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.2	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/13/2013 4:47:00 PM	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/6/2013 11:50:00 PM	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/11/2013 7:44:00 PM	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/11/2013 7:44:00 PM	Prometryn	n/a	=	0.74	µg/L	EPA 525.2	0.036	0.1	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/13/2013 4:47:00 PM	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/11/2013 7:44:00 PM	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/13/2013 4:47:00 PM	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/11/2013 7:44:00 PM	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/11/2013 7:44:00 PM	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/13/2013 4:47:00 PM	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/16/2013 2:18:00 AM	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/13/2013 4:47:00 PM	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
ME-CC	2012/13-5	Dry	5/23/2013 10:30:00 AM	6/11/2013 7:44:00 PM	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
ME-SCR	2012/13-2	Wet	11/17/2012 10:50:00 AM	11/18/2012 7:15:00 AM	E. Coli	n/a	=	472	MPN/100 mL	MMO-MUG	10	10	VCHCA	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-SCR	2012/13-2	Wet	11/17/2012 10:50:00 AM	11/18/2012 1:14:00 PM	Enterococcus	n/a	=	697	MPN/100 mL	Enterolert	10	10	VCHCA	
ME-SCR	2012/13-2	Wet	11/17/2012 10:50:00 AM	11/20/2012 12:10:00 PM	Fecal Coliform	n/a	=	700	MPN/100 mL	SM 9221 E	2	2	VCHCA	
ME-SCR	2012/13-2	Wet	11/17/2012 10:50:00 AM	11/18/2012 7:15:00 AM	Total Coliform	n/a	=	15970	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	
ME-SCR	2012/13-2	Wet	11/17/2012 10:50:00 AM	11/17/2012 10:50:00 AM	Conductivity	n/a	=	1317	µmhos/cm	Field Meter	-88	1	Field Crew	
ME-SCR	2012/13-2	Wet	11/17/2012 10:50:00 AM	12/6/2012 9:26:00 PM	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
ME-SCR	2012/13-2	Wet	11/17/2012 10:50:00 AM	11/17/2012 10:50:00 AM	DO	n/a	=	12	mg/L	Field Meter	-88	0.3	Field Crew	
ME-SCR	2012/13-2	Wet	11/17/2012 10:50:00 AM	11/17/2012 10:50:00 AM	DO	n/a	=	122.7	%	Field Meter	-88	0.1	Field Crew	
ME-SCR	2012/13-2	Wet	11/17/2012 10:50:00 AM	11/17/2012 10:50:00 AM	pH	n/a	=	8.23	pH Units	Field Meter	-88	0.01	Field Crew	
ME-SCR	2012/13-2	Wet	11/17/2012 10:50:00 AM	11/17/2012 10:50:00 AM	Salinity	n/a	=	800	mg/L	Field Meter	-88	100	Field Crew	
ME-SCR	2012/13-2	Wet	11/17/2012 10:50:00 AM	11/17/2012 10:50:00 AM	Specific Conductance	n/a	=	1583	µmhos/cm	Field Meter	-88	1	Field Crew	
ME-SCR	2012/13-2	Wet	11/17/2012 10:50:00 AM	11/17/2012 10:50:00 AM	Temperature	n/a	=	16.2	°C	Field Meter	-88	0.1	Field Crew	
ME-SCR	2012/13-2	Wet	11/17/2012 10:50:00 AM	11/27/2012 4:55:00 PM	Oil and Grease	n/a	<	1.3	mg/L	EPA 1664A	1.3	5	WKL	
ME-SCR	2012/13-2	Wet	11/17/2012 10:50:00 AM	11/27/2012 4:55:00 PM	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
ME-SCR	2012/13-2	Wet	11/17/2012 10:50:00 AM	11/27/2012 4:35:00 PM	2-Chloroethyl vinyl ether	n/a	<	0.61	µg/L	EPA 524.2	0.61	1	WKL	
ME-SCR	2012/13-2	Wet	11/17/2012 10:50:00 AM	11/27/2012 4:35:00 PM	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/27/2012 7:20:00 PM	Chloride	n/a	=	69	mg/L	EPA 300.0	1	5	WKL	D
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/27/2012 7:03:00 PM	Fluoride	n/a	=	0.6	mg/L	EPA 300.0	0.04	0.2	WKL	D
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/21/2012 4:57:00 PM	Perchlorate	n/a	<	0.95	µg/L	EPA 314.0	0.95	2	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/27/2012 5:18:00 PM	Calcium	Total	=	147	mg/L	EPA 200.7	0.0156	0.1	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/27/2012 5:18:00 PM	Magnesium	Total	=	58.6	mg/L	EPA 200.7	0.0121	0.1	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/30/2012 4:45:00 PM	Alkalinity as CaCO3	n/a	=	240	mg/L	SM 2320 B	0.56	2	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/24/2012 12:30:00 PM	BOD	n/a	=	5.4	mg/L	SM 5210 B	0.1	2	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/27/2012 9:06:00 AM	COD	n/a	=	16	mg/L	EPA 410.4	0.73	5	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/27/2012 5:18:00 PM	Hardness as CaCO3	Total	=	608	mg/L	EPA 200.7	0.0885	0.662	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/19/2012 9:46:00 PM	MBAS	n/a	=	0.063	mg/L	SM 5540 C	0.019	0.05	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/30/2012 2:38:00 PM	Phenolics	n/a	=	0.048	mg/L	EPA 420.4	0.0042	0.01	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/30/2012 11:00:00 AM	Specific Conductance	n/a	=	1700	µmhos/cm	SM 2510 B	0.47	4	WKL	D
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/21/2012 11:58:00 AM	Total Dissolved Solids	n/a	=	1100	mg/L	SM 2540 C	4	10	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/26/2012 10:48:00 AM	Total Organic Carbon	n/a	=	4.9	mg/L	SM 5310 C	0.009	0.3	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/20/2012 7:20:00 PM	Total Suspended Solids	n/a	=	28	mg/L	SM 2540 D	5	5	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/19/2012 10:13:00 PM	Turbidity	n/a	=	6.7	NTU	EPA 180.1	0.024	0.1	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/20/2012 7:20:00 PM	Volatile Suspended Solids	n/a	=	5	mg/L	EPA 160.4	3.1	5	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	12/1/2012 1:07:00 AM	Aluminum	Dissolved	DNQ	2.2	µg/L	EPA 200.8	0.61	5	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	12/1/2012 1:15:00 AM	Aluminum	Total	=	180	µg/L	EPA 200.8	0.61	5	WKL	GB
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	12/1/2012 1:07:00 AM	Antimony	Dissolved	DNQ	0.32	µg/L	EPA 200.8	0.04	0.5	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	12/1/2012 1:15:00 AM	Antimony	Total	DNQ	0.35	µg/L	EPA 200.8	0.04	0.5	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	12/1/2012 1:07:00 AM	Arsenic	Dissolved	=	0.83	µg/L	EPA 200.8	0.036	0.4	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	12/1/2012 1:15:00 AM	Arsenic	Total	=	1	µg/L	EPA 200.8	0.036	0.4	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	12/1/2012 1:15:00 AM	Barium	Total	=	45	µg/L	EPA 200.8	0.03	0.5	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	12/1/2012 1:07:00 AM	Beryllium	Dissolved	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	12/1/2012 1:15:00 AM	Beryllium	Total	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	12/1/2012 1:07:00 AM	Cadmium	Dissolved	DNQ	0.08	µg/L	EPA 200.8	0.02	0.1	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	12/1/2012 1:15:00 AM	Cadmium	Total	=	0.13	µg/L	EPA 200.8	0.02	0.1	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	12/1/2012 1:07:00 AM	Chromium	Dissolved	DNQ	0.1	µg/L	EPA 200.8	0.074	0.2	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	12/1/2012 1:15:00 AM	Chromium	Total	=	0.42	µg/L	EPA 200.8	0.074	0.2	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	12/3/2012 7:33:00 PM	Chromium VI	n/a	DNQ	0.13	µg/L	EPA 218.6	0.0059	0.3	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	12/1/2012 1:07:00 AM	Copper	Dissolved	=	1.3	µg/L	EPA 200.8	0.27	0.5	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	12/1/2012 1:15:00 AM	Copper	Total	=	1.9	µg/L	EPA 200.8	0.27	0.5	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/27/2012 5:15:00 PM	Iron	Dissolved	DNQ	7.9	µg/L	EPA 200.7	1.1	10	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/27/2012 5:18:00 PM	Iron	Total	=	390	µg/L	EPA 200.7	1.1	10	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	12/1/2012 1:07:00 AM	Lead	Dissolved	DNQ	0.09	µg/L	EPA 200.8	0.011	0.2	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	12/1/2012 1:15:00 AM	Lead	Total	=	0.49	µg/L	EPA 200.8	0.011	0.2	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	12/11/2012 3:45:00 PM	Mercury	Dissolved	DNQ	29	ng/L	EPA 245.1	3.9	50	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	12/11/2012 3:45:00 PM	Mercury	Total	DNQ	23	ng/L	EPA 245.1	3.9	50	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	12/1/2012 1:07:00 AM	Nickel	Dissolved	=	1.6	µg/L	EPA 200.8	0.13	0.8	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	12/1/2012 1:15:00 AM	Nickel	Total	=	2	µg/L	EPA 200.8	0.13	0.8	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	12/1/2012 1:07:00 AM	Selenium	Dissolved	=	4.2	µg/L	EPA 200.8	0.28	0.4	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	12/1/2012 1:15:00 AM	Selenium	Total	=	4.4	µg/L	EPA 200.8	0.28	0.4	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	12/1/2012 1:07:00 AM	Silver	Dissolved	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	12/1/2012 1:15:00 AM	Silver	Total	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	12/1/2012 1:07:00 AM	Thallium	Dissolved	DNQ	0.02	µg/L	EPA 200.8	0.009	0.2	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	12/1/2012 1:15:00 AM	Thallium	Total	DNQ	0.02	µg/L	EPA 200.8	0.009	0.2	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	12/1/2012 1:07:00 AM	Zinc	Dissolved	DNQ	2.2	µg/L	EPA 200.8	1.1	5	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	12/1/2012 1:15:00 AM	Zinc	Total	DNQ	4.6	µg/L	EPA 200.8	1.1	5	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	12/5/2012 5:30:00 PM	Ammonia as N	n/a	=	0.13	mg/L	EPA 350.1	0.048	0.1	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/19/2012 6:36:00 PM	Nitrate + Nitrite as N	n/a	=	1.8	mg/L	EPA 353.2	0.01	0.1	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	12/14/2012 12:21:00 PM	Phosphorus as P	Dissolved	=	0.057	mg/L	EPA 365.1	0.0014	0.01	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	12/3/2012 8:20:00 PM	Phosphorus as P	Total	=	0.064	mg/L	EPA 365.1	0.0014	0.01	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/28/2012 3:43:00 PM	TKN	n/a	=	0.26	mg/L	EPA 351.2	0.074	0.1	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/27/2012 11:04:00 PM	1,2,4-Trichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/27/2012 11:04:00 PM	1,2-Dichlorobenzene	n/a	<	0.57	µg/L	EPA 625	0.57	1	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/27/2012 11:04:00 PM	1,2-Diphenylhydrazine	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/27/2012 11:04:00 PM	1,3-Dichlorobenzene	n/a	<	0.53	µg/L	EPA 625	0.53	1	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/27/2012 11:04:00 PM	1,4-Dichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/29/2012 12:06:00 AM	1-Methylnaphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/29/2012 5:12:00 PM	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/29/2012 5:12:00 PM	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	EUM
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/29/2012 5:12:00 PM	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/29/2012 5:12:00 PM	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/29/2012 5:12:00 PM	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/27/2012 11:04:00 PM	2,4-Dinitrotoluene	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/27/2012 11:04:00 PM	2,6-Dinitrotoluene	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/27/2012 11:04:00 PM	2-Chloronaphthalene	n/a	<	0.45	µg/L	EPA 625	0.45	1	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/29/2012 5:12:00 PM	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	EUM
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/29/2012 12:06:00 AM	2-Methylnaphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/29/2012 5:12:00 PM	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/29/2012 5:12:00 PM	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/27/2012 11:04:00 PM	3,3'-Dichlorobenzidine	n/a	<	1.2	µg/L	EPA 625	1.2	5	WKL	IL
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/29/2012 5:12:00 PM	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/29/2012 5:12:00 PM	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/27/2012 11:04:00 PM	4-Bromophenyl phenyl ether	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/29/2012 5:12:00 PM	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/27/2012 11:04:00 PM	4-Chlorophenyl phenyl ether	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/29/2012 5:12:00 PM	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/29/2012 12:06:00 AM	Acenaphthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	EUM
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/29/2012 12:06:00 AM	Acenaphthylene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/29/2012 12:06:00 AM	Anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/29/2012 12:06:00 AM	Benz(a)anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/27/2012 11:04:00 PM	Benzidine	n/a	<	3.7	µg/L	EPA 625	3.7	10	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	12/4/2012 3:38:00 AM	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/29/2012 12:06:00 AM	Benzo(b)fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/29/2012 12:06:00 AM	Benzo(g,h,i)perylene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/29/2012 12:06:00 AM	Benzo(k)fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/27/2012 11:04:00 PM	Bis(2-chloroethoxy)methane	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/27/2012 11:04:00 PM	Bis(2-chloroethyl)ether	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/27/2012 11:04:00 PM	Bis(2-chloroisopropyl)ether	n/a	<	0.38	µg/L	EPA 625	0.38	1	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	12/4/2012 3:38:00 AM	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	12/4/2012 3:38:00 AM	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/27/2012 11:04:00 PM	Butyl benzyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/29/2012 12:06:00 AM	Chrysene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/29/2012 12:06:00 AM	Dibenz(a,h)anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/27/2012 11:04:00 PM	Diethyl phthalate	n/a	DNQ	0.63	µg/L	EPA 625	0.15	1	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/27/2012 11:04:00 PM	Dimethyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/27/2012 11:04:00 PM	Di-n-butylphthalate	n/a	<	0.24	µg/L	EPA 625	0.24	1	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/27/2012 11:04:00 PM	Di-n-octylphthalate	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/29/2012 12:06:00 AM	Fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/29/2012 12:06:00 AM	Fluorene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	EUM
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/27/2012 11:04:00 PM	Hexachlorobenzene	n/a	<	0.49	µg/L	EPA 625	0.49	1	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/27/2012 11:04:00 PM	Hexachlorobutadiene	n/a	<	0.47	µg/L	EPA 625	0.47	1	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/27/2012 11:04:00 PM	Hexachlorocyclopentadiene	n/a	<	1.5	µg/L	EPA 625	1.5	5	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/27/2012 11:04:00 PM	Hexachloroethane	n/a	<	0.52	µg/L	EPA 625	0.52	1	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/29/2012 12:06:00 AM	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/27/2012 11:04:00 PM	Isophorone	n/a	<	0.21	µg/L	EPA 625	0.21	1	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/29/2012 12:06:00 AM	Naphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/27/2012 11:04:00 PM	Nitrobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/27/2012 11:04:00 PM	N-Nitrosodimethylamine	n/a	<	0.14	µg/L	EPA 625	0.14	1	WKL	EUM
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/27/2012 11:04:00 PM	N-Nitrosodi-N-propylamine	n/a	<	0.26	µg/L	EPA 625	0.26	1	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/27/2012 11:04:00 PM	N-Nitrosodiphenylamine	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/29/2012 12:06:00 AM	Phenanthrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	EUM
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/29/2012 5:12:00 PM	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/29/2012 12:06:00 AM	Pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	EUM
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/27/2012 10:58:00 PM	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/27/2012 10:58:00 PM	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/27/2012 10:58:00 PM	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/27/2012 10:58:00 PM	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/27/2012 10:58:00 PM	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/27/2012 10:58:00 PM	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/27/2012 10:58:00 PM	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	12/1/2012 9:24:00 PM	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	12/1/2012 9:24:00 PM	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	12/1/2012 9:24:00 PM	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	12/1/2012 9:24:00 PM	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	12/1/2012 9:24:00 PM	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/27/2012 10:58:00 PM	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/27/2012 10:58:00 PM	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/27/2012 10:58:00 PM	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	12/1/2012 9:24:00 PM	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	12/4/2012 3:38:00 AM	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/27/2012 10:58:00 PM	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/27/2012 10:58:00 PM	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/27/2012 10:58:00 PM	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	12/4/2012 3:38:00 AM	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	12/13/2012 2:49:00 PM	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	EUM
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	12/1/2012 9:24:00 PM	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/27/2012 10:58:00 PM	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	12/13/2012 2:49:00 PM	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	12/4/2012 3:38:00 AM	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	12/4/2012 3:38:00 AM	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	12/4/2012 3:38:00 AM	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/27/2012 10:58:00 PM	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	12/4/2012 3:38:00 AM	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	12/13/2012 2:49:00 PM	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	12/13/2012 2:49:00 PM	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	12/4/2012 3:38:00 AM	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	12/1/2012 9:24:00 PM	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	12/1/2012 9:24:00 PM	DCPA (Dacthal)	n/a	=	0.22	µg/L	EPA 515.3	0.07	0.1	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/27/2012 10:58:00 PM	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	12/13/2012 2:49:00 PM	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	12/13/2012 2:49:00 PM	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	12/13/2012 2:49:00 PM	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	12/1/2012 9:24:00 PM	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	12/1/2012 9:24:00 PM	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	12/13/2012 2:49:00 PM	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/27/2012 10:58:00 PM	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	12/13/2012 2:49:00 PM	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	12/1/2012 9:24:00 PM	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	12/4/2012 3:38:00 AM	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	12/13/2012 2:49:00 PM	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/27/2012 10:58:00 PM	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/27/2012 10:58:00 PM	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/27/2012 10:58:00 PM	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/27/2012 10:58:00 PM	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/27/2012 10:58:00 PM	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	12/4/2012 3:38:00 AM	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	12/13/2012 2:49:00 PM	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	12/13/2012 2:49:00 PM	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	12/13/2012 2:49:00 PM	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	12/13/2012 2:49:00 PM	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/27/2012 10:58:00 PM	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/27/2012 10:58:00 PM	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/28/2012 6:40:00 PM	Glyphosate	n/a	<	1.8	µg/L	EPA 547	1.8	5	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/27/2012 10:58:00 PM	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/27/2012 10:58:00 PM	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	12/13/2012 2:49:00 PM	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	12/13/2012 2:49:00 PM	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/27/2012 10:58:00 PM	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	12/13/2012 2:49:00 PM	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	12/4/2012 3:38:00 AM	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	12/4/2012 3:38:00 AM	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	12/13/2012 2:49:00 PM	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	12/4/2012 3:38:00 AM	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	12/13/2012 2:49:00 PM	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.1	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	12/1/2012 9:24:00 PM	Pentachlorophenol	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.2	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	12/13/2012 2:49:00 PM	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	12/1/2012 9:24:00 PM	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	12/4/2012 3:38:00 AM	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	12/4/2012 3:38:00 AM	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	12/13/2012 2:49:00 PM	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	12/4/2012 3:38:00 AM	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	12/13/2012 2:49:00 PM	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	12/4/2012 3:38:00 AM	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	12/4/2012 3:38:00 AM	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	12/13/2012 2:49:00 PM	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	11/27/2012 10:58:00 PM	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	12/13/2012 2:49:00 PM	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
ME-SCR	2012/13-2	Wet	11/18/2012 10:35:00 AM	12/4/2012 3:38:00 AM	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
ME-SCR	2012/13-3	Wet	2/19/2013 9:45:00 PM	2/20/2013 6:30:00 PM	E. Coli	n/a	=	31	MPN/100 mL	MMO-MUG	10	10	VCHCA	
ME-SCR	2012/13-3	Wet	2/19/2013 9:45:00 PM	2/21/2013 12:38:00 AM	Enterococcus	n/a	=	20	MPN/100 mL	Enterolert	10	10	VCHCA	
ME-SCR	2012/13-3	Wet	2/19/2013 9:45:00 PM	2/23/2013 10:33:00 PM	Fecal Coliform	n/a	=	30	MPN/100 mL	SM 9221 E	2	2	VCHCA	
ME-SCR	2012/13-3	Wet	2/19/2013 9:45:00 PM	2/20/2013 6:30:00 PM	Total Coliform	n/a	=	2755	MPN/100 mL	MMO-MUG	10	10	VCHCA	
ME-SCR	2012/13-3	Wet	2/19/2013 9:45:00 PM	2/19/2013 9:45:00 PM	Conductivity	n/a	=	1372	µmhos/cm	Field Meter	-88	1	Field Crew	
ME-SCR	2012/13-3	Wet	2/19/2013 9:45:00 PM	3/2/2013 4:13:00 PM	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
ME-SCR	2012/13-3	Wet	2/19/2013 9:45:00 PM	2/19/2013 9:45:00 PM	DO	n/a	=	91	%	Field Meter	-88	0.1	Field Crew	
ME-SCR	2012/13-3	Wet	2/19/2013 9:45:00 PM	2/19/2013 9:45:00 PM	DO	n/a	=	9.4	mg/L	Field Meter	-88	0.3	Field Crew	
ME-SCR	2012/13-3	Wet	2/19/2013 9:45:00 PM	2/19/2013 9:45:00 PM	pH	n/a	=	8.06	pH Units	Field Meter	-88	0.01	Field Crew	
ME-SCR	2012/13-3	Wet	2/19/2013 9:45:00 PM	2/19/2013 9:45:00 PM	Salinity	n/a	=	890	mg/L	Field Meter	-88	100	Field Crew	
ME-SCR	2012/13-3	Wet	2/19/2013 9:45:00 PM	2/19/2013 9:45:00 PM	Specific Conductance	n/a	=	1752	µmhos/cm	Field Meter	-88	1	Field Crew	
ME-SCR	2012/13-3	Wet	2/19/2013 9:45:00 PM	2/19/2013 9:45:00 PM	Temperature	n/a	=	13.6	°C	Field Meter	-88	0.1	Field Crew	
ME-SCR	2012/13-3	Wet	2/19/2013 9:45:00 PM	3/4/2013 6:09:00 PM	Oil and Grease	n/a	<	1.3	mg/L	EPA 1664A	1.3	5	WKL	
ME-SCR	2012/13-3	Wet	2/19/2013 9:45:00 PM	3/4/2013 6:09:00 PM	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
ME-SCR	2012/13-3	Wet	2/19/2013 9:45:00 PM	2/27/2013 11:56:00 PM	2-Chloroethyl vinyl ether	n/a	<	0.61	µg/L	EPA 524.2	0.61	1	WKL	
ME-SCR	2012/13-3	Wet	2/19/2013 9:45:00 PM	2/27/2013 11:56:00 PM	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	2/28/2013 12:03:00 PM	Chloride	n/a	=	70	mg/L	EPA 300.0	1	5	WKL	D
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	2/27/2013 6:33:00 PM	Fluoride	n/a	=	0.71	mg/L	EPA 300.0	0.02	0.1	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/1/2013 7:35:00 AM	Perchlorate	n/a	<	0.95	µg/L	EPA 314.0	0.95	2	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	2/25/2013 1:46:00 PM	Calcium	Total	=	173	mg/L	EPA 200.7	0.0156	0.1	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	2/25/2013 1:46:00 PM	Magnesium	Total	=	65.6	mg/L	EPA 200.7	0.0121	0.1	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	2/25/2013 10:23:00 PM	Alkalinity as CaCO3	n/a	=	220	mg/L	SM 2320 B	0.56	2	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	2/27/2013 11:44:00 AM	BOD	n/a	DNQ	0.85	mg/L	SM 5210 B	0.1	2	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/2/2013 4:05:00 PM	COD	n/a	=	16	mg/L	EPA 410.4	0.73	5	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	2/25/2013 1:46:00 PM	Hardness as CaCO3	Total	=	702	mg/L	EPA 200.7	0.0885	0.662	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	2/21/2013 9:38:00 PM	MBAS	n/a	<	0.019	mg/L	SM 5540 C	0.019	0.05	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	2/25/2013 6:18:00 PM	Phenolics	n/a	=	0.051	mg/L	EPA 420.4	0.0042	0.01	WKL	GB
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/4/2013 7:13:00 PM	Specific Conductance	n/a	=	1700	µmhos/cm	SM 2510 B	0.47	4	WKL	D
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	2/26/2013 4:20:00 PM	Total Dissolved Solids	n/a	=	1200	mg/L	SM 2540 C	4	10	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/4/2013 10:20:00 AM	Total Organic Carbon	n/a	=	1.7	mg/L	SM 5310 C	0.009	0.3	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	2/26/2013 8:27:00 PM	Total Suspended Solids	n/a	=	33	mg/L	SM 2540 D	5	5	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	2/21/2013 7:26:00 PM	Turbidity	n/a	=	7.2	NTU	EPA 180.1	0.024	0.1	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	2/26/2013 8:27:00 PM	Volatile Suspended Solids	n/a	<	3.1	mg/L	EPA 160.4	3.1	5	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/5/2013 2:04:00 PM	Aluminum	Dissolved	DNQ	2.4	µg/L	EPA 200.8	0.61	5	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/5/2013 2:12:00 PM	Aluminum	Total	=	580	µg/L	EPA 200.8	2.1	5	WKL	GB
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/5/2013 2:04:00 PM	Antimony	Dissolved	DNQ	0.23	µg/L	EPA 200.8	0.04	0.5	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/5/2013 2:12:00 PM	Antimony	Total	DNQ	0.28	µg/L	EPA 200.8	0.04	0.5	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/5/2013 2:04:00 PM	Arsenic	Dissolved	=	0.81	µg/L	EPA 200.8	0.036	0.4	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/5/2013 2:12:00 PM	Arsenic	Total	=	1.2	µg/L	EPA 200.8	0.13	0.4	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/5/2013 2:12:00 PM	Barium	Total	=	46	µg/L	EPA 200.8	0.097	0.5	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/5/2013 2:04:00 PM	Beryllium	Dissolved	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/5/2013 2:12:00 PM	Beryllium	Total	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/5/2013 2:04:00 PM	Cadmium	Dissolved	DNQ	0.06	µg/L	EPA 200.8	0.02	0.1	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/5/2013 2:12:00 PM	Cadmium	Total	=	0.12	µg/L	EPA 200.8	0.02	0.1	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/5/2013 2:04:00 PM	Chromium	Dissolved	<	0.074	µg/L	EPA 200.8	0.074	0.2	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/5/2013 2:12:00 PM	Chromium	Total	=	1.2	µg/L	EPA 200.8	0.074	0.2	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/4/2013 9:56:00 AM	Chromium VI	n/a	DNQ	0.032	µg/L	EPA 218.6	0.0059	0.3	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/5/2013 2:04:00 PM	Copper	Dissolved	=	0.81	µg/L	EPA 200.8	0.27	0.5	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/5/2013 2:12:00 PM	Copper	Total	=	1.8	µg/L	EPA 200.8	0.27	0.5	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	2/25/2013 1:43:00 PM	Iron	Dissolved	DNQ	2.6	µg/L	EPA 200.7	1.1	10	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	2/25/2013 1:46:00 PM	Iron	Total	=	1000	µg/L	EPA 200.7	1.1	10	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/5/2013 2:04:00 PM	Lead	Dissolved	DNQ	0.02	µg/L	EPA 200.8	0.011	0.2	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/5/2013 2:12:00 PM	Lead	Total	=	0.37	µg/L	EPA 200.8	0.035	0.2	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	2/25/2013 6:59:00 PM	Mercury	Dissolved	DNQ	11	ng/L	EPA 245.1	3.9	50	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	2/25/2013 6:59:00 PM	Mercury	Total	DNQ	14	ng/L	EPA 245.1	3.9	50	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/5/2013 2:04:00 PM	Nickel	Dissolved	=	1.4	µg/L	EPA 200.8	0.13	0.8	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/5/2013 2:12:00 PM	Nickel	Total	=	2.8	µg/L	EPA 200.8	0.13	0.8	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/5/2013 2:04:00 PM	Selenium	Dissolved	=	4.7	µg/L	EPA 200.8	0.28	0.4	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/5/2013 2:12:00 PM	Selenium	Total	=	5	µg/L	EPA 200.8	0.28	0.4	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/5/2013 2:04:00 PM	Silver	Dissolved	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/5/2013 2:12:00 PM	Silver	Total	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/5/2013 2:04:00 PM	Thallium	Dissolved	<	0.009	µg/L	EPA 200.8	0.009	0.2	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/5/2013 2:12:00 PM	Thallium	Total	<	0.034	µg/L	EPA 200.8	0.034	0.2	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/5/2013 2:04:00 PM	Zinc	Dissolved	DNQ	1.8	µg/L	EPA 200.8	1.1	5	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/5/2013 2:12:00 PM	Zinc	Total	DNQ	4.2	µg/L	EPA 200.8	1.1	5	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/12/2013 6:39:00 PM	Ammonia as N	n/a	<	0.048	mg/L	EPA 350.1	0.048	0.1	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	2/21/2013 7:37:00 PM	Nitrate + Nitrite as N	n/a	=	1.5	mg/L	EPA 353.2	0.01	0.1	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/14/2013 3:52:00 PM	Phosphorus as P	Dissolved	DNQ	0.005	mg/L	EPA 365.1	0.0014	0.01	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/5/2013 3:20:00 PM	Phosphorus as P	Total	=	0.046	mg/L	EPA 365.1	0.0014	0.01	WKL	GB
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/12/2013 10:01:00 PM	TKN	n/a	=	0.23	mg/L	EPA 351.2	0.074	0.1	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/6/2013 8:17:00 PM	1,2,4-Trichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/6/2013 8:17:00 PM	1,2-Dichlorobenzene	n/a	<	0.57	µg/L	EPA 625	0.57	1	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/6/2013 8:17:00 PM	1,2-Diphenylhydrazine	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/6/2013 8:17:00 PM	1,3-Dichlorobenzene	n/a	<	0.53	µg/L	EPA 625	0.53	1	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/6/2013 8:17:00 PM	1,4-Dichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/21/2013 6:26:00 AM	1-Methylnaphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/20/2013 10:02:00 PM	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/20/2013 10:02:00 PM	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/20/2013 10:02:00 PM	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/20/2013 10:02:00 PM	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/20/2013 10:02:00 PM	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/6/2013 8:17:00 PM	2,4-Dinitrotoluene	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/6/2013 8:17:00 PM	2,6-Dinitrotoluene	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/6/2013 8:17:00 PM	2-Chloronaphthalene	n/a	<	0.45	µg/L	EPA 625	0.45	1	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/20/2013 10:02:00 PM	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/21/2013 6:26:00 AM	2-Methylnaphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/20/2013 10:02:00 PM	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/20/2013 10:02:00 PM	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/6/2013 8:17:00 PM	3,3'-Dichlorobenzidine	n/a	<	1.2	µg/L	EPA 625	1.2	5	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/20/2013 10:02:00 PM	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/20/2013 10:02:00 PM	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/6/2013 8:17:00 PM	4-Bromophenyl phenyl ether	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/20/2013 10:02:00 PM	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/6/2013 8:17:00 PM	4-Chlorophenyl phenyl ether	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/20/2013 10:02:00 PM	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/21/2013 6:26:00 AM	Acenaphthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/21/2013 6:26:00 AM	Acenaphthylene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/21/2013 6:26:00 AM	Anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/21/2013 6:26:00 AM	Benz(a)anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/6/2013 8:17:00 PM	Benzidine	n/a	<	3.7	µg/L	EPA 625	3.7	10	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/14/2013 6:05:00 PM	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/21/2013 6:26:00 AM	Benzo(b)fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/21/2013 6:26:00 AM	Benzo(g,h,i)perylene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/21/2013 6:26:00 AM	Benzo(k)fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/6/2013 8:17:00 PM	Bis(2-chloroethoxy)methane	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/6/2013 8:17:00 PM	Bis(2-chloroethyl)ether	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/6/2013 8:17:00 PM	Bis(2-chloroisopropyl)ether	n/a	<	0.38	µg/L	EPA 625	0.38	1	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/14/2013 6:05:00 PM	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/14/2013 6:05:00 PM	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/6/2013 8:17:00 PM	Butyl benzyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/21/2013 6:26:00 AM	Chrysene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/21/2013 6:26:00 AM	Dibenz(a,h)anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/6/2013 8:17:00 PM	Diethyl phthalate	n/a	<	0.15	µg/L	EPA 625	0.15	1	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/6/2013 8:17:00 PM	Dimethyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/6/2013 8:17:00 PM	Di-n-butylphthalate	n/a	<	0.24	µg/L	EPA 625	0.24	1	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/6/2013 8:17:00 PM	Di-n-octylphthalate	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/21/2013 6:26:00 AM	Fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/21/2013 6:26:00 AM	Fluorene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/6/2013 8:17:00 PM	Hexachlorobenzene	n/a	<	0.49	µg/L	EPA 625	0.49	1	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/6/2013 8:17:00 PM	Hexachlorobutadiene	n/a	<	0.47	µg/L	EPA 625	0.47	1	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/6/2013 8:17:00 PM	Hexachlorocyclopentadiene	n/a	<	1.5	µg/L	EPA 625	1.5	5	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/6/2013 8:17:00 PM	Hexachloroethane	n/a	<	0.52	µg/L	EPA 625	0.52	1	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/21/2013 6:26:00 AM	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/6/2013 8:17:00 PM	Isophorone	n/a	<	0.21	µg/L	EPA 625	0.21	1	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/21/2013 6:26:00 AM	Naphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/6/2013 8:17:00 PM	Nitrobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/6/2013 8:17:00 PM	N-Nitrosodimethylamine	n/a	<	0.14	µg/L	EPA 625	0.14	1	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/6/2013 8:17:00 PM	N-Nitrosodi-N-propylamine	n/a	<	0.26	µg/L	EPA 625	0.26	1	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/6/2013 8:17:00 PM	N-Nitrosodiphenylamine	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/21/2013 6:26:00 AM	Phenanthrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/20/2013 10:02:00 PM	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/21/2013 6:26:00 AM	Pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/14/2013 12:39:00 AM	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/14/2013 12:39:00 AM	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/14/2013 12:39:00 AM	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/14/2013 12:39:00 AM	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/14/2013 12:39:00 AM	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/14/2013 12:39:00 AM	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/14/2013 12:39:00 AM	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	2/26/2013 4:25:00 PM	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	2/26/2013 4:25:00 PM	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	2/26/2013 4:25:00 PM	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	2/26/2013 4:25:00 PM	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	2/26/2013 4:25:00 PM	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/14/2013 12:39:00 AM	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/14/2013 12:39:00 AM	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/14/2013 12:39:00 AM	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	2/26/2013 4:25:00 PM	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/14/2013 6:05:00 PM	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/14/2013 12:39:00 AM	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/14/2013 12:39:00 AM	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/14/2013 12:39:00 AM	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/14/2013 6:05:00 PM	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/15/2013 6:46:00 AM	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	GB
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	2/26/2013 4:25:00 PM	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/14/2013 12:39:00 AM	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/15/2013 6:46:00 AM	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/14/2013 6:05:00 PM	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/14/2013 6:05:00 PM	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/14/2013 6:05:00 PM	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/14/2013 12:39:00 AM	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/14/2013 6:05:00 PM	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/15/2013 6:46:00 AM	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/15/2013 6:46:00 AM	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/14/2013 6:05:00 PM	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	2/26/2013 4:25:00 PM	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	2/26/2013 4:25:00 PM	DCPA (Dacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/14/2013 12:39:00 AM	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/15/2013 6:46:00 AM	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/15/2013 6:46:00 AM	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/15/2013 6:46:00 AM	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	2/26/2013 4:25:00 PM	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	2/26/2013 4:25:00 PM	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/15/2013 6:46:00 AM	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/14/2013 12:39:00 AM	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/15/2013 6:46:00 AM	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	2/26/2013 4:25:00 PM	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/14/2013 6:05:00 PM	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/15/2013 6:46:00 AM	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/14/2013 12:39:00 AM	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/14/2013 12:39:00 AM	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/14/2013 12:39:00 AM	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/14/2013 12:39:00 AM	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/14/2013 12:39:00 AM	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/14/2013 6:05:00 PM	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/15/2013 6:46:00 AM	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/15/2013 6:46:00 AM	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/15/2013 6:46:00 AM	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/15/2013 6:46:00 AM	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/14/2013 12:39:00 AM	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/14/2013 12:39:00 AM	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	2/25/2013 5:50:00 PM	Glyphosate	n/a	<	1.8	µg/L	EPA 547	1.8	5	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/14/2013 12:39:00 AM	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/14/2013 12:39:00 AM	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/15/2013 6:46:00 AM	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/15/2013 6:46:00 AM	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/14/2013 12:39:00 AM	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/15/2013 6:46:00 AM	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/14/2013 6:05:00 PM	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/14/2013 6:05:00 PM	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/15/2013 6:46:00 AM	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/14/2013 6:05:00 PM	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/15/2013 6:46:00 AM	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	IL
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	2/26/2013 4:25:00 PM	Pentachlorophenol	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.2	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/15/2013 6:46:00 AM	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	IL
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	2/26/2013 4:25:00 PM	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/14/2013 6:05:00 PM	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/14/2013 6:05:00 PM	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/15/2013 6:46:00 AM	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/14/2013 6:05:00 PM	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/15/2013 6:46:00 AM	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/14/2013 6:05:00 PM	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/14/2013 6:05:00 PM	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/15/2013 6:46:00 AM	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/14/2013 12:39:00 AM	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/15/2013 6:46:00 AM	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-SCR	2012/13-3	Wet	2/20/2013 11:50:00 AM	3/14/2013 6:05:00 PM	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 12:47:00 AM	3/8/2013 11:02:00 PM	E. Coli	n/a	=	30	MPN/100 mL	MMO-MUG	10	10	VCHCA	
ME-SCR	2012/13-4	Wet	3/8/2013 12:47:00 AM	3/9/2013 5:00:00 AM	Enterococcus	n/a	=	85	MPN/100 mL	Enterolert	10	10	VCHCA	
ME-SCR	2012/13-4	Wet	3/8/2013 12:47:00 AM	3/12/2013 2:50:00 AM	Fecal Coliform	n/a	=	50	MPN/100 mL	SM 9221 E	2	2	VCHCA	
ME-SCR	2012/13-4	Wet	3/8/2013 12:47:00 AM	3/8/2013 11:02:00 PM	Total Coliform	n/a	=	3968	MPN/100 mL	MMO-MUG	10	10	VCHCA	
ME-SCR	2012/13-4	Wet	3/8/2013 12:47:00 AM	3/8/2013 12:47:00 AM	Conductivity	n/a	=	1276	µmhos/cm	Field Meter	-88	1	Field Crew	
ME-SCR	2012/13-4	Wet	3/8/2013 12:47:00 AM	3/22/2013 1:30:00 PM	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 12:47:00 AM	3/8/2013 12:47:00 AM	DO	n/a	=	6.04	mg/L	Field Meter	-88	0.3	Field Crew	
ME-SCR	2012/13-4	Wet	3/8/2013 12:47:00 AM	3/8/2013 12:47:00 AM	DO	n/a	=	59.2	%	Field Meter	-88	0.1	Field Crew	
ME-SCR	2012/13-4	Wet	3/8/2013 12:47:00 AM	3/8/2013 12:47:00 AM	pH	n/a	=	8.06	pH Units	Field Meter	-88	0.01	Field Crew	
ME-SCR	2012/13-4	Wet	3/8/2013 12:47:00 AM	3/8/2013 12:47:00 AM	Salinity	n/a	=	800	mg/L	Field Meter	-88	100	Field Crew	
ME-SCR	2012/13-4	Wet	3/8/2013 12:47:00 AM	3/8/2013 12:47:00 AM	Specific Conductance	n/a	=	1592	µmhos/cm	Field Meter	-88	1	Field Crew	
ME-SCR	2012/13-4	Wet	3/8/2013 12:47:00 AM	3/8/2013 12:47:00 AM	Temperature	n/a	=	14.5	°C	Field Meter	-88	0.1	Field Crew	
ME-SCR	2012/13-4	Wet	3/8/2013 12:47:00 AM	3/14/2013 3:00:00 PM	Oil and Grease	n/a	DNQ	1.5	mg/L	EPA 1664A	1.3	5	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 12:47:00 AM	3/14/2013 3:00:00 PM	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 12:47:00 AM	3/11/2013 3:24:00 PM	2-Chloroethyl vinyl ether	n/a	<	0.61	µg/L	EPA 524.2	0.61	1	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 12:47:00 AM	3/11/2013 3:24:00 PM	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/19/2013 8:50:00 PM	Chloride	n/a	=	72	mg/L	EPA 300.0	0.2	1	WKL	D
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/19/2013 8:50:00 PM	Fluoride	n/a	=	0.54	mg/L	EPA 300.0	0.04	0.2	WKL	D
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/19/2013 5:42:00 PM	Perchlorate	n/a	<	0.95	µg/L	EPA 314.0	0.95	2	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/14/2013 11:16:00 AM	Calcium	Total	=	258	mg/L	EPA 200.7	0.0156	0.1	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/14/2013 11:16:00 AM	Magnesium	Total	=	117	mg/L	EPA 200.7	0.0121	0.1	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/22/2013 10:05:00 AM	Alkalinity as CaCO3	n/a	=	270	mg/L	SM 2320 B	0.56	10	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/14/2013 2:00:00 PM	BOD	n/a	=	6.6	mg/L	SM 5210 B	0.1	2	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/20/2013 10:56:00 PM	COD	n/a	=	280	mg/L	EPA 410.4	0.73	5	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/14/2013 11:16:00 AM	Hardness as CaCO3	Total	=	1130	mg/L	EPA 200.7	0.0885	0.662	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/9/2013 8:43:00 PM	MBAS	n/a	<	0.076	mg/L	SM 5540 C	0.076	0.2	WKL	D
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/26/2013 11:56:00 AM	Phenolics	n/a	=	0.27	mg/L	EPA 420.4	0.0084	0.02	WKL	D
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/18/2013 3:18:00 PM	Specific Conductance	n/a	=	1600	µmhos/cm	SM 2510 B	0.47	4	WKL	D
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/12/2013 9:45:00 PM	Total Dissolved Solids	n/a	=	1100	mg/L	SM 2540 C	4	10	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/14/2013 2:56:00 PM	Total Organic Carbon	n/a	=	3.1	mg/L	SM 5310 C	0.009	0.3	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/12/2013 8:00:00 PM	Total Suspended Solids	n/a	=	5500	mg/L	SM 2540 D	5	5	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/9/2013 6:55:00 PM	Turbidity	n/a	=	530	NTU	EPA 180.1	0.024	0.1	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/12/2013 8:00:00 PM	Volatile Suspended Solids	n/a	=	440	mg/L	EPA 160.4	3.1	5	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	4/1/2013 5:53:00 PM	Aluminum	Dissolved	DNQ	3.4	µg/L	EPA 200.8	0.61	5	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	4/1/2013 10:04:00 PM	Aluminum	Total	=	79000	µg/L	EPA 200.8	31	75	WKL	D
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	4/1/2013 5:53:00 PM	Antimony	Dissolved	DNQ	0.31	µg/L	EPA 200.8	0.04	0.5	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	4/1/2013 10:36:00 PM	Antimony	Total	DNQ	0.14	µg/L	EPA 200.8	0.04	0.5	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	4/1/2013 5:53:00 PM	Arsenic	Dissolved	=	0.48	µg/L	EPA 200.8	0.036	0.4	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	4/1/2013 10:04:00 PM	Arsenic	Total	=	34	µg/L	EPA 200.8	1.9	6	WKL	D
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	4/1/2013 10:04:00 PM	Barium	Total	=	960	µg/L	EPA 200.8	1.5	7.5	WKL	D
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	4/2/2013 12:47:00 PM	Beryllium	Dissolved	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	4/2/2013 1:36:00 PM	Beryllium	Total	=	4.8	µg/L	EPA 200.8	1.3	1.5	WKL	D
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	4/1/2013 5:53:00 PM	Cadmium	Dissolved	DNQ	0.06	µg/L	EPA 200.8	0.02	0.1	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	4/1/2013 10:04:00 PM	Cadmium	Total	=	5.8	µg/L	EPA 200.8	0.3	1.5	WKL	D
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	4/1/2013 5:53:00 PM	Chromium	Dissolved	<	0.074	µg/L	EPA 200.8	0.074	0.2	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	4/1/2013 10:04:00 PM	Chromium	Total	=	150	µg/L	EPA 200.8	1.1	3	WKL	D
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/13/2013 3:51:00 PM	Chromium VI	n/a	DNQ	0.14	µg/L	EPA 218.6	0.0059	0.3	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	4/1/2013 5:53:00 PM	Copper	Dissolved	=	1.6	µg/L	EPA 200.8	0.27	0.5	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	4/1/2013 10:04:00 PM	Copper	Total	=	170	µg/L	EPA 200.8	4	7.5	WKL	D
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/14/2013 11:13:00 AM	Iron	Dissolved	DNQ	6.3	µg/L	EPA 200.7	1.1	10	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/14/2013 11:16:00 AM	Iron	Total	=	170000	µg/L	EPA 200.7	1.1	10	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	4/2/2013 12:47:00 PM	Lead	Dissolved	DNQ	0.07	µg/L	EPA 200.8	0.011	0.2	WKL	UL-MB
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	4/2/2013 1:36:00 PM	Lead	Total	=	59	µg/L	EPA 200.8	0.52	3	WKL	D
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/27/2013 4:18:00 PM	Mercury	Dissolved	=	67	ng/L	EPA 245.1	3.9	50	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/27/2013 4:18:00 PM	Mercury	Total	=	240	ng/L	EPA 245.1	3.9	50	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	4/1/2013 5:53:00 PM	Nickel	Dissolved	=	3.1	µg/L	EPA 200.8	0.13	0.8	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	4/1/2013 10:04:00 PM	Nickel	Total	=	230	µg/L	EPA 200.8	2	12	WKL	D
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	4/1/2013 5:53:00 PM	Selenium	Dissolved	=	4.3	µg/L	EPA 200.8	0.28	0.4	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	4/1/2013 10:04:00 PM	Selenium	Total	=	8.8	µg/L	EPA 200.8	4.2	6	WKL	D
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	4/1/2013 5:53:00 PM	Silver	Dissolved	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	4/1/2013 10:36:00 PM	Silver	Total	=	0.61	µg/L	EPA 200.8	0.027	0.2	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	4/1/2013 5:53:00 PM	Thallium	Dissolved	DNQ	0.03	µg/L	EPA 200.8	0.009	0.2	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	4/1/2013 10:36:00 PM	Thallium	Total	=	2.3	µg/L	EPA 200.8	0.034	0.2	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	4/1/2013 5:53:00 PM	Zinc	Dissolved	DNQ	1.8	µg/L	EPA 200.8	1.1	5	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	4/1/2013 10:04:00 PM	Zinc	Total	=	580	µg/L	EPA 200.8	17	75	WKL	D
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/20/2013 6:46:00 PM	Ammonia as N	n/a	=	0.59	mg/L	EPA 350.1	0.096	0.2	WKL	D
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/11/2013 5:13:00 PM	Nitrate + Nitrite as N	n/a	=	1.8	mg/L	EPA 353.2	0.01	0.1	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	4/4/2013 7:32:00 PM	Phosphorus as P	Dissolved	=	0.015	mg/L	EPA 365.1	0.0014	0.01	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/15/2013 2:57:00 PM	Phosphorus as P	Total	=	5.4	mg/L	EPA 365.1	0.07	0.5	WKL	D
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/21/2013 1:11:00 PM	TKN	n/a	=	7.9	mg/L	EPA 351.2	0.15	0.2	WKL	D
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/18/2013 11:10:00 PM	1,2,4-Trichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/18/2013 11:10:00 PM	1,2-Dichlorobenzene	n/a	<	0.57	µg/L	EPA 625	0.57	1	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/18/2013 11:10:00 PM	1,2-Diphenylhydrazine	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/18/2013 11:10:00 PM	1,3-Dichlorobenzene	n/a	<	0.53	µg/L	EPA 625	0.53	1	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/18/2013 11:10:00 PM	1,4-Dichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	4/9/2013 7:34:00 PM	1-Methylnaphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	4/11/2013 2:04:00 AM	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	4/11/2013 2:04:00 AM	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	4/11/2013 2:04:00 AM	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	4/11/2013 2:04:00 AM	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	4/11/2013 2:04:00 AM	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/18/2013 11:10:00 PM	2,4-Dinitrotoluene	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/18/2013 11:10:00 PM	2,6-Dinitrotoluene	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/18/2013 11:10:00 PM	2-Chloronaphthalene	n/a	<	0.45	µg/L	EPA 625	0.45	1	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	4/11/2013 2:04:00 AM	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	4/9/2013 7:34:00 PM	2-Methylnaphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	4/11/2013 2:04:00 AM	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	4/11/2013 2:04:00 AM	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/18/2013 11:10:00 PM	3,3'-Dichlorobenzidine	n/a	<	1.2	µg/L	EPA 625	1.2	5	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	4/11/2013 2:04:00 AM	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	4/11/2013 2:04:00 AM	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/18/2013 11:10:00 PM	4-Bromophenyl phenyl ether	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	4/11/2013 2:04:00 AM	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/18/2013 11:10:00 PM	4-Chlorophenyl phenyl ether	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	4/11/2013 2:04:00 AM	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	4/9/2013 7:34:00 PM	Acenaphthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	4/9/2013 7:34:00 PM	Acenaphthylene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	4/9/2013 7:34:00 PM	Anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	4/9/2013 7:34:00 PM	Benz(a)anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/18/2013 11:10:00 PM	Benzidine	n/a	<	3.7	µg/L	EPA 625	3.7	10	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/26/2013 5:34:00 PM	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	4/9/2013 7:34:00 PM	Benzo(b)fluoranthene	n/a	=	0.11	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	4/9/2013 7:34:00 PM	Benzo(g,h,i)perylene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	4/9/2013 7:34:00 PM	Benzo(k)fluoranthene	n/a	=	0.12	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/18/2013 11:10:00 PM	Bis(2-chloroethoxy)methane	n/a	DNQ	0.3	µg/L	EPA 625	0.25	1	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/18/2013 11:10:00 PM	Bis(2-chloroethyl)ether	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/18/2013 11:10:00 PM	Bis(2-chloroisopropyl)ether	n/a	<	0.38	µg/L	EPA 625	0.38	1	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/26/2013 5:34:00 PM	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/26/2013 5:34:00 PM	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/18/2013 11:10:00 PM	Butyl benzyl phthalate	n/a	DNQ	0.55	µg/L	EPA 625	0.18	1	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	4/9/2013 7:34:00 PM	Chrysene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	4/9/2013 7:34:00 PM	Dibenz(a,h)anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/18/2013 11:10:00 PM	Diethyl phthalate	n/a	DNQ	0.57	µg/L	EPA 625	0.15	1	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/18/2013 11:10:00 PM	Dimethyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/18/2013 11:10:00 PM	Di-n-butylphthalate	n/a	DNQ	0.42	µg/L	EPA 625	0.24	1	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/18/2013 11:10:00 PM	Di-n-octylphthalate	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	4/9/2013 7:34:00 PM	Fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	4/9/2013 7:34:00 PM	Fluorene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/18/2013 11:10:00 PM	Hexachlorobenzene	n/a	<	0.49	µg/L	EPA 625	0.49	1	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/18/2013 11:10:00 PM	Hexachlorobutadiene	n/a	<	0.47	µg/L	EPA 625	0.47	1	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/18/2013 11:10:00 PM	Hexachlorocyclopentadiene	n/a	<	1.5	µg/L	EPA 625	1.5	5	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/18/2013 11:10:00 PM	Hexachloroethane	n/a	<	0.52	µg/L	EPA 625	0.52	1	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	4/9/2013 7:34:00 PM	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/18/2013 11:10:00 PM	Isophorone	n/a	<	0.21	µg/L	EPA 625	0.21	1	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	4/9/2013 7:34:00 PM	Naphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/18/2013 11:10:00 PM	Nitrobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/18/2013 11:10:00 PM	N-Nitrosodimethylamine	n/a	<	0.14	µg/L	EPA 625	0.14	1	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/18/2013 11:10:00 PM	N-Nitrosodi-N-propylamine	n/a	<	0.26	µg/L	EPA 625	0.26	1	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/18/2013 11:10:00 PM	N-Nitrosodiphenylamine	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	4/9/2013 7:34:00 PM	Phenanthrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	4/11/2013 2:04:00 AM	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	4/9/2013 7:34:00 PM	Pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/24/2013 5:12:00 AM	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/24/2013 5:12:00 AM	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/24/2013 5:12:00 AM	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/24/2013 5:12:00 AM	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/24/2013 5:12:00 AM	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/24/2013 5:12:00 AM	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/24/2013 5:12:00 AM	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/21/2013 7:15:00 PM	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/21/2013 7:15:00 PM	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/21/2013 7:15:00 PM	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/21/2013 7:15:00 PM	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/21/2013 7:15:00 PM	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/24/2013 5:12:00 AM	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/24/2013 5:12:00 AM	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/24/2013 5:12:00 AM	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/21/2013 7:15:00 PM	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/26/2013 5:34:00 PM	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/24/2013 5:12:00 AM	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/24/2013 5:12:00 AM	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/24/2013 5:12:00 AM	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/26/2013 5:34:00 PM	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	4/12/2013 3:00:00 AM	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	LB-LCSR
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/21/2013 7:15:00 PM	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/24/2013 5:12:00 AM	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	4/12/2013 3:00:00 AM	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/26/2013 5:34:00 PM	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/26/2013 5:34:00 PM	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/26/2013 5:34:00 PM	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/24/2013 5:12:00 AM	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/26/2013 5:34:00 PM	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	4/12/2013 3:00:00 AM	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	4/12/2013 3:00:00 AM	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/26/2013 5:34:00 PM	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/21/2013 7:15:00 PM	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/21/2013 7:15:00 PM	DCPA (Dacthal)	n/a	=	0.18	µg/L	EPA 515.3	0.07	0.1	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/24/2013 5:12:00 AM	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	4/12/2013 3:00:00 AM	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	4/12/2013 3:00:00 AM	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	4/12/2013 3:00:00 AM	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/21/2013 7:15:00 PM	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/21/2013 7:15:00 PM	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	4/12/2013 3:00:00 AM	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/24/2013 5:12:00 AM	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	4/12/2013 3:00:00 AM	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/21/2013 7:15:00 PM	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/26/2013 5:34:00 PM	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	4/12/2013 3:00:00 AM	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/24/2013 5:12:00 AM	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/24/2013 5:12:00 AM	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/24/2013 5:12:00 AM	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/24/2013 5:12:00 AM	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/24/2013 5:12:00 AM	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/26/2013 5:34:00 PM	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	4/12/2013 3:00:00 AM	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	4/12/2013 3:00:00 AM	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	4/12/2013 3:00:00 AM	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	4/12/2013 3:00:00 AM	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/24/2013 5:12:00 AM	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/24/2013 5:12:00 AM	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/12/2013 4:53:00 PM	Glyphosate	n/a	<	1.8	µg/L	EPA 547	1.8	5	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/24/2013 5:12:00 AM	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/24/2013 5:12:00 AM	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	4/12/2013 3:00:00 AM	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	4/12/2013 3:00:00 AM	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/24/2013 5:12:00 AM	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	4/12/2013 3:00:00 AM	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/26/2013 5:34:00 PM	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/26/2013 5:34:00 PM	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	4/12/2013 3:00:00 AM	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/26/2013 5:34:00 PM	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	4/12/2013 3:00:00 AM	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/21/2013 7:15:00 PM	Pentachlorophenol	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.2	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	4/12/2013 3:00:00 AM	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/21/2013 7:15:00 PM	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/26/2013 5:34:00 PM	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/26/2013 5:34:00 PM	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	4/12/2013 3:00:00 AM	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/26/2013 5:34:00 PM	Simazine	n/a	=	0.42	µg/L	EPA 525.2	0.015	0.1	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	4/12/2013 3:00:00 AM	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/26/2013 5:34:00 PM	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/26/2013 5:34:00 PM	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	4/12/2013 3:00:00 AM	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/24/2013 5:12:00 AM	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	4/12/2013 3:00:00 AM	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
ME-SCR	2012/13-4	Wet	3/8/2013 10:45:00 AM	3/26/2013 5:34:00 PM	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/7/2013 7:06:00 AM	Chloride	n/a	=	86	mg/L	EPA 300.0	0.2	1	WKL	D
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/7/2013 7:06:00 AM	Fluoride	n/a	=	0.63	mg/L	EPA 300.0	0.04	0.2	WKL	D
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/1/2013 4:45:00 PM	Perchlorate	n/a	<	0.95	µg/L	EPA 314.0	0.95	2	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	4/24/2013 9:58:00 AM	E. Coli	n/a	=	110	MPN/100 mL	MMO-MUG	10	10	VCHCA	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	4/24/2013 3:00:00 PM	Enterococcus	n/a	=	31	MPN/100 mL	Enterolert	10	10	VCHCA	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	4/26/2013 1:00:00 PM	Fecal Coliform	n/a	=	300	MPN/100 mL	SM 9221 E	2	2	VCHCA	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	4/24/2013 9:58:00 AM	Total Coliform	n/a	=	10462	MPN/100 mL	MMO-MUG	10	10	VCHCA	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/6/2013 5:08:00 PM	Calcium	Total	=	157	mg/L	EPA 200.7	0.016	0.1	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/6/2013 5:08:00 PM	Magnesium	Total	=	65.2	mg/L	EPA 200.7	0.012	0.1	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/1/2013 4:26:00 PM	Alkalinity as CaCO3	n/a	=	240	mg/L	SM 2320 B	0.56	10	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	4/29/2013 5:45:00 PM	BOD	n/a	DNQ	1.7	mg/L	SM 5210 B	0.1	2	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	4/27/2013 1:07:00 PM	COD	n/a	=	6.5	mg/L	EPA 410.4	0.73	5	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	4/23/2013 11:25:00 AM	Conductivity	n/a	=	1487	µmhos/cm	Field Meter	-88	1	Field Crew	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/7/2013 10:41:00 AM	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	4/23/2013 11:25:00 AM	DO	n/a	=	11.72	mg/L	Field Meter	-88	0.3	Field Crew	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	4/23/2013 11:25:00 AM	DO	n/a	=	124.4	%	Field Meter	-88	0.1	Field Crew	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/6/2013 5:08:00 PM	Hardness as CaCO3	Total	=	660	mg/L	EPA 200.7	0.0894	0.662	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	4/24/2013 8:29:00 PM	MBAS	n/a	<	0.019	mg/L	SM 5540 C	0.019	0.05	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	4/23/2013 11:25:00 AM	pH	n/a	=	8.17	pH Units	Field Meter	-88	0.01	Field Crew	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	4/26/2013 12:35:00 PM	Phenolics	n/a	<	0.0042	mg/L	EPA 420.4	0.0042	0.01	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	4/23/2013 11:25:00 AM	Salinity	n/a	=	900	mg/L	Field Meter	-88	100	Field Crew	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	4/23/2013 11:25:00 AM	Specific Conductance	n/a	=	1716	µmhos/cm	Field Meter	-88	1	Field Crew	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/3/2013 11:25:00 AM	Specific Conductance	n/a	=	1900	µmhos/cm	SM 2510 B	0.47	4	WKL	D
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	4/23/2013 11:25:00 AM	Temperature	n/a	=	18	°C	Field Meter	-88	0.1	Field Crew	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	4/29/2013 8:30:00 PM	Total Dissolved Solids	n/a	=	1200	mg/L	SM 2540 C	4	10	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	4/29/2013 1:45:00 PM	Total Organic Carbon	n/a	=	2.1	mg/L	SM 5310 C	0.009	0.3	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	4/29/2013 8:30:00 PM	Total Suspended Solids	n/a	=	7	mg/L	SM 2540 D	5	5	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	4/24/2013 5:52:00 PM	Turbidity	n/a	=	3.2	NTU	EPA 180.1	0.024	0.1	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	4/29/2013 8:30:00 PM	Volatile Suspended Solids	n/a	<	3.1	mg/L	EPA 160.4	3.1	5	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	4/25/2013 5:01:00 PM	Oil and Grease	n/a	<	1.3	mg/L	EPA 1664A	1.3	5	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	4/25/2013 5:01:00 PM	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/7/2013 4:24:00 AM	Aluminum	Dissolved	<	2.1	µg/L	EPA 200.8	2.1	5	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/7/2013 4:32:00 AM	Aluminum	Total	=	45	µg/L	EPA 200.8	2.1	5	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/7/2013 4:24:00 AM	Antimony	Dissolved	DNQ	0.21	µg/L	EPA 200.8	0.034	0.5	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/7/2013 4:32:00 AM	Antimony	Total	DNQ	0.21	µg/L	EPA 200.8	0.034	0.5	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/7/2013 4:24:00 AM	Arsenic	Dissolved	=	0.73	µg/L	EPA 200.8	0.13	0.4	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/7/2013 4:32:00 AM	Arsenic	Total	=	0.79	µg/L	EPA 200.8	0.13	0.4	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/7/2013 4:32:00 AM	Barium	Total	=	33	µg/L	EPA 200.8	0.097	0.5	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/7/2013 4:07:00 PM	Beryllium	Dissolved	<	0.015	µg/L	EPA 200.8	0.015	0.1	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/7/2013 4:11:00 PM	Beryllium	Total	<	0.015	µg/L	EPA 200.8	0.015	0.1	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/7/2013 4:24:00 AM	Cadmium	Dissolved	DNQ	0.03	µg/L	EPA 200.8	0.017	0.1	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/7/2013 4:32:00 AM	Cadmium	Total	DNQ	0.03	µg/L	EPA 200.8	0.017	0.1	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/7/2013 4:24:00 AM	Chromium	Dissolved	DNQ	0.04	µg/L	EPA 200.8	0.024	0.2	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/7/2013 4:32:00 AM	Chromium	Total	DNQ	0.12	µg/L	EPA 200.8	0.024	0.2	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	4/25/2013 12:19:00 PM	Chromium VI	n/a	DNQ	0.021	µg/L	EPA 218.6	0.0059	0.3	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/7/2013 4:24:00 AM	Copper	Dissolved	=	1	µg/L	EPA 200.8	0.036	0.5	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/7/2013 4:32:00 AM	Copper	Total	=	1.4	µg/L	EPA 200.8	0.036	0.5	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/6/2013 5:05:00 PM	Iron	Dissolved	<	1.1	µg/L	EPA 200.7	1.1	10	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/6/2013 5:08:00 PM	Iron	Total	=	91	µg/L	EPA 200.7	1.1	10	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/7/2013 4:24:00 AM	Lead	Dissolved	<	0.024	µg/L	EPA 200.8	0.024	0.2	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/7/2013 4:32:00 AM	Lead	Total	DNQ	0.03	µg/L	EPA 200.8	0.024	0.2	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/1/2013 4:22:00 PM	Mercury	Dissolved	DNQ	7	ng/L	EPA 245.1	3.9	50	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/1/2013 4:22:00 PM	Mercury	Total	DNQ	8	ng/L	EPA 245.1	3.9	50	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/7/2013 4:24:00 AM	Nickel	Dissolved	=	1.4	µg/L	EPA 200.8	0.091	0.8	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/7/2013 4:32:00 AM	Nickel	Total	=	1.6	µg/L	EPA 200.8	0.091	0.8	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/7/2013 4:07:00 PM	Selenium	Dissolved	=	4.8	µg/L	EPA 200.8	0.081	0.4	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/7/2013 4:11:00 PM	Selenium	Total	=	5.2	µg/L	EPA 200.8	0.081	0.4	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/7/2013 4:24:00 AM	Silver	Dissolved	<	0.012	µg/L	EPA 200.8	0.012	0.2	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/7/2013 4:32:00 AM	Silver	Total	<	0.012	µg/L	EPA 200.8	0.012	0.2	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/7/2013 4:24:00 AM	Thallium	Dissolved	<	0.034	µg/L	EPA 200.8	0.034	0.2	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/7/2013 4:32:00 AM	Thallium	Total	<	0.034	µg/L	EPA 200.8	0.034	0.2	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/7/2013 4:24:00 AM	Zinc	Dissolved	DNQ	1.4	µg/L	EPA 200.8	0.5	5	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/7/2013 4:32:00 AM	Zinc	Total	DNQ	1	µg/L	EPA 200.8	0.5	5	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/9/2013 4:33:00 PM	Ammonia as N	n/a	<	0.048	mg/L	EPA 350.1	0.048	0.1	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	4/24/2013 12:20:00 PM	Nitrate + Nitrite as N	n/a	=	1.4	mg/L	EPA 353.2	0.01	0.1	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/20/2013 7:30:00 PM	Phosphorus as P	Dissolved	=	0.011	mg/L	EPA 365.1	0.0014	0.01	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/8/2013 11:29:00 PM	Phosphorus as P	Total	=	0.018	mg/L	EPA 365.1	0.0014	0.01	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/6/2013 12:05:00 PM	TKN	n/a	DNQ	0.057	mg/L	EPA 351.2	0.05	0.1	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/6/2013 11:51:00 PM	1,2,4-Trichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/6/2013 11:51:00 PM	1,2-Dichlorobenzene	n/a	<	0.57	µg/L	EPA 625	0.57	1	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/6/2013 11:51:00 PM	1,2-Diphenylhydrazine	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/6/2013 11:51:00 PM	1,3-Dichlorobenzene	n/a	<	0.53	µg/L	EPA 625	0.53	1	WKL	EST-LCSRPD
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/6/2013 11:51:00 PM	1,4-Dichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	EST-LCSRPD
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/11/2013 6:05:00 AM	1-Methylnaphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/10/2013 5:18:00 PM	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/10/2013 5:18:00 PM	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/10/2013 5:18:00 PM	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/10/2013 5:18:00 PM	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/10/2013 5:18:00 PM	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	EST-LCSRPD
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/6/2013 11:51:00 PM	2,4-Dinitrotoluene	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/6/2013 11:51:00 PM	2,6-Dinitrotoluene	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	4/25/2013 8:04:00 AM	2-Chloroethyl vinyl ether	n/a	<	0.28	µg/L	EPA 624	0.28	1	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/6/2013 11:51:00 PM	2-Chloronaphthalene	n/a	<	0.45	µg/L	EPA 625	0.45	1	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/10/2013 5:18:00 PM	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/11/2013 6:05:00 AM	2-Methylnaphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/10/2013 5:18:00 PM	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/10/2013 5:18:00 PM	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/6/2013 11:51:00 PM	3,3'-Dichlorobenzidine	n/a	<	1.2	µg/L	EPA 625	1.2	5	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/10/2013 5:18:00 PM	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/10/2013 5:18:00 PM	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/6/2013 11:51:00 PM	4-Bromophenyl phenyl ether	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/10/2013 5:18:00 PM	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/6/2013 11:51:00 PM	4-Chlorophenyl phenyl ether	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/10/2013 5:18:00 PM	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/11/2013 6:05:00 AM	Acenaphthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/11/2013 6:05:00 AM	Acenaphthylene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/11/2013 6:05:00 AM	Anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/11/2013 6:05:00 AM	Benz(a)anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/6/2013 11:51:00 PM	Benzidine	n/a	<	3.7	µg/L	EPA 625	3.7	10	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/1/2013 7:09:00 PM	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/11/2013 6:05:00 AM	Benzo(b)fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/11/2013 6:05:00 AM	Benzo(g,h,i)perylene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/11/2013 6:05:00 AM	Benzo(k)fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/6/2013 11:51:00 PM	Bis(2-chloroethoxy)methane	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/6/2013 11:51:00 PM	Bis(2-chloroethyl)ether	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/6/2013 11:51:00 PM	Bis(2-chloroisopropyl)ether	n/a	<	0.38	µg/L	EPA 625	0.38	1	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/1/2013 7:09:00 PM	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/1/2013 7:09:00 PM	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/6/2013 11:51:00 PM	Butyl benzyl phthalate	n/a	DNQ	0.53	µg/L	EPA 625	0.18	1	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/11/2013 6:05:00 AM	Chrysene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/11/2013 6:05:00 AM	Dibenz(a,h)anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/6/2013 11:51:00 PM	Diethyl phthalate	n/a	DNQ	0.17	µg/L	EPA 625	0.15	1	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/6/2013 11:51:00 PM	Dimethyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/6/2013 11:51:00 PM	Di-n-butylphthalate	n/a	<	0.24	µg/L	EPA 625	0.24	1	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/6/2013 11:51:00 PM	Di-n-octylphthalate	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/11/2013 6:05:00 AM	Fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/11/2013 6:05:00 AM	Fluorene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/6/2013 11:51:00 PM	Hexachlorobenzene	n/a	<	0.49	µg/L	EPA 625	0.49	1	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/6/2013 11:51:00 PM	Hexachlorobutadiene	n/a	<	0.47	µg/L	EPA 625	0.47	1	WKL	EST-LCSRPD
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/6/2013 11:51:00 PM	Hexachlorocyclopentadiene	n/a	<	1.5	µg/L	EPA 625	1.5	5	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/6/2013 11:51:00 PM	Hexachloroethane	n/a	<	0.52	µg/L	EPA 625	0.52	1	WKL	EST-LCSRPD
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/11/2013 6:05:00 AM	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/6/2013 11:51:00 PM	Isophorone	n/a	<	0.21	µg/L	EPA 625	0.21	1	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	4/25/2013 8:04:00 AM	Methyl tert-butyl ether (MTBE)	n/a	<	0.25	µg/L	EPA 624	0.25	1	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/11/2013 6:05:00 AM	Naphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/6/2013 11:51:00 PM	Nitrobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/6/2013 11:51:00 PM	N-Nitrosodimethylamine	n/a	<	0.14	µg/L	EPA 625	0.14	1	WKL	EST-LCSRPD
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/6/2013 11:51:00 PM	N-Nitrosodi-N-propylamine	n/a	<	0.26	µg/L	EPA 625	0.26	1	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/6/2013 11:51:00 PM	N-Nitrosodiphenylamine	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/11/2013 6:05:00 AM	Phenanthrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/10/2013 5:18:00 PM	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/11/2013 6:05:00 AM	Pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/8/2013 1:36:00 AM	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/8/2013 1:36:00 AM	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/8/2013 1:36:00 AM	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/8/2013 1:36:00 AM	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/8/2013 1:36:00 AM	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/8/2013 1:36:00 AM	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/8/2013 1:36:00 AM	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	4/26/2013 2:47:00 PM	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	4/26/2013 2:47:00 PM	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	4/26/2013 2:47:00 PM	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	4/26/2013 2:47:00 PM	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	4/26/2013 2:47:00 PM	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/8/2013 1:36:00 AM	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/8/2013 1:36:00 AM	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/8/2013 1:36:00 AM	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	4/26/2013 2:47:00 PM	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/1/2013 7:09:00 PM	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/8/2013 1:36:00 AM	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/8/2013 1:36:00 AM	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/8/2013 1:36:00 AM	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/1/2013 7:09:00 PM	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	4/29/2013 7:29:00 PM	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	4/26/2013 2:47:00 PM	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/8/2013 1:36:00 AM	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	4/29/2013 7:29:00 PM	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/1/2013 7:09:00 PM	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/1/2013 7:09:00 PM	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/1/2013 7:09:00 PM	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/8/2013 1:36:00 AM	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/1/2013 7:09:00 PM	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	4/29/2013 7:29:00 PM	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	4/29/2013 7:29:00 PM	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/1/2013 7:09:00 PM	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	4/26/2013 2:47:00 PM	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	4/26/2013 2:47:00 PM	DCPA (Dacthal)	n/a	DNQ	0.09	µg/L	EPA 515.3	0.07	0.1	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/8/2013 1:36:00 AM	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	4/29/2013 7:29:00 PM	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	4/29/2013 7:29:00 PM	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	4/29/2013 7:29:00 PM	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	4/26/2013 2:47:00 PM	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	4/26/2013 2:47:00 PM	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	4/29/2013 7:29:00 PM	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/8/2013 1:36:00 AM	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	4/29/2013 7:29:00 PM	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	4/26/2013 2:47:00 PM	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/1/2013 7:09:00 PM	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	4/29/2013 7:29:00 PM	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/8/2013 1:36:00 AM	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/8/2013 1:36:00 AM	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/8/2013 1:36:00 AM	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/8/2013 1:36:00 AM	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/8/2013 1:36:00 AM	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/1/2013 7:09:00 PM	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	4/29/2013 7:29:00 PM	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	4/29/2013 7:29:00 PM	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	4/29/2013 7:29:00 PM	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	4/29/2013 7:29:00 PM	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/8/2013 1:36:00 AM	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/8/2013 1:36:00 AM	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	4/24/2013 12:52:00 PM	Glyphosate	n/a	<	1.8	µg/L	EPA 547	1.8	5	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/8/2013 1:36:00 AM	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/8/2013 1:36:00 AM	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	4/29/2013 7:29:00 PM	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	4/29/2013 7:29:00 PM	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/8/2013 1:36:00 AM	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	4/29/2013 7:29:00 PM	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/1/2013 7:09:00 PM	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/1/2013 7:09:00 PM	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	4/29/2013 7:29:00 PM	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/1/2013 7:09:00 PM	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	4/29/2013 7:29:00 PM	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	4/26/2013 2:47:00 PM	Pentachlorophenol	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.2	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	4/29/2013 7:29:00 PM	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	4/26/2013 2:47:00 PM	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/1/2013 7:09:00 PM	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	EST-LCSRPD
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/1/2013 7:09:00 PM	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	4/29/2013 7:29:00 PM	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/1/2013 7:09:00 PM	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	4/29/2013 7:29:00 PM	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/1/2013 7:09:00 PM	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/1/2013 7:09:00 PM	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	4/29/2013 7:29:00 PM	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/8/2013 1:36:00 AM	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	4/29/2013 7:29:00 PM	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
ME-SCR	2012/13-5	Dry	4/23/2013 11:25:00 AM	5/1/2013 7:09:00 PM	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
ME-VR2	2012/13-2	Wet	11/17/2012 9:50:00 AM	11/18/2012 7:15:00 AM	E. Coli	n/a	=	1178	MPN/100 mL	MMO-MUG	10	10	VCHCA	
ME-VR2	2012/13-2	Wet	11/17/2012 9:50:00 AM	11/18/2012 1:14:00 PM	Enterococcus	n/a	=	359	MPN/100 mL	Enterolert	10	10	VCHCA	
ME-VR2	2012/13-2	Wet	11/17/2012 9:50:00 AM	11/21/2012 1:05:00 PM	Fecal Coliform	n/a	=	1600	MPN/100 mL	SM 9221 E	2	2	VCHCA	
ME-VR2	2012/13-2	Wet	11/17/2012 9:50:00 AM	11/18/2012 7:15:00 AM	Total Coliform	n/a	=	8664	MPN/100 mL	MMO-MUG	10	10	VCHCA	
ME-VR2	2012/13-2	Wet	11/17/2012 9:50:00 AM	11/17/2012 9:50:00 AM	Conductivity	n/a	=	931	µmhos/cm	Field Meter	-88	1	Field Crew	
ME-VR2	2012/13-2	Wet	11/17/2012 9:50:00 AM	12/6/2012 9:27:00 PM	Cyanide	Total	DNQ	0.0028	mg/L	EPA 335.4	0.0027	0.005	WKL	
ME-VR2	2012/13-2	Wet	11/17/2012 9:50:00 AM	11/17/2012 9:50:00 AM	DO	n/a	=	95.5	%	Field Meter	-88	0.1	Field Crew	
ME-VR2	2012/13-2	Wet	11/17/2012 9:50:00 AM	11/17/2012 9:50:00 AM	DO	n/a	=	9.9	mg/L	Field Meter	-88	0.3	Field Crew	
ME-VR2	2012/13-2	Wet	11/17/2012 9:50:00 AM	11/17/2012 9:50:00 AM	pH	n/a	=	7.73	pH Units	Field Meter	-88	0.01	Field Crew	
ME-VR2	2012/13-2	Wet	11/17/2012 9:50:00 AM	11/17/2012 9:50:00 AM	Salinity	n/a	=	600	mg/L	Field Meter	-88	100	Field Crew	
ME-VR2	2012/13-2	Wet	11/17/2012 9:50:00 AM	11/17/2012 9:50:00 AM	Specific Conductance	n/a	=	1198	µmhos/cm	Field Meter	-88	1	Field Crew	
ME-VR2	2012/13-2	Wet	11/17/2012 9:50:00 AM	11/17/2012 9:50:00 AM	Temperature	n/a	=	13.3	°C	Field Meter	-88	0.1	Field Crew	
ME-VR2	2012/13-2	Wet	11/17/2012 9:50:00 AM	11/27/2012 4:55:00 PM	Oil and Grease	n/a	<	1.3	mg/L	EPA 1664A	1.3	5	WKL	
ME-VR2	2012/13-2	Wet	11/17/2012 9:50:00 AM	11/27/2012 4:55:00 PM	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
ME-VR2	2012/13-2	Wet	11/17/2012 9:50:00 AM	11/27/2012 5:08:00 PM	2-Chloroethyl vinyl ether	n/a	<	0.61	µg/L	EPA 524.2	0.61	1	WKL	
ME-VR2	2012/13-2	Wet	11/17/2012 9:50:00 AM	11/27/2012 5:08:00 PM	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/28/2012 12:29:00 PM	Chloride	n/a	=	92	mg/L	EPA 300.0	1	5	WKL	D
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/28/2012 12:29:00 PM	Fluoride	n/a	=	0.44	mg/L	EPA 300.0	0.04	0.2	WKL	D
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/21/2012 4:57:00 PM	Perchlorate	n/a	<	0.95	µg/L	EPA 314.0	0.95	2	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/27/2012 5:23:00 PM	Calcium	Total	=	128	mg/L	EPA 200.7	0.0156	0.1	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/27/2012 5:23:00 PM	Magnesium	Total	=	39.2	mg/L	EPA 200.7	0.0121	0.1	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/30/2012 4:45:00 PM	Alkalinity as CaCO3	n/a	=	290	mg/L	SM 2320 B	0.56	2	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/24/2012 12:30:00 PM	BOD	n/a	=	4.2	mg/L	SM 5210 B	0.1	2	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/27/2012 9:06:00 AM	COD	n/a	=	16	mg/L	EPA 410.4	0.73	5	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/27/2012 5:23:00 PM	Hardness as CaCO3	Total	=	481	mg/L	EPA 200.7	0.0885	0.662	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/19/2012 9:46:00 PM	MBAS	n/a	DNQ	0.024	mg/L	SM 5540 C	0.019	0.05	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/30/2012 2:39:00 PM	Phenolics	n/a	=	0.011	mg/L	EPA 420.4	0.0042	0.01	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/30/2012 11:00:00 AM	Specific Conductance	n/a	=	1300	µmhos/cm	SM 2510 B	0.23	2	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/21/2012 11:58:00 AM	Total Dissolved Solids	n/a	=	890	mg/L	SM 2540 C	4	10	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/26/2012 10:48:00 AM	Total Organic Carbon	n/a	=	4.8	mg/L	SM 5310 C	0.018	0.6	WKL	D
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/20/2012 7:20:00 PM	Total Suspended Solids	n/a	=	8	mg/L	SM 2540 D	5	5	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/19/2012 10:13:00 PM	Turbidity	n/a	=	5.6	NTU	EPA 180.1	0.024	0.1	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/20/2012 7:20:00 PM	Volatile Suspended Solids	n/a	<	3.1	mg/L	EPA 160.4	3.1	5	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	12/1/2012 1:23:00 AM	Aluminum	Dissolved	DNQ	1.7	µg/L	EPA 200.8	0.61	5	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	12/1/2012 1:31:00 AM	Aluminum	Total	=	100	µg/L	EPA 200.8	0.61	5	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	12/1/2012 1:23:00 AM	Antimony	Dissolved	DNQ	0.12	µg/L	EPA 200.8	0.04	0.5	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	12/1/2012 1:31:00 AM	Antimony	Total	DNQ	0.13	µg/L	EPA 200.8	0.04	0.5	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	12/1/2012 1:23:00 AM	Arsenic	Dissolved	=	1.2	µg/L	EPA 200.8	0.036	0.4	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	12/1/2012 1:31:00 AM	Arsenic	Total	=	1.4	µg/L	EPA 200.8	0.036	0.4	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	12/1/2012 1:23:00 AM	Beryllium	Dissolved	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	12/1/2012 1:31:00 AM	Beryllium	Total	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	12/1/2012 1:23:00 AM	Cadmium	Dissolved	DNQ	0.04	µg/L	EPA 200.8	0.02	0.1	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	12/1/2012 1:31:00 AM	Cadmium	Total	DNQ	0.07	µg/L	EPA 200.8	0.02	0.1	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	12/1/2012 1:23:00 AM	Chromium	Dissolved	<	0.074	µg/L	EPA 200.8	0.074	0.2	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	12/1/2012 1:31:00 AM	Chromium	Total	=	0.33	µg/L	EPA 200.8	0.074	0.2	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	12/3/2012 7:33:00 PM	Chromium VI	n/a	DNQ	0.079	µg/L	EPA 218.6	0.0059	0.3	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	12/1/2012 1:23:00 AM	Copper	Dissolved	=	1.8	µg/L	EPA 200.8	0.27	0.5	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	12/1/2012 1:31:00 AM	Copper	Total	=	3.6	µg/L	EPA 200.8	0.27	0.5	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/27/2012 5:20:00 PM	Iron	Dissolved	DNQ	9.6	µg/L	EPA 200.7	1.1	10	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/27/2012 5:23:00 PM	Iron	Total	=	420	µg/L	EPA 200.7	1.1	10	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	12/1/2012 1:23:00 AM	Lead	Dissolved	DNQ	0.09	µg/L	EPA 200.8	0.011	0.2	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	12/1/2012 1:31:00 AM	Lead	Total	=	0.22	µg/L	EPA 200.8	0.011	0.2	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	12/4/2012 12:25:00 PM	Mercury	Dissolved	<	3.9	ng/L	EPA 245.1	3.9	50	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	12/4/2012 12:25:00 PM	Mercury	Total	<	3.9	ng/L	EPA 245.1	3.9	50	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	12/1/2012 1:23:00 AM	Nickel	Dissolved	=	5.1	µg/L	EPA 200.8	0.13	0.8	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	12/1/2012 1:31:00 AM	Nickel	Total	=	7	µg/L	EPA 200.8	0.13	0.8	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	12/1/2012 1:23:00 AM	Selenium	Dissolved	=	0.93	µg/L	EPA 200.8	0.28	0.4	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	12/1/2012 1:31:00 AM	Selenium	Total	=	0.96	µg/L	EPA 200.8	0.28	0.4	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	12/1/2012 1:23:00 AM	Silver	Dissolved	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	12/1/2012 1:31:00 AM	Silver	Total	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	12/1/2012 1:23:00 AM	Thallium	Dissolved	DNQ	0.01	µg/L	EPA 200.8	0.009	0.2	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	12/1/2012 1:31:00 AM	Thallium	Total	<	0.009	µg/L	EPA 200.8	0.009	0.2	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	12/1/2012 1:23:00 AM	Zinc	Dissolved	DNQ	4.2	µg/L	EPA 200.8	1.1	5	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	12/1/2012 1:31:00 AM	Zinc	Total	=	9.5	µg/L	EPA 200.8	1.1	5	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	12/5/2012 5:36:00 PM	Ammonia as N	n/a	DNQ	0.098	mg/L	EPA 350.1	0.048	0.1	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/19/2012 7:15:00 PM	Nitrate + Nitrite as N	n/a	=	0.46	mg/L	EPA 353.2	0.01	0.1	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	12/14/2012 12:25:00 PM	Phosphorus as P	Dissolved	=	0.076	mg/L	EPA 365.1	0.0014	0.01	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	12/3/2012 8:33:00 PM	Phosphorus as P	Total	=	0.12	mg/L	EPA 365.1	0.0014	0.01	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/28/2012 3:47:00 PM	TKN	n/a	=	0.35	mg/L	EPA 351.2	0.074	0.1	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/27/2012 11:34:00 PM	1,2,4-Trichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/27/2012 11:34:00 PM	1,2-Dichlorobenzene	n/a	<	0.57	µg/L	EPA 625	0.57	1	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/27/2012 11:34:00 PM	1,2-Diphenylhydrazine	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/27/2012 11:34:00 PM	1,3-Dichlorobenzene	n/a	<	0.53	µg/L	EPA 625	0.53	1	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/27/2012 11:34:00 PM	1,4-Dichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/29/2012 12:41:00 AM	1-Methylnaphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/29/2012 5:40:00 PM	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/29/2012 5:40:00 PM	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	EUM
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/29/2012 5:40:00 PM	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/29/2012 5:40:00 PM	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/29/2012 5:40:00 PM	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/27/2012 11:34:00 PM	2,4-Dinitrotoluene	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/27/2012 11:34:00 PM	2,6-Dinitrotoluene	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/27/2012 11:34:00 PM	2-Chloronaphthalene	n/a	<	0.45	µg/L	EPA 625	0.45	1	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/29/2012 5:40:00 PM	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	EUM
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/29/2012 12:41:00 AM	2-Methylnaphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/29/2012 5:40:00 PM	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/29/2012 5:40:00 PM	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/27/2012 11:34:00 PM	3,3'-Dichlorobenzidine	n/a	<	1.2	µg/L	EPA 625	1.2	5	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/29/2012 5:40:00 PM	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/29/2012 5:40:00 PM	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/27/2012 11:34:00 PM	4-Bromophenyl phenyl ether	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/29/2012 5:40:00 PM	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/27/2012 11:34:00 PM	4-Chlorophenyl phenyl ether	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/29/2012 5:40:00 PM	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/29/2012 12:41:00 AM	Acenaphthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	EUM
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/29/2012 12:41:00 AM	Acenaphthylene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/29/2012 12:41:00 AM	Anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/29/2012 12:41:00 AM	Benz(a)anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/27/2012 11:34:00 PM	Benzidine	n/a	<	3.7	µg/L	EPA 625	3.7	10	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	12/4/2012 4:05:00 AM	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/29/2012 12:41:00 AM	Benzo(b)fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/29/2012 12:41:00 AM	Benzo(g,h,i)perylene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/29/2012 12:41:00 AM	Benzo(k)fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/27/2012 11:34:00 PM	Bis(2-chloroethoxy)methane	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/27/2012 11:34:00 PM	Bis(2-chloroethyl)ether	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/27/2012 11:34:00 PM	Bis(2-chloroisopropyl)ether	n/a	<	0.38	µg/L	EPA 625	0.38	1	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	12/4/2012 4:05:00 AM	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	12/4/2012 4:05:00 AM	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/27/2012 11:34:00 PM	Butyl benzyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/29/2012 12:41:00 AM	Chrysene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/29/2012 12:41:00 AM	Dibenz(a,h)anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/27/2012 11:34:00 PM	Diethyl phthalate	n/a	DNQ	0.31	µg/L	EPA 625	0.15	1	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/27/2012 11:34:00 PM	Dimethyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/27/2012 11:34:00 PM	Di-n-butylphthalate	n/a	<	0.24	µg/L	EPA 625	0.24	1	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/27/2012 11:34:00 PM	Di-n-octylphthalate	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/29/2012 12:41:00 AM	Fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/29/2012 12:41:00 AM	Fluorene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	EUM
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/27/2012 11:34:00 PM	Hexachlorobenzene	n/a	<	0.49	µg/L	EPA 625	0.49	1	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/27/2012 11:34:00 PM	Hexachlorobutadiene	n/a	<	0.47	µg/L	EPA 625	0.47	1	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/27/2012 11:34:00 PM	Hexachlorocyclopentadiene	n/a	<	1.5	µg/L	EPA 625	1.5	5	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/27/2012 11:34:00 PM	Hexachloroethane	n/a	<	0.52	µg/L	EPA 625	0.52	1	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/29/2012 12:41:00 AM	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/27/2012 11:34:00 PM	Isophorone	n/a	<	0.21	µg/L	EPA 625	0.21	1	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/29/2012 12:41:00 AM	Naphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/27/2012 11:34:00 PM	Nitrobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/27/2012 11:34:00 PM	N-Nitrosodimethylamine	n/a	<	0.14	µg/L	EPA 625	0.14	1	WKL	EUM
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/27/2012 11:34:00 PM	N-Nitrosodi-N-propylamine	n/a	<	0.26	µg/L	EPA 625	0.26	1	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/27/2012 11:34:00 PM	N-Nitrosodiphenylamine	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/29/2012 12:41:00 AM	Phenanthrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	EUM
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/29/2012 5:40:00 PM	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/29/2012 12:41:00 AM	Pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	EUM
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/27/2012 11:26:00 PM	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/27/2012 11:26:00 PM	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/27/2012 11:26:00 PM	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/27/2012 11:26:00 PM	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/27/2012 11:26:00 PM	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/27/2012 11:26:00 PM	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/27/2012 11:26:00 PM	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	12/1/2012 9:55:00 PM	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	12/1/2012 9:55:00 PM	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	12/1/2012 9:55:00 PM	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	12/1/2012 9:55:00 PM	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	12/1/2012 9:55:00 PM	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/27/2012 11:26:00 PM	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/27/2012 11:26:00 PM	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/27/2012 11:26:00 PM	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	12/1/2012 9:55:00 PM	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	12/4/2012 4:05:00 AM	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/27/2012 11:26:00 PM	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/27/2012 11:26:00 PM	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	IL
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/27/2012 11:26:00 PM	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	12/4/2012 4:05:00 AM	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	12/13/2012 2:49:00 PM	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	EUM
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	12/1/2012 9:55:00 PM	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/27/2012 11:26:00 PM	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	12/13/2012 2:49:00 PM	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	12/4/2012 4:05:00 AM	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	12/4/2012 4:05:00 AM	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	12/4/2012 4:05:00 AM	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/27/2012 11:26:00 PM	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	12/4/2012 4:05:00 AM	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	12/13/2012 2:49:00 PM	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	12/13/2012 2:49:00 PM	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	12/4/2012 4:05:00 AM	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	12/1/2012 9:55:00 PM	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	12/1/2012 9:55:00 PM	DCPA (Dacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/27/2012 11:26:00 PM	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	12/13/2012 2:49:00 PM	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	12/13/2012 2:49:00 PM	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	12/13/2012 2:49:00 PM	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	12/1/2012 9:55:00 PM	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	12/1/2012 9:55:00 PM	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	12/13/2012 2:49:00 PM	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/27/2012 11:26:00 PM	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	12/13/2012 2:49:00 PM	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	12/1/2012 9:55:00 PM	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	12/4/2012 4:05:00 AM	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	12/13/2012 2:49:00 PM	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/27/2012 11:26:00 PM	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/27/2012 11:26:00 PM	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/27/2012 11:26:00 PM	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/27/2012 11:26:00 PM	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/27/2012 11:26:00 PM	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	12/4/2012 4:05:00 AM	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	12/13/2012 2:49:00 PM	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	12/13/2012 2:49:00 PM	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	12/13/2012 2:49:00 PM	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	12/13/2012 2:49:00 PM	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/27/2012 11:26:00 PM	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/27/2012 11:26:00 PM	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/28/2012 6:40:00 PM	Glyphosate	n/a	=	27	µg/L	EPA 547	1.8	5	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/27/2012 11:26:00 PM	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	IL
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/27/2012 11:26:00 PM	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	12/13/2012 2:49:00 PM	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	12/13/2012 2:49:00 PM	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/27/2012 11:26:00 PM	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	12/13/2012 2:49:00 PM	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	12/4/2012 4:05:00 AM	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	12/4/2012 4:05:00 AM	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	12/13/2012 2:49:00 PM	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	12/4/2012 4:05:00 AM	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	12/13/2012 2:49:00 PM	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.1	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	12/1/2012 9:55:00 PM	Pentachlorophenol	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.2	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	12/13/2012 2:49:00 PM	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	12/1/2012 9:55:00 PM	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	12/4/2012 4:05:00 AM	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	12/4/2012 4:05:00 AM	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	12/13/2012 2:49:00 PM	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	12/4/2012 4:05:00 AM	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	12/13/2012 2:49:00 PM	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	12/4/2012 4:05:00 AM	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	12/4/2012 4:05:00 AM	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	12/13/2012 2:49:00 PM	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	11/27/2012 11:26:00 PM	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	12/13/2012 2:49:00 PM	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
ME-VR2	2012/13-2	Wet	11/18/2012 9:40:00 AM	12/4/2012 4:05:00 AM	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 2:20:00 AM	3/8/2013 11:02:00 PM	E. Coli	n/a	=	987	MPN/100 mL	MMO-MUG	10	10	VCHCA	
ME-VR2	2012/13-4	Wet	3/8/2013 2:20:00 AM	3/9/2013 5:00:00 AM	Enterococcus	n/a	=	155	MPN/100 mL	Enterolert	10	10	VCHCA	
ME-VR2	2012/13-4	Wet	3/8/2013 2:20:00 AM	3/12/2013 2:59:00 AM	Fecal Coliform	n/a	=	900	MPN/100 mL	SM 9221 E	2	2	VCHCA	
ME-VR2	2012/13-4	Wet	3/8/2013 2:20:00 AM	3/8/2013 11:02:00 PM	Total Coliform	n/a	=	10462	MPN/100 mL	MMO-MUG	10	10	VCHCA	
ME-VR2	2012/13-4	Wet	3/8/2013 2:20:00 AM	3/22/2013 1:33:00 PM	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 2:20:00 AM	3/11/2013 3:57:00 PM	2-Chloroethyl vinyl ether	n/a	<	0.61	µg/L	EPA 524.2	0.61	1	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 2:20:00 AM	3/11/2013 3:57:00 PM	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/19/2013 8:50:00 PM	Chloride	n/a	=	73	mg/L	EPA 300.0	0.2	1	WKL	D
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/19/2013 8:50:00 PM	Fluoride	n/a	=	0.43	mg/L	EPA 300.0	0.04	0.2	WKL	D
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/19/2013 5:42:00 PM	Perchlorate	n/a	<	0.95	µg/L	EPA 314.0	0.95	2	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/14/2013 11:21:00 AM	Calcium	Total	=	134	mg/L	EPA 200.7	0.0156	0.1	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/14/2013 11:21:00 AM	Magnesium	Total	=	38.2	mg/L	EPA 200.7	0.0121	0.1	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/22/2013 10:05:00 AM	Alkalinity as CaCO3	n/a	=	280	mg/L	SM 2320 B	0.56	10	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/14/2013 2:00:00 PM	BOD	n/a	DNQ	1.6	mg/L	SM 5210 B	0.1	2	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/20/2013 10:56:00 PM	COD	n/a	=	11	mg/L	EPA 410.4	0.73	5	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/8/2013 9:45:00 AM	Conductivity	n/a	=	891	µmhos/cm	Field Meter	-88	1	Field Crew	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/8/2013 9:45:00 AM	DO	n/a	=	69.9	%	Field Meter	-88	0.1	Field Crew	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/8/2013 9:45:00 AM	DO	n/a	=	7.2	mg/L	Field Meter	-88	0.3	Field Crew	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/14/2013 11:21:00 AM	Hardness as CaCO3	Total	=	493	mg/L	EPA 200.7	0.0885	0.662	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/9/2013 8:43:00 PM	MBAS	n/a	<	0.019	mg/L	SM 5540 C	0.019	0.05	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/8/2013 9:45:00 AM	pH	n/a	=	7.93	pH Units	Field Meter	-88	0.01	Field Crew	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/26/2013 11:58:00 AM	Phenolics	n/a	=	0.057	mg/L	EPA 420.4	0.0042	0.01	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/8/2013 9:45:00 AM	Salinity	n/a	=	600	mg/L	Field Meter	-88	100	Field Crew	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/18/2013 3:18:00 PM	Specific Conductance	n/a	=	1200	µmhos/cm	SM 2510 B	0.23	2	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/8/2013 9:45:00 AM	Specific Conductance	n/a	=	1152	µmhos/cm	Field Meter	-88	1	Field Crew	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/8/2013 9:45:00 AM	Temperature	n/a	=	13.2	°C	Field Meter	-88	0.1	Field Crew	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/12/2013 9:45:00 PM	Total Dissolved Solids	n/a	=	790	mg/L	SM 2540 C	4	10	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/14/2013 2:56:00 PM	Total Organic Carbon	n/a	=	2.9	mg/L	SM 5310 C	0.009	0.3	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/12/2013 8:00:00 PM	Total Suspended Solids	n/a	=	17	mg/L	SM 2540 D	5	5	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/9/2013 6:55:00 PM	Turbidity	n/a	=	15	NTU	EPA 180.1	0.024	0.1	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/12/2013 8:00:00 PM	Volatile Suspended Solids	n/a	DNQ	4	mg/L	EPA 160.4	3.1	5	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/19/2013 11:34:00 AM	Oil and Grease	n/a	DNQ	2.4	mg/L	EPA 1664A	1.3	5	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/28/2013 5:33:00 PM	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	4/1/2013 6:01:00 PM	Aluminum	Dissolved	DNQ	4.1	µg/L	EPA 200.8	0.61	5	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	4/1/2013 8:51:00 PM	Aluminum	Total	=	540	µg/L	EPA 200.8	2.1	5	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	4/1/2013 6:01:00 PM	Antimony	Dissolved	DNQ	0.14	µg/L	EPA 200.8	0.04	0.5	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	4/1/2013 8:51:00 PM	Antimony	Total	DNQ	0.14	µg/L	EPA 200.8	0.04	0.5	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	4/1/2013 6:01:00 PM	Arsenic	Dissolved	=	0.78	µg/L	EPA 200.8	0.036	0.4	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	4/1/2013 8:51:00 PM	Arsenic	Total	=	0.92	µg/L	EPA 200.8	0.13	0.4	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	4/2/2013 12:50:00 PM	Beryllium	Dissolved	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	4/2/2013 2:03:00 PM	Beryllium	Total	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	4/1/2013 6:01:00 PM	Cadmium	Dissolved	DNQ	0.05	µg/L	EPA 200.8	0.02	0.1	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	4/1/2013 8:51:00 PM	Cadmium	Total	DNQ	0.08	µg/L	EPA 200.8	0.02	0.1	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	4/1/2013 6:01:00 PM	Chromium	Dissolved	DNQ	0.09	µg/L	EPA 200.8	0.074	0.2	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	4/1/2013 8:51:00 PM	Chromium	Total	=	1.3	µg/L	EPA 200.8	0.074	0.2	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/13/2013 3:51:00 PM	Chromium VI	n/a	DNQ	0.1	µg/L	EPA 218.6	0.0059	0.3	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	4/1/2013 6:01:00 PM	Copper	Dissolved	=	2	µg/L	EPA 200.8	0.27	0.5	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	4/1/2013 8:51:00 PM	Copper	Total	=	3.5	µg/L	EPA 200.8	0.27	0.5	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/14/2013 12:22:00 PM	Iron	Dissolved	=	20	µg/L	EPA 200.7	1.1	10	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/14/2013 11:21:00 AM	Iron	Total	=	740	µg/L	EPA 200.7	1.1	10	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	4/2/2013 12:50:00 PM	Lead	Dissolved	DNQ	0.07	µg/L	EPA 200.8	0.011	0.2	WKL	UL-MB
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	4/2/2013 2:03:00 PM	Lead	Total	=	0.44	µg/L	EPA 200.8	0.035	0.2	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/27/2013 4:18:00 PM	Mercury	Dissolved	=	71	ng/L	EPA 245.1	3.9	50	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/27/2013 4:18:00 PM	Mercury	Total	=	92	ng/L	EPA 245.1	3.9	50	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	4/1/2013 6:01:00 PM	Nickel	Dissolved	=	3.1	µg/L	EPA 200.8	0.13	0.8	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	4/1/2013 8:51:00 PM	Nickel	Total	=	3.1	µg/L	EPA 200.8	0.13	0.8	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	4/1/2013 6:01:00 PM	Selenium	Dissolved	=	2.2	µg/L	EPA 200.8	0.28	0.4	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	4/1/2013 8:51:00 PM	Selenium	Total	=	2.2	µg/L	EPA 200.8	0.28	0.4	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	4/1/2013 6:01:00 PM	Silver	Dissolved	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	4/1/2013 8:51:00 PM	Silver	Total	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	4/1/2013 6:01:00 PM	Thallium	Dissolved	DNQ	0.01	µg/L	EPA 200.8	0.009	0.2	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	4/1/2013 8:51:00 PM	Thallium	Total	<	0.034	µg/L	EPA 200.8	0.034	0.2	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	4/1/2013 6:01:00 PM	Zinc	Dissolved	DNQ	2.8	µg/L	EPA 200.8	1.1	5	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	4/1/2013 8:51:00 PM	Zinc	Total	=	5.2	µg/L	EPA 200.8	1.1	5	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/20/2013 6:47:00 PM	Ammonia as N	n/a	DNQ	0.07	mg/L	EPA 350.1	0.048	0.1	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/11/2013 5:16:00 PM	Nitrate + Nitrite as N	n/a	=	0.25	mg/L	EPA 353.2	0.01	0.1	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	4/4/2013 7:34:00 PM	Phosphorus as P	Dissolved	=	0.06	mg/L	EPA 365.1	0.0014	0.01	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/15/2013 2:07:00 PM	Phosphorus as P	Total	=	0.12	mg/L	EPA 365.1	0.0014	0.01	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/21/2013 12:56:00 PM	TKN	n/a	=	0.27	mg/L	EPA 351.2	0.074	0.1	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/18/2013 11:41:00 PM	1,2,4-Trichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/18/2013 11:41:00 PM	1,2-Dichlorobenzene	n/a	<	0.57	µg/L	EPA 625	0.57	1	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/18/2013 11:41:00 PM	1,2-Diphenylhydrazine	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/18/2013 11:41:00 PM	1,3-Dichlorobenzene	n/a	<	0.53	µg/L	EPA 625	0.53	1	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/18/2013 11:41:00 PM	1,4-Dichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	4/9/2013 8:10:00 PM	1-Methylnaphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	4/11/2013 2:34:00 AM	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	4/11/2013 2:34:00 AM	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	4/11/2013 2:34:00 AM	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	4/11/2013 2:34:00 AM	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	4/11/2013 2:34:00 AM	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/18/2013 11:41:00 PM	2,4-Dinitrotoluene	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/18/2013 11:41:00 PM	2,6-Dinitrotoluene	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/18/2013 11:41:00 PM	2-Chloronaphthalene	n/a	<	0.45	µg/L	EPA 625	0.45	1	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	4/11/2013 2:34:00 AM	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	4/9/2013 8:10:00 PM	2-Methylnaphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	4/11/2013 2:34:00 AM	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	4/11/2013 2:34:00 AM	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/18/2013 11:41:00 PM	3,3'-Dichlorobenzidine	n/a	<	1.2	µg/L	EPA 625	1.2	5	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	4/11/2013 2:34:00 AM	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	4/11/2013 2:34:00 AM	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/18/2013 11:41:00 PM	4-Bromophenyl phenyl ether	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	4/11/2013 2:34:00 AM	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/18/2013 11:41:00 PM	4-Chlorophenyl phenyl ether	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	4/11/2013 2:34:00 AM	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	4/9/2013 8:10:00 PM	Acenaphthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	4/9/2013 8:10:00 PM	Acenaphthylene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	4/9/2013 8:10:00 PM	Anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	4/9/2013 8:10:00 PM	Benz(a)anthracene	n/a	=	0.47	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/18/2013 11:41:00 PM	Benzidine	n/a	<	3.7	µg/L	EPA 625	3.7	10	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/26/2013 6:01:00 PM	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	4/9/2013 8:10:00 PM	Benzo(b)fluoranthene	n/a	=	0.3	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	4/9/2013 8:10:00 PM	Benzo(g,h,i)perylene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	4/9/2013 8:10:00 PM	Benzo(k)fluoranthene	n/a	=	0.19	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/18/2013 11:41:00 PM	Bis(2-chloroethoxy)methane	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/18/2013 11:41:00 PM	Bis(2-chloroethyl)ether	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/18/2013 11:41:00 PM	Bis(2-chloroisopropyl)ether	n/a	<	0.38	µg/L	EPA 625	0.38	1	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/26/2013 6:01:00 PM	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/26/2013 6:01:00 PM	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/18/2013 11:41:00 PM	Butyl benzyl phthalate	n/a	DNQ	0.55	µg/L	EPA 625	0.18	1	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	4/9/2013 8:10:00 PM	Chrysene	n/a	=	0.58	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	4/9/2013 8:10:00 PM	Dibenz(a,h)anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/18/2013 11:41:00 PM	Diethyl phthalate	n/a	DNQ	0.41	µg/L	EPA 625	0.15	1	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/18/2013 11:41:00 PM	Dimethyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/18/2013 11:41:00 PM	Di-n-butylphthalate	n/a	DNQ	0.42	µg/L	EPA 625	0.24	1	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/18/2013 11:41:00 PM	Di-n-octylphthalate	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	4/9/2013 8:10:00 PM	Fluoranthene	n/a	=	0.39	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	4/9/2013 8:10:00 PM	Fluorene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/18/2013 11:41:00 PM	Hexachlorobenzene	n/a	<	0.49	µg/L	EPA 625	0.49	1	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/18/2013 11:41:00 PM	Hexachlorobutadiene	n/a	<	0.47	µg/L	EPA 625	0.47	1	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/18/2013 11:41:00 PM	Hexachlorocyclopentadiene	n/a	<	1.5	µg/L	EPA 625	1.5	5	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/18/2013 11:41:00 PM	Hexachloroethane	n/a	<	0.52	µg/L	EPA 625	0.52	1	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	4/9/2013 8:10:00 PM	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/18/2013 11:41:00 PM	Isophorone	n/a	<	0.21	µg/L	EPA 625	0.21	1	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	4/9/2013 8:10:00 PM	Naphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/18/2013 11:41:00 PM	Nitrobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/18/2013 11:41:00 PM	N-Nitrosodimethylamine	n/a	<	0.14	µg/L	EPA 625	0.14	1	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/18/2013 11:41:00 PM	N-Nitrosodi-N-propylamine	n/a	<	0.26	µg/L	EPA 625	0.26	1	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/18/2013 11:41:00 PM	N-Nitrosodiphenylamine	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	4/9/2013 8:10:00 PM	Phenanthrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	4/11/2013 2:34:00 AM	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	4/9/2013 8:10:00 PM	Pyrene	n/a	=	0.44	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/24/2013 5:41:00 AM	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/24/2013 5:41:00 AM	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/24/2013 5:41:00 AM	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/24/2013 5:41:00 AM	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/24/2013 5:41:00 AM	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/24/2013 5:41:00 AM	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/24/2013 5:41:00 AM	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/21/2013 7:46:00 PM	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/21/2013 7:46:00 PM	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/21/2013 7:46:00 PM	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/21/2013 7:46:00 PM	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/21/2013 7:46:00 PM	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/24/2013 5:41:00 AM	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/24/2013 5:41:00 AM	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/24/2013 5:41:00 AM	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/21/2013 7:46:00 PM	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/26/2013 6:01:00 PM	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/24/2013 5:41:00 AM	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/24/2013 5:41:00 AM	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/24/2013 5:41:00 AM	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/26/2013 6:01:00 PM	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	4/12/2013 3:35:00 AM	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	LB-LCSR
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/21/2013 7:46:00 PM	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/24/2013 5:41:00 AM	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	4/12/2013 3:35:00 AM	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/26/2013 6:01:00 PM	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/26/2013 6:01:00 PM	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/26/2013 6:01:00 PM	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/24/2013 5:41:00 AM	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/26/2013 6:01:00 PM	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	4/12/2013 3:35:00 AM	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	4/12/2013 3:35:00 AM	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/26/2013 6:01:00 PM	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/21/2013 7:46:00 PM	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/21/2013 7:46:00 PM	DCPA (Dacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/24/2013 5:41:00 AM	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	4/12/2013 3:35:00 AM	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	4/12/2013 3:35:00 AM	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	4/12/2013 3:35:00 AM	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/21/2013 7:46:00 PM	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/21/2013 7:46:00 PM	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	4/12/2013 3:35:00 AM	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/24/2013 5:41:00 AM	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	4/12/2013 3:35:00 AM	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/21/2013 7:46:00 PM	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/26/2013 6:01:00 PM	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	4/12/2013 3:35:00 AM	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/24/2013 5:41:00 AM	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/24/2013 5:41:00 AM	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/24/2013 5:41:00 AM	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/24/2013 5:41:00 AM	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/24/2013 5:41:00 AM	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/26/2013 6:01:00 PM	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	4/12/2013 3:35:00 AM	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	4/12/2013 3:35:00 AM	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	4/12/2013 3:35:00 AM	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	4/12/2013 3:35:00 AM	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/24/2013 5:41:00 AM	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/24/2013 5:41:00 AM	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/12/2013 4:53:00 PM	Glyphosate	n/a	=	8.4	µg/L	EPA 547	1.8	5	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/24/2013 5:41:00 AM	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/24/2013 5:41:00 AM	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	4/12/2013 3:35:00 AM	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	4/12/2013 3:35:00 AM	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/24/2013 5:41:00 AM	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	4/12/2013 3:35:00 AM	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/26/2013 6:01:00 PM	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/26/2013 6:01:00 PM	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	4/12/2013 3:35:00 AM	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/26/2013 6:01:00 PM	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	4/12/2013 3:35:00 AM	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/21/2013 7:46:00 PM	Pentachlorophenol	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.2	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	4/12/2013 3:35:00 AM	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/21/2013 7:46:00 PM	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/26/2013 6:01:00 PM	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/26/2013 6:01:00 PM	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	4/12/2013 3:35:00 AM	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/26/2013 6:01:00 PM	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	4/12/2013 3:35:00 AM	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/26/2013 6:01:00 PM	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/26/2013 6:01:00 PM	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	4/12/2013 3:35:00 AM	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/24/2013 5:41:00 AM	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	4/12/2013 3:35:00 AM	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
ME-VR2	2012/13-4	Wet	3/8/2013 9:45:00 AM	3/26/2013 6:01:00 PM	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/13/2013 9:13:00 PM	Chloride	n/a	=	69	mg/L	EPA 300.0	0.2	1	WKL	D
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/13/2013 9:13:00 PM	Fluoride	n/a	=	0.5	mg/L	EPA 300.0	0.04	0.2	WKL	D
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/10/2013 3:49:00 AM	Perchlorate	n/a	<	0.95	µg/L	EPA 314.0	0.95	2	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/1/2013 8:09:00 AM	E. Coli	n/a	=	86	MPN/100 mL	MMO-MUG	10	10	VCHCA	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/1/2013 2:20:00 PM	Enterococcus	n/a	=	10	MPN/100 mL	Enterolert	10	10	VCHCA	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/4/2013 1:00:00 PM	Fecal Coliform	n/a	=	110	MPN/100 mL	SM 9221 E	2	2	VCHCA	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/1/2013 8:09:00 AM	Total Coliform	n/a	=	8164	MPN/100 mL	MMO-MUG	10	10	VCHCA	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/14/2013 3:30:00 PM	Calcium	Total	=	129	mg/L	EPA 200.7	0.016	0.1	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/14/2013 3:30:00 PM	Magnesium	Total	=	35.6	mg/L	EPA 200.7	0.012	0.1	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/6/2013 9:42:00 PM	Alkalinity as CaCO3	n/a	=	300	mg/L	SM 2320 B	0.56	10	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/6/2013 5:46:00 PM	BOD	n/a	=	2.7	mg/L	SM 5210 B	0.1	2	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/8/2013 10:29:00 PM	COD	n/a	<	0.73	mg/L	EPA 410.4	0.73	5	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	4/30/2013 9:40:00 AM	Conductivity	n/a	=	1058	µmhos/cm	Field Meter	-88	1	Field Crew	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/13/2013 1:49:00 PM	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	4/30/2013 9:40:00 AM	DO	n/a	=	55.4	%	Field Meter	-88	0.1	Field Crew	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	4/30/2013 9:40:00 AM	DO	n/a	=	5.25	mg/L	Field Meter	-88	0.3	Field Crew	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/14/2013 3:30:00 PM	Hardness as CaCO3	Total	=	469	mg/L	EPA 200.7	0.0894	0.662	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/1/2013 6:30:00 PM	MBAS	n/a	DNQ	0.038	mg/L	SM 5540 C	0.023	0.06	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	4/30/2013 9:40:00 AM	pH	n/a	=	7.71	pH Units	Field Meter	-88	0.01	Field Crew	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/8/2013 7:00:00 PM	Phenolics	n/a	DNQ	0.006	mg/L	EPA 420.4	0.0042	0.01	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	4/30/2013 9:40:00 AM	Salinity	n/a	=	600	mg/L	Field Meter	-88	100	Field Crew	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	4/30/2013 9:40:00 AM	Specific Conductance	n/a	=	1213	µmhos/cm	Field Meter	-88	1	Field Crew	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/6/2013 6:04:00 PM	Specific Conductance	n/a	=	1200	µmhos/cm	SM 2510 B	0.23	2	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	4/30/2013 9:40:00 AM	Temperature	n/a	=	18.1	°C	Field Meter	-88	0.1	Field Crew	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/1/2013 7:50:00 PM	Total Dissolved Solids	n/a	=	830	mg/L	SM 2540 C	4	10	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/10/2013 1:46:00 PM	Total Organic Carbon	n/a	=	2	mg/L	SM 5310 C	0.009	0.3	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/1/2013 6:05:00 PM	Total Suspended Solids	n/a	=	6	mg/L	SM 2540 D	5	5	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/1/2013 6:12:00 PM	Turbidity	n/a	=	1.8	NTU	EPA 180.1	0.024	0.1	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/1/2013 6:05:00 PM	Volatile Suspended Solids	n/a	<	3.1	mg/L	EPA 160.4	3.1	5	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/3/2013 2:51:00 PM	Oil and Grease	n/a	DNQ	2.2	mg/L	EPA 1664A	1.3	5	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/3/2013 2:51:00 PM	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/14/2013 1:47:00 PM	Aluminum	Dissolved	DNQ	2.6	µg/L	EPA 200.8	2.1	5	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/14/2013 1:55:00 PM	Aluminum	Total	=	49	µg/L	EPA 200.8	2.1	5	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/14/2013 1:47:00 PM	Antimony	Dissolved	DNQ	0.09	µg/L	EPA 200.8	0.034	0.5	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/14/2013 1:55:00 PM	Antimony	Total	<	0.034	µg/L	EPA 200.8	0.034	0.5	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/14/2013 1:47:00 PM	Arsenic	Dissolved	=	0.54	µg/L	EPA 200.8	0.13	0.4	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/14/2013 1:55:00 PM	Arsenic	Total	=	0.61	µg/L	EPA 200.8	0.13	0.4	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/14/2013 1:55:00 PM	Barium	Total	=	52	µg/L	EPA 200.8	0.097	0.5	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/14/2013 1:47:00 PM	Beryllium	Dissolved	<	0.015	µg/L	EPA 200.8	0.015	0.1	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/14/2013 1:55:00 PM	Beryllium	Total	<	0.015	µg/L	EPA 200.8	0.015	0.1	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/14/2013 1:47:00 PM	Cadmium	Dissolved	DNQ	0.02	µg/L	EPA 200.8	0.017	0.1	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/14/2013 1:55:00 PM	Cadmium	Total	DNQ	0.04	µg/L	EPA 200.8	0.017	0.1	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/14/2013 1:47:00 PM	Chromium	Dissolved	DNQ	0.09	µg/L	EPA 200.8	0.024	0.2	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/14/2013 1:55:00 PM	Chromium	Total	DNQ	0.15	µg/L	EPA 200.8	0.024	0.2	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/3/2013 5:03:00 PM	Chromium VI	n/a	DNQ	0.061	µg/L	EPA 218.6	0.0059	0.3	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/14/2013 1:47:00 PM	Copper	Dissolved	=	0.55	µg/L	EPA 200.8	0.036	0.5	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/14/2013 1:55:00 PM	Copper	Total	=	0.61	µg/L	EPA 200.8	0.036	0.5	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/14/2013 3:27:00 PM	Iron	Dissolved	=	20	µg/L	EPA 200.7	1.1	10	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/14/2013 3:30:00 PM	Iron	Total	=	140	µg/L	EPA 200.7	1.1	10	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/14/2013 1:47:00 PM	Lead	Dissolved	<	0.024	µg/L	EPA 200.8	0.024	0.2	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/14/2013 1:55:00 PM	Lead	Total	DNQ	0.06	µg/L	EPA 200.8	0.024	0.2	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/8/2013 3:30:00 PM	Mercury	Dissolved	<	3.9	ng/L	EPA 245.1	3.9	50	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/8/2013 3:30:00 PM	Mercury	Total	<	3.9	ng/L	EPA 245.1	3.9	50	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/14/2013 1:47:00 PM	Nickel	Dissolved	=	0.89	µg/L	EPA 200.8	0.091	0.8	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/14/2013 1:55:00 PM	Nickel	Total	=	1.1	µg/L	EPA 200.8	0.091	0.8	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/15/2013 6:11:00 PM	Selenium	Dissolved	=	1	µg/L	EPA 200.8	0.081	0.4	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/15/2013 6:16:00 PM	Selenium	Total	=	1.1	µg/L	EPA 200.8	0.081	0.4	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/14/2013 1:47:00 PM	Silver	Dissolved	DNQ	0.03	µg/L	EPA 200.8	0.012	0.2	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/14/2013 1:55:00 PM	Silver	Total	<	0.012	µg/L	EPA 200.8	0.012	0.2	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/14/2013 1:47:00 PM	Thallium	Dissolved	<	0.034	µg/L	EPA 200.8	0.034	0.2	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/14/2013 1:55:00 PM	Thallium	Total	<	0.034	µg/L	EPA 200.8	0.034	0.2	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/14/2013 1:47:00 PM	Zinc	Dissolved	DNQ	2.6	µg/L	EPA 200.8	0.5	5	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/14/2013 1:55:00 PM	Zinc	Total	DNQ	1.9	µg/L	EPA 200.8	0.5	5	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/9/2013 4:14:00 PM	Ammonia as N	n/a	DNQ	0.081	mg/L	EPA 350.1	0.048	0.1	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/9/2013 2:53:00 PM	Nitrate + Nitrite as N	n/a	=	0.21	mg/L	EPA 353.2	0.01	0.1	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/24/2013 6:46:00 PM	Phosphorus as P	Dissolved	DNQ	0.0099	mg/L	EPA 365.1	0.0014	0.01	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/24/2013 6:20:00 PM	Phosphorus as P	Total	=	0.039	mg/L	EPA 365.1	0.0014	0.01	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/20/2013 12:33:00 PM	TKN	n/a	=	0.83	mg/L	EPA 351.2	0.05	0.1	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/15/2013 6:30:00 PM	1,2,4-Trichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/15/2013 6:30:00 PM	1,2-Dichlorobenzene	n/a	<	0.57	µg/L	EPA 625	0.57	1	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/15/2013 6:30:00 PM	1,2-Diphenylhydrazine	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/15/2013 6:30:00 PM	1,3-Dichlorobenzene	n/a	<	0.53	µg/L	EPA 625	0.53	1	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/15/2013 6:30:00 PM	1,4-Dichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/11/2013 10:46:00 AM	1-Methylnaphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/10/2013 9:07:00 PM	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/10/2013 9:07:00 PM	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/10/2013 9:07:00 PM	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/10/2013 9:07:00 PM	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/10/2013 9:07:00 PM	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/15/2013 6:30:00 PM	2,4-Dinitrotoluene	n/a	DNQ	0.45	µg/L	EPA 625	0.18	1	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/15/2013 6:30:00 PM	2,6-Dinitrotoluene	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/1/2013 3:44:00 PM	2-Chloroethyl vinyl ether	n/a	<	0.28	µg/L	EPA 624	0.28	1	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/15/2013 6:30:00 PM	2-Chloronaphthalene	n/a	<	0.45	µg/L	EPA 625	0.45	1	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/10/2013 9:07:00 PM	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/11/2013 10:46:00 AM	2-Methylnaphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/10/2013 9:07:00 PM	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/10/2013 9:07:00 PM	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/15/2013 6:30:00 PM	3,3'-Dichlorobenzidine	n/a	<	1.2	µg/L	EPA 625	1.2	5	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/10/2013 9:07:00 PM	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/10/2013 9:07:00 PM	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/15/2013 6:30:00 PM	4-Bromophenyl phenyl ether	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	LB-LCSR
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/10/2013 9:07:00 PM	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/15/2013 6:30:00 PM	4-Chlorophenyl phenyl ether	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/10/2013 9:07:00 PM	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/11/2013 10:46:00 AM	Acenaphthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/11/2013 10:46:00 AM	Acenaphthylene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/11/2013 10:46:00 AM	Anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/11/2013 10:46:00 AM	Benz(a)anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/15/2013 6:30:00 PM	Benzidine	n/a	<	3.7	µg/L	EPA 625	3.7	10	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/3/2013 4:42:00 PM	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/11/2013 10:46:00 AM	Benzo(b)fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/11/2013 10:46:00 AM	Benzo(g,h,i)perylene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/11/2013 10:46:00 AM	Benzo(k)fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/15/2013 6:30:00 PM	Bis(2-chloroethoxy)methane	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/15/2013 6:30:00 PM	Bis(2-chloroethyl)ether	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/15/2013 6:30:00 PM	Bis(2-chloroisopropyl)ether	n/a	<	0.38	µg/L	EPA 625	0.38	1	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/3/2013 4:42:00 PM	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/3/2013 4:42:00 PM	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/15/2013 6:30:00 PM	Butyl benzyl phthalate	n/a	DNQ	0.65	µg/L	EPA 625	0.18	1	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/11/2013 10:46:00 AM	Chrysene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/11/2013 10:46:00 AM	Dibenz(a,h)anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/15/2013 6:30:00 PM	Diethyl phthalate	n/a	DNQ	0.47	µg/L	EPA 625	0.15	1	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/15/2013 6:30:00 PM	Dimethyl phthalate	n/a	DNQ	0.41	µg/L	EPA 625	0.18	1	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/15/2013 6:30:00 PM	Di-n-butylphthalate	n/a	DNQ	0.5	µg/L	EPA 625	0.24	1	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/15/2013 6:30:00 PM	Di-n-octylphthalate	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/11/2013 10:46:00 AM	Fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/11/2013 10:46:00 AM	Fluorene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/15/2013 6:30:00 PM	Hexachlorobenzene	n/a	<	0.49	µg/L	EPA 625	0.49	1	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/15/2013 6:30:00 PM	Hexachlorobutadiene	n/a	<	0.47	µg/L	EPA 625	0.47	1	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/15/2013 6:30:00 PM	Hexachlorocyclopentadiene	n/a	<	1.5	µg/L	EPA 625	1.5	5	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/15/2013 6:30:00 PM	Hexachloroethane	n/a	<	0.52	µg/L	EPA 625	0.52	1	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/11/2013 10:46:00 AM	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/15/2013 6:30:00 PM	Isophorone	n/a	<	0.21	µg/L	EPA 625	0.21	1	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/1/2013 3:44:00 PM	Methyl tert-butyl ether (MTBE)	n/a	<	0.25	µg/L	EPA 624	0.25	1	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/11/2013 10:46:00 AM	Naphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/15/2013 6:30:00 PM	Nitrobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/15/2013 6:30:00 PM	N-Nitrosodimethylamine	n/a	<	0.14	µg/L	EPA 625	0.14	1	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/15/2013 6:30:00 PM	N-Nitrosodi-N-propylamine	n/a	<	0.26	µg/L	EPA 625	0.26	1	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/15/2013 6:30:00 PM	N-Nitrosodiphenylamine	n/a	DNQ	0.28	µg/L	EPA 625	0.19	1	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/11/2013 10:46:00 AM	Phenanthrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/10/2013 9:07:00 PM	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/11/2013 10:46:00 AM	Pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/11/2013 2:44:00 AM	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/11/2013 2:44:00 AM	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/11/2013 2:44:00 AM	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/11/2013 2:44:00 AM	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/11/2013 2:44:00 AM	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/11/2013 2:44:00 AM	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/11/2013 2:44:00 AM	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/8/2013 11:54:00 PM	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/8/2013 11:54:00 PM	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/8/2013 11:54:00 PM	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/8/2013 11:54:00 PM	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/8/2013 11:54:00 PM	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/11/2013 2:44:00 AM	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/11/2013 2:44:00 AM	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/11/2013 2:44:00 AM	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/8/2013 11:54:00 PM	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/3/2013 4:42:00 PM	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/11/2013 2:44:00 AM	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/11/2013 2:44:00 AM	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/11/2013 2:44:00 AM	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/3/2013 4:42:00 PM	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/14/2013 9:09:00 PM	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/8/2013 11:54:00 PM	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/11/2013 2:44:00 AM	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/14/2013 9:09:00 PM	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/3/2013 4:42:00 PM	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/3/2013 4:42:00 PM	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/3/2013 4:42:00 PM	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/11/2013 2:44:00 AM	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/3/2013 4:42:00 PM	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/14/2013 9:09:00 PM	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/14/2013 9:09:00 PM	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/3/2013 4:42:00 PM	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/8/2013 11:54:00 PM	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/8/2013 11:54:00 PM	DCPA (Dacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/11/2013 2:44:00 AM	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/14/2013 9:09:00 PM	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/14/2013 9:09:00 PM	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/14/2013 9:09:00 PM	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/8/2013 11:54:00 PM	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/8/2013 11:54:00 PM	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/14/2013 9:09:00 PM	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/11/2013 2:44:00 AM	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/14/2013 9:09:00 PM	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/8/2013 11:54:00 PM	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/3/2013 4:42:00 PM	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/14/2013 9:09:00 PM	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/11/2013 2:44:00 AM	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/11/2013 2:44:00 AM	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/11/2013 2:44:00 AM	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/11/2013 2:44:00 AM	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/11/2013 2:44:00 AM	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/3/2013 4:42:00 PM	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/14/2013 9:09:00 PM	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/14/2013 9:09:00 PM	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/14/2013 9:09:00 PM	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/14/2013 9:09:00 PM	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/11/2013 2:44:00 AM	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/11/2013 2:44:00 AM	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/1/2013 3:25:00 PM	Glyphosate	n/a	<	1.8	µg/L	EPA 547	1.8	5	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/11/2013 2:44:00 AM	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/11/2013 2:44:00 AM	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/14/2013 9:09:00 PM	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/14/2013 9:09:00 PM	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/11/2013 2:44:00 AM	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/14/2013 9:09:00 PM	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/3/2013 4:42:00 PM	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/3/2013 4:42:00 PM	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/14/2013 9:09:00 PM	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/3/2013 4:42:00 PM	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/14/2013 9:09:00 PM	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/8/2013 11:54:00 PM	Pentachlorophenol	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.2	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/14/2013 9:09:00 PM	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/8/2013 11:54:00 PM	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/3/2013 4:42:00 PM	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/3/2013 4:42:00 PM	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/14/2013 9:09:00 PM	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/3/2013 4:42:00 PM	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/14/2013 9:09:00 PM	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/3/2013 4:42:00 PM	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/3/2013 4:42:00 PM	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/14/2013 9:09:00 PM	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/11/2013 2:44:00 AM	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/14/2013 9:09:00 PM	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
ME-VR2	2012/13-5	Dry	4/30/2013 9:40:00 AM	5/3/2013 4:42:00 PM	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-CAM	2012/13-2	Wet	11/17/2012 9:25:00 AM	11/18/2012 7:56:00 AM	E. Coli	n/a	=	10462	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-CAM	2012/13-2	Wet	11/17/2012 9:25:00 AM	11/21/2012 1:10:00 PM	Fecal Coliform	n/a	=	17000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-CAM	2012/13-2	Wet	11/17/2012 9:25:00 AM	11/18/2012 7:56:00 AM	Total Coliform	n/a	=	410600	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	
MO-CAM	2012/13-2	Wet	11/17/2012 9:25:00 AM	11/17/2012 9:25:00 AM	Conductivity	n/a	=	136.2	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-CAM	2012/13-2	Wet	11/17/2012 9:25:00 AM	12/6/2012 9:28:00 PM	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-CAM	2012/13-2	Wet	11/17/2012 9:25:00 AM	11/17/2012 9:25:00 AM	DO	n/a	=	9.5	mg/L	Field Meter	-88	0.3	Field Crew	
MO-CAM	2012/13-2	Wet	11/17/2012 9:25:00 AM	11/17/2012 9:25:00 AM	DO	n/a	=	98.1	%	Field Meter	-88	0.1	Field Crew	
MO-CAM	2012/13-2	Wet	11/17/2012 9:25:00 AM	11/17/2012 9:25:00 AM	pH	n/a	=	7.29	pH Units	Field Meter	-88	0.01	Field Crew	
MO-CAM	2012/13-2	Wet	11/17/2012 9:25:00 AM	11/17/2012 9:25:00 AM	Salinity	n/a	=	100	mg/L	Field Meter	-88	100	Field Crew	
MO-CAM	2012/13-2	Wet	11/17/2012 9:25:00 AM	11/17/2012 9:25:00 AM	Specific Conductance	n/a	=	160.7	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-CAM	2012/13-2	Wet	11/17/2012 9:25:00 AM	11/17/2012 9:25:00 AM	Temperature	n/a	=	17	°C	Field Meter	-88	0.1	Field Crew	
MO-CAM	2012/13-2	Wet	11/17/2012 9:25:00 AM	11/27/2012 4:55:00 PM	Oil and Grease	n/a	DNQ	1.5	mg/L	EPA 1664A	1.3	5	WKL	
MO-CAM	2012/13-2	Wet	11/17/2012 9:25:00 AM	11/27/2012 4:55:00 PM	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-CAM	2012/13-2	Wet	11/17/2012 9:25:00 AM	11/27/2012 5:41:00 PM	2-Chloroethyl vinyl ether	n/a	<	0.61	µg/L	EPA 524.2	0.61	1	WKL	
MO-CAM	2012/13-2	Wet	11/17/2012 9:25:00 AM	11/27/2012 5:41:00 PM	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/28/2012 12:29:00 PM	Chloride	n/a	=	17	mg/L	EPA 300.0	1	5	WKL	D
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/28/2012 12:29:00 PM	Fluoride	n/a	=	0.21	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/21/2012 4:57:00 PM	Perchlorate	n/a	<	0.95	µg/L	EPA 314.0	0.95	2	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/27/2012 5:28:00 PM	Calcium	Total	=	25.6	mg/L	EPA 200.7	0.0156	0.1	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/27/2012 5:28:00 PM	Magnesium	Total	=	7.32	mg/L	EPA 200.7	0.0121	0.1	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/30/2012 4:45:00 PM	Alkalinity as CaCO3	n/a	=	57	mg/L	SM 2320 B	0.56	2	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/24/2012 12:30:00 PM	BOD	n/a	=	24	mg/L	SM 5210 B	0.1	2	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/27/2012 9:06:00 AM	COD	n/a	=	220	mg/L	EPA 410.4	0.73	5	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/27/2012 5:28:00 PM	Hardness as CaCO3	Total	=	94.1	mg/L	EPA 200.7	0.0885	0.662	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/19/2012 9:46:00 PM	MBAS	n/a	=	0.47	mg/L	SM 5540 C	0.076	0.2	WKL	D
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/30/2012 2:41:00 PM	Phenolics	n/a	=	0.027	mg/L	EPA 420.4	0.0042	0.01	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/30/2012 11:00:00 AM	Specific Conductance	n/a	=	250	µmhos/cm	SM 2510 B	0.23	2	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/21/2012 11:58:00 AM	Total Dissolved Solids	n/a	=	170	mg/L	SM 2540 C	4	10	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/26/2012 10:48:00 AM	Total Organic Carbon	n/a	=	30	mg/L	SM 5310 C	0.09	3	WKL	D
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/20/2012 7:20:00 PM	Total Suspended Solids	n/a	=	350	mg/L	SM 2540 D	5	5	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/19/2012 10:13:00 PM	Turbidity	n/a	=	67	NTU	EPA 180.1	0.024	0.1	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/20/2012 7:20:00 PM	Volatile Suspended Solids	n/a	=	75	mg/L	EPA 160.4	3.1	5	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	12/1/2012 1:39:00 AM	Aluminum	Dissolved	=	27	µg/L	EPA 200.8	0.61	5	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	12/1/2012 2:11:00 AM	Aluminum	Total	=	6600	µg/L	EPA 200.8	0.61	5	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	12/1/2012 1:39:00 AM	Antimony	Dissolved	=	1.2	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	12/1/2012 2:11:00 AM	Antimony	Total	=	2.2	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	12/1/2012 1:39:00 AM	Arsenic	Dissolved	=	1.7	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	12/1/2012 2:11:00 AM	Arsenic	Total	=	4.1	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	12/1/2012 1:39:00 AM	Beryllium	Dissolved	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	12/1/2012 2:11:00 AM	Beryllium	Total	=	0.32	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	12/1/2012 1:39:00 AM	Cadmium	Dissolved	DNQ	0.04	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	12/1/2012 2:11:00 AM	Cadmium	Total	=	0.99	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	12/1/2012 1:39:00 AM	Chromium	Dissolved	=	0.63	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	12/1/2012 2:11:00 AM	Chromium	Total	=	15	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	12/3/2012 7:33:00 PM	Chromium VI	n/a	DNQ	0.26	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	12/1/2012 1:39:00 AM	Copper	Dissolved	=	7.8	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	12/1/2012 2:11:00 AM	Copper	Total	=	96	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/27/2012 5:25:00 PM	Iron	Dissolved	=	150	µg/L	EPA 200.7	1.1	10	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/27/2012 5:28:00 PM	Iron	Total	=	9700	µg/L	EPA 200.7	1.1	10	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	12/1/2012 1:39:00 AM	Lead	Dissolved	=	0.2	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	12/1/2012 2:11:00 AM	Lead	Total	=	18	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	12/11/2012 3:45:00 PM	Mercury	Dissolved	DNQ	34	ng/L	EPA 245.1	3.9	50	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	12/11/2012 3:45:00 PM	Mercury	Total	=	71	ng/L	EPA 245.1	3.9	50	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	12/1/2012 1:39:00 AM	Nickel	Dissolved	=	6	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	12/1/2012 2:11:00 AM	Nickel	Total	=	22	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	12/1/2012 1:39:00 AM	Selenium	Dissolved	<	0.28	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	12/1/2012 2:11:00 AM	Selenium	Total	=	0.46	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	12/1/2012 1:39:00 AM	Silver	Dissolved	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	12/1/2012 2:11:00 AM	Silver	Total	=	0.21	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	12/1/2012 1:39:00 AM	Thallium	Dissolved	<	0.009	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	12/1/2012 2:11:00 AM	Thallium	Total	DNQ	0.15	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	12/1/2012 1:39:00 AM	Zinc	Dissolved	=	37	µg/L	EPA 200.8	1.1	5	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	12/1/2012 2:11:00 AM	Zinc	Total	=	420	µg/L	EPA 200.8	1.1	5	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	12/5/2012 5:38:00 PM	Ammonia as N	n/a	=	1.2	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/19/2012 6:49:00 PM	Nitrate + Nitrite as N	n/a	=	1.5	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	12/14/2012 12:49:00 PM	Phosphorus as P	Dissolved	=	0.32	mg/L	EPA 365.1	0.007	0.05	WKL	D
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	12/14/2012 11:27:00 AM	Phosphorus as P	Total	=	1.4	mg/L	EPA 365.1	0.035	0.25	WKL	DG
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/28/2012 4:17:00 PM	TKN	n/a	=	5.5	mg/L	EPA 351.2	0.15	0.2	WKL	D

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/28/2012 12:05:00 AM	1,2,4-Trichlorobenzene	n/a	<	1.1	µg/L	EPA 625	1.1	2	WKL	D, DF
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/28/2012 12:05:00 AM	1,2-Dichlorobenzene	n/a	<	1.1	µg/L	EPA 625	1.1	2	WKL	D, DF
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/28/2012 12:05:00 AM	1,2-Diphenylhydrazine	n/a	<	0.5	µg/L	EPA 625	0.5	2	WKL	D, DF
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/28/2012 12:05:00 AM	1,3-Dichlorobenzene	n/a	<	1.1	µg/L	EPA 625	1.1	2	WKL	D, DF
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/28/2012 12:05:00 AM	1,4-Dichlorobenzene	n/a	<	1.1	µg/L	EPA 625	1.1	2	WKL	D, DF
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/29/2012 1:15:00 AM	1-Methylnaphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/29/2012 6:08:00 PM	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/29/2012 6:08:00 PM	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	EUM
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/29/2012 6:08:00 PM	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/29/2012 6:08:00 PM	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/29/2012 6:08:00 PM	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/28/2012 12:05:00 AM	2,4-Dinitrotoluene	n/a	<	0.36	µg/L	EPA 625	0.36	2	WKL	D, DF
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/28/2012 12:05:00 AM	2,6-Dinitrotoluene	n/a	<	0.54	µg/L	EPA 625	0.54	2	WKL	D, DF
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/28/2012 12:05:00 AM	2-Chloronaphthalene	n/a	<	0.9	µg/L	EPA 625	0.9	2	WKL	D, DF
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/29/2012 6:08:00 PM	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	EUM
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/29/2012 1:15:00 AM	2-Methylnaphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/29/2012 6:08:00 PM	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/29/2012 6:08:00 PM	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/28/2012 12:05:00 AM	3,3'-Dichlorobenzidine	n/a	<	2.4	µg/L	EPA 625	2.4	10	WKL	D, DF
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/29/2012 6:08:00 PM	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/29/2012 6:08:00 PM	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/28/2012 12:05:00 AM	4-Bromophenyl phenyl ether	n/a	<	0.72	µg/L	EPA 625	0.72	2	WKL	D, DF
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/29/2012 6:08:00 PM	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/28/2012 12:05:00 AM	4-Chlorophenyl phenyl ether	n/a	<	0.82	µg/L	EPA 625	0.82	2	WKL	D, DF
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/29/2012 6:08:00 PM	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/29/2012 1:15:00 AM	Acenaphthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	EUM
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/29/2012 1:15:00 AM	Acenaphthylene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/29/2012 1:15:00 AM	Anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/29/2012 1:15:00 AM	Benz(a)anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/28/2012 12:05:00 AM	Benzidine	n/a	<	7.3	µg/L	EPA 625	7.3	20	WKL	D, DF
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	12/4/2012 4:33:00 AM	Benzo(a)pyrene	n/a	=	0.24	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/29/2012 1:15:00 AM	Benzo(b)fluoranthene	n/a	=	0.21	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/29/2012 1:15:00 AM	Benzo(g,h,i)perylene	n/a	=	0.18	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/29/2012 1:15:00 AM	Benzo(k)fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/28/2012 12:05:00 AM	Bis(2-chloroethoxy)methane	n/a	<	0.5	µg/L	EPA 625	0.5	2	WKL	D, DF
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/28/2012 12:05:00 AM	Bis(2-chloroethyl)ether	n/a	<	0.54	µg/L	EPA 625	0.54	2	WKL	D, DF
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/28/2012 12:05:00 AM	Bis(2-chloroisopropyl)ether	n/a	<	0.76	µg/L	EPA 625	0.76	2	WKL	D, DF
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	12/4/2012 4:33:00 AM	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	12/4/2012 4:33:00 AM	Bis(2-ethylhexyl)phthalate	n/a	=	3.1	µg/L	EPA 525.2	1.1	3	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/28/2012 12:05:00 AM	Butyl benzyl phthalate	n/a	DNQ	0.52	µg/L	EPA 625	0.36	2	WKL	D, DF
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/29/2012 1:15:00 AM	Chrysene	n/a	=	0.18	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/29/2012 1:15:00 AM	Dibenz(a,h)anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/28/2012 12:05:00 AM	Diethyl phthalate	n/a	=	2.4	µg/L	EPA 625	0.3	2	WKL	D, DF
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/28/2012 12:05:00 AM	Dimethyl phthalate	n/a	<	0.36	µg/L	EPA 625	0.36	2	WKL	D, DF
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/28/2012 12:05:00 AM	Di-n-butylphthalate	n/a	<	0.48	µg/L	EPA 625	0.48	2	WKL	D, DF
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/28/2012 12:05:00 AM	Di-n-octylphthalate	n/a	<	0.38	µg/L	EPA 625	0.38	2	WKL	D, DF
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/29/2012 1:15:00 AM	Fluoranthene	n/a	=	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/29/2012 1:15:00 AM	Fluorene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	EUM

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/28/2012 12:05:00 AM	Hexachlorobenzene	n/a	<	0.98	µg/L	EPA 625	0.98	2	WKL	D, DF
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/28/2012 12:05:00 AM	Hexachlorobutadiene	n/a	<	0.94	µg/L	EPA 625	0.94	2	WKL	D, DF
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/28/2012 12:05:00 AM	Hexachlorocyclopentadiene	n/a	<	2.9	µg/L	EPA 625	2.9	10	WKL	D, DF
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/28/2012 12:05:00 AM	Hexachloroethane	n/a	<	1	µg/L	EPA 625	1	2	WKL	D, DF
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/29/2012 1:15:00 AM	Indeno(1,2,3-cd)pyrene	n/a	=	0.12	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/28/2012 12:05:00 AM	Isophorone	n/a	<	0.42	µg/L	EPA 625	0.42	2	WKL	D, DF
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/29/2012 1:15:00 AM	Naphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/28/2012 12:05:00 AM	Nitrobenzene	n/a	<	0.72	µg/L	EPA 625	0.72	2	WKL	D, DF
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/28/2012 12:05:00 AM	N-Nitrosodimethylamine	n/a	<	0.28	µg/L	EPA 625	0.28	2	WKL	D, DF, EUM
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/28/2012 12:05:00 AM	N-Nitrosodi-N-propylamine	n/a	<	0.52	µg/L	EPA 625	0.52	2	WKL	D, DF
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/28/2012 12:05:00 AM	N-Nitrosodiphenylamine	n/a	<	0.38	µg/L	EPA 625	0.38	2	WKL	D, DF
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/29/2012 1:15:00 AM	Phenanthrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	EUM
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/29/2012 6:08:00 PM	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/29/2012 1:15:00 AM	Pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	EUM
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/27/2012 11:55:00 PM	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/27/2012 11:55:00 PM	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/27/2012 11:55:00 PM	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/27/2012 11:55:00 PM	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/27/2012 11:55:00 PM	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/27/2012 11:55:00 PM	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/27/2012 11:55:00 PM	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	12/1/2012 10:25:00 PM	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	12/1/2012 10:25:00 PM	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	12/1/2012 10:25:00 PM	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	12/1/2012 10:25:00 PM	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	12/1/2012 10:25:00 PM	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/27/2012 11:55:00 PM	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/27/2012 11:55:00 PM	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/27/2012 11:55:00 PM	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	12/1/2012 10:25:00 PM	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	12/4/2012 4:33:00 AM	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/27/2012 11:55:00 PM	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/27/2012 11:55:00 PM	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/27/2012 11:55:00 PM	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	12/4/2012 4:33:00 AM	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	12/13/2012 2:49:00 PM	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	EUM
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	12/1/2012 10:25:00 PM	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/27/2012 11:55:00 PM	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	12/13/2012 2:49:00 PM	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	12/4/2012 4:33:00 AM	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	12/4/2012 4:33:00 AM	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	12/4/2012 4:33:00 AM	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/27/2012 11:55:00 PM	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	12/4/2012 4:33:00 AM	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	12/13/2012 2:49:00 PM	Chlorpyrifos	n/a	=	0.023	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	12/13/2012 2:49:00 PM	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	12/4/2012 4:33:00 AM	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	12/1/2012 10:25:00 PM	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	12/1/2012 10:25:00 PM	DCPA (Dacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/27/2012 11:55:00 PM	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	12/13/2012 2:49:00 PM	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	12/13/2012 2:49:00 PM	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	12/13/2012 2:49:00 PM	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	12/1/2012 10:25:00 PM	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	12/1/2012 10:25:00 PM	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	12/13/2012 2:49:00 PM	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/27/2012 11:55:00 PM	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	12/13/2012 2:49:00 PM	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	12/1/2012 10:25:00 PM	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	12/4/2012 4:33:00 AM	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	12/13/2012 2:49:00 PM	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/27/2012 11:55:00 PM	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/27/2012 11:55:00 PM	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/27/2012 11:55:00 PM	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/27/2012 11:55:00 PM	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/27/2012 11:55:00 PM	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	12/4/2012 4:33:00 AM	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	12/13/2012 2:49:00 PM	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	12/13/2012 2:49:00 PM	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	12/13/2012 2:49:00 PM	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	12/13/2012 2:49:00 PM	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/27/2012 11:55:00 PM	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/27/2012 11:55:00 PM	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/28/2012 6:40:00 PM	Glyphosate	n/a	DNQ	2.3	µg/L	EPA 547	1.8	5	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/27/2012 11:55:00 PM	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/27/2012 11:55:00 PM	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	12/13/2012 2:49:00 PM	Malathion	n/a	=	0.048	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	12/13/2012 2:49:00 PM	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/27/2012 11:55:00 PM	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	12/13/2012 2:49:00 PM	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	12/4/2012 4:33:00 AM	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	12/4/2012 4:33:00 AM	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	12/13/2012 2:49:00 PM	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	12/4/2012 4:33:00 AM	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	12/13/2012 2:49:00 PM	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.1	WKL	IL
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	12/1/2012 10:25:00 PM	Pentachlorophenol	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.2	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	12/13/2012 2:49:00 PM	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	12/1/2012 10:25:00 PM	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	12/4/2012 4:33:00 AM	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	12/4/2012 4:33:00 AM	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	12/13/2012 2:49:00 PM	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	12/4/2012 4:33:00 AM	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	12/13/2012 2:49:00 PM	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	12/4/2012 4:33:00 AM	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	12/4/2012 4:33:00 AM	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	12/13/2012 2:49:00 PM	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	11/27/2012 11:55:00 PM	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	12/13/2012 2:49:00 PM	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-CAM	2012/13-2	Wet	11/18/2012 10:00:00 AM	12/4/2012 4:33:00 AM	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-CAM	2012/13-3	Wet	2/19/2013 7:40:00 PM	2/20/2013 6:30:00 PM	E. Coli	n/a	=	743	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-CAM	2012/13-3	Wet	2/19/2013 7:40:00 PM	2/23/2013 10:00:00 PM	Fecal Coliform	n/a	=	700	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-CAM	2012/13-3	Wet	2/19/2013 7:40:00 PM	2/20/2013 6:30:00 PM	Total Coliform	n/a	=	155300	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	
MO-CAM	2012/13-3	Wet	2/19/2013 7:40:00 PM	2/19/2013 7:40:00 PM	Conductivity	n/a	=	162.5	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-CAM	2012/13-3	Wet	2/19/2013 7:40:00 PM	3/2/2013 4:14:00 PM	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-CAM	2012/13-3	Wet	2/19/2013 7:40:00 PM	2/19/2013 7:40:00 PM	DO	n/a	=	88.2	%	Field Meter	-88	0.1	Field Crew	
MO-CAM	2012/13-3	Wet	2/19/2013 7:40:00 PM	2/19/2013 7:40:00 PM	DO	n/a	=	9.32	mg/L	Field Meter	-88	0.3	Field Crew	
MO-CAM	2012/13-3	Wet	2/19/2013 7:40:00 PM	2/19/2013 7:40:00 PM	pH	n/a	=	7.4	pH Units	Field Meter	-88	0.01	Field Crew	
MO-CAM	2012/13-3	Wet	2/19/2013 7:40:00 PM	2/19/2013 7:40:00 PM	Salinity	n/a	=	100	mg/L	Field Meter	-88	100	Field Crew	
MO-CAM	2012/13-3	Wet	2/19/2013 7:40:00 PM	2/19/2013 7:40:00 PM	Specific Conductance	n/a	=	213.1	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-CAM	2012/13-3	Wet	2/19/2013 7:40:00 PM	2/19/2013 7:40:00 PM	Temperature	n/a	=	12	°C	Field Meter	-88	0.1	Field Crew	
MO-CAM	2012/13-3	Wet	2/19/2013 7:40:00 PM	3/4/2013 6:09:00 PM	Oil and Grease	n/a	<	1.3	mg/L	EPA 1664A	1.3	5	WKL	
MO-CAM	2012/13-3	Wet	2/19/2013 7:40:00 PM	3/4/2013 6:09:00 PM	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-CAM	2012/13-3	Wet	2/19/2013 7:40:00 PM	2/28/2013 2:09:00 AM	2-Chloroethyl vinyl ether	n/a	<	0.61	µg/L	EPA 524.2	0.61	1	WKL	
MO-CAM	2012/13-3	Wet	2/19/2013 7:40:00 PM	2/28/2013 2:09:00 AM	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	2/28/2013 12:03:00 PM	Chloride	n/a	=	26	mg/L	EPA 300.0	0.1	0.5	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	2/28/2013 12:03:00 PM	Fluoride	n/a	=	0.17	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/1/2013 4:10:00 PM	Perchlorate	n/a	<	1.9	µg/L	EPA 314.0	1.9	4	WKL	D
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	2/25/2013 1:51:00 PM	Calcium	Total	=	30.2	mg/L	EPA 200.7	0.0156	0.1	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	2/25/2013 1:51:00 PM	Magnesium	Total	=	7.03	mg/L	EPA 200.7	0.0121	0.1	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	2/25/2013 10:23:00 PM	Alkalinity as CaCO3	n/a	=	50	mg/L	SM 2320 B	0.56	2	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	2/27/2013 11:44:00 AM	BOD	n/a	=	19	mg/L	SM 5210 B	0.1	2	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/2/2013 4:05:00 PM	COD	n/a	=	360	mg/L	EPA 410.4	0.73	5	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	2/25/2013 1:51:00 PM	Hardness as CaCO3	Total	=	104	mg/L	EPA 200.7	0.0885	0.662	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	2/21/2013 9:38:00 PM	MBAS	n/a	=	1	mg/L	SM 5540 C	0.076	0.2	WKL	D
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	2/25/2013 6:22:00 PM	Phenolics	n/a	=	0.11	mg/L	EPA 420.4	0.0042	0.01	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/4/2013 7:13:00 PM	Specific Conductance	n/a	=	300	µmhos/cm	SM 2510 B	0.23	2	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	2/26/2013 4:20:00 PM	Total Dissolved Solids	n/a	=	200	mg/L	SM 2540 C	4	10	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/4/2013 10:20:00 AM	Total Organic Carbon	n/a	=	58	mg/L	SM 5310 C	0.36	12	WKL	D
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	2/26/2013 8:27:00 PM	Total Suspended Solids	n/a	=	440	mg/L	SM 2540 D	5	5	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	2/21/2013 7:26:00 PM	Turbidity	n/a	=	51	NTU	EPA 180.1	0.024	0.1	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	2/26/2013 8:27:00 PM	Volatile Suspended Solids	n/a	=	230	mg/L	EPA 160.4	3.1	5	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/5/2013 2:20:00 PM	Aluminum	Dissolved	=	61	µg/L	EPA 200.8	0.61	5	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/5/2013 2:28:00 PM	Aluminum	Total	=	4800	µg/L	EPA 200.8	2.1	5	WKL	GB
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/5/2013 2:20:00 PM	Antimony	Dissolved	=	1.6	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/5/2013 2:28:00 PM	Antimony	Total	=	3.3	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/5/2013 2:20:00 PM	Arsenic	Dissolved	=	1.5	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/5/2013 2:28:00 PM	Arsenic	Total	=	3.6	µg/L	EPA 200.8	0.13	0.4	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/5/2013 2:20:00 PM	Beryllium	Dissolved	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/5/2013 2:28:00 PM	Beryllium	Total	=	0.19	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/5/2013 2:20:00 PM	Cadmium	Dissolved	DNQ	0.06	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/5/2013 2:28:00 PM	Cadmium	Total	=	0.93	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/5/2013 2:20:00 PM	Chromium	Dissolved	=	1.2	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/5/2013 2:28:00 PM	Chromium	Total	=	12	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/4/2013 9:56:00 AM	Chromium VI	n/a	<	0.0059	µg/L	EPA 218.6	0.0059	0.3	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/5/2013 2:20:00 PM	Copper	Dissolved	=	26	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/5/2013 2:28:00 PM	Copper	Total	=	150	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	2/25/2013 1:48:00 PM	Iron	Dissolved	=	130	µg/L	EPA 200.7	1.1	10	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	2/25/2013 1:51:00 PM	Iron	Total	=	7000	µg/L	EPA 200.7	1.1	10	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/5/2013 2:20:00 PM	Lead	Dissolved	=	0.56	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/5/2013 2:28:00 PM	Lead	Total	=	22	µg/L	EPA 200.8	0.035	0.2	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	2/25/2013 6:59:00 PM	Mercury	Dissolved	DNQ	42	ng/L	EPA 245.1	3.9	50	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	2/25/2013 6:59:00 PM	Mercury	Total	=	68	ng/L	EPA 245.1	3.9	50	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/5/2013 2:20:00 PM	Nickel	Dissolved	=	8.9	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/5/2013 2:28:00 PM	Nickel	Total	=	21	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/5/2013 2:20:00 PM	Selenium	Dissolved	DNQ	0.33	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/5/2013 2:28:00 PM	Selenium	Total	=	0.58	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/5/2013 2:20:00 PM	Silver	Dissolved	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/5/2013 2:28:00 PM	Silver	Total	DNQ	0.15	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/5/2013 2:20:00 PM	Thallium	Dissolved	<	0.009	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/5/2013 2:28:00 PM	Thallium	Total	DNQ	0.1	µg/L	EPA 200.8	0.034	0.2	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/5/2013 2:20:00 PM	Zinc	Dissolved	=	130	µg/L	EPA 200.8	1.1	5	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/5/2013 2:28:00 PM	Zinc	Total	=	560	µg/L	EPA 200.8	1.1	5	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/12/2013 6:42:00 PM	Ammonia as N	n/a	=	1.8	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	2/21/2013 7:52:00 PM	Nitrate + Nitrite as N	n/a	=	1.7	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/14/2013 4:34:00 PM	Phosphorus as P	Dissolved	=	0.49	mg/L	EPA 365.1	0.014	0.1	WKL	D
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/5/2013 3:24:00 PM	Phosphorus as P	Total	=	1.5	mg/L	EPA 365.1	0.014	0.1	WKL	D
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/12/2013 10:31:00 PM	TKN	n/a	=	7.9	mg/L	EPA 351.2	0.37	0.5	WKL	D
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/6/2013 8:47:00 PM	1,2,4-Trichlorobenzene	n/a	<	5.5	µg/L	EPA 625	5.5	10	WKL	D
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/6/2013 8:47:00 PM	1,2-Dichlorobenzene	n/a	<	5.7	µg/L	EPA 625	5.7	10	WKL	D
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/6/2013 8:47:00 PM	1,2-Diphenylhydrazine	n/a	<	2.5	µg/L	EPA 625	2.5	10	WKL	D
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/6/2013 8:47:00 PM	1,3-Dichlorobenzene	n/a	<	5.3	µg/L	EPA 625	5.3	10	WKL	D
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/6/2013 8:47:00 PM	1,4-Dichlorobenzene	n/a	<	5.5	µg/L	EPA 625	5.5	10	WKL	D
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/21/2013 7:01:00 AM	1-Methylnaphthalene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/20/2013 10:31:00 PM	2,4,5-Trichlorophenol	n/a	<	2.9	µg/L	EPA 8270Cm	2.9	10	WKL	D
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/20/2013 10:31:00 PM	2,4,6-Trichlorophenol	n/a	<	3	µg/L	EPA 8270Cm	3	10	WKL	D
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/20/2013 10:31:00 PM	2,4-Dichlorophenol	n/a	<	5.1	µg/L	EPA 8270Cm	5.1	10	WKL	D
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/20/2013 10:31:00 PM	2,4-Dimethylphenol	n/a	<	10	µg/L	EPA 8270Cm	10	20	WKL	D
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/20/2013 10:31:00 PM	2,4-Dinitrophenol	n/a	<	10	µg/L	EPA 8270Cm	10	20	WKL	D
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/6/2013 8:47:00 PM	2,4-Dinitrotoluene	n/a	<	1.8	µg/L	EPA 625	1.8	10	WKL	D
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/6/2013 8:47:00 PM	2,6-Dinitrotoluene	n/a	<	2.7	µg/L	EPA 625	2.7	10	WKL	D
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/6/2013 8:47:00 PM	2-Chloronaphthalene	n/a	<	4.5	µg/L	EPA 625	4.5	10	WKL	D
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/20/2013 10:31:00 PM	2-Chlorophenol	n/a	<	6.5	µg/L	EPA 8270Cm	6.5	10	WKL	D
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/21/2013 7:01:00 AM	2-Methylnaphthalene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/20/2013 10:31:00 PM	2-Methylphenol	n/a	<	3.4	µg/L	EPA 8270Cm	3.4	10	WKL	D
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/20/2013 10:31:00 PM	2-Nitrophenol	n/a	<	7.1	µg/L	EPA 8270Cm	7.1	10	WKL	D
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/6/2013 8:47:00 PM	3,3'-Dichlorobenzidine	n/a	<	12	µg/L	EPA 625	12	50	WKL	D
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/20/2013 10:31:00 PM	3-/4-Methylphenol	n/a	<	3	µg/L	EPA 8270Cm	3	10	WKL	D
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/20/2013 10:31:00 PM	4,6-Dinitro-2-methylphenol	n/a	<	1.4	µg/L	EPA 8270Cm	1.4	10	WKL	D
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/6/2013 8:47:00 PM	4-Bromophenyl phenyl ether	n/a	<	3.6	µg/L	EPA 625	3.6	10	WKL	D
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/20/2013 10:31:00 PM	4-Chloro-3-methylphenol	n/a	<	3.7	µg/L	EPA 8270Cm	3.7	10	WKL	D
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/6/2013 8:47:00 PM	4-Chlorophenyl phenyl ether	n/a	<	4.1	µg/L	EPA 625	4.1	10	WKL	D
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/20/2013 10:31:00 PM	4-Nitrophenol	n/a	<	10	µg/L	EPA 8270Cm	10	20	WKL	D

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/21/2013 7:01:00 AM	Acenaphthene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/21/2013 7:01:00 AM	Acenaphthylene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/21/2013 7:01:00 AM	Anthracene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/21/2013 7:01:00 AM	Benz(a)anthracene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/6/2013 8:47:00 PM	Benzidine	n/a	<	37	µg/L	EPA 625	37	100	WKL	D
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/15/2013 1:51:00 AM	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/21/2013 7:01:00 AM	Benzo(b)fluoranthene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/21/2013 7:01:00 AM	Benzo(g,h,i)perylene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/21/2013 7:01:00 AM	Benzo(k)fluoranthene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/6/2013 8:47:00 PM	Bis(2-chloroethoxy)methane	n/a	<	2.5	µg/L	EPA 625	2.5	10	WKL	D
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/6/2013 8:47:00 PM	Bis(2-chloroethyl)ether	n/a	<	2.7	µg/L	EPA 625	2.7	10	WKL	D
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/6/2013 8:47:00 PM	Bis(2-chloroisopropyl)ether	n/a	<	3.8	µg/L	EPA 625	3.8	10	WKL	D
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/15/2013 1:51:00 AM	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/15/2013 1:51:00 AM	Bis(2-ethylhexyl)phthalate	n/a	DNQ	1.6	µg/L	EPA 525.2	1.1	3	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/6/2013 8:47:00 PM	Butyl benzyl phthalate	n/a	<	1.8	µg/L	EPA 625	1.8	10	WKL	D
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/21/2013 7:01:00 AM	Chrysene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/21/2013 7:01:00 AM	Dibenz(a,h)anthracene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/6/2013 8:47:00 PM	Diethyl phthalate	n/a	<	1.5	µg/L	EPA 625	1.5	10	WKL	D
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/6/2013 8:47:00 PM	Dimethyl phthalate	n/a	<	1.8	µg/L	EPA 625	1.8	10	WKL	D
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/6/2013 8:47:00 PM	Di-n-butylphthalate	n/a	<	2.4	µg/L	EPA 625	2.4	10	WKL	D
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/6/2013 8:47:00 PM	Di-n-octylphthalate	n/a	<	1.9	µg/L	EPA 625	1.9	10	WKL	D
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/21/2013 7:01:00 AM	Fluoranthene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/21/2013 7:01:00 AM	Fluorene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/6/2013 8:47:00 PM	Hexachlorobenzene	n/a	<	4.9	µg/L	EPA 625	4.9	10	WKL	D
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/6/2013 8:47:00 PM	Hexachlorobutadiene	n/a	<	4.7	µg/L	EPA 625	4.7	10	WKL	D
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/6/2013 8:47:00 PM	Hexachlorocyclopentadiene	n/a	<	15	µg/L	EPA 625	15	50	WKL	D
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/6/2013 8:47:00 PM	Hexachloroethane	n/a	<	5.2	µg/L	EPA 625	5.2	10	WKL	D
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/21/2013 7:01:00 AM	Indeno(1,2,3-cd)pyrene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/6/2013 8:47:00 PM	Isophorone	n/a	<	2.1	µg/L	EPA 625	2.1	10	WKL	D
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/21/2013 7:01:00 AM	Naphthalene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/6/2013 8:47:00 PM	Nitrobenzene	n/a	<	3.6	µg/L	EPA 625	3.6	10	WKL	D
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/6/2013 8:47:00 PM	N-Nitrosodimethylamine	n/a	<	1.4	µg/L	EPA 625	1.4	10	WKL	D
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/6/2013 8:47:00 PM	N-Nitrosodi-N-propylamine	n/a	<	2.6	µg/L	EPA 625	2.6	10	WKL	D
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/6/2013 8:47:00 PM	N-Nitrosodiphenylamine	n/a	<	1.9	µg/L	EPA 625	1.9	10	WKL	D
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/21/2013 7:01:00 AM	Phenanthrene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/20/2013 10:31:00 PM	Phenol	n/a	<	3.5	µg/L	EPA 8270Cm	3.5	10	WKL	D
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/21/2013 7:01:00 AM	Pyrene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/14/2013 1:07:00 AM	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/14/2013 1:07:00 AM	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/14/2013 1:07:00 AM	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/14/2013 1:07:00 AM	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/14/2013 1:07:00 AM	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/14/2013 1:07:00 AM	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/14/2013 1:07:00 AM	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	2/26/2013 4:56:00 PM	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	2/26/2013 4:56:00 PM	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	2/26/2013 4:56:00 PM	2,4-D	n/a	=	6.8	µg/L	EPA 515.3	0.07	0.4	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	2/26/2013 4:56:00 PM	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	2/26/2013 4:56:00 PM	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/14/2013 1:07:00 AM	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/14/2013 1:07:00 AM	4,4'-DDE	n/a	DNQ	0.042	µg/L	EPA 608	0.0025	0.05	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/14/2013 1:07:00 AM	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	2/26/2013 4:56:00 PM	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/15/2013 1:51:00 AM	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/14/2013 1:07:00 AM	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/14/2013 1:07:00 AM	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/14/2013 1:07:00 AM	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/15/2013 1:51:00 AM	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/15/2013 7:22:00 AM	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	2/26/2013 4:56:00 PM	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/14/2013 1:07:00 AM	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/15/2013 7:22:00 AM	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/15/2013 1:51:00 AM	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/15/2013 1:51:00 AM	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/15/2013 1:51:00 AM	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/14/2013 1:07:00 AM	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/15/2013 1:51:00 AM	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/15/2013 7:22:00 AM	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/15/2013 7:22:00 AM	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/15/2013 1:51:00 AM	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	2/26/2013 4:56:00 PM	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	2/26/2013 4:56:00 PM	DCPA (Dacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/14/2013 1:07:00 AM	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/15/2013 7:22:00 AM	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/15/2013 7:22:00 AM	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/15/2013 7:22:00 AM	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	2/26/2013 4:56:00 PM	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	2/26/2013 4:56:00 PM	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/15/2013 7:22:00 AM	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/14/2013 1:07:00 AM	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/15/2013 7:22:00 AM	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	2/26/2013 4:56:00 PM	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/15/2013 1:51:00 AM	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/15/2013 7:22:00 AM	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/14/2013 1:07:00 AM	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/14/2013 1:07:00 AM	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/14/2013 1:07:00 AM	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/14/2013 1:07:00 AM	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/14/2013 1:07:00 AM	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/15/2013 1:51:00 AM	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/15/2013 7:22:00 AM	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/15/2013 7:22:00 AM	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/15/2013 7:22:00 AM	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/15/2013 7:22:00 AM	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/14/2013 1:07:00 AM	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/14/2013 1:07:00 AM	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	2/25/2013 5:50:00 PM	Glyphosate	n/a	=	65	µg/L	EPA 547	3.6	10	WKL	D
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/14/2013 1:07:00 AM	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/14/2013 1:07:00 AM	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/15/2013 7:22:00 AM	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/15/2013 7:22:00 AM	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/14/2013 1:07:00 AM	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/15/2013 7:22:00 AM	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/15/2013 1:51:00 AM	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/15/2013 1:51:00 AM	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/15/2013 7:22:00 AM	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/15/2013 1:51:00 AM	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/15/2013 7:22:00 AM	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	2/26/2013 4:56:00 PM	Pentachlorophenol	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.2	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/15/2013 7:22:00 AM	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	2/26/2013 4:56:00 PM	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/15/2013 1:51:00 AM	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/15/2013 1:51:00 AM	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/15/2013 7:22:00 AM	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/15/2013 1:51:00 AM	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/15/2013 7:22:00 AM	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/15/2013 1:51:00 AM	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/15/2013 1:51:00 AM	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/15/2013 7:22:00 AM	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/14/2013 1:07:00 AM	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/15/2013 7:22:00 AM	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-CAM	2012/13-3	Wet	2/20/2013 11:15:00 AM	3/15/2013 1:51:00 AM	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-CAM	2012/13-4	Wet	3/7/2013 9:45:00 PM	3/8/2013 11:02:00 PM	E. Coli	n/a	=	6131	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-CAM	2012/13-4	Wet	3/7/2013 9:45:00 PM	3/10/2013 3:30:00 AM	Fecal Coliform	n/a	=	9000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-CAM	2012/13-4	Wet	3/7/2013 9:45:00 PM	3/8/2013 11:02:00 PM	Total Coliform	n/a	=	1119000	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	
MO-CAM	2012/13-4	Wet	3/7/2013 9:45:00 PM	3/7/2013 9:45:00 PM	Conductivity	n/a	=	86	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-CAM	2012/13-4	Wet	3/7/2013 9:45:00 PM	3/22/2013 1:58:00 PM	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-CAM	2012/13-4	Wet	3/7/2013 9:45:00 PM	3/7/2013 9:45:00 PM	DO	n/a	=	86.5	%	Field Meter	-88	0.1	Field Crew	
MO-CAM	2012/13-4	Wet	3/7/2013 9:45:00 PM	3/7/2013 9:45:00 PM	DO	n/a	=	8.81	mg/L	Field Meter	-88	0.3	Field Crew	
MO-CAM	2012/13-4	Wet	3/7/2013 9:45:00 PM	3/7/2013 9:45:00 PM	pH	n/a	=	7.52	pH Units	Field Meter	-88	0.01	Field Crew	
MO-CAM	2012/13-4	Wet	3/7/2013 9:45:00 PM	3/7/2013 9:45:00 PM	Salinity	n/a	=	100	mg/L	Field Meter	-88	100	Field Crew	
MO-CAM	2012/13-4	Wet	3/7/2013 9:45:00 PM	3/7/2013 9:45:00 PM	Specific Conductance	n/a	=	100	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-CAM	2012/13-4	Wet	3/7/2013 9:45:00 PM	3/7/2013 9:45:00 PM	Temperature	n/a	=	14.3	°C	Field Meter	-88	0.1	Field Crew	
MO-CAM	2012/13-4	Wet	3/7/2013 9:45:00 PM	3/14/2013 3:00:00 PM	Oil and Grease	n/a	DNQ	2.8	mg/L	EPA 1664A	1.3	5	WKL	
MO-CAM	2012/13-4	Wet	3/7/2013 9:45:00 PM	3/14/2013 3:00:00 PM	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-CAM	2012/13-4	Wet	3/7/2013 9:45:00 PM	3/11/2013 4:30:00 PM	2-Chloroethyl vinyl ether	n/a	<	0.61	µg/L	EPA 524.2	0.61	1	WKL	
MO-CAM	2012/13-4	Wet	3/7/2013 9:45:00 PM	3/11/2013 4:30:00 PM	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/19/2013 8:50:00 PM	Chloride	n/a	=	9.6	mg/L	EPA 300.0	0.1	0.5	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/19/2013 8:50:00 PM	Fluoride	n/a	=	0.11	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/19/2013 5:42:00 PM	Perchlorate	n/a	<	0.95	µg/L	EPA 314.0	0.95	2	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/14/2013 11:26:00 AM	Calcium	Total	=	11.1	mg/L	EPA 200.7	0.0156	0.1	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/14/2013 11:26:00 AM	Magnesium	Total	=	2.43	mg/L	EPA 200.7	0.0121	0.1	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/22/2013 10:05:00 AM	Alkalinity as CaCO3	n/a	=	31	mg/L	SM 2320 B	0.56	10	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/14/2013 2:00:00 PM	BOD	n/a	=	19	mg/L	SM 5210 B	0.1	2	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/20/2013 10:56:00 PM	COD	n/a	=	95	mg/L	EPA 410.4	0.73	5	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/14/2013 11:26:00 AM	Hardness as CaCO3	Total	=	37.6	mg/L	EPA 200.7	0.0885	0.662	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/9/2013 8:43:00 PM	MBAS	n/a	=	0.44	mg/L	SM 5540 C	0.038	0.1	WKL	D
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/26/2013 11:59:00 AM	Phenolics	n/a	=	0.085	mg/L	EPA 420.4	0.0042	0.01	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/18/2013 3:18:00 PM	Specific Conductance	n/a	=	130	µmhos/cm	SM 2510 B	0.23	2	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/12/2013 9:45:00 PM	Total Dissolved Solids	n/a	=	88	mg/L	SM 2540 C	4	10	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/14/2013 2:56:00 PM	Total Organic Carbon	n/a	=	13	mg/L	SM 5310 C	0.045	1.5	WKL	D
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/12/2013 8:00:00 PM	Total Suspended Solids	n/a	=	92	mg/L	SM 2540 D	5	5	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/9/2013 6:55:00 PM	Turbidity	n/a	=	23	NTU	EPA 180.1	0.024	0.1	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/12/2013 8:00:00 PM	Volatile Suspended Solids	n/a	=	32	mg/L	EPA 160.4	3.1	5	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	4/1/2013 6:09:00 PM	Aluminum	Dissolved	=	23	µg/L	EPA 200.8	0.61	5	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	4/1/2013 8:59:00 PM	Aluminum	Total	=	1500	µg/L	EPA 200.8	2.1	5	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	4/1/2013 6:09:00 PM	Antimony	Dissolved	=	0.78	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	4/1/2013 8:59:00 PM	Antimony	Total	=	1.4	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	4/1/2013 6:09:00 PM	Arsenic	Dissolved	=	0.84	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	4/1/2013 8:59:00 PM	Arsenic	Total	=	1.3	µg/L	EPA 200.8	0.13	0.4	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	4/2/2013 12:59:00 PM	Beryllium	Dissolved	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	4/2/2013 2:06:00 PM	Beryllium	Total	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	4/1/2013 6:09:00 PM	Cadmium	Dissolved	DNQ	0.06	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	4/1/2013 8:59:00 PM	Cadmium	Total	=	0.2	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	4/1/2013 6:09:00 PM	Chromium	Dissolved	=	0.55	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	4/1/2013 8:59:00 PM	Chromium	Total	=	4.6	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/13/2013 3:51:00 PM	Chromium VI	n/a	=	0.34	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	4/1/2013 6:09:00 PM	Copper	Dissolved	=	11	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	4/1/2013 8:59:00 PM	Copper	Total	=	25	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/14/2013 11:23:00 AM	Iron	Dissolved	=	59	µg/L	EPA 200.7	1.1	10	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/14/2013 11:26:00 AM	Iron	Total	=	2100	µg/L	EPA 200.7	1.1	10	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	4/2/2013 12:59:00 PM	Lead	Dissolved	=	0.21	µg/L	EPA 200.8	0.011	0.2	WKL	UL-MB
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	4/2/2013 2:06:00 PM	Lead	Total	=	4	µg/L	EPA 200.8	0.035	0.2	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/27/2013 4:18:00 PM	Mercury	Dissolved	=	68	ng/L	EPA 245.1	3.9	50	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/27/2013 4:18:00 PM	Mercury	Total	=	76	ng/L	EPA 245.1	3.9	50	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	4/1/2013 6:09:00 PM	Nickel	Dissolved	=	2.6	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	4/1/2013 8:59:00 PM	Nickel	Total	=	5.4	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	4/1/2013 6:09:00 PM	Selenium	Dissolved	<	0.28	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	4/1/2013 8:59:00 PM	Selenium	Total	<	0.28	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	4/1/2013 6:09:00 PM	Silver	Dissolved	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	4/1/2013 8:59:00 PM	Silver	Total	DNQ	0.04	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	4/1/2013 6:09:00 PM	Thallium	Dissolved	DNQ	0.01	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	4/1/2013 8:59:00 PM	Thallium	Total	DNQ	0.04	µg/L	EPA 200.8	0.034	0.2	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	4/1/2013 6:09:00 PM	Zinc	Dissolved	=	50	µg/L	EPA 200.8	1.1	5	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	4/1/2013 8:59:00 PM	Zinc	Total	=	120	µg/L	EPA 200.8	1.1	5	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/20/2013 6:48:00 PM	Ammonia as N	n/a	=	0.6	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/11/2013 5:18:00 PM	Nitrate + Nitrite as N	n/a	=	0.58	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	4/4/2013 7:38:00 PM	Phosphorus as P	Dissolved	=	0.27	mg/L	EPA 365.1	0.0028	0.02	WKL	D
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/15/2013 2:30:00 PM	Phosphorus as P	Total	=	0.44	mg/L	EPA 365.1	0.007	0.05	WKL	D
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/21/2013 1:12:00 PM	TKN	n/a	=	2	mg/L	EPA 351.2	0.074	0.1	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/19/2013 12:11:00 AM	1,2,4-Trichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/19/2013 12:11:00 AM	1,2-Dichlorobenzene	n/a	<	0.57	µg/L	EPA 625	0.57	1	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/19/2013 12:11:00 AM	1,2-Diphenylhydrazine	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/19/2013 12:11:00 AM	1,3-Dichlorobenzene	n/a	<	0.53	µg/L	EPA 625	0.53	1	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/19/2013 12:11:00 AM	1,4-Dichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	4/9/2013 8:46:00 PM	1-Methylnaphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	4/11/2013 3:05:00 AM	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	4/11/2013 3:05:00 AM	2,4,6-Trichlorophenol	n/a	DNQ	0.36	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	4/11/2013 3:05:00 AM	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	4/11/2013 3:05:00 AM	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	4/11/2013 3:05:00 AM	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/19/2013 12:11:00 AM	2,4-Dinitrotoluene	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/19/2013 12:11:00 AM	2,6-Dinitrotoluene	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/19/2013 12:11:00 AM	2-Chloronaphthalene	n/a	<	0.45	µg/L	EPA 625	0.45	1	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	4/11/2013 3:05:00 AM	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	4/9/2013 8:46:00 PM	2-Methylnaphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	4/11/2013 3:05:00 AM	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	4/11/2013 3:05:00 AM	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/19/2013 12:11:00 AM	3,3'-Dichlorobenzidine	n/a	<	1.2	µg/L	EPA 625	1.2	5	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	4/11/2013 3:05:00 AM	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	4/11/2013 3:05:00 AM	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/19/2013 12:11:00 AM	4-Bromophenyl phenyl ether	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	4/11/2013 3:05:00 AM	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/19/2013 12:11:00 AM	4-Chlorophenyl phenyl ether	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	4/11/2013 3:05:00 AM	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	4/9/2013 8:46:00 PM	Acenaphthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	4/9/2013 8:46:00 PM	Acenaphthylene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	4/9/2013 8:46:00 PM	Anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	4/9/2013 8:46:00 PM	Benz(a)anthracene	n/a	=	0.11	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/19/2013 12:11:00 AM	Benzidine	n/a	<	3.7	µg/L	EPA 625	3.7	10	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/26/2013 6:29:00 PM	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	4/9/2013 8:46:00 PM	Benzo(b)fluoranthene	n/a	=	0.16	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	4/9/2013 8:46:00 PM	Benzo(g,h,i)perylene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	4/9/2013 8:46:00 PM	Benzo(k)fluoranthene	n/a	=	0.12	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/19/2013 12:11:00 AM	Bis(2-chloroethoxy)methane	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/19/2013 12:11:00 AM	Bis(2-chloroethyl)ether	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/19/2013 12:11:00 AM	Bis(2-chloroisopropyl)ether	n/a	<	0.38	µg/L	EPA 625	0.38	1	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/26/2013 6:29:00 PM	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/26/2013 6:29:00 PM	Bis(2-ethylhexyl)phthalate	n/a	=	4.1	µg/L	EPA 525.2	1.1	3	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/19/2013 12:11:00 AM	Butyl benzyl phthalate	n/a	DNQ	0.69	µg/L	EPA 625	0.18	1	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	4/9/2013 8:46:00 PM	Chrysene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	4/9/2013 8:46:00 PM	Dibenz(a,h)anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/19/2013 12:11:00 AM	Diethyl phthalate	n/a	=	1.3	µg/L	EPA 625	0.15	1	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/19/2013 12:11:00 AM	Dimethyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/19/2013 12:11:00 AM	Di-n-butylphthalate	n/a	DNQ	0.48	µg/L	EPA 625	0.24	1	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/19/2013 12:11:00 AM	Di-n-octylphthalate	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	4/9/2013 8:46:00 PM	Fluoranthene	n/a	=	0.16	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	4/9/2013 8:46:00 PM	Fluorene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/19/2013 12:11:00 AM	Hexachlorobenzene	n/a	<	0.49	µg/L	EPA 625	0.49	1	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/19/2013 12:11:00 AM	Hexachlorobutadiene	n/a	<	0.47	µg/L	EPA 625	0.47	1	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/19/2013 12:11:00 AM	Hexachlorocyclopentadiene	n/a	<	1.5	µg/L	EPA 625	1.5	5	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/19/2013 12:11:00 AM	Hexachloroethane	n/a	<	0.52	µg/L	EPA 625	0.52	1	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	4/9/2013 8:46:00 PM	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/19/2013 12:11:00 AM	Isophorone	n/a	<	0.21	µg/L	EPA 625	0.21	1	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	4/9/2013 8:46:00 PM	Naphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/19/2013 12:11:00 AM	Nitrobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/19/2013 12:11:00 AM	N-Nitrosodimethylamine	n/a	<	0.14	µg/L	EPA 625	0.14	1	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/19/2013 12:11:00 AM	N-Nitrosodi-N-propylamine	n/a	<	0.26	µg/L	EPA 625	0.26	1	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/19/2013 12:11:00 AM	N-Nitrosodiphenylamine	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	4/9/2013 8:46:00 PM	Phenanthrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	4/11/2013 3:05:00 AM	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	4/9/2013 8:46:00 PM	Pyrene	n/a	=	0.16	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/24/2013 6:09:00 AM	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/24/2013 6:09:00 AM	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/24/2013 6:09:00 AM	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/24/2013 6:09:00 AM	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/24/2013 6:09:00 AM	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/24/2013 6:09:00 AM	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/24/2013 6:09:00 AM	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/21/2013 8:17:00 PM	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/21/2013 8:17:00 PM	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/21/2013 8:17:00 PM	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/21/2013 8:17:00 PM	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/21/2013 8:17:00 PM	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/24/2013 6:09:00 AM	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/24/2013 6:09:00 AM	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/24/2013 6:09:00 AM	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/21/2013 8:17:00 PM	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/26/2013 6:29:00 PM	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/24/2013 6:09:00 AM	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/24/2013 6:09:00 AM	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/24/2013 6:09:00 AM	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/26/2013 6:29:00 PM	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	4/12/2013 4:11:00 AM	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	LB-LCSR
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/21/2013 8:17:00 PM	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/24/2013 6:09:00 AM	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	4/12/2013 4:11:00 AM	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/26/2013 6:29:00 PM	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/26/2013 6:29:00 PM	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/26/2013 6:29:00 PM	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/24/2013 6:09:00 AM	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/26/2013 6:29:00 PM	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	4/12/2013 4:11:00 AM	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	4/12/2013 4:11:00 AM	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/26/2013 6:29:00 PM	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/21/2013 8:17:00 PM	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/21/2013 8:17:00 PM	DCPA (Dacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/24/2013 6:09:00 AM	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	4/12/2013 4:11:00 AM	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	4/12/2013 4:11:00 AM	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	4/12/2013 4:11:00 AM	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/21/2013 8:17:00 PM	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/21/2013 8:17:00 PM	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	4/12/2013 4:11:00 AM	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/24/2013 6:09:00 AM	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	4/12/2013 4:11:00 AM	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/21/2013 8:17:00 PM	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/26/2013 6:29:00 PM	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	4/12/2013 4:11:00 AM	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/24/2013 6:09:00 AM	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/24/2013 6:09:00 AM	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/24/2013 6:09:00 AM	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/24/2013 6:09:00 AM	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/24/2013 6:09:00 AM	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/26/2013 6:29:00 PM	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	4/12/2013 4:11:00 AM	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	4/12/2013 4:11:00 AM	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	4/12/2013 4:11:00 AM	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	4/12/2013 4:11:00 AM	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/24/2013 6:09:00 AM	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/24/2013 6:09:00 AM	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/12/2013 4:53:00 PM	Glyphosate	n/a	=	13	µg/L	EPA 547	1.8	5	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/24/2013 6:09:00 AM	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/24/2013 6:09:00 AM	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	4/12/2013 4:11:00 AM	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	4/12/2013 4:11:00 AM	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/24/2013 6:09:00 AM	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	4/12/2013 4:11:00 AM	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/26/2013 6:29:00 PM	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/26/2013 6:29:00 PM	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	4/12/2013 4:11:00 AM	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/26/2013 6:29:00 PM	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	4/12/2013 4:11:00 AM	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/21/2013 8:17:00 PM	Pentachlorophenol	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.2	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	4/12/2013 4:11:00 AM	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/21/2013 8:17:00 PM	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/26/2013 6:29:00 PM	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/26/2013 6:29:00 PM	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	4/12/2013 4:11:00 AM	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/26/2013 6:29:00 PM	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	4/12/2013 4:11:00 AM	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/26/2013 6:29:00 PM	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/26/2013 6:29:00 PM	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	4/12/2013 4:11:00 AM	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/24/2013 6:09:00 AM	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	4/12/2013 4:11:00 AM	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-CAM	2012/13-4	Wet	3/8/2013 10:10:00 AM	3/26/2013 6:29:00 PM	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/6/2013 2:13:00 AM	Chloride	n/a	=	190	mg/L	EPA 300.0	5	25	WKL	D
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/4/2013 11:51:00 PM	Fluoride	n/a	=	0.73	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/4/2013 4:54:00 PM	Perchlorate	n/a	<	0.95	µg/L	EPA 314.0	0.95	2	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	5/24/2013 8:30:00 AM	E. Coli	n/a	=	1777	MPN/100 mL	MMO-MUG	10	10	VCHCA	D
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	5/27/2013 11:29:00 AM	Fecal Coliform	n/a	=	1100	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	5/24/2013 8:30:00 AM	Total Coliform	n/a	=	57300	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	D
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/19/2013 4:09:00 PM	Calcium	Total	=	147	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/19/2013 4:09:00 PM	Magnesium	Total	=	34.2	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/4/2013 1:05:00 PM	Alkalinity as CaCO3	n/a	=	170	mg/L	SM 2320 B	0.56	2	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	5/28/2013 5:35:00 PM	BOD	n/a	=	8	mg/L	SM 5210 B	0.1	2	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	5/31/2013 2:44:00 PM	COD	n/a	=	71	mg/L	EPA 410.4	0.73	5	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	5/23/2013 11:00:00 AM	Conductivity	n/a	=	1620	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/12/2013 11:27:00 AM	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	5/23/2013 11:00:00 AM	DO	n/a	>	20	mg/L	Field Meter	-88	0.3	Field Crew	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	5/23/2013 11:00:00 AM	DO	n/a	=	274.2	%	Field Meter	-88	0.1	Field Crew	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/19/2013 4:09:00 PM	Hardness as CaCO3	Total	=	508	mg/L	EPA 200.7	0.0894	0.662	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	5/24/2013 11:27:00 AM	MBAS	n/a	=	0.17	mg/L	SM 5540 C	0.019	0.05	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	5/23/2013 11:00:00 AM	pH	n/a	=	9.64	pH Units	Field Meter	-88	0.01	Field Crew	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/10/2013 4:43:00 PM	Phenolics	n/a	=	0.017	mg/L	EPA 420.4	0.0042	0.01	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	5/23/2013 11:00:00 AM	Salinity	n/a	=	800	mg/L	Field Meter	-88	100	Field Crew	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	5/23/2013 11:00:00 AM	Specific Conductance	n/a	=	1545	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	5/29/2013 10:15:00 AM	Specific Conductance	n/a	=	1900	µmhos/cm	SM 2510 B	0.47	4	WKL	D
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	5/23/2013 11:00:00 AM	Temperature	n/a	=	27.6	°C	Field Meter	-88	0.1	Field Crew	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	5/28/2013 6:05:00 PM	Total Dissolved Solids	n/a	=	1200	mg/L	SM 2540 C	4	10	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/5/2013 12:37:00 PM	Total Organic Carbon	n/a	=	22	mg/L	SM 5310 C	0.09	3	WKL	D
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	5/28/2013 1:25:00 PM	Total Suspended Solids	n/a	=	6	mg/L	SM 2540 D	5	5	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	5/24/2013 5:47:00 PM	Turbidity	n/a	=	3.9	NTU	EPA 180.1	0.024	0.1	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	5/28/2013 1:25:00 PM	Volatile Suspended Solids	n/a	=	6	mg/L	EPA 160.4	3.1	5	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	5/31/2013 6:36:00 PM	Oil and Grease	n/a	<	1.3	mg/L	EPA 1664A	1.3	5	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	5/31/2013 6:36:00 PM	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/15/2013 4:57:00 AM	Aluminum	Dissolved	DNQ	3.9	µg/L	EPA 200.8	2.1	5	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/15/2013 5:05:00 AM	Aluminum	Total	=	16	µg/L	EPA 200.8	2.1	5	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/15/2013 4:57:00 AM	Antimony	Dissolved	=	0.81	µg/L	EPA 200.8	0.034	0.5	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/15/2013 5:05:00 AM	Antimony	Total	=	0.81	µg/L	EPA 200.8	0.034	0.5	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/15/2013 4:57:00 AM	Arsenic	Dissolved	=	2.9	µg/L	EPA 200.8	0.13	0.4	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/15/2013 5:05:00 AM	Arsenic	Total	=	3	µg/L	EPA 200.8	0.13	0.4	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/15/2013 4:57:00 AM	Beryllium	Dissolved	<	0.015	µg/L	EPA 200.8	0.015	0.1	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/15/2013 5:05:00 AM	Beryllium	Total	<	0.015	µg/L	EPA 200.8	0.015	0.1	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/15/2013 4:57:00 AM	Cadmium	Dissolved	=	0.11	µg/L	EPA 200.8	0.017	0.1	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/15/2013 5:05:00 AM	Cadmium	Total	=	0.14	µg/L	EPA 200.8	0.017	0.1	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/15/2013 4:57:00 AM	Chromium	Dissolved	=	0.37	µg/L	EPA 200.8	0.024	0.2	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/15/2013 5:05:00 AM	Chromium	Total	=	0.38	µg/L	EPA 200.8	0.024	0.2	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	5/29/2013	Chromium VI	n/a	DNQ	0.2	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/15/2013 4:57:00 AM	Copper	Dissolved	=	21	µg/L	EPA 200.8	0.036	0.5	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/15/2013 5:05:00 AM	Copper	Total	=	20	µg/L	EPA 200.8	0.036	0.5	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/19/2013 4:07:00 PM	Iron	Dissolved	=	15	µg/L	EPA 200.7	1.1	10	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/19/2013 4:09:00 PM	Iron	Total	=	47	µg/L	EPA 200.7	1.1	10	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/15/2013 4:57:00 AM	Lead	Dissolved	DNQ	0.04	µg/L	EPA 200.8	0.024	0.2	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/15/2013 5:05:00 AM	Lead	Total	DNQ	0.09	µg/L	EPA 200.8	0.024	0.2	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/6/2013 5:53:00 PM	Mercury	Dissolved	<	3.9	ng/L	EPA 245.1	3.9	50	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/6/2013 5:53:00 PM	Mercury	Total	<	3.9	ng/L	EPA 245.1	3.9	50	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/15/2013 4:57:00 AM	Nickel	Dissolved	=	4.3	µg/L	EPA 200.8	0.091	0.8	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/15/2013 5:05:00 AM	Nickel	Total	=	4.3	µg/L	EPA 200.8	0.091	0.8	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/15/2013 4:57:00 AM	Selenium	Dissolved	=	0.42	µg/L	EPA 200.8	0.081	0.4	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/15/2013 5:05:00 AM	Selenium	Total	=	0.45	µg/L	EPA 200.8	0.081	0.4	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/15/2013 4:57:00 AM	Silver	Dissolved	DNQ	0.02	µg/L	EPA 200.8	0.012	0.2	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/15/2013 5:05:00 AM	Silver	Total	DNQ	0.02	µg/L	EPA 200.8	0.012	0.2	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/15/2013 4:57:00 AM	Thallium	Dissolved	<	0.034	µg/L	EPA 200.8	0.034	0.2	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/15/2013 5:05:00 AM	Thallium	Total	<	0.034	µg/L	EPA 200.8	0.034	0.2	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/15/2013 4:57:00 AM	Zinc	Dissolved	=	5	µg/L	EPA 200.8	0.5	5	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/15/2013 5:05:00 AM	Zinc	Total	DNQ	4.7	µg/L	EPA 200.8	0.5	5	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/10/2013 6:08:00 PM	Ammonia as N	n/a	=	0.13	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	5/24/2013 9:52:00 PM	Nitrate + Nitrite as N	n/a	=	0.23	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/12/2013 9:21:00 PM	Phosphorus as P	Dissolved	=	0.35	mg/L	EPA 365.1	0.0028	0.02	WKL	D
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/12/2013 8:59:00 PM	Phosphorus as P	Total	=	0.39	mg/L	EPA 365.1	0.0028	0.02	WKL	D
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/11/2013 2:47:00 PM	TKN	n/a	=	2.9	mg/L	EPA 351.2	0.05	0.1	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/12/2013 7:51:00 PM	1,2,4-Trichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/12/2013 7:51:00 PM	1,2-Dichlorobenzene	n/a	<	0.57	µg/L	EPA 625	0.57	1	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/12/2013 7:51:00 PM	1,2-Diphenylhydrazine	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/12/2013 7:51:00 PM	1,3-Dichlorobenzene	n/a	<	0.53	µg/L	EPA 625	0.53	1	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/12/2013 7:51:00 PM	1,4-Dichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/18/2013 9:29:00 AM	1-Methylnaphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/16/2013 6:52:00 AM	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/16/2013 6:52:00 AM	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	LB-LCSR
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/16/2013 6:52:00 AM	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	LB-LCSR
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/16/2013 6:52:00 AM	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/16/2013 6:52:00 AM	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/12/2013 7:51:00 PM	2,4-Dinitrotoluene	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/12/2013 7:51:00 PM	2,6-Dinitrotoluene	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/12/2013 7:51:00 PM	2-Chloronaphthalene	n/a	<	0.45	µg/L	EPA 625	0.45	1	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/16/2013 6:52:00 AM	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	LB-LCSR
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/18/2013 9:29:00 AM	2-Methylnaphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/16/2013 6:52:00 AM	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/16/2013 6:52:00 AM	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/12/2013 7:51:00 PM	3,3'-Dichlorobenzidine	n/a	<	1.2	µg/L	EPA 625	1.2	5	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/16/2013 6:52:00 AM	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/16/2013 6:52:00 AM	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	LB-LCSR
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/12/2013 7:51:00 PM	4-Bromophenyl phenyl ether	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/16/2013 6:52:00 AM	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	LB-LCSR
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/12/2013 7:51:00 PM	4-Chlorophenyl phenyl ether	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/16/2013 6:52:00 AM	4-Nitrophenol	n/a	DNQ	1.3	µg/L	EPA 8270Cm	1	2	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/18/2013 9:29:00 AM	Acenaphthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/18/2013 9:29:00 AM	Acenaphthylene	n/a	=	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/18/2013 9:29:00 AM	Anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/18/2013 9:29:00 AM	Benz(a)anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/12/2013 7:51:00 PM	Benzidine	n/a	<	3.7	µg/L	EPA 625	3.7	10	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/11/2013 9:08:00 PM	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/18/2013 9:29:00 AM	Benzo(b)fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/18/2013 9:29:00 AM	Benzo(g,h,i)perylene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/18/2013 9:29:00 AM	Benzo(k)fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/12/2013 7:51:00 PM	Bis(2-chloroethoxy)methane	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/12/2013 7:51:00 PM	Bis(2-chloroethyl)ether	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/12/2013 7:51:00 PM	Bis(2-chloroisopropyl)ether	n/a	<	0.38	µg/L	EPA 625	0.38	1	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/11/2013 9:08:00 PM	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/11/2013 9:08:00 PM	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/12/2013 7:51:00 PM	Butyl benzyl phthalate	n/a	DNQ	0.61	µg/L	EPA 625	0.18	1	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/18/2013 9:29:00 AM	Chrysene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/18/2013 9:29:00 AM	Dibenz(a,h)anthracene	n/a	=	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/12/2013 7:51:00 PM	Diethyl phthalate	n/a	=	1.5	µg/L	EPA 625	0.15	1	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/12/2013 7:51:00 PM	Dimethyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/12/2013 7:51:00 PM	Di-n-butylphthalate	n/a	DNQ	0.44	µg/L	EPA 625	0.24	1	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/12/2013 7:51:00 PM	Di-n-octylphthalate	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/18/2013 9:29:00 AM	Fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/18/2013 9:29:00 AM	Fluorene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/12/2013 7:51:00 PM	Hexachlorobenzene	n/a	<	0.49	µg/L	EPA 625	0.49	1	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/12/2013 7:51:00 PM	Hexachlorobutadiene	n/a	<	0.47	µg/L	EPA 625	0.47	1	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/12/2013 7:51:00 PM	Hexachlorocyclopentadiene	n/a	<	1.5	µg/L	EPA 625	1.5	5	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/12/2013 7:51:00 PM	Hexachloroethane	n/a	<	0.52	µg/L	EPA 625	0.52	1	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/18/2013 9:29:00 AM	Indeno(1,2,3-cd)pyrene	n/a	=	0.12	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/12/2013 7:51:00 PM	Isophorone	n/a	<	0.21	µg/L	EPA 625	0.21	1	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	5/25/2013 3:06:00 AM	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/18/2013 9:29:00 AM	Naphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/12/2013 7:51:00 PM	Nitrobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/12/2013 7:51:00 PM	N-Nitrosodimethylamine	n/a	<	0.14	µg/L	EPA 625	0.14	1	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/12/2013 7:51:00 PM	N-Nitrosodi-N-propylamine	n/a	<	0.26	µg/L	EPA 625	0.26	1	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/12/2013 7:51:00 PM	N-Nitrosodiphenylamine	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/18/2013 9:29:00 AM	Phenanthrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/16/2013 6:52:00 AM	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/18/2013 9:29:00 AM	Pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/16/2013 5:09:00 AM	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/16/2013 5:09:00 AM	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/16/2013 5:09:00 AM	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/16/2013 5:09:00 AM	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/16/2013 5:09:00 AM	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/16/2013 5:09:00 AM	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/16/2013 5:09:00 AM	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/7/2013 2:22:00 AM	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/7/2013 2:22:00 AM	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/7/2013 2:22:00 AM	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/7/2013 2:22:00 AM	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/7/2013 2:22:00 AM	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/16/2013 5:09:00 AM	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/16/2013 5:09:00 AM	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/16/2013 5:09:00 AM	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/7/2013 2:22:00 AM	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/11/2013 9:08:00 PM	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/16/2013 5:09:00 AM	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/16/2013 5:09:00 AM	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/16/2013 5:09:00 AM	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/11/2013 9:08:00 PM	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/13/2013 6:28:00 PM	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/7/2013 2:22:00 AM	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/16/2013 5:09:00 AM	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/13/2013 6:28:00 PM	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/11/2013 9:08:00 PM	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/11/2013 9:08:00 PM	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/11/2013 9:08:00 PM	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/16/2013 5:09:00 AM	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/11/2013 9:08:00 PM	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/13/2013 6:28:00 PM	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/13/2013 6:28:00 PM	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/11/2013 9:08:00 PM	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/7/2013 2:22:00 AM	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/7/2013 2:22:00 AM	DCPA (Dacthal)	n/a	=	2.2	µg/L	EPA 515.3	0.07	0.1	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/16/2013 5:09:00 AM	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/13/2013 6:28:00 PM	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/13/2013 6:28:00 PM	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/13/2013 6:28:00 PM	Diazinon	n/a	=	0.013	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/7/2013 2:22:00 AM	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/7/2013 2:22:00 AM	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/13/2013 6:28:00 PM	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/16/2013 5:09:00 AM	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/13/2013 6:28:00 PM	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/7/2013 2:22:00 AM	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/11/2013 9:08:00 PM	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/13/2013 6:28:00 PM	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/16/2013 5:09:00 AM	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/16/2013 5:09:00 AM	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/16/2013 5:09:00 AM	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/16/2013 5:09:00 AM	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/16/2013 5:09:00 AM	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/11/2013 9:08:00 PM	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/13/2013 6:28:00 PM	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/13/2013 6:28:00 PM	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/13/2013 6:28:00 PM	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/13/2013 6:28:00 PM	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/16/2013 5:09:00 AM	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/16/2013 5:09:00 AM	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	5/31/2013 2:44:00 PM	Glyphosate	n/a	DNQ	2.6	µg/L	EPA 547	1.8	5	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/16/2013 5:09:00 AM	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/16/2013 5:09:00 AM	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/13/2013 6:28:00 PM	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/13/2013 6:28:00 PM	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/16/2013 5:09:00 AM	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/13/2013 6:28:00 PM	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/11/2013 9:08:00 PM	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/11/2013 9:08:00 PM	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/13/2013 6:28:00 PM	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/11/2013 9:08:00 PM	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/13/2013 6:28:00 PM	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/7/2013 2:22:00 AM	Pentachlorophenol	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.2	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/13/2013 6:28:00 PM	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/7/2013 2:22:00 AM	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/11/2013 9:08:00 PM	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/11/2013 9:08:00 PM	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/13/2013 6:28:00 PM	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/11/2013 9:08:00 PM	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/13/2013 6:28:00 PM	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/11/2013 9:08:00 PM	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/11/2013 9:08:00 PM	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/13/2013 6:28:00 PM	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/16/2013 5:09:00 AM	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/13/2013 6:28:00 PM	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-CAM	2012/13-5	Dry	5/23/2013 11:00:00 AM	6/11/2013 9:08:00 PM	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-CAM	2013-DRY	Dry	8/13/2013 12:40:00 PM	8/14/2013 9:00:00 AM	E. Coli	n/a	<	10	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-CAM	2013-DRY	Dry	8/13/2013 12:40:00 PM	8/14/2013 9:00:00 AM	Total Coliform	n/a	=	259	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-CAM	2013-DRY	Dry	8/13/2013 12:40:00 PM	8/22/2013 11:55:00 AM	Calcium	Total	=	142	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-CAM	2013-DRY	Dry	8/13/2013 12:40:00 PM	8/22/2013 11:55:00 AM	Magnesium	Total	=	16.1	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-CAM	2013-DRY	Dry	8/13/2013 12:40:00 PM	8/13/2013 12:40:00 PM	Conductivity	n/a	=	2002	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-CAM	2013-DRY	Dry	8/13/2013 12:40:00 PM	8/13/2013 12:40:00 PM	Discharge	n/a	=	0.02	cfs	Field Estimate	-88	-88	Field Crew	
MO-CAM	2013-DRY	Dry	8/13/2013 12:40:00 PM	8/13/2013 12:40:00 PM	DO	n/a	=	276.1	%	Field Meter	-88	0.1	Field Crew	
MO-CAM	2013-DRY	Dry	8/13/2013 12:40:00 PM	8/13/2013 12:40:00 PM	DO	n/a	=	19.55	mg/L	Field Meter	-88	0.3	Field Crew	
MO-CAM	2013-DRY	Dry	8/13/2013 12:40:00 PM	8/22/2013 11:55:00 AM	Hardness as CaCO3	Total	=	420	mg/L	EPA 200.7	0.0894	0.662	WKL	
MO-CAM	2013-DRY	Dry	8/13/2013 12:40:00 PM	8/13/2013 12:40:00 PM	pH	n/a	=	10.17	pH Units	Field Meter	-88	0.01	Field Crew	
MO-CAM	2013-DRY	Dry	8/13/2013 12:40:00 PM	8/13/2013 12:40:00 PM	Salinity	n/a	=	900	mg/L	Field Meter	-88	100	Field Crew	
MO-CAM	2013-DRY	Dry	8/13/2013 12:40:00 PM	8/13/2013 12:40:00 PM	Specific Conductance	n/a	=	1716	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-CAM	2013-DRY	Dry	8/13/2013 12:40:00 PM	8/13/2013 12:40:00 PM	Temperature	n/a	=	33.6	°C	Field Meter	-88	0.1	Field Crew	
MO-CAM	2013-DRY	Dry	8/13/2013 12:40:00 PM	8/19/2013 7:05:00 PM	Total Organic Carbon	n/a	=	21	mg/L	SM 5310 C	0.045	1.5	WKL	D
MO-CAM	2013-DRY	Dry	8/13/2013 12:40:00 PM	8/13/2013 12:40:00 PM	Turbidity	n/a	=	15.13	NTU	Field Meter	-88	0.01	Field Crew	
MO-CAM	2013-DRY	Dry	8/13/2013 12:40:00 PM	8/23/2013 11:05:00 PM	Copper	Dissolved	=	22	µg/L	EPA 200.8	0.036	0.5	WKL	
MO-CAM	2013-DRY	Dry	8/13/2013 12:40:00 PM	8/23/2013 11:05:00 PM	Lead	Dissolved	DNQ	0.05	µg/L	EPA 200.8	0.024	0.2	WKL	
MO-CAM	2013-DRY	Dry	8/13/2013 12:40:00 PM	8/23/2013 11:05:00 PM	Zinc	Dissolved	=	5.5	µg/L	EPA 200.8	0.5	5	WKL	
MO-FIL	2012/13-2	Wet	11/17/2012 9:30:00 AM	11/18/2012 9:10:00 AM	E. Coli	n/a	=	10462	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-FIL	2012/13-2	Wet	11/17/2012 9:30:00 AM	11/21/2012 1:15:00 PM	Fecal Coliform	n/a	=	30000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-FIL	2012/13-2	Wet	11/17/2012 9:30:00 AM	11/18/2012 9:10:00 AM	Total Coliform	n/a	=	1413600	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	
MO-FIL	2012/13-2	Wet	11/17/2012 9:30:00 AM	11/17/2012 9:30:00 AM	Conductivity	n/a	=	171.5	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-FIL	2012/13-2	Wet	11/17/2012 9:30:00 AM	12/7/2012 2:02:00 PM	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-FIL	2012/13-2	Wet	11/17/2012 9:30:00 AM	11/17/2012 9:30:00 AM	DO	n/a	=	7.52	mg/L	Field Meter	-88	0.3	Field Crew	
MO-FIL	2012/13-2	Wet	11/17/2012 9:30:00 AM	11/17/2012 9:30:00 AM	DO	n/a	=	79.4	%	Field Meter	-88	0.1	Field Crew	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-FIL	2012/13-2	Wet	11/17/2012 9:30:00 AM	11/17/2012 9:30:00 AM	pH	n/a	=	7.62	pH Units	Field Meter	-88	0.01	Field Crew	
MO-FIL	2012/13-2	Wet	11/17/2012 9:30:00 AM	11/17/2012 9:30:00 AM	Salinity	n/a	=	100	mg/L	Field Meter	-88	100	Field Crew	
MO-FIL	2012/13-2	Wet	11/17/2012 9:30:00 AM	11/17/2012 9:30:00 AM	Specific Conductance	n/a	=	214.5	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-FIL	2012/13-2	Wet	11/17/2012 9:30:00 AM	11/17/2012 9:30:00 AM	Temperature	n/a	=	16	°C	Field Meter	-88	0.1	Field Crew	
MO-FIL	2012/13-2	Wet	11/17/2012 9:30:00 AM	11/30/2012 3:45:00 PM	Oil and Grease	n/a	<	1.3	mg/L	EPA 1664A	1.3	5	WKL	
MO-FIL	2012/13-2	Wet	11/17/2012 9:30:00 AM	11/30/2012 3:45:00 PM	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-FIL	2012/13-2	Wet	11/17/2012 9:30:00 AM	11/27/2012 9:33:00 PM	2-Chloroethyl vinyl ether	n/a	<	0.61	µg/L	EPA 524.2	0.61	1	WKL	
MO-FIL	2012/13-2	Wet	11/17/2012 9:30:00 AM	11/27/2012 9:33:00 PM	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/28/2012 12:29:00 PM	Chloride	n/a	=	14	mg/L	EPA 300.0	0.1	0.5	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/28/2012 12:29:00 PM	Fluoride	n/a	=	0.2	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/27/2012 6:30:00 PM	Perchlorate	n/a	=	5.1	µg/L	EPA 314.0	0.95	2	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/28/2012 12:27:00 PM	Calcium	Total	=	35.2	mg/L	EPA 200.7	0.0156	0.1	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/28/2012 12:27:00 PM	Magnesium	Total	=	9.25	mg/L	EPA 200.7	0.0121	0.1	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/30/2012 4:45:00 PM	Alkalinity as CaCO3	n/a	=	57	mg/L	SM 2320 B	0.56	2	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/24/2012 12:30:00 PM	BOD	n/a	=	11	mg/L	SM 5210 B	0.1	2	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/27/2012 9:06:00 AM	COD	n/a	=	81	mg/L	EPA 410.4	0.73	5	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/28/2012 12:27:00 PM	Hardness as CaCO3	Total	=	126	mg/L	EPA 200.7	0.0885	0.662	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/19/2012 9:46:00 PM	MBAS	n/a	=	0.29	mg/L	SM 5540 C	0.019	0.05	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/30/2012 2:58:00 PM	Phenolics	n/a	=	0.014	mg/L	EPA 420.4	0.0042	0.01	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/30/2012 11:00:00 AM	Specific Conductance	n/a	=	360	µmhos/cm	SM 2510 B	0.23	2	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/21/2012 11:58:00 AM	Total Dissolved Solids	n/a	=	240	mg/L	SM 2540 C	4	10	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/26/2012 10:48:00 AM	Total Organic Carbon	n/a	=	18	mg/L	SM 5310 C	0.09	3	WKL	D
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/20/2012 7:20:00 PM	Total Suspended Solids	n/a	=	25	mg/L	SM 2540 D	5	5	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/19/2012 10:13:00 PM	Turbidity	n/a	=	23	NTU	EPA 180.1	0.024	0.1	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/20/2012 7:20:00 PM	Volatile Suspended Solids	n/a	=	6	mg/L	EPA 160.4	3.1	5	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	12/3/2012 6:47:00 PM	Aluminum	Dissolved	=	20	µg/L	EPA 200.8	0.61	5	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	12/3/2012 6:55:00 PM	Aluminum	Total	=	940	µg/L	EPA 200.8	0.61	5	WKL	GB
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	12/3/2012 6:47:00 PM	Antimony	Dissolved	=	1	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	12/3/2012 6:55:00 PM	Antimony	Total	=	1.2	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	12/3/2012 6:47:00 PM	Arsenic	Dissolved	=	1.2	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	12/3/2012 6:55:00 PM	Arsenic	Total	=	1.6	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	12/3/2012 6:47:00 PM	Beryllium	Dissolved	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	12/3/2012 6:55:00 PM	Beryllium	Total	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	12/3/2012 6:47:00 PM	Cadmium	Dissolved	=	0.16	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	12/3/2012 6:55:00 PM	Cadmium	Total	=	0.46	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	12/3/2012 6:47:00 PM	Chromium	Dissolved	=	1.2	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	12/3/2012 6:55:00 PM	Chromium	Total	=	4.2	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	12/3/2012 7:33:00 PM	Chromium VI	n/a	=	0.68	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	12/3/2012 6:47:00 PM	Copper	Dissolved	=	12	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	12/3/2012 6:55:00 PM	Copper	Total	=	20	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/28/2012 12:24:00 PM	Iron	Dissolved	=	57	µg/L	EPA 200.7	1.1	10	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/28/2012 12:27:00 PM	Iron	Total	=	1500	µg/L	EPA 200.7	1.1	10	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	12/3/2012 6:47:00 PM	Lead	Dissolved	DNQ	0.18	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	12/3/2012 6:55:00 PM	Lead	Total	=	3.6	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	12/4/2012 12:25:00 PM	Mercury	Dissolved	<	3.9	ng/L	EPA 245.1	3.9	50	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	12/4/2012 12:25:00 PM	Mercury	Total	<	3.9	ng/L	EPA 245.1	3.9	50	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	12/3/2012 6:47:00 PM	Nickel	Dissolved	=	3.2	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	12/3/2012 6:55:00 PM	Nickel	Total	=	6	µg/L	EPA 200.8	0.13	0.8	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	12/3/2012 6:47:00 PM	Selenium	Dissolved	=	0.95	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	12/3/2012 6:55:00 PM	Selenium	Total	=	1.2	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	12/3/2012 6:47:00 PM	Silver	Dissolved	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	12/3/2012 6:55:00 PM	Silver	Total	DNQ	0.05	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	12/3/2012 6:47:00 PM	Thallium	Dissolved	<	0.009	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	12/3/2012 6:55:00 PM	Thallium	Total	<	0.009	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	12/3/2012 6:47:00 PM	Zinc	Dissolved	=	44	µg/L	EPA 200.8	1.1	5	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	12/3/2012 6:55:00 PM	Zinc	Total	=	99	µg/L	EPA 200.8	1.1	5	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	12/5/2012 5:44:00 PM	Ammonia as N	n/a	=	0.55	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/19/2012 7:04:00 PM	Nitrate + Nitrite as N	n/a	=	1.6	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	12/14/2012 12:41:00 PM	Phosphorus as P	Dissolved	=	0.39	mg/L	EPA 365.1	0.0028	0.02	WKL	DG
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	12/14/2012 12:11:00 PM	Phosphorus as P	Total	=	0.54	mg/L	EPA 365.1	0.0056	0.04	WKL	D, DG
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/28/2012 3:55:00 PM	TKN	n/a	=	2.1	mg/L	EPA 351.2	0.074	0.1	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/28/2012 2:36:00 AM	1,2,4-Trichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/28/2012 2:36:00 AM	1,2-Dichlorobenzene	n/a	<	0.57	µg/L	EPA 625	0.57	1	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/28/2012 2:36:00 AM	1,2-Diphenylhydrazine	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/28/2012 2:36:00 AM	1,3-Dichlorobenzene	n/a	<	0.53	µg/L	EPA 625	0.53	1	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/28/2012 2:36:00 AM	1,4-Dichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/29/2012 4:10:00 AM	1-Methylnaphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/29/2012 8:31:00 PM	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/29/2012 8:31:00 PM	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	EUM
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/29/2012 8:31:00 PM	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/29/2012 8:31:00 PM	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/29/2012 8:31:00 PM	2,4-Dinitrophenol	n/a	DNQ	1.1	µg/L	EPA 8270Cm	1	2	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/28/2012 2:36:00 AM	2,4-Dinitrotoluene	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/28/2012 2:36:00 AM	2,6-Dinitrotoluene	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/28/2012 2:36:00 AM	2-Chloronaphthalene	n/a	<	0.45	µg/L	EPA 625	0.45	1	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/29/2012 8:31:00 PM	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	EUM
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/29/2012 4:10:00 AM	2-Methylnaphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/29/2012 8:31:00 PM	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/29/2012 8:31:00 PM	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/28/2012 2:36:00 AM	3,3'-Dichlorobenzidine	n/a	<	1.2	µg/L	EPA 625	1.2	5	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/29/2012 8:31:00 PM	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/29/2012 8:31:00 PM	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/28/2012 2:36:00 AM	4-Bromophenyl phenyl ether	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/29/2012 8:31:00 PM	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/28/2012 2:36:00 AM	4-Chlorophenyl phenyl ether	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/29/2012 8:31:00 PM	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/29/2012 4:10:00 AM	Acenaphthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	EUM
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/29/2012 4:10:00 AM	Acenaphthylene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/29/2012 4:10:00 AM	Anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/29/2012 4:10:00 AM	Benz(a)anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/28/2012 2:36:00 AM	Benzidine	n/a	<	3.7	µg/L	EPA 625	3.7	10	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	12/4/2012 6:48:00 AM	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/29/2012 4:10:00 AM	Benzo(b)fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/29/2012 4:10:00 AM	Benzo(g,h,i)perylene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/29/2012 4:10:00 AM	Benzo(k)fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/28/2012 2:36:00 AM	Bis(2-chloroethoxy)methane	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/28/2012 2:36:00 AM	Bis(2-chloroethyl)ether	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/28/2012 2:36:00 AM	Bis(2-chloroisopropyl)ether	n/a	<	0.38	µg/L	EPA 625	0.38	1	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	12/4/2012 6:48:00 AM	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	12/4/2012 6:48:00 AM	Bis(2-ethylhexyl)phthalate	n/a	DNQ	1.4	µg/L	EPA 525.2	1.1	3	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/28/2012 2:36:00 AM	Butyl benzyl phthalate	n/a	DNQ	0.37	µg/L	EPA 625	0.18	1	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/29/2012 4:10:00 AM	Chrysene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/29/2012 4:10:00 AM	Dibenz(a,h)anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/28/2012 2:36:00 AM	Diethyl phthalate	n/a	DNQ	0.68	µg/L	EPA 625	0.15	1	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/28/2012 2:36:00 AM	Dimethyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/28/2012 2:36:00 AM	Di-n-butylphthalate	n/a	DNQ	0.29	µg/L	EPA 625	0.24	1	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/28/2012 2:36:00 AM	Di-n-octylphthalate	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/29/2012 4:10:00 AM	Fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/29/2012 4:10:00 AM	Fluorene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	EUM
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/28/2012 2:36:00 AM	Hexachlorobenzene	n/a	<	0.49	µg/L	EPA 625	0.49	1	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/28/2012 2:36:00 AM	Hexachlorobutadiene	n/a	<	0.47	µg/L	EPA 625	0.47	1	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/28/2012 2:36:00 AM	Hexachlorocyclopentadiene	n/a	<	1.5	µg/L	EPA 625	1.5	5	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/28/2012 2:36:00 AM	Hexachloroethane	n/a	<	0.52	µg/L	EPA 625	0.52	1	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/29/2012 4:10:00 AM	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/28/2012 2:36:00 AM	Isophorone	n/a	<	0.21	µg/L	EPA 625	0.21	1	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/29/2012 4:10:00 AM	Naphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/28/2012 2:36:00 AM	Nitrobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/28/2012 2:36:00 AM	N-Nitrosodimethylamine	n/a	<	0.14	µg/L	EPA 625	0.14	1	WKL	EUM
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/28/2012 2:36:00 AM	N-Nitrosodi-N-propylamine	n/a	<	0.26	µg/L	EPA 625	0.26	1	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/28/2012 2:36:00 AM	N-Nitrosodiphenylamine	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/29/2012 4:10:00 AM	Phenanthrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	EUM
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/29/2012 8:31:00 PM	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/29/2012 4:10:00 AM	Pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	EUM
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/28/2012 4:38:00 AM	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/28/2012 4:38:00 AM	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/28/2012 4:38:00 AM	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/28/2012 4:38:00 AM	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/28/2012 4:38:00 AM	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/28/2012 4:38:00 AM	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/28/2012 4:38:00 AM	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	12/2/2012 12:59:00 AM	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	12/2/2012 12:59:00 AM	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	12/2/2012 12:59:00 AM	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	12/2/2012 12:59:00 AM	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	12/2/2012 12:59:00 AM	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/28/2012 4:38:00 AM	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/28/2012 4:38:00 AM	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/28/2012 4:38:00 AM	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	12/2/2012 12:59:00 AM	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	12/4/2012 6:48:00 AM	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/28/2012 4:38:00 AM	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/28/2012 4:38:00 AM	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/28/2012 4:38:00 AM	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	12/4/2012 6:48:00 AM	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	12/13/2012 2:49:00 PM	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	EUM
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	12/2/2012 12:59:00 AM	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/28/2012 4:38:00 AM	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	12/13/2012 2:49:00 PM	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	12/4/2012 6:48:00 AM	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	12/4/2012 6:48:00 AM	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	12/4/2012 6:48:00 AM	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/28/2012 4:38:00 AM	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	12/4/2012 6:48:00 AM	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	12/13/2012 2:49:00 PM	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	12/13/2012 2:49:00 PM	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	12/4/2012 6:48:00 AM	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	12/2/2012 12:59:00 AM	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	12/2/2012 12:59:00 AM	DCPA (Dacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/28/2012 4:38:00 AM	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	12/13/2012 2:49:00 PM	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	12/13/2012 2:49:00 PM	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	12/13/2012 2:49:00 PM	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	12/2/2012 12:59:00 AM	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	12/2/2012 12:59:00 AM	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	12/13/2012 2:49:00 PM	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/28/2012 4:38:00 AM	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	12/13/2012 2:49:00 PM	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	12/2/2012 12:59:00 AM	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	12/4/2012 6:48:00 AM	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	12/13/2012 2:49:00 PM	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/28/2012 4:38:00 AM	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/28/2012 4:38:00 AM	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/28/2012 4:38:00 AM	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/28/2012 4:38:00 AM	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/28/2012 4:38:00 AM	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	12/4/2012 6:48:00 AM	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	12/13/2012 2:49:00 PM	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	12/13/2012 2:49:00 PM	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	12/13/2012 2:49:00 PM	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	12/13/2012 2:49:00 PM	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/28/2012 4:38:00 AM	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/28/2012 4:38:00 AM	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/28/2012 6:40:00 PM	Glyphosate	n/a	=	18	µg/L	EPA 547	1.8	5	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/28/2012 4:38:00 AM	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/28/2012 4:38:00 AM	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	12/13/2012 2:49:00 PM	Malathion	n/a	=	0.07	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	12/13/2012 2:49:00 PM	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/28/2012 4:38:00 AM	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	12/13/2012 2:49:00 PM	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	12/4/2012 6:48:00 AM	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	12/4/2012 6:48:00 AM	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	12/13/2012 2:49:00 PM	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	12/4/2012 6:48:00 AM	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	12/13/2012 2:49:00 PM	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.1	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	12/2/2012 12:59:00 AM	Pentachlorophenol	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.2	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	12/13/2012 2:49:00 PM	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	12/2/2012 12:59:00 AM	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	12/4/2012 6:48:00 AM	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	12/4/2012 6:48:00 AM	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	12/13/2012 2:49:00 PM	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	12/4/2012 6:48:00 AM	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	12/13/2012 2:49:00 PM	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	12/4/2012 6:48:00 AM	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	12/4/2012 6:48:00 AM	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	12/13/2012 2:49:00 PM	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	11/28/2012 4:38:00 AM	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	12/13/2012 2:49:00 PM	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-FIL	2012/13-2	Wet	11/18/2012 8:17:00 AM	12/4/2012 6:48:00 AM	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-FIL	2012/13-3	Wet	2/19/2013 8:55:00 PM	2/20/2013 6:30:00 PM	E. Coli	n/a	=	41	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-FIL	2012/13-3	Wet	2/19/2013 8:55:00 PM	2/23/2013 10:03:00 PM	Fecal Coliform	n/a	=	80	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-FIL	2012/13-3	Wet	2/19/2013 8:55:00 PM	2/20/2013 6:30:00 PM	Total Coliform	n/a	=	270000	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	
MO-FIL	2012/13-3	Wet	2/19/2013 8:55:00 PM	2/19/2013 8:55:00 PM	Conductivity	n/a	=	1377	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-FIL	2012/13-3	Wet	2/19/2013 8:55:00 PM	3/8/2013 9:36:00 PM	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-FIL	2012/13-3	Wet	2/19/2013 8:55:00 PM	2/19/2013 8:55:00 PM	DO	n/a	=	5.7	mg/L	Field Meter	-88	0.3	Field Crew	
MO-FIL	2012/13-3	Wet	2/19/2013 8:55:00 PM	2/19/2013 8:55:00 PM	DO	n/a	=	59	%	Field Meter	-88	0.1	Field Crew	
MO-FIL	2012/13-3	Wet	2/19/2013 8:55:00 PM	2/19/2013 8:55:00 PM	pH	n/a	=	7.74	pH Units	Field Meter	-88	0.01	Field Crew	
MO-FIL	2012/13-3	Wet	2/19/2013 8:55:00 PM	2/19/2013 8:55:00 PM	Salinity	n/a	=	840	mg/L	Field Meter	-88	100	Field Crew	
MO-FIL	2012/13-3	Wet	2/19/2013 8:55:00 PM	2/19/2013 8:55:00 PM	Specific Conductance	n/a	=	1662	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-FIL	2012/13-3	Wet	2/19/2013 8:55:00 PM	2/19/2013 8:55:00 PM	Temperature	n/a	=	16	°C	Field Meter	-88	0.1	Field Crew	
MO-FIL	2012/13-3	Wet	2/19/2013 8:55:00 PM	3/4/2013 6:09:00 PM	Oil and Grease	n/a	DNQ	1.4	mg/L	EPA 1664A	1.3	5	WKL	
MO-FIL	2012/13-3	Wet	2/19/2013 8:55:00 PM	3/4/2013 6:09:00 PM	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-FIL	2012/13-3	Wet	2/19/2013 8:55:00 PM	2/28/2013 1:36:00 AM	2-Chloroethyl vinyl ether	n/a	<	0.61	µg/L	EPA 524.2	0.61	1	WKL	
MO-FIL	2012/13-3	Wet	2/19/2013 8:55:00 PM	2/28/2013 1:36:00 AM	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	2/28/2013 12:03:00 PM	Chloride	n/a	=	46	mg/L	EPA 300.0	0.1	0.5	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	2/28/2013 12:03:00 PM	Fluoride	n/a	=	0.61	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/1/2013 7:35:00 AM	Perchlorate	n/a	<	0.95	µg/L	EPA 314.0	0.95	2	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	2/25/2013 2:12:00 PM	Calcium	Total	=	120	mg/L	EPA 200.7	0.0156	0.1	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	2/25/2013 2:12:00 PM	Magnesium	Total	=	33.9	mg/L	EPA 200.7	0.0121	0.1	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	2/25/2013 10:23:00 PM	Alkalinity as CaCO3	n/a	=	180	mg/L	SM 2320 B	0.56	2	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	2/26/2013 5:11:00 PM	BOD	n/a	=	8.8	mg/L	SM 5210 B	0.1	2	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/2/2013 4:05:00 PM	COD	n/a	=	55	mg/L	EPA 410.4	0.73	5	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	2/25/2013 2:12:00 PM	Hardness as CaCO3	Total	=	438	mg/L	EPA 200.7	0.0885	0.662	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	2/21/2013 9:38:00 PM	MBAS	n/a	=	0.28	mg/L	SM 5540 C	0.019	0.05	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	2/25/2013 6:26:00 PM	Phenolics	n/a	=	0.052	mg/L	EPA 420.4	0.0042	0.01	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/4/2013 7:13:00 PM	Specific Conductance	n/a	=	1100	µmhos/cm	SM 2510 B	0.23	2	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	2/26/2013 4:20:00 PM	Total Dissolved Solids	n/a	=	730	mg/L	SM 2540 C	4	10	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/4/2013 10:20:00 AM	Total Organic Carbon	n/a	=	11	mg/L	SM 5310 C	0.045	1.5	WKL	D
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	2/26/2013 8:27:00 PM	Total Suspended Solids	n/a	=	19	mg/L	SM 2540 D	5	5	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	2/21/2013 7:26:00 PM	Turbidity	n/a	=	15	NTU	EPA 180.1	0.024	0.1	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	2/26/2013 8:27:00 PM	Volatile Suspended Solids	n/a	<	3.1	mg/L	EPA 160.4	3.1	5	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/5/2013 3:32:00 PM	Aluminum	Dissolved	=	9.4	µg/L	EPA 200.8	0.61	5	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/5/2013 3:40:00 PM	Aluminum	Total	=	470	µg/L	EPA 200.8	2.1	5	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/5/2013 3:32:00 PM	Antimony	Dissolved	=	0.59	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/5/2013 3:40:00 PM	Antimony	Total	=	0.76	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/5/2013 3:32:00 PM	Arsenic	Dissolved	=	0.94	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/5/2013 3:40:00 PM	Arsenic	Total	=	1.2	µg/L	EPA 200.8	0.13	0.4	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/5/2013 3:32:00 PM	Beryllium	Dissolved	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/5/2013 3:40:00 PM	Beryllium	Total	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/5/2013 3:32:00 PM	Cadmium	Dissolved	DNQ	0.07	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/5/2013 3:40:00 PM	Cadmium	Total	=	0.26	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/5/2013 3:32:00 PM	Chromium	Dissolved	=	0.37	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/5/2013 3:40:00 PM	Chromium	Total	=	1.5	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/4/2013 9:56:00 AM	Chromium VI	n/a	DNQ	0.19	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/5/2013 3:32:00 PM	Copper	Dissolved	=	4.4	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/5/2013 3:40:00 PM	Copper	Total	=	11	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	2/25/2013 2:09:00 PM	Iron	Dissolved	=	16	µg/L	EPA 200.7	1.1	10	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	2/25/2013 2:12:00 PM	Iron	Total	=	700	µg/L	EPA 200.7	1.1	10	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/5/2013 3:32:00 PM	Lead	Dissolved	DNQ	0.06	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/5/2013 3:40:00 PM	Lead	Total	=	1.6	µg/L	EPA 200.8	0.035	0.2	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/5/2013 7:28:00 PM	Mercury	Dissolved	DNQ	11	ng/L	EPA 245.1	3.9	50	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/5/2013 7:28:00 PM	Mercury	Total	DNQ	22	ng/L	EPA 245.1	3.9	50	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/5/2013 3:32:00 PM	Nickel	Dissolved	=	2.1	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/5/2013 3:40:00 PM	Nickel	Total	=	3.3	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/5/2013 3:32:00 PM	Selenium	Dissolved	=	5	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/5/2013 3:40:00 PM	Selenium	Total	=	5.2	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/5/2013 3:32:00 PM	Silver	Dissolved	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/5/2013 3:40:00 PM	Silver	Total	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/5/2013 3:32:00 PM	Thallium	Dissolved	<	0.009	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/5/2013 3:40:00 PM	Thallium	Total	<	0.034	µg/L	EPA 200.8	0.034	0.2	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/5/2013 3:32:00 PM	Zinc	Dissolved	=	14	µg/L	EPA 200.8	1.1	5	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/5/2013 3:40:00 PM	Zinc	Total	=	38	µg/L	EPA 200.8	1.1	5	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/12/2013 6:48:00 PM	Ammonia as N	n/a	=	0.49	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	2/21/2013 8:05:00 PM	Nitrate + Nitrite as N	n/a	=	2	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/14/2013 4:06:00 PM	Phosphorus as P	Dissolved	=	0.16	mg/L	EPA 365.1	0.0014	0.01	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/14/2013 1:44:00 PM	Phosphorus as P	Total	=	0.24	mg/L	EPA 365.1	0.0028	0.02	WKL	D
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/12/2013 10:13:00 PM	TKN	n/a	=	1.4	mg/L	EPA 351.2	0.074	0.1	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/6/2013 10:19:00 PM	1,2,4-Trichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/6/2013 10:19:00 PM	1,2-Dichlorobenzene	n/a	<	0.57	µg/L	EPA 625	0.57	1	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/6/2013 10:19:00 PM	1,2-Diphenylhydrazine	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/6/2013 10:19:00 PM	1,3-Dichlorobenzene	n/a	<	0.53	µg/L	EPA 625	0.53	1	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/6/2013 10:19:00 PM	1,4-Dichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/21/2013 8:45:00 AM	1-Methylnaphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/20/2013 11:58:00 PM	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/20/2013 11:58:00 PM	2,4,6-Trichlorophenol	n/a	DNQ	0.31	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/20/2013 11:58:00 PM	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/20/2013 11:58:00 PM	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/20/2013 11:58:00 PM	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/6/2013 10:19:00 PM	2,4-Dinitrotoluene	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/6/2013 10:19:00 PM	2,6-Dinitrotoluene	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/6/2013 10:19:00 PM	2-Chloronaphthalene	n/a	<	0.45	µg/L	EPA 625	0.45	1	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/20/2013 11:58:00 PM	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/21/2013 8:45:00 AM	2-Methylnaphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/20/2013 11:58:00 PM	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/20/2013 11:58:00 PM	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/6/2013 10:19:00 PM	3,3'-Dichlorobenzidine	n/a	<	1.2	µg/L	EPA 625	1.2	5	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/20/2013 11:58:00 PM	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/20/2013 11:58:00 PM	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/6/2013 10:19:00 PM	4-Bromophenyl phenyl ether	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/20/2013 11:58:00 PM	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/6/2013 10:19:00 PM	4-Chlorophenyl phenyl ether	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/20/2013 11:58:00 PM	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/21/2013 8:45:00 AM	Acenaphthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/21/2013 8:45:00 AM	Acenaphthylene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/21/2013 8:45:00 AM	Anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/21/2013 8:45:00 AM	Benz(a)anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/6/2013 10:19:00 PM	Benzidine	n/a	<	3.7	µg/L	EPA 625	3.7	10	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/15/2013 3:14:00 AM	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/21/2013 8:45:00 AM	Benzo(b)fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/21/2013 8:45:00 AM	Benzo(g,h,i)perylene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/21/2013 8:45:00 AM	Benzo(k)fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/6/2013 10:19:00 PM	Bis(2-chloroethoxy)methane	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/6/2013 10:19:00 PM	Bis(2-chloroethyl)ether	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/6/2013 10:19:00 PM	Bis(2-chloroisopropyl)ether	n/a	<	0.38	µg/L	EPA 625	0.38	1	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/15/2013 3:14:00 AM	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/15/2013 3:14:00 AM	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/6/2013 10:19:00 PM	Butyl benzyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/21/2013 8:45:00 AM	Chrysene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/21/2013 8:45:00 AM	Dibenz(a,h)anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/6/2013 10:19:00 PM	Diethyl phthalate	n/a	<	0.15	µg/L	EPA 625	0.15	1	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/6/2013 10:19:00 PM	Dimethyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/6/2013 10:19:00 PM	Di-n-butylphthalate	n/a	<	0.24	µg/L	EPA 625	0.24	1	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/6/2013 10:19:00 PM	Di-n-octylphthalate	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/21/2013 8:45:00 AM	Fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/21/2013 8:45:00 AM	Fluorene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/6/2013 10:19:00 PM	Hexachlorobenzene	n/a	<	0.49	µg/L	EPA 625	0.49	1	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/6/2013 10:19:00 PM	Hexachlorobutadiene	n/a	<	0.47	µg/L	EPA 625	0.47	1	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/6/2013 10:19:00 PM	Hexachlorocyclopentadiene	n/a	<	1.5	µg/L	EPA 625	1.5	5	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/6/2013 10:19:00 PM	Hexachloroethane	n/a	<	0.52	µg/L	EPA 625	0.52	1	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/21/2013 8:45:00 AM	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/6/2013 10:19:00 PM	Isophorone	n/a	<	0.21	µg/L	EPA 625	0.21	1	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/21/2013 8:45:00 AM	Naphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/6/2013 10:19:00 PM	Nitrobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/6/2013 10:19:00 PM	N-Nitrosodimethylamine	n/a	<	0.14	µg/L	EPA 625	0.14	1	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/6/2013 10:19:00 PM	N-Nitrosodi-N-propylamine	n/a	<	0.26	µg/L	EPA 625	0.26	1	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/6/2013 10:19:00 PM	N-Nitrosodiphenylamine	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/21/2013 8:45:00 AM	Phenanthrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/20/2013 11:58:00 PM	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/21/2013 8:45:00 AM	Pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/14/2013 2:33:00 AM	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/14/2013 2:33:00 AM	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/14/2013 2:33:00 AM	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/14/2013 2:33:00 AM	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/14/2013 2:33:00 AM	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/14/2013 2:33:00 AM	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/14/2013 2:33:00 AM	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	2/26/2013 6:29:00 PM	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	2/26/2013 6:29:00 PM	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	2/26/2013 6:29:00 PM	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	2/26/2013 6:29:00 PM	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	2/26/2013 6:29:00 PM	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/14/2013 2:33:00 AM	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/14/2013 2:33:00 AM	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/14/2013 2:33:00 AM	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	2/26/2013 6:29:00 PM	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/15/2013 3:14:00 AM	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/14/2013 2:33:00 AM	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/14/2013 2:33:00 AM	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/14/2013 2:33:00 AM	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/15/2013 3:14:00 AM	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/13/2013 6:49:00 PM	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	EUM
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	2/26/2013 6:29:00 PM	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/14/2013 2:33:00 AM	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/13/2013 6:49:00 PM	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/15/2013 3:14:00 AM	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/15/2013 3:14:00 AM	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/15/2013 3:14:00 AM	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/14/2013 2:33:00 AM	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/15/2013 3:14:00 AM	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/13/2013 6:49:00 PM	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/13/2013 6:49:00 PM	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/15/2013 3:14:00 AM	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	2/26/2013 6:29:00 PM	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	2/26/2013 6:29:00 PM	DCPA (Dacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/14/2013 2:33:00 AM	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/13/2013 6:49:00 PM	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/13/2013 6:49:00 PM	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/13/2013 6:49:00 PM	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	2/26/2013 6:29:00 PM	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	2/26/2013 6:29:00 PM	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/13/2013 6:49:00 PM	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/14/2013 2:33:00 AM	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/13/2013 6:49:00 PM	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	2/26/2013 6:29:00 PM	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/15/2013 3:14:00 AM	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/13/2013 6:49:00 PM	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/14/2013 2:33:00 AM	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/14/2013 2:33:00 AM	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/14/2013 2:33:00 AM	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/14/2013 2:33:00 AM	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/14/2013 2:33:00 AM	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/15/2013 3:14:00 AM	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/13/2013 6:49:00 PM	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/13/2013 6:49:00 PM	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/13/2013 6:49:00 PM	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/13/2013 6:49:00 PM	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/14/2013 2:33:00 AM	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/14/2013 2:33:00 AM	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	2/25/2013 5:50:00 PM	Glyphosate	n/a	=	31	µg/L	EPA 547	1.8	5	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/14/2013 2:33:00 AM	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/14/2013 2:33:00 AM	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/13/2013 6:49:00 PM	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/13/2013 6:49:00 PM	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/14/2013 2:33:00 AM	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/13/2013 6:49:00 PM	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/15/2013 3:14:00 AM	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/15/2013 3:14:00 AM	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/13/2013 6:49:00 PM	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/15/2013 3:14:00 AM	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/13/2013 6:49:00 PM	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	2/26/2013 6:29:00 PM	Pentachlorophenol	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.2	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/13/2013 6:49:00 PM	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	2/26/2013 6:29:00 PM	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/15/2013 3:14:00 AM	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/15/2013 3:14:00 AM	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/13/2013 6:49:00 PM	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/15/2013 3:14:00 AM	Simazine	n/a	=	53	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/13/2013 6:49:00 PM	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/15/2013 3:14:00 AM	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/15/2013 3:14:00 AM	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/13/2013 6:49:00 PM	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/14/2013 2:33:00 AM	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/13/2013 6:49:00 PM	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-FIL	2012/13-3	Wet	2/20/2013 10:15:00 AM	3/15/2013 3:14:00 AM	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-FIL	2012/13-4	Wet	3/7/2013 11:55:00 PM	3/8/2013 10:20:00 PM	E. Coli	n/a	=	17329	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-FIL	2012/13-4	Wet	3/7/2013 11:55:00 PM	3/12/2013 1:24:00 AM	Fecal Coliform	n/a	=	30000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-FIL	2012/13-4	Wet	3/7/2013 11:55:00 PM	3/8/2013 10:20:00 PM	Total Coliform	n/a	=	235900	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	
MO-FIL	2012/13-4	Wet	3/7/2013 11:55:00 PM	3/7/2013 11:55:00 PM	Conductivity	n/a	=	486	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-FIL	2012/13-4	Wet	3/7/2013 11:55:00 PM	3/22/2013 2:02:00 PM	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-FIL	2012/13-4	Wet	3/7/2013 11:55:00 PM	3/7/2013 11:55:00 PM	DO	n/a	=	68.4	%	Field Meter	-88	0.1	Field Crew	
MO-FIL	2012/13-4	Wet	3/7/2013 11:55:00 PM	3/7/2013 11:55:00 PM	DO	n/a	=	6.47	mg/L	Field Meter	-88	0.3	Field Crew	
MO-FIL	2012/13-4	Wet	3/7/2013 11:55:00 PM	3/7/2013 11:55:00 PM	pH	n/a	=	7.9	pH Units	Field Meter	-88	0.01	Field Crew	
MO-FIL	2012/13-4	Wet	3/7/2013 11:55:00 PM	3/7/2013 11:55:00 PM	Salinity	n/a	=	300	mg/L	Field Meter	-88	100	Field Crew	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-FIL	2012/13-4	Wet	3/7/2013 11:55:00 PM	3/7/2013 11:55:00 PM	Specific Conductance	n/a	=	602	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-FIL	2012/13-4	Wet	3/7/2013 11:55:00 PM	3/7/2013 11:55:00 PM	Temperature	n/a	=	15	°C	Field Meter	-88	0.1	Field Crew	
MO-FIL	2012/13-4	Wet	3/7/2013 11:55:00 PM	3/14/2013 3:00:00 PM	Oil and Grease	n/a	DNQ	3.2	mg/L	EPA 1664A	1.3	5	WKL	
MO-FIL	2012/13-4	Wet	3/7/2013 11:55:00 PM	3/14/2013 3:00:00 PM	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-FIL	2012/13-4	Wet	3/7/2013 11:55:00 PM	3/11/2013 7:48:00 PM	2-Chloroethyl vinyl ether	n/a	<	0.61	µg/L	EPA 524.2	0.61	1	WKL	
MO-FIL	2012/13-4	Wet	3/7/2013 11:55:00 PM	3/11/2013 7:48:00 PM	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/19/2013 8:50:00 PM	Chloride	n/a	=	12	mg/L	EPA 300.0	0.1	0.5	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/19/2013 8:50:00 PM	Fluoride	n/a	=	0.16	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/19/2013 5:42:00 PM	Perchlorate	n/a	<	0.95	µg/L	EPA 314.0	0.95	2	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/14/2013 11:56:00 AM	Calcium	Total	=	39	mg/L	EPA 200.7	0.0156	0.1	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/14/2013 11:56:00 AM	Magnesium	Total	=	10.3	mg/L	EPA 200.7	0.0121	0.1	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/22/2013 10:05:00 AM	Alkalinity as CaCO3	n/a	=	61	mg/L	SM 2320 B	0.56	10	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/14/2013 2:00:00 PM	BOD	n/a	=	8.6	mg/L	SM 5210 B	0.1	2	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/20/2013 10:56:00 PM	COD	n/a	=	54	mg/L	EPA 410.4	0.73	5	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/14/2013 11:56:00 AM	Hardness as CaCO3	Total	=	140	mg/L	EPA 200.7	0.0885	0.662	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/9/2013 8:43:00 PM	MBAS	n/a	=	0.18	mg/L	SM 5540 C	0.019	0.05	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/26/2013 11:52:00 AM	Phenolics	n/a	=	0.084	mg/L	EPA 420.4	0.0042	0.01	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/18/2013 3:18:00 PM	Specific Conductance	n/a	=	360	µmhos/cm	SM 2510 B	0.23	2	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/12/2013 9:45:00 PM	Total Dissolved Solids	n/a	=	230	mg/L	SM 2540 C	4	10	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/14/2013 2:56:00 PM	Total Organic Carbon	n/a	=	6.4	mg/L	SM 5310 C	0.036	1.2	WKL	D
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/12/2013 8:00:00 PM	Total Suspended Solids	n/a	=	63	mg/L	SM 2540 D	5	5	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/9/2013 6:55:00 PM	Turbidity	n/a	=	22	NTU	EPA 180.1	0.024	0.1	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/12/2013 8:00:00 PM	Volatile Suspended Solids	n/a	=	20	mg/L	EPA 160.4	3.1	5	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	4/1/2013 7:14:00 PM	Aluminum	Dissolved	=	11	µg/L	EPA 200.8	0.61	5	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	4/1/2013 9:23:00 PM	Aluminum	Total	=	1200	µg/L	EPA 200.8	2.1	5	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	4/1/2013 7:14:00 PM	Antimony	Dissolved	DNQ	0.4	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	4/1/2013 9:23:00 PM	Antimony	Total	=	0.63	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	4/1/2013 7:14:00 PM	Arsenic	Dissolved	=	0.64	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	4/1/2013 9:23:00 PM	Arsenic	Total	=	1	µg/L	EPA 200.8	0.13	0.4	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	4/2/2013 1:26:00 PM	Beryllium	Dissolved	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	4/2/2013 2:16:00 PM	Beryllium	Total	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	4/1/2013 7:14:00 PM	Cadmium	Dissolved	DNQ	0.07	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	4/1/2013 9:23:00 PM	Cadmium	Total	=	0.41	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	4/1/2013 7:14:00 PM	Chromium	Dissolved	=	0.66	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	4/1/2013 9:23:00 PM	Chromium	Total	=	4.2	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/13/2013 3:51:00 PM	Chromium VI	n/a	=	0.4	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	4/1/2013 7:14:00 PM	Copper	Dissolved	=	4.8	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	4/1/2013 9:23:00 PM	Copper	Total	=	13	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/14/2013 12:25:00 PM	Iron	Dissolved	=	22	µg/L	EPA 200.7	1.1	10	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/14/2013 11:56:00 AM	Iron	Total	=	1700	µg/L	EPA 200.7	1.1	10	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	4/2/2013 1:26:00 PM	Lead	Dissolved	=	0.31	µg/L	EPA 200.8	0.011	0.2	WKL	UL-MB
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	4/2/2013 2:16:00 PM	Lead	Total	=	3.8	µg/L	EPA 200.8	0.035	0.2	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/27/2013 4:49:00 PM	Mercury	Dissolved	<	3.9	ng/L	EPA 245.1	3.9	50	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	4/3/2013 2:38:00 PM	Mercury	Total	=	64	ng/L	EPA 245.1	3.9	50	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	4/1/2013 7:14:00 PM	Nickel	Dissolved	=	1.5	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	4/1/2013 9:23:00 PM	Nickel	Total	=	4.2	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	4/1/2013 7:14:00 PM	Selenium	Dissolved	=	1.5	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	4/1/2013 9:23:00 PM	Selenium	Total	=	1.7	µg/L	EPA 200.8	0.28	0.4	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	4/1/2013 7:14:00 PM	Silver	Dissolved	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	4/1/2013 9:23:00 PM	Silver	Total	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	4/1/2013 7:14:00 PM	Thallium	Dissolved	DNQ	0.01	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	4/1/2013 9:23:00 PM	Thallium	Total	DNQ	0.04	µg/L	EPA 200.8	0.034	0.2	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	4/1/2013 7:14:00 PM	Zinc	Dissolved	=	19	µg/L	EPA 200.8	1.1	5	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	4/1/2013 9:23:00 PM	Zinc	Total	=	71	µg/L	EPA 200.8	1.1	5	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/26/2013 1:58:00 PM	Ammonia as N	n/a	=	0.34	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/11/2013 5:31:00 PM	Nitrate + Nitrite as N	n/a	=	1	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	4/4/2013 7:45:00 PM	Phosphorus as P	Dissolved	=	0.16	mg/L	EPA 365.1	0.0014	0.01	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/15/2013 2:46:00 PM	Phosphorus as P	Total	=	0.33	mg/L	EPA 365.1	0.0028	0.02	WKL	D
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/21/2013 1:20:00 PM	TKN	n/a	=	1.2	mg/L	EPA 351.2	0.074	0.1	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/19/2013 2:44:00 AM	1,2,4-Trichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/19/2013 2:44:00 AM	1,2-Dichlorobenzene	n/a	<	0.57	µg/L	EPA 625	0.57	1	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/19/2013 2:44:00 AM	1,2-Diphenylhydrazine	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/19/2013 2:44:00 AM	1,3-Dichlorobenzene	n/a	<	0.53	µg/L	EPA 625	0.53	1	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/19/2013 2:44:00 AM	1,4-Dichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	4/9/2013 11:45:00 PM	1-Methylnaphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	4/11/2013 5:38:00 AM	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	4/11/2013 5:38:00 AM	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	4/11/2013 5:38:00 AM	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	4/11/2013 5:38:00 AM	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	4/11/2013 5:38:00 AM	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/19/2013 2:44:00 AM	2,4-Dinitrotoluene	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/19/2013 2:44:00 AM	2,6-Dinitrotoluene	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/19/2013 2:44:00 AM	2-Chloronaphthalene	n/a	<	0.45	µg/L	EPA 625	0.45	1	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	4/11/2013 5:38:00 AM	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	4/9/2013 11:45:00 PM	2-Methylnaphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	4/11/2013 5:38:00 AM	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	4/11/2013 5:38:00 AM	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/19/2013 2:44:00 AM	3,3'-Dichlorobenzidine	n/a	<	1.2	µg/L	EPA 625	1.2	5	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	4/11/2013 5:38:00 AM	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	4/11/2013 5:38:00 AM	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/19/2013 2:44:00 AM	4-Bromophenyl phenyl ether	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	4/11/2013 5:38:00 AM	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/19/2013 2:44:00 AM	4-Chlorophenyl phenyl ether	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	4/11/2013 5:38:00 AM	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	4/9/2013 11:45:00 PM	Acenaphthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	4/9/2013 11:45:00 PM	Acenaphthylene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	4/9/2013 11:45:00 PM	Anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	4/9/2013 11:45:00 PM	Benz(a)anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/19/2013 2:44:00 AM	Benzidine	n/a	<	3.7	µg/L	EPA 625	3.7	10	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/26/2013 8:46:00 PM	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	4/9/2013 11:45:00 PM	Benzo(b)fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	4/9/2013 11:45:00 PM	Benzo(g,h,i)perylene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	4/9/2013 11:45:00 PM	Benzo(k)fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/19/2013 2:44:00 AM	Bis(2-chloroethoxy)methane	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/19/2013 2:44:00 AM	Bis(2-chloroethyl)ether	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/19/2013 2:44:00 AM	Bis(2-chloroisopropyl)ether	n/a	<	0.38	µg/L	EPA 625	0.38	1	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/26/2013 8:46:00 PM	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/26/2013 8:46:00 PM	Bis(2-ethylhexyl)phthalate	n/a	DNQ	1.6	µg/L	EPA 525.2	1.1	3	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/19/2013 2:44:00 AM	Butyl benzyl phthalate	n/a	DNQ	0.62	µg/L	EPA 625	0.18	1	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	4/9/2013 11:45:00 PM	Chrysene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	4/9/2013 11:45:00 PM	Dibenz(a,h)anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/19/2013 2:44:00 AM	Diethyl phthalate	n/a	=	1.3	µg/L	EPA 625	0.15	1	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/19/2013 2:44:00 AM	Dimethyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/19/2013 2:44:00 AM	Di-n-butylphthalate	n/a	DNQ	0.44	µg/L	EPA 625	0.24	1	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/19/2013 2:44:00 AM	Di-n-octylphthalate	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	4/9/2013 11:45:00 PM	Fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	4/9/2013 11:45:00 PM	Fluorene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/19/2013 2:44:00 AM	Hexachlorobenzene	n/a	<	0.49	µg/L	EPA 625	0.49	1	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/19/2013 2:44:00 AM	Hexachlorobutadiene	n/a	<	0.47	µg/L	EPA 625	0.47	1	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/19/2013 2:44:00 AM	Hexachlorocyclopentadiene	n/a	<	1.5	µg/L	EPA 625	1.5	5	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/19/2013 2:44:00 AM	Hexachloroethane	n/a	<	0.52	µg/L	EPA 625	0.52	1	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	4/9/2013 11:45:00 PM	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/19/2013 2:44:00 AM	Isophorone	n/a	<	0.21	µg/L	EPA 625	0.21	1	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	4/9/2013 11:45:00 PM	Naphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/19/2013 2:44:00 AM	Nitrobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/19/2013 2:44:00 AM	N-Nitrosodimethylamine	n/a	<	0.14	µg/L	EPA 625	0.14	1	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/19/2013 2:44:00 AM	N-Nitrosodi-N-propylamine	n/a	<	0.26	µg/L	EPA 625	0.26	1	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/19/2013 2:44:00 AM	N-Nitrosodiphenylamine	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	4/9/2013 11:45:00 PM	Phenanthrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	4/11/2013 5:38:00 AM	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	4/9/2013 11:45:00 PM	Pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/24/2013 8:31:00 AM	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/24/2013 8:31:00 AM	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/24/2013 8:31:00 AM	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/24/2013 8:31:00 AM	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/24/2013 8:31:00 AM	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/24/2013 8:31:00 AM	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/24/2013 8:31:00 AM	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/21/2013 11:21:00 PM	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/21/2013 11:21:00 PM	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/21/2013 11:21:00 PM	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/21/2013 11:21:00 PM	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/21/2013 11:21:00 PM	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/24/2013 8:31:00 AM	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/24/2013 8:31:00 AM	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/24/2013 8:31:00 AM	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/21/2013 11:21:00 PM	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/26/2013 8:46:00 PM	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/24/2013 8:31:00 AM	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/24/2013 8:31:00 AM	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/24/2013 8:31:00 AM	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/26/2013 8:46:00 PM	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/22/2013 9:44:00 PM	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	LB-LCSR
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/21/2013 11:21:00 PM	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/24/2013 8:31:00 AM	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/22/2013 9:44:00 PM	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/26/2013 8:46:00 PM	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/26/2013 8:46:00 PM	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/26/2013 8:46:00 PM	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/24/2013 8:31:00 AM	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/26/2013 8:46:00 PM	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/22/2013 9:44:00 PM	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/22/2013 9:44:00 PM	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/26/2013 8:46:00 PM	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/21/2013 11:21:00 PM	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/21/2013 11:21:00 PM	DCPA (Dacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/24/2013 8:31:00 AM	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/22/2013 9:44:00 PM	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/22/2013 9:44:00 PM	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/22/2013 9:44:00 PM	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/21/2013 11:21:00 PM	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/21/2013 11:21:00 PM	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/22/2013 9:44:00 PM	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/24/2013 8:31:00 AM	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/22/2013 9:44:00 PM	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/21/2013 11:21:00 PM	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/26/2013 8:46:00 PM	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/22/2013 9:44:00 PM	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/24/2013 8:31:00 AM	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/24/2013 8:31:00 AM	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/24/2013 8:31:00 AM	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/24/2013 8:31:00 AM	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/24/2013 8:31:00 AM	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/26/2013 8:46:00 PM	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/22/2013 9:44:00 PM	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/22/2013 9:44:00 PM	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/22/2013 9:44:00 PM	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/22/2013 9:44:00 PM	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/24/2013 8:31:00 AM	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/24/2013 8:31:00 AM	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/12/2013 4:53:00 PM	Glyphosate	n/a	=	23	µg/L	EPA 547	1.8	5	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/24/2013 8:31:00 AM	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/24/2013 8:31:00 AM	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/22/2013 9:44:00 PM	Malathion	n/a	DNQ	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/22/2013 9:44:00 PM	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/24/2013 8:31:00 AM	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/22/2013 9:44:00 PM	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/26/2013 8:46:00 PM	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/26/2013 8:46:00 PM	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/22/2013 9:44:00 PM	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/26/2013 8:46:00 PM	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/22/2013 9:44:00 PM	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/21/2013 11:21:00 PM	Pentachlorophenol	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.2	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/22/2013 9:44:00 PM	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/21/2013 11:21:00 PM	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/26/2013 8:46:00 PM	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/26/2013 8:46:00 PM	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/22/2013 9:44:00 PM	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/26/2013 8:46:00 PM	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/22/2013 9:44:00 PM	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	LB-LCSR
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/26/2013 8:46:00 PM	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/26/2013 8:46:00 PM	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/22/2013 9:44:00 PM	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/24/2013 8:31:00 AM	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/22/2013 9:44:00 PM	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-FIL	2012/13-4	Wet	3/8/2013 9:41:00 AM	3/26/2013 8:46:00 PM	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/7/2013 9:07:00 PM	Chloride	n/a	=	59	mg/L	EPA 300.0	1	5	WKL	D
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/7/2013 7:06:00 AM	Fluoride	n/a	=	0.73	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/1/2013 4:45:00 PM	Perchlorate	n/a	<	0.95	µg/L	EPA 314.0	0.95	2	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	4/24/2013 9:58:00 AM	E. Coli	n/a	=	253	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	4/27/2013 1:15:00 PM	Fecal Coliform	n/a	=	300	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	4/24/2013 9:58:00 AM	Total Coliform	n/a	=	24900	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/6/2013 5:13:00 PM	Calcium	Total	=	170	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/6/2013 5:13:00 PM	Magnesium	Total	=	50.2	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/1/2013 4:26:00 PM	Alkalinity as CaCO3	n/a	=	280	mg/L	SM 2320 B	0.56	10	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	4/29/2013 5:45:00 PM	BOD	n/a	=	2.7	mg/L	SM 5210 B	0.1	2	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	4/27/2013 1:07:00 PM	COD	n/a	=	8.7	mg/L	EPA 410.4	0.73	5	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	4/23/2013 8:10:00 AM	Conductivity	n/a	=	1296	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/7/2013 10:42:00 AM	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	4/23/2013 8:10:00 AM	DO	n/a	=	2.7	mg/L	Field Meter	-88	0.3	Field Crew	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	4/23/2013 8:10:00 AM	DO	n/a	=	28.7	%	Field Meter	-88	0.1	Field Crew	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/6/2013 5:13:00 PM	Hardness as CaCO3	Total	=	631	mg/L	EPA 200.7	0.0894	0.662	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	4/24/2013 8:29:00 PM	MBAS	n/a	DNQ	0.026	mg/L	SM 5540 C	0.019	0.05	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	4/23/2013 8:10:00 AM	pH	n/a	=	7.37	pH Units	Field Meter	-88	0.01	Field Crew	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	4/26/2013 12:36:00 PM	Phenolics	n/a	DNQ	0.0056	mg/L	EPA 420.4	0.0042	0.01	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	4/23/2013 8:10:00 AM	Salinity	n/a	=	800	mg/L	Field Meter	-88	100	Field Crew	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	4/23/2013 8:10:00 AM	Specific Conductance	n/a	=	1508	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/3/2013 11:25:00 AM	Specific Conductance	n/a	=	1700	µmhos/cm	SM 2510 B	0.47	4	WKL	D
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	4/23/2013 8:10:00 AM	Temperature	n/a	=	17.7	°C	Field Meter	-88	0.1	Field Crew	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	4/26/2013 2:23:00 PM	Total Dissolved Solids	n/a	=	1100	mg/L	SM 2540 C	4	10	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	4/29/2013 1:45:00 PM	Total Organic Carbon	n/a	=	2.6	mg/L	SM 5310 C	0.009	0.3	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	4/29/2013 8:30:00 PM	Total Suspended Solids	n/a	=	11	mg/L	SM 2540 D	5	5	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	4/24/2013 5:52:00 PM	Turbidity	n/a	=	3.8	NTU	EPA 180.1	0.024	0.1	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	4/29/2013 8:30:00 PM	Volatile Suspended Solids	n/a	DNQ	4	mg/L	EPA 160.4	3.1	5	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	4/25/2013 5:01:00 PM	Oil and Grease	n/a	<	1.3	mg/L	EPA 1664A	1.3	5	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	4/25/2013 5:01:00 PM	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/7/2013 4:40:00 AM	Aluminum	Dissolved	<	2.1	µg/L	EPA 200.8	2.1	5	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/7/2013 4:49:00 AM	Aluminum	Total	=	130	µg/L	EPA 200.8	2.1	5	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/7/2013 4:40:00 AM	Antimony	Dissolved	DNQ	0.32	µg/L	EPA 200.8	0.034	0.5	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/7/2013 4:49:00 AM	Antimony	Total	DNQ	0.34	µg/L	EPA 200.8	0.034	0.5	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/7/2013 4:40:00 AM	Arsenic	Dissolved	=	0.47	µg/L	EPA 200.8	0.13	0.4	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/7/2013 4:49:00 AM	Arsenic	Total	=	0.53	µg/L	EPA 200.8	0.13	0.4	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/7/2013 4:16:00 PM	Beryllium	Dissolved	<	0.015	µg/L	EPA 200.8	0.015	0.1	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/7/2013 4:20:00 PM	Beryllium	Total	<	0.015	µg/L	EPA 200.8	0.015	0.1	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/7/2013 4:40:00 AM	Cadmium	Dissolved	DNQ	0.08	µg/L	EPA 200.8	0.017	0.1	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/7/2013 4:49:00 AM	Cadmium	Total	=	0.14	µg/L	EPA 200.8	0.017	0.1	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/7/2013 4:40:00 AM	Chromium	Dissolved	DNQ	0.09	µg/L	EPA 200.8	0.024	0.2	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/7/2013 4:49:00 AM	Chromium	Total	=	0.63	µg/L	EPA 200.8	0.024	0.2	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	4/25/2013 12:19:00 PM	Chromium VI	n/a	DNQ	0.04	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/7/2013 4:40:00 AM	Copper	Dissolved	=	1.3	µg/L	EPA 200.8	0.036	0.5	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/7/2013 4:49:00 AM	Copper	Total	=	2.8	µg/L	EPA 200.8	0.036	0.5	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/6/2013 5:10:00 PM	Iron	Dissolved	<	1.1	µg/L	EPA 200.7	1.1	10	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/6/2013 5:13:00 PM	Iron	Total	=	240	µg/L	EPA 200.7	1.1	10	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/7/2013 4:40:00 AM	Lead	Dissolved	<	0.024	µg/L	EPA 200.8	0.024	0.2	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/7/2013 4:49:00 AM	Lead	Total	=	0.37	µg/L	EPA 200.8	0.024	0.2	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/1/2013 4:22:00 PM	Mercury	Dissolved	DNQ	12	ng/L	EPA 245.1	3.9	50	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/1/2013 4:22:00 PM	Mercury	Total	DNQ	10	ng/L	EPA 245.1	3.9	50	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/7/2013 4:40:00 AM	Nickel	Dissolved	=	0.97	µg/L	EPA 200.8	0.091	0.8	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/7/2013 4:49:00 AM	Nickel	Total	=	1.4	µg/L	EPA 200.8	0.091	0.8	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/7/2013 4:16:00 PM	Selenium	Dissolved	=	7.9	µg/L	EPA 200.8	0.081	0.4	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/7/2013 4:20:00 PM	Selenium	Total	=	8	µg/L	EPA 200.8	0.081	0.4	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/7/2013 4:40:00 AM	Silver	Dissolved	<	0.012	µg/L	EPA 200.8	0.012	0.2	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/7/2013 4:49:00 AM	Silver	Total	<	0.012	µg/L	EPA 200.8	0.012	0.2	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/7/2013 4:40:00 AM	Thallium	Dissolved	<	0.034	µg/L	EPA 200.8	0.034	0.2	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/7/2013 4:49:00 AM	Thallium	Total	<	0.034	µg/L	EPA 200.8	0.034	0.2	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/7/2013 4:40:00 AM	Zinc	Dissolved	DNQ	3.3	µg/L	EPA 200.8	0.5	5	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/7/2013 4:49:00 AM	Zinc	Total	=	8.9	µg/L	EPA 200.8	0.5	5	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/9/2013 4:08:00 PM	Ammonia as N	n/a	=	0.42	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	4/24/2013 12:22:00 PM	Nitrate + Nitrite as N	n/a	=	2.4	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/20/2013 7:31:00 PM	Phosphorus as P	Dissolved	=	0.093	mg/L	EPA 365.1	0.0014	0.01	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/8/2013 11:30:00 PM	Phosphorus as P	Total	=	0.11	mg/L	EPA 365.1	0.0014	0.01	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/6/2013 12:06:00 PM	TKN	n/a	=	0.69	mg/L	EPA 351.2	0.05	0.1	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/7/2013 12:22:00 AM	1,2,4-Trichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/7/2013 12:22:00 AM	1,2-Dichlorobenzene	n/a	<	0.57	µg/L	EPA 625	0.57	1	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/7/2013 12:22:00 AM	1,2-Diphenylhydrazine	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/7/2013 12:22:00 AM	1,3-Dichlorobenzene	n/a	<	0.53	µg/L	EPA 625	0.53	1	WKL	EST-LCSRPD
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/7/2013 12:22:00 AM	1,4-Dichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	EST-LCSRPD
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/11/2013 6:40:00 AM	1-Methylnaphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/10/2013 5:47:00 PM	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/10/2013 5:47:00 PM	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/10/2013 5:47:00 PM	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/10/2013 5:47:00 PM	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/10/2013 5:47:00 PM	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	EST-LCSRPD
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/7/2013 12:22:00 AM	2,4-Dinitrotoluene	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/7/2013 12:22:00 AM	2,6-Dinitrotoluene	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	4/25/2013 8:33:00 AM	2-Chloroethyl vinyl ether	n/a	<	0.28	µg/L	EPA 624	0.28	1	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/7/2013 12:22:00 AM	2-Chloronaphthalene	n/a	<	0.45	µg/L	EPA 625	0.45	1	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/10/2013 5:47:00 PM	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/11/2013 6:40:00 AM	2-Methylnaphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/10/2013 5:47:00 PM	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/10/2013 5:47:00 PM	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/7/2013 12:22:00 AM	3,3'-Dichlorobenzidine	n/a	<	1.2	µg/L	EPA 625	1.2	5	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/10/2013 5:47:00 PM	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/10/2013 5:47:00 PM	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/7/2013 12:22:00 AM	4-Bromophenyl phenyl ether	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/10/2013 5:47:00 PM	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/7/2013 12:22:00 AM	4-Chlorophenyl phenyl ether	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/10/2013 5:47:00 PM	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/11/2013 6:40:00 AM	Acenaphthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/11/2013 6:40:00 AM	Acenaphthylene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/11/2013 6:40:00 AM	Anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/11/2013 6:40:00 AM	Benz(a)anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/7/2013 12:22:00 AM	Benzidine	n/a	<	3.7	µg/L	EPA 625	3.7	10	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/1/2013 7:36:00 PM	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/11/2013 6:40:00 AM	Benzo(b)fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/11/2013 6:40:00 AM	Benzo(g,h,i)perylene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/11/2013 6:40:00 AM	Benzo(k)fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/7/2013 12:22:00 AM	Bis(2-chloroethoxy)methane	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/7/2013 12:22:00 AM	Bis(2-chloroethyl)ether	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/7/2013 12:22:00 AM	Bis(2-chloroisopropyl)ether	n/a	<	0.38	µg/L	EPA 625	0.38	1	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/1/2013 7:36:00 PM	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/1/2013 7:36:00 PM	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/7/2013 12:22:00 AM	Butyl benzyl phthalate	n/a	DNQ	0.56	µg/L	EPA 625	0.18	1	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/11/2013 6:40:00 AM	Chrysene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/11/2013 6:40:00 AM	Dibenz(a,h)anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/7/2013 12:22:00 AM	Diethyl phthalate	n/a	DNQ	0.88	µg/L	EPA 625	0.15	1	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/7/2013 12:22:00 AM	Dimethyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/7/2013 12:22:00 AM	Di-n-butylphthalate	n/a	<	0.24	µg/L	EPA 625	0.24	1	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/7/2013 12:22:00 AM	Di-n-octylphthalate	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/11/2013 6:40:00 AM	Fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/11/2013 6:40:00 AM	Fluorene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/7/2013 12:22:00 AM	Hexachlorobenzene	n/a	<	0.49	µg/L	EPA 625	0.49	1	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/7/2013 12:22:00 AM	Hexachlorobutadiene	n/a	<	0.47	µg/L	EPA 625	0.47	1	WKL	EST-LCSRPD
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/7/2013 12:22:00 AM	Hexachlorocyclopentadiene	n/a	<	1.5	µg/L	EPA 625	1.5	5	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/7/2013 12:22:00 AM	Hexachloroethane	n/a	<	0.52	µg/L	EPA 625	0.52	1	WKL	EST-LCSRPD
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/11/2013 6:40:00 AM	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/7/2013 12:22:00 AM	Isophorone	n/a	<	0.21	µg/L	EPA 625	0.21	1	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	4/25/2013 8:33:00 AM	Methyl tert-butyl ether (MTBE)	n/a	<	0.25	µg/L	EPA 624	0.25	1	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/11/2013 6:40:00 AM	Naphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/7/2013 12:22:00 AM	Nitrobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/7/2013 12:22:00 AM	N-Nitrosodimethylamine	n/a	<	0.14	µg/L	EPA 625	0.14	1	WKL	EST-LCSRPD
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/7/2013 12:22:00 AM	N-Nitrosodi-N-propylamine	n/a	<	0.26	µg/L	EPA 625	0.26	1	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/7/2013 12:22:00 AM	N-Nitrosodiphenylamine	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/11/2013 6:40:00 AM	Phenanthrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/10/2013 5:47:00 PM	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/11/2013 6:40:00 AM	Pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/8/2013 2:05:00 AM	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/8/2013 2:05:00 AM	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/8/2013 2:05:00 AM	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/8/2013 2:05:00 AM	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/8/2013 2:05:00 AM	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/8/2013 2:05:00 AM	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/8/2013 2:05:00 AM	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	4/26/2013 3:15:00 PM	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	4/26/2013 3:15:00 PM	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	4/26/2013 3:15:00 PM	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	4/26/2013 3:15:00 PM	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	4/26/2013 3:15:00 PM	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/8/2013 2:05:00 AM	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/8/2013 2:05:00 AM	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/8/2013 2:05:00 AM	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	4/26/2013 3:15:00 PM	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/1/2013 7:36:00 PM	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/8/2013 2:05:00 AM	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/8/2013 2:05:00 AM	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/8/2013 2:05:00 AM	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/1/2013 7:36:00 PM	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	4/29/2013 8:05:00 PM	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	4/26/2013 3:15:00 PM	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/8/2013 2:05:00 AM	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	4/29/2013 8:05:00 PM	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/1/2013 7:36:00 PM	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/1/2013 7:36:00 PM	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/1/2013 7:36:00 PM	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/8/2013 2:05:00 AM	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/1/2013 7:36:00 PM	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	4/29/2013 8:05:00 PM	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	4/29/2013 8:05:00 PM	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/1/2013 7:36:00 PM	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	4/26/2013 3:15:00 PM	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	4/26/2013 3:15:00 PM	DCPA (Dacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/8/2013 2:05:00 AM	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	4/29/2013 8:05:00 PM	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	4/29/2013 8:05:00 PM	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	4/29/2013 8:05:00 PM	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	4/26/2013 3:15:00 PM	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	4/26/2013 3:15:00 PM	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	4/29/2013 8:05:00 PM	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/8/2013 2:05:00 AM	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	4/29/2013 8:05:00 PM	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	4/26/2013 3:15:00 PM	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/1/2013 7:36:00 PM	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	4/29/2013 8:05:00 PM	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/8/2013 2:05:00 AM	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/8/2013 2:05:00 AM	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/8/2013 2:05:00 AM	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/8/2013 2:05:00 AM	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/8/2013 2:05:00 AM	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/1/2013 7:36:00 PM	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	4/29/2013 8:05:00 PM	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	4/29/2013 8:05:00 PM	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	4/29/2013 8:05:00 PM	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	4/29/2013 8:05:00 PM	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/8/2013 2:05:00 AM	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/8/2013 2:05:00 AM	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	4/24/2013 12:52:00 PM	Glyphosate	n/a	<	1.8	µg/L	EPA 547	1.8	5	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/8/2013 2:05:00 AM	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/8/2013 2:05:00 AM	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	4/29/2013 8:05:00 PM	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	4/29/2013 8:05:00 PM	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/8/2013 2:05:00 AM	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	4/29/2013 8:05:00 PM	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/1/2013 7:36:00 PM	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/1/2013 7:36:00 PM	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	4/29/2013 8:05:00 PM	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/1/2013 7:36:00 PM	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	4/29/2013 8:05:00 PM	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	4/26/2013 3:15:00 PM	Pentachlorophenol	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.2	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	4/29/2013 8:05:00 PM	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	4/26/2013 3:15:00 PM	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/1/2013 7:36:00 PM	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	EST-LCSRPD
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/1/2013 7:36:00 PM	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	4/29/2013 8:05:00 PM	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/1/2013 7:36:00 PM	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	4/29/2013 8:05:00 PM	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/1/2013 7:36:00 PM	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/1/2013 7:36:00 PM	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	4/29/2013 8:05:00 PM	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/8/2013 2:05:00 AM	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	4/29/2013 8:05:00 PM	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-FIL	2012/13-5	Dry	4/23/2013 8:10:00 AM	5/1/2013 7:36:00 PM	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-FIL	2013-DRY	Dry	8/12/2013 1:25:00 PM	8/13/2013 9:30:00 AM	E. Coli	n/a	=	2613	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-FIL	2013-DRY	Dry	8/12/2013 1:25:00 PM	8/13/2013 9:30:00 AM	Total Coliform	n/a	=	19863	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-FIL	2013-DRY	Dry	8/12/2013 1:25:00 PM	8/22/2013 11:58:00 AM	Calcium	Total	=	192	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-FIL	2013-DRY	Dry	8/12/2013 1:25:00 PM	8/22/2013 11:58:00 AM	Magnesium	Total	=	57.3	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-FIL	2013-DRY	Dry	8/12/2013 1:25:00 PM	8/12/2013 1:25:00 PM	Conductivity	n/a	=	1500	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-FIL	2013-DRY	Dry	8/12/2013 1:25:00 PM	8/12/2013 1:25:00 PM	Discharge	n/a	=	0	cfs	Field Estimate	-88	-88	Field Crew	
MO-FIL	2013-DRY	Dry	8/12/2013 1:25:00 PM	8/12/2013 1:25:00 PM	DO	n/a	=	5.04	mg/L	Field Meter	-88	0.3	Field Crew	
MO-FIL	2013-DRY	Dry	8/12/2013 1:25:00 PM	8/12/2013 1:25:00 PM	DO	n/a	=	56.8	%	Field Meter	-88	0.1	Field Crew	
MO-FIL	2013-DRY	Dry	8/12/2013 1:25:00 PM	8/22/2013 11:58:00 AM	Hardness as CaCO3	Total	=	715	mg/L	EPA 200.7	0.0894	0.662	WKL	
MO-FIL	2013-DRY	Dry	8/12/2013 1:25:00 PM	8/12/2013 1:25:00 PM	pH	n/a	=	7.54	pH Units	Field Meter	-88	0.01	Field Crew	
MO-FIL	2013-DRY	Dry	8/12/2013 1:25:00 PM	8/12/2013 1:25:00 PM	Salinity	n/a	=	800	mg/L	Field Meter	-88	100	Field Crew	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-FIL	2013-DRY	Dry	8/12/2013 1:25:00 PM	8/12/2013 1:25:00 PM	Specific Conductance	n/a	=	1632	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-FIL	2013-DRY	Dry	8/12/2013 1:25:00 PM	8/12/2013 1:25:00 PM	Temperature	n/a	=	21	°C	Field Meter	-88	0.1	Field Crew	
MO-FIL	2013-DRY	Dry	8/12/2013 1:25:00 PM	8/19/2013 7:05:00 PM	Total Organic Carbon	n/a	=	2.4	mg/L	SM 5310 C	0.009	0.3	WKL	
MO-FIL	2013-DRY	Dry	8/12/2013 1:25:00 PM	8/12/2013 1:25:00 PM	Turbidity	n/a	=	2.17	NTU	Field Meter	-88	0.01	Field Crew	
MO-FIL	2013-DRY	Dry	8/12/2013 1:25:00 PM	8/23/2013 11:13:00 PM	Copper	Dissolved	=	2.1	µg/L	EPA 200.8	0.036	0.5	WKL	
MO-FIL	2013-DRY	Dry	8/12/2013 1:25:00 PM	8/23/2013 11:13:00 PM	Lead	Dissolved	<	0.024	µg/L	EPA 200.8	0.024	0.2	WKL	
MO-FIL	2013-DRY	Dry	8/12/2013 1:25:00 PM	8/23/2013 11:13:00 PM	Zinc	Dissolved	=	5.8	µg/L	EPA 200.8	0.5	5	WKL	
MO-HUE	2012/13-2	Wet	11/17/2012 10:30:00 AM	11/18/2012 7:56:00 AM	E. Coli	n/a	=	31300	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	
MO-HUE	2012/13-2	Wet	11/17/2012 10:30:00 AM	11/20/2012 1:33:00 PM	Fecal Coliform	n/a	=	35000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-HUE	2012/13-2	Wet	11/17/2012 10:30:00 AM	11/18/2012 7:56:00 AM	Total Coliform	n/a	=	178900	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	
MO-HUE	2012/13-2	Wet	11/17/2012 10:30:00 AM	11/17/2012 10:30:00 AM	Conductivity	n/a	=	7430	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-HUE	2012/13-2	Wet	11/17/2012 10:30:00 AM	12/7/2012 2:04:00 PM	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-HUE	2012/13-2	Wet	11/17/2012 10:30:00 AM	11/17/2012 10:30:00 AM	DO	n/a	=	3.67	mg/L	Field Meter	-88	0.3	Field Crew	
MO-HUE	2012/13-2	Wet	11/17/2012 10:30:00 AM	11/17/2012 10:30:00 AM	DO	n/a	=	40.6	%	Field Meter	-88	0.1	Field Crew	
MO-HUE	2012/13-2	Wet	11/17/2012 10:30:00 AM	11/17/2012 10:30:00 AM	pH	n/a	=	7.42	pH Units	Field Meter	-88	0.01	Field Crew	
MO-HUE	2012/13-2	Wet	11/17/2012 10:30:00 AM	11/17/2012 10:30:00 AM	Salinity	n/a	=	5000	mg/L	Field Meter	-88	100	Field Crew	
MO-HUE	2012/13-2	Wet	11/17/2012 10:30:00 AM	11/17/2012 10:30:00 AM	Specific Conductance	n/a	=	8820	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-HUE	2012/13-2	Wet	11/17/2012 10:30:00 AM	11/17/2012 10:30:00 AM	Temperature	n/a	=	16.7	°C	Field Meter	-88	0.1	Field Crew	
MO-HUE	2012/13-2	Wet	11/17/2012 10:30:00 AM	11/30/2012 3:45:00 PM	Oil and Grease	n/a	<	1.3	mg/L	EPA 1664A	1.3	5	WKL	
MO-HUE	2012/13-2	Wet	11/17/2012 10:30:00 AM	11/30/2012 3:45:00 PM	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-HUE	2012/13-2	Wet	11/17/2012 10:30:00 AM	11/27/2012 10:40:00 PM	2-Chloroethyl vinyl ether	n/a	<	0.61	µg/L	EPA 524.2	0.61	1	WKL	
MO-HUE	2012/13-2	Wet	11/17/2012 10:30:00 AM	11/27/2012 10:40:00 PM	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 12:29:00 PM	Chloride	n/a	=	2200	mg/L	EPA 300.0	10	50	WKL	D
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 12:29:00 PM	Fluoride	n/a	=	0.49	mg/L	EPA 300.0	0.04	0.2	WKL	D
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 5:40:00 PM	Perchlorate	n/a	<	1.9	µg/L	EPA 314.0	1.9	4	WKL	D
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 12:58:00 PM	Calcium	Total	=	196	mg/L	EPA 200.7	0.0156	0.1	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 12:58:00 PM	Magnesium	Total	=	181	mg/L	EPA 200.7	0.0121	0.1	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/30/2012 4:45:00 PM	Alkalinity as CaCO3	n/a	=	270	mg/L	SM 2320 B	0.56	2	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/24/2012 12:30:00 PM	BOD	n/a	=	11	mg/L	SM 5210 B	0.1	2	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/27/2012 9:06:00 AM	COD	n/a	=	88	mg/L	EPA 410.4	0.73	5	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 12:58:00 PM	Hardness as CaCO3	Total	=	1230	mg/L	EPA 200.7	0.0885	0.662	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/19/2012 9:46:00 PM	MBAS	n/a	=	0.25	mg/L	SM 5540 C	0.019	0.05	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/30/2012 3:10:00 PM	Phenolics	n/a	<	0.0042	mg/L	EPA 420.4	0.0042	0.01	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/30/2012 11:00:00 AM	Specific Conductance	n/a	=	9000	µmhos/cm	SM 2510 B	2.3	20	WKL	D
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/21/2012 11:58:00 AM	Total Dissolved Solids	n/a	=	4500	mg/L	SM 2540 C	4	10	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/26/2012 10:48:00 AM	Total Organic Carbon	n/a	=	18	mg/L	SM 5310 C	0.09	3	WKL	D
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/20/2012 7:20:00 PM	Total Suspended Solids	n/a	=	29	mg/L	SM 2540 D	5	5	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/19/2012 10:13:00 PM	Turbidity	n/a	=	26	NTU	EPA 180.1	0.024	0.1	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/20/2012 7:20:00 PM	Volatile Suspended Solids	n/a	=	5	mg/L	EPA 160.4	3.1	5	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/3/2012 8:39:00 PM	Aluminum	Dissolved	DNQ	3.4	µg/L	EPA 200.8	0.61	5	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/3/2012 8:47:00 PM	Aluminum	Total	=	360	µg/L	EPA 200.8	0.61	5	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/3/2012 8:39:00 PM	Antimony	Dissolved	=	0.67	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/3/2012 8:47:00 PM	Antimony	Total	=	0.79	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/3/2012 8:39:00 PM	Arsenic	Dissolved	=	1	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/3/2012 8:47:00 PM	Arsenic	Total	=	2.1	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/3/2012 8:39:00 PM	Beryllium	Dissolved	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/3/2012 8:47:00 PM	Beryllium	Total	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/3/2012 8:39:00 PM	Cadmium	Dissolved	=	0.1	µg/L	EPA 200.8	0.02	0.1	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/3/2012 8:47:00 PM	Cadmium	Total	=	0.17	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/3/2012 8:39:00 PM	Chromium	Dissolved	DNQ	0.17	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/3/2012 8:47:00 PM	Chromium	Total	=	1.1	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/3/2012 7:33:00 PM	Chromium VI	n/a	<	0.0059	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/3/2012 8:39:00 PM	Copper	Dissolved	=	2.7	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/3/2012 8:47:00 PM	Copper	Total	=	4.8	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 2:41:00 PM	Iron	Dissolved	=	18	µg/L	EPA 200.7	1.1	10	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 12:58:00 PM	Iron	Total	=	2500	µg/L	EPA 200.7	1.1	10	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/3/2012 8:39:00 PM	Lead	Dissolved	DNQ	0.14	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/3/2012 8:47:00 PM	Lead	Total	=	2	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/4/2012 12:25:00 PM	Mercury	Dissolved	<	3.9	ng/L	EPA 245.1	3.9	50	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/4/2012 12:25:00 PM	Mercury	Total	<	3.9	ng/L	EPA 245.1	3.9	50	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/3/2012 8:39:00 PM	Nickel	Dissolved	=	3.2	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/3/2012 8:47:00 PM	Nickel	Total	=	4	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/3/2012 8:39:00 PM	Selenium	Dissolved	DNQ	0.37	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/3/2012 8:47:00 PM	Selenium	Total	=	0.42	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/3/2012 8:39:00 PM	Silver	Dissolved	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/3/2012 8:47:00 PM	Silver	Total	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/3/2012 8:39:00 PM	Thallium	Dissolved	<	0.009	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/3/2012 8:47:00 PM	Thallium	Total	<	0.009	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/3/2012 8:39:00 PM	Zinc	Dissolved	=	16	µg/L	EPA 200.8	1.1	5	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/3/2012 8:47:00 PM	Zinc	Total	=	34	µg/L	EPA 200.8	1.1	5	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/6/2012 2:47:00 PM	Ammonia as N	n/a	=	1.1	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/19/2012 7:34:00 PM	Nitrate + Nitrite as N	n/a	=	0.6	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/14/2012 12:48:00 PM	Phosphorus as P	Dissolved	=	0.14	mg/L	EPA 365.1	0.0014	0.01	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/14/2012 12:15:00 PM	Phosphorus as P	Total	=	0.47	mg/L	EPA 365.1	0.0056	0.04	WKL	D, DG
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/5/2012 4:15:00 PM	TKN	n/a	=	2.5	mg/L	EPA 351.2	0.074	0.1	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 5:07:00 AM	1,2,4-Trichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 5:07:00 AM	1,2-Dichlorobenzene	n/a	<	0.57	µg/L	EPA 625	0.57	1	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 5:07:00 AM	1,2-Diphenylhydrazine	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 5:07:00 AM	1,3-Dichlorobenzene	n/a	<	0.53	µg/L	EPA 625	0.53	1	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 5:07:00 AM	1,4-Dichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/29/2012 7:00:00 AM	1-Methylnaphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/29/2012 10:55:00 PM	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/29/2012 10:55:00 PM	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	EUM
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/29/2012 10:55:00 PM	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/29/2012 10:55:00 PM	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/29/2012 10:55:00 PM	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 5:07:00 AM	2,4-Dinitrotoluene	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 5:07:00 AM	2,6-Dinitrotoluene	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 5:07:00 AM	2-Chloronaphthalene	n/a	<	0.45	µg/L	EPA 625	0.45	1	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/29/2012 10:55:00 PM	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	EUM
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/29/2012 7:00:00 AM	2-Methylnaphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/29/2012 10:55:00 PM	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/29/2012 10:55:00 PM	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 5:07:00 AM	3,3'-Dichlorobenzidine	n/a	<	1.2	µg/L	EPA 625	1.2	5	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/29/2012 10:55:00 PM	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/29/2012 10:55:00 PM	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 5:07:00 AM	4-Bromophenyl phenyl ether	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/29/2012 10:55:00 PM	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 5:07:00 AM	4-Chlorophenyl phenyl ether	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/29/2012 10:55:00 PM	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/29/2012 7:00:00 AM	Acenaphthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	EUM
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/29/2012 7:00:00 AM	Acenaphthylene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/29/2012 7:00:00 AM	Anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/29/2012 7:00:00 AM	Benz(a)anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 5:07:00 AM	Benzidine	n/a	<	3.7	µg/L	EPA 625	3.7	10	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/6/2012 5:23:00 AM	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/29/2012 7:00:00 AM	Benzo(b)fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/29/2012 7:00:00 AM	Benzo(g,h,i)perylene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/29/2012 7:00:00 AM	Benzo(k)fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 5:07:00 AM	Bis(2-chloroethoxy)methane	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 5:07:00 AM	Bis(2-chloroethyl)ether	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 5:07:00 AM	Bis(2-chloroisopropyl)ether	n/a	<	0.38	µg/L	EPA 625	0.38	1	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/6/2012 5:23:00 AM	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/6/2012 5:23:00 AM	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 5:07:00 AM	Butyl benzyl phthalate	n/a	DNQ	0.22	µg/L	EPA 625	0.18	1	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/29/2012 7:00:00 AM	Chrysene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/29/2012 7:00:00 AM	Dibenz(a,h)anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 5:07:00 AM	Diethyl phthalate	n/a	DNQ	0.69	µg/L	EPA 625	0.15	1	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 5:07:00 AM	Dimethyl phthalate	n/a	=	9.9	µg/L	EPA 625	0.18	1	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 5:07:00 AM	Di-n-butylphthalate	n/a	<	0.24	µg/L	EPA 625	0.24	1	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 5:07:00 AM	Di-n-octylphthalate	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/29/2012 7:00:00 AM	Fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/29/2012 7:00:00 AM	Fluorene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	EUM
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 5:07:00 AM	Hexachlorobenzene	n/a	<	0.49	µg/L	EPA 625	0.49	1	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 5:07:00 AM	Hexachlorobutadiene	n/a	<	0.47	µg/L	EPA 625	0.47	1	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 5:07:00 AM	Hexachlorocyclopentadiene	n/a	<	1.5	µg/L	EPA 625	1.5	5	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 5:07:00 AM	Hexachloroethane	n/a	<	0.52	µg/L	EPA 625	0.52	1	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/29/2012 7:00:00 AM	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 5:07:00 AM	Isophorone	n/a	<	0.21	µg/L	EPA 625	0.21	1	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/29/2012 7:00:00 AM	Naphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 5:07:00 AM	Nitrobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 5:07:00 AM	N-Nitrosodimethylamine	n/a	<	0.14	µg/L	EPA 625	0.14	1	WKL	EUM
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 5:07:00 AM	N-Nitrosodi-N-propylamine	n/a	<	0.26	µg/L	EPA 625	0.26	1	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 5:07:00 AM	N-Nitrosodiphenylamine	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/29/2012 7:00:00 AM	Phenanthrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	EUM
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/29/2012 10:55:00 PM	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/29/2012 7:00:00 AM	Pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	EUM
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 7:00:00 AM	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 7:00:00 AM	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 7:00:00 AM	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 7:00:00 AM	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 7:00:00 AM	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 7:00:00 AM	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 7:00:00 AM	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/2/2012 4:33:00 AM	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/2/2012 4:33:00 AM	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/2/2012 4:33:00 AM	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/2/2012 4:33:00 AM	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/2/2012 4:33:00 AM	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 7:00:00 AM	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 7:00:00 AM	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 7:00:00 AM	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/2/2012 4:33:00 AM	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/6/2012 5:23:00 AM	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 7:00:00 AM	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 7:00:00 AM	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 7:00:00 AM	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/6/2012 5:23:00 AM	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/14/2012 12:10:00 PM	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/2/2012 4:33:00 AM	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 7:00:00 AM	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/14/2012 12:10:00 PM	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/6/2012 5:23:00 AM	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/6/2012 5:23:00 AM	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/6/2012 5:23:00 AM	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 7:00:00 AM	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/6/2012 5:23:00 AM	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/14/2012 12:10:00 PM	Chlorpyrifos	n/a	=	0.027	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/14/2012 12:10:00 PM	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/6/2012 5:23:00 AM	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/2/2012 4:33:00 AM	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/2/2012 4:33:00 AM	DCPA (Dacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 7:00:00 AM	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/14/2012 12:10:00 PM	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/14/2012 12:10:00 PM	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/14/2012 12:10:00 PM	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/2/2012 4:33:00 AM	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/2/2012 4:33:00 AM	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/14/2012 12:10:00 PM	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 7:00:00 AM	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/14/2012 12:10:00 PM	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	IL
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/2/2012 4:33:00 AM	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/6/2012 5:23:00 AM	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/14/2012 12:10:00 PM	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 7:00:00 AM	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 7:00:00 AM	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 7:00:00 AM	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 7:00:00 AM	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 7:00:00 AM	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/6/2012 5:23:00 AM	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/14/2012 12:10:00 PM	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/14/2012 12:10:00 PM	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/14/2012 12:10:00 PM	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/14/2012 12:10:00 PM	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 7:00:00 AM	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 7:00:00 AM	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 6:40:00 PM	Glyphosate	n/a	<	1.8	µg/L	EPA 547	1.8	5	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 7:00:00 AM	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 7:00:00 AM	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/14/2012 12:10:00 PM	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/14/2012 12:10:00 PM	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 7:00:00 AM	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/14/2012 12:10:00 PM	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/6/2012 5:23:00 AM	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/6/2012 5:23:00 AM	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/14/2012 12:10:00 PM	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/6/2012 5:23:00 AM	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/14/2012 12:10:00 PM	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.1	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/2/2012 4:33:00 AM	Pentachlorophenol	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.2	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/14/2012 12:10:00 PM	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/2/2012 4:33:00 AM	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/6/2012 5:23:00 AM	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/6/2012 5:23:00 AM	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/14/2012 12:10:00 PM	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/6/2012 5:23:00 AM	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/14/2012 12:10:00 PM	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/6/2012 5:23:00 AM	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/6/2012 5:23:00 AM	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/14/2012 12:10:00 PM	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 7:00:00 AM	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/14/2012 12:10:00 PM	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-HUE	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/6/2012 5:23:00 AM	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-HUE	2012/13-3	Wet	2/19/2013 9:10:00 PM	2/20/2013 6:30:00 PM	E. Coli	n/a	=	6488	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-HUE	2012/13-3	Wet	2/19/2013 9:10:00 PM	2/23/2013 9:52:00 PM	Fecal Coliform	n/a	=	11000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-HUE	2012/13-3	Wet	2/19/2013 9:10:00 PM	2/20/2013 6:30:00 PM	Total Coliform	n/a	=	48700	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	
MO-HUE	2012/13-3	Wet	2/19/2013 9:10:00 PM	2/19/2013 9:10:00 PM	Conductivity	n/a	=	4100	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-HUE	2012/13-3	Wet	2/19/2013 9:10:00 PM	3/8/2013 9:38:00 PM	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-HUE	2012/13-3	Wet	2/19/2013 9:10:00 PM	2/19/2013 9:10:00 PM	DO	n/a	=	3.93	mg/L	Field Meter	-88	0.3	Field Crew	
MO-HUE	2012/13-3	Wet	2/19/2013 9:10:00 PM	2/19/2013 9:10:00 PM	DO	n/a	=	40.1	%	Field Meter	-88	0.1	Field Crew	
MO-HUE	2012/13-3	Wet	2/19/2013 9:10:00 PM	2/19/2013 9:10:00 PM	pH	n/a	=	7.62	pH Units	Field Meter	-88	0.01	Field Crew	
MO-HUE	2012/13-3	Wet	2/19/2013 9:10:00 PM	2/19/2013 9:10:00 PM	Salinity	n/a	=	3200	mg/L	Field Meter	-88	100	Field Crew	
MO-HUE	2012/13-3	Wet	2/19/2013 9:10:00 PM	2/19/2013 9:10:00 PM	Specific Conductance	n/a	=	5930	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-HUE	2012/13-3	Wet	2/19/2013 9:10:00 PM	2/19/2013 9:10:00 PM	Temperature	n/a	=	14.1	°C	Field Meter	-88	0.1	Field Crew	
MO-HUE	2012/13-3	Wet	2/19/2013 9:10:00 PM	3/4/2013 6:09:00 PM	Oil and Grease	n/a	DNQ	2.2	mg/L	EPA 1664A	1.3	5	WKL	
MO-HUE	2012/13-3	Wet	2/19/2013 9:10:00 PM	3/4/2013 6:09:00 PM	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-HUE	2012/13-3	Wet	2/19/2013 9:10:00 PM	2/28/2013 7:09:00 AM	2-Chloroethyl vinyl ether	n/a	<	0.61	µg/L	EPA 524.2	0.61	1	WKL	
MO-HUE	2012/13-3	Wet	2/19/2013 9:10:00 PM	2/28/2013 7:09:00 AM	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	2/28/2013 12:03:00 PM	Chloride	n/a	=	2000	mg/L	EPA 300.0	5	25	WKL	D
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	2/28/2013 12:03:00 PM	Fluoride	n/a	=	0.57	mg/L	EPA 300.0	0.04	0.2	WKL	D
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/1/2013 4:10:00 PM	Perchlorate	n/a	<	1.9	µg/L	EPA 314.0	1.9	4	WKL	D

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	2/25/2013 2:31:00 PM	Calcium	Total	=	237	mg/L	EPA 200.7	0.0156	0.1	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	2/25/2013 2:31:00 PM	Magnesium	Total	=	175	mg/L	EPA 200.7	0.0121	0.1	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	2/25/2013 10:23:00 PM	Alkalinity as CaCO3	n/a	=	330	mg/L	SM 2320 B	0.56	2	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	2/26/2013 5:11:00 PM	BOD	n/a	=	7.8	mg/L	SM 5210 B	0.1	2	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/2/2013 4:05:00 PM	COD	n/a	=	46	mg/L	EPA 410.4	0.73	5	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	2/25/2013 2:31:00 PM	Hardness as CaCO3	Total	=	1310	mg/L	EPA 200.7	0.0885	0.662	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	2/21/2013 9:38:00 PM	MBAS	n/a	=	0.14	mg/L	SM 5540 C	0.019	0.05	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/8/2013 8:53:00 PM	Phenolics	n/a	=	0.038	mg/L	EPA 420.4	0.0042	0.01	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/4/2013 7:13:00 PM	Specific Conductance	n/a	=	9200	µmhos/cm	SM 2510 B	2.3	20	WKL	D
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	2/26/2013 4:20:00 PM	Total Dissolved Solids	n/a	=	4200	mg/L	SM 2540 C	4	10	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/4/2013 10:20:00 AM	Total Organic Carbon	n/a	=	5.7	mg/L	SM 5310 C	0.036	1.2	WKL	D
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	2/26/2013 8:27:00 PM	Total Suspended Solids	n/a	=	27	mg/L	SM 2540 D	5	5	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	2/21/2013 7:26:00 PM	Turbidity	n/a	=	9.1	NTU	EPA 180.1	0.024	0.1	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	2/26/2013 8:27:00 PM	Volatile Suspended Solids	n/a	=	7	mg/L	EPA 160.4	3.1	5	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/5/2013 5:52:00 PM	Aluminum	Dissolved	DNQ	3	µg/L	EPA 200.8	0.61	5	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/5/2013 6:01:00 PM	Aluminum	Total	=	310	µg/L	EPA 200.8	2.1	5	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/5/2013 5:52:00 PM	Antimony	Dissolved	DNQ	0.25	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/5/2013 6:01:00 PM	Antimony	Total	DNQ	0.3	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/5/2013 5:52:00 PM	Arsenic	Dissolved	=	1.3	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/5/2013 6:01:00 PM	Arsenic	Total	=	2.1	µg/L	EPA 200.8	0.13	0.4	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/5/2013 5:52:00 PM	Beryllium	Dissolved	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/5/2013 6:01:00 PM	Beryllium	Total	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/5/2013 5:52:00 PM	Cadmium	Dissolved	DNQ	0.05	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/5/2013 6:01:00 PM	Cadmium	Total	=	0.2	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/5/2013 5:52:00 PM	Chromium	Dissolved	<	0.074	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/5/2013 6:01:00 PM	Chromium	Total	=	0.82	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/4/2013 9:56:00 AM	Chromium VI	n/a	DNQ	0.033	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/5/2013 5:52:00 PM	Copper	Dissolved	=	0.55	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/5/2013 6:01:00 PM	Copper	Total	=	2.7	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	2/25/2013 2:29:00 PM	Iron	Dissolved	=	33	µg/L	EPA 200.7	1.1	10	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	2/25/2013 2:31:00 PM	Iron	Total	=	1900	µg/L	EPA 200.7	1.1	10	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/5/2013 5:52:00 PM	Lead	Dissolved	DNQ	0.07	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/5/2013 6:01:00 PM	Lead	Total	=	2	µg/L	EPA 200.8	0.035	0.2	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/5/2013 7:28:00 PM	Mercury	Dissolved	DNQ	14	ng/L	EPA 245.1	3.9	50	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/5/2013 7:28:00 PM	Mercury	Total	DNQ	16	ng/L	EPA 245.1	3.9	50	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/5/2013 5:52:00 PM	Nickel	Dissolved	=	2.3	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/5/2013 6:01:00 PM	Nickel	Total	=	2.9	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/5/2013 5:52:00 PM	Selenium	Dissolved	=	0.45	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/5/2013 6:01:00 PM	Selenium	Total	=	0.52	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/5/2013 5:52:00 PM	Silver	Dissolved	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/5/2013 6:01:00 PM	Silver	Total	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/5/2013 5:52:00 PM	Thallium	Dissolved	<	0.009	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/5/2013 6:01:00 PM	Thallium	Total	<	0.034	µg/L	EPA 200.8	0.034	0.2	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/5/2013 5:52:00 PM	Zinc	Dissolved	=	5.4	µg/L	EPA 200.8	1.1	5	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/5/2013 6:01:00 PM	Zinc	Total	=	18	µg/L	EPA 200.8	1.1	5	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/12/2013 6:53:00 PM	Ammonia as N	n/a	=	0.73	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	2/21/2013 8:11:00 PM	Nitrate + Nitrite as N	n/a	=	0.84	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/14/2013 4:15:00 PM	Phosphorus as P	Dissolved	=	0.14	mg/L	EPA 365.1	0.0014	0.01	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/14/2013 1:20:00 PM	Phosphorus as P	Total	=	0.4	mg/L	EPA 365.1	0.0028	0.02	WKL	D
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/12/2013 10:20:00 PM	TKN	n/a	=	2	mg/L	EPA 351.2	0.074	0.1	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/7/2013 12:20:00 AM	1,2,4-Trichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/7/2013 12:20:00 AM	1,2-Dichlorobenzene	n/a	<	0.57	µg/L	EPA 625	0.57	1	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/7/2013 12:20:00 AM	1,2-Diphenylhydrazine	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/7/2013 12:20:00 AM	1,3-Dichlorobenzene	n/a	<	0.53	µg/L	EPA 625	0.53	1	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/7/2013 12:20:00 AM	1,4-Dichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/21/2013 11:05:00 AM	1-Methylnaphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/21/2013 1:55:00 AM	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/21/2013 1:55:00 AM	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/21/2013 1:55:00 AM	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/21/2013 1:55:00 AM	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/21/2013 1:55:00 AM	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/7/2013 12:20:00 AM	2,4-Dinitrotoluene	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/7/2013 12:20:00 AM	2,6-Dinitrotoluene	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/7/2013 12:20:00 AM	2-Chloronaphthalene	n/a	<	0.45	µg/L	EPA 625	0.45	1	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/21/2013 1:55:00 AM	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/21/2013 11:05:00 AM	2-Methylnaphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/21/2013 1:55:00 AM	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/21/2013 1:55:00 AM	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/7/2013 12:20:00 AM	3,3'-Dichlorobenzidine	n/a	<	1.2	µg/L	EPA 625	1.2	5	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/21/2013 1:55:00 AM	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/21/2013 1:55:00 AM	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/7/2013 12:20:00 AM	4-Bromophenyl phenyl ether	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/21/2013 1:55:00 AM	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/7/2013 12:20:00 AM	4-Chlorophenyl phenyl ether	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/21/2013 1:55:00 AM	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/21/2013 11:05:00 AM	Acenaphthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/21/2013 11:05:00 AM	Acenaphthylene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/21/2013 11:05:00 AM	Anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/21/2013 11:05:00 AM	Benz(a)anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/7/2013 12:20:00 AM	Benzidine	n/a	<	3.7	µg/L	EPA 625	3.7	10	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/15/2013 5:06:00 AM	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	GB
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/21/2013 11:05:00 AM	Benzo(b)fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/21/2013 11:05:00 AM	Benzo(g,h,i)perylene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/21/2013 11:05:00 AM	Benzo(k)fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/7/2013 12:20:00 AM	Bis(2-chloroethoxy)methane	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/7/2013 12:20:00 AM	Bis(2-chloroethyl)ether	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/7/2013 12:20:00 AM	Bis(2-chloroisopropyl)ether	n/a	<	0.38	µg/L	EPA 625	0.38	1	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/15/2013 5:06:00 AM	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/15/2013 5:06:00 AM	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/7/2013 12:20:00 AM	Butyl benzyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/21/2013 11:05:00 AM	Chrysene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/21/2013 11:05:00 AM	Dibenz(a,h)anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/7/2013 12:20:00 AM	Diethyl phthalate	n/a	<	0.15	µg/L	EPA 625	0.15	1	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/7/2013 12:20:00 AM	Dimethyl phthalate	n/a	=	4.4	µg/L	EPA 625	0.18	1	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/7/2013 12:20:00 AM	Di-n-butylphthalate	n/a	<	0.24	µg/L	EPA 625	0.24	1	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/7/2013 12:20:00 AM	Di-n-octylphthalate	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/21/2013 11:05:00 AM	Fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/21/2013 11:05:00 AM	Fluorene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/7/2013 12:20:00 AM	Hexachlorobenzene	n/a	<	0.49	µg/L	EPA 625	0.49	1	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/7/2013 12:20:00 AM	Hexachlorobutadiene	n/a	<	0.47	µg/L	EPA 625	0.47	1	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/7/2013 12:20:00 AM	Hexachlorocyclopentadiene	n/a	<	1.5	µg/L	EPA 625	1.5	5	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/7/2013 12:20:00 AM	Hexachloroethane	n/a	<	0.52	µg/L	EPA 625	0.52	1	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/21/2013 11:05:00 AM	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/7/2013 12:20:00 AM	Isophorone	n/a	<	0.21	µg/L	EPA 625	0.21	1	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/21/2013 11:05:00 AM	Naphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/7/2013 12:20:00 AM	Nitrobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/7/2013 12:20:00 AM	N-Nitrosodimethylamine	n/a	<	0.14	µg/L	EPA 625	0.14	1	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/7/2013 12:20:00 AM	N-Nitrosodi-N-propylamine	n/a	<	0.26	µg/L	EPA 625	0.26	1	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/7/2013 12:20:00 AM	N-Nitrosodiphenylamine	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/21/2013 11:05:00 AM	Phenanthrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/21/2013 1:55:00 AM	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/21/2013 11:05:00 AM	Pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/14/2013 4:26:00 AM	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/14/2013 4:26:00 AM	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/14/2013 4:26:00 AM	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/14/2013 4:26:00 AM	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/14/2013 4:26:00 AM	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/14/2013 4:26:00 AM	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/14/2013 4:26:00 AM	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	2/26/2013 9:04:00 PM	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	2/26/2013 9:04:00 PM	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	2/26/2013 9:04:00 PM	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	2/26/2013 9:04:00 PM	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	2/26/2013 9:04:00 PM	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/14/2013 4:26:00 AM	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/14/2013 4:26:00 AM	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/14/2013 4:26:00 AM	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	2/26/2013 9:04:00 PM	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/15/2013 5:06:00 AM	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/14/2013 4:26:00 AM	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/14/2013 4:26:00 AM	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/14/2013 4:26:00 AM	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/15/2013 5:06:00 AM	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/13/2013 9:11:00 PM	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	EUM
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	2/26/2013 9:04:00 PM	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/14/2013 4:26:00 AM	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/13/2013 9:11:00 PM	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/15/2013 5:06:00 AM	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/15/2013 5:06:00 AM	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/15/2013 5:06:00 AM	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/14/2013 4:26:00 AM	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/15/2013 5:06:00 AM	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/13/2013 9:11:00 PM	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/13/2013 9:11:00 PM	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/15/2013 5:06:00 AM	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	2/26/2013 9:04:00 PM	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	2/26/2013 9:04:00 PM	DCPA (Dacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/14/2013 4:26:00 AM	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/13/2013 9:11:00 PM	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/13/2013 9:11:00 PM	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/13/2013 9:11:00 PM	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	2/26/2013 9:04:00 PM	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	2/26/2013 9:04:00 PM	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/13/2013 9:11:00 PM	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/14/2013 4:26:00 AM	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/13/2013 9:11:00 PM	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	2/26/2013 9:04:00 PM	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/15/2013 5:06:00 AM	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/13/2013 9:11:00 PM	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/14/2013 4:26:00 AM	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/14/2013 4:26:00 AM	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/14/2013 4:26:00 AM	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/14/2013 4:26:00 AM	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/14/2013 4:26:00 AM	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/15/2013 5:06:00 AM	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/13/2013 9:11:00 PM	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/13/2013 9:11:00 PM	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/13/2013 9:11:00 PM	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/13/2013 9:11:00 PM	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/14/2013 4:26:00 AM	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/14/2013 4:26:00 AM	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	2/25/2013 5:50:00 PM	Glyphosate	n/a	DNQ	3	µg/L	EPA 547	1.8	5	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/14/2013 4:26:00 AM	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/14/2013 4:26:00 AM	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/13/2013 9:11:00 PM	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/13/2013 9:11:00 PM	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/14/2013 4:26:00 AM	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/13/2013 9:11:00 PM	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/15/2013 5:06:00 AM	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/15/2013 5:06:00 AM	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/13/2013 9:11:00 PM	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/15/2013 5:06:00 AM	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/13/2013 9:11:00 PM	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	2/26/2013 9:04:00 PM	Pentachlorophenol	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.2	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/13/2013 9:11:00 PM	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	2/26/2013 9:04:00 PM	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/15/2013 5:06:00 AM	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/15/2013 5:06:00 AM	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/13/2013 9:11:00 PM	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/15/2013 5:06:00 AM	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/13/2013 9:11:00 PM	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/15/2013 5:06:00 AM	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/15/2013 5:06:00 AM	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/13/2013 9:11:00 PM	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/14/2013 4:26:00 AM	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/13/2013 9:11:00 PM	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-HUE	2012/13-3	Wet	2/20/2013 10:25:00 AM	3/15/2013 5:06:00 AM	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-HUE	2012/13-4	Wet	3/7/2013 10:20:00 PM	3/8/2013 11:02:00 PM	E. Coli	n/a	=	2613	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-HUE	2012/13-4	Wet	3/7/2013 10:20:00 PM	3/11/2013 2:50:00 AM	Fecal Coliform	n/a	=	2800	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-HUE	2012/13-4	Wet	3/7/2013 10:20:00 PM	3/8/2013 11:02:00 PM	Total Coliform	n/a	=	11000	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	
MO-HUE	2012/13-4	Wet	3/7/2013 10:20:00 PM	3/7/2013 10:20:00 PM	Conductivity	n/a	=	6570	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-HUE	2012/13-4	Wet	3/7/2013 10:20:00 PM	3/22/2013 2:03:00 PM	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-HUE	2012/13-4	Wet	3/7/2013 10:20:00 PM	3/7/2013 10:20:00 PM	DO	n/a	=	106.9	%	Field Meter	-88	0.1	Field Crew	
MO-HUE	2012/13-4	Wet	3/7/2013 10:20:00 PM	3/7/2013 10:20:00 PM	DO	n/a	=	10.1	mg/L	Field Meter	-88	0.3	Field Crew	
MO-HUE	2012/13-4	Wet	3/7/2013 10:20:00 PM	3/7/2013 10:20:00 PM	pH	n/a	=	7.76	pH Units	Field Meter	-88	0.01	Field Crew	
MO-HUE	2012/13-4	Wet	3/7/2013 10:20:00 PM	3/7/2013 10:20:00 PM	Salinity	n/a	=	4400	mg/L	Field Meter	-88	100	Field Crew	
MO-HUE	2012/13-4	Wet	3/7/2013 10:20:00 PM	3/7/2013 10:20:00 PM	Specific Conductance	n/a	=	7870	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-HUE	2012/13-4	Wet	3/7/2013 10:20:00 PM	3/7/2013 10:20:00 PM	Temperature	n/a	=	16.7	°C	Field Meter	-88	0.1	Field Crew	
MO-HUE	2012/13-4	Wet	3/7/2013 10:20:00 PM	3/14/2013 3:00:00 PM	Oil and Grease	n/a	<	1.3	mg/L	EPA 1664A	1.3	5	WKL	
MO-HUE	2012/13-4	Wet	3/7/2013 10:20:00 PM	3/14/2013 3:00:00 PM	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-HUE	2012/13-4	Wet	3/7/2013 10:20:00 PM	3/11/2013 8:53:00 PM	2-Chloroethyl vinyl ether	n/a	<	0.61	µg/L	EPA 524.2	0.61	1	WKL	
MO-HUE	2012/13-4	Wet	3/7/2013 10:20:00 PM	3/11/2013 8:53:00 PM	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/19/2013 8:50:00 PM	Chloride	n/a	=	990	mg/L	EPA 300.0	10	50	WKL	D
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/19/2013 8:50:00 PM	Fluoride	n/a	=	0.35	mg/L	EPA 300.0	0.04	0.2	WKL	D
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/20/2013 5:01:00 PM	Perchlorate	n/a	<	1.9	µg/L	EPA 314.0	1.9	4	WKL	D
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/14/2013 2:44:00 PM	Calcium	Total	=	117	mg/L	EPA 200.7	0.0156	0.1	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/14/2013 2:44:00 PM	Magnesium	Total	=	86	mg/L	EPA 200.7	0.0121	0.1	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/22/2013 10:05:00 AM	Alkalinity as CaCO3	n/a	=	160	mg/L	SM 2320 B	0.56	10	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/14/2013 2:00:00 PM	BOD	n/a	=	6.1	mg/L	SM 5210 B	0.1	2	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/20/2013 10:56:00 PM	COD	n/a	=	55	mg/L	EPA 410.4	0.73	5	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/14/2013 2:44:00 PM	Hardness as CaCO3	Total	=	645	mg/L	EPA 200.7	0.0885	0.662	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/9/2013 8:43:00 PM	MBAS	n/a	=	0.23	mg/L	SM 5540 C	0.076	0.2	WKL	D
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	4/3/2013 4:42:00 PM	Phenolics	n/a	=	0.051	mg/L	EPA 420.4	0.0042	0.01	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/18/2013 3:18:00 PM	Specific Conductance	n/a	=	4000	µmhos/cm	SM 2510 B	0.94	8	WKL	D
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/12/2013 9:45:00 PM	Total Dissolved Solids	n/a	=	2200	mg/L	SM 2540 C	4	10	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/14/2013 2:56:00 PM	Total Organic Carbon	n/a	=	6	mg/L	SM 5310 C	0.036	1.2	WKL	D
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/12/2013 8:00:00 PM	Total Suspended Solids	n/a	=	120	mg/L	SM 2540 D	5	5	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/9/2013 6:55:00 PM	Turbidity	n/a	=	17	NTU	EPA 180.1	0.024	0.1	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/12/2013 8:00:00 PM	Volatile Suspended Solids	n/a	=	34	mg/L	EPA 160.4	3.1	5	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/22/2013 8:54:00 AM	Aluminum	Dissolved	DNQ	4.1	µg/L	EPA 200.8	0.61	5	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/22/2013 10:50:00 AM	Aluminum	Total	=	1100	µg/L	EPA 200.8	2.1	5	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/22/2013 8:54:00 AM	Antimony	Dissolved	DNQ	0.35	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/22/2013 10:50:00 AM	Antimony	Total	=	0.57	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/22/2013 8:54:00 AM	Arsenic	Dissolved	=	0.57	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/22/2013 10:50:00 AM	Arsenic	Total	=	2.1	µg/L	EPA 200.8	0.13	0.4	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/22/2013 8:54:00 AM	Beryllium	Dissolved	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/22/2013 10:50:00 AM	Beryllium	Total	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/22/2013 8:54:00 AM	Cadmium	Dissolved	DNQ	0.03	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/22/2013 10:50:00 AM	Cadmium	Total	=	0.24	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/22/2013 8:54:00 AM	Chromium	Dissolved	DNQ	0.08	µg/L	EPA 200.8	0.074	0.2	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/22/2013 10:50:00 AM	Chromium	Total	=	2.6	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/13/2013 3:51:00 PM	Chromium VI	n/a	DNQ	0.098	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/22/2013 8:54:00 AM	Copper	Dissolved	=	0.97	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/22/2013 10:50:00 AM	Copper	Total	=	7.8	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/14/2013 2:42:00 PM	Iron	Dissolved	=	30	µg/L	EPA 200.7	1.1	10	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/14/2013 2:44:00 PM	Iron	Total	=	5000	µg/L	EPA 200.7	1.1	10	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/22/2013 8:54:00 AM	Lead	Dissolved	<	0.011	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/22/2013 10:50:00 AM	Lead	Total	=	7.5	µg/L	EPA 200.8	0.035	0.2	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/27/2013 4:49:00 PM	Mercury	Dissolved	<	3.9	ng/L	EPA 245.1	3.9	50	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	4/3/2013 2:38:00 PM	Mercury	Total	=	76	ng/L	EPA 245.1	3.9	50	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/22/2013 8:54:00 AM	Nickel	Dissolved	=	1.7	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/22/2013 10:50:00 AM	Nickel	Total	=	3.7	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/22/2013 8:54:00 AM	Selenium	Dissolved	<	0.28	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/22/2013 10:50:00 AM	Selenium	Total	DNQ	0.35	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/22/2013 8:54:00 AM	Silver	Dissolved	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/22/2013 10:50:00 AM	Silver	Total	DNQ	0.03	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/22/2013 8:54:00 AM	Thallium	Dissolved	<	0.009	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/22/2013 10:50:00 AM	Thallium	Total	<	0.034	µg/L	EPA 200.8	0.034	0.2	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/22/2013 8:54:00 AM	Zinc	Dissolved	=	6	µg/L	EPA 200.8	1.1	5	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/22/2013 10:50:00 AM	Zinc	Total	=	48	µg/L	EPA 200.8	1.1	5	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/26/2013 2:07:00 PM	Ammonia as N	n/a	=	0.41	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/11/2013 5:39:00 PM	Nitrate + Nitrite as N	n/a	=	0.25	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	4/4/2013 7:58:00 PM	Phosphorus as P	Dissolved	=	0.064	mg/L	EPA 365.1	0.0014	0.01	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	4/4/2013 8:29:00 PM	Phosphorus as P	Total	=	0.44	mg/L	EPA 365.1	0.0056	0.04	WKL	D
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/21/2013 1:25:00 PM	TKN	n/a	=	1.7	mg/L	EPA 351.2	0.074	0.1	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/19/2013 5:16:00 AM	1,2,4-Trichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/19/2013 5:16:00 AM	1,2-Dichlorobenzene	n/a	<	0.57	µg/L	EPA 625	0.57	1	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/19/2013 5:16:00 AM	1,2-Diphenylhydrazine	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/19/2013 5:16:00 AM	1,3-Dichlorobenzene	n/a	<	0.53	µg/L	EPA 625	0.53	1	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/19/2013 5:16:00 AM	1,4-Dichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	4/10/2013 6:22:00 PM	1-Methylnaphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	4/11/2013 8:11:00 AM	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	4/11/2013 8:11:00 AM	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	4/11/2013 8:11:00 AM	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	4/11/2013 8:11:00 AM	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	4/11/2013 8:11:00 AM	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/19/2013 5:16:00 AM	2,4-Dinitrotoluene	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/19/2013 5:16:00 AM	2,6-Dinitrotoluene	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/19/2013 5:16:00 AM	2-Chloronaphthalene	n/a	<	0.45	µg/L	EPA 625	0.45	1	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	4/11/2013 8:11:00 AM	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	4/10/2013 6:22:00 PM	2-Methylnaphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	4/11/2013 8:11:00 AM	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	4/11/2013 8:11:00 AM	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/19/2013 5:16:00 AM	3,3'-Dichlorobenzidine	n/a	<	1.2	µg/L	EPA 625	1.2	5	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	4/11/2013 8:11:00 AM	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	4/11/2013 8:11:00 AM	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/19/2013 5:16:00 AM	4-Bromophenyl phenyl ether	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	4/11/2013 8:11:00 AM	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/19/2013 5:16:00 AM	4-Chlorophenyl phenyl ether	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	4/11/2013 8:11:00 AM	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	4/10/2013 6:22:00 PM	Acenaphthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	4/10/2013 6:22:00 PM	Acenaphthylene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	4/10/2013 6:22:00 PM	Anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	4/10/2013 6:22:00 PM	Benz(a)anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/19/2013 5:16:00 AM	Benzidine	n/a	<	3.7	µg/L	EPA 625	3.7	10	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	4/6/2013 1:29:00 AM	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	4/10/2013 6:22:00 PM	Benzo(b)fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	4/10/2013 6:22:00 PM	Benzo(g,h,i)perylene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	4/10/2013 6:22:00 PM	Benzo(k)fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/19/2013 5:16:00 AM	Bis(2-chloroethoxy)methane	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/19/2013 5:16:00 AM	Bis(2-chloroethyl)ether	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/19/2013 5:16:00 AM	Bis(2-chloroisopropyl)ether	n/a	<	0.38	µg/L	EPA 625	0.38	1	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	4/6/2013 1:29:00 AM	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	4/6/2013 1:29:00 AM	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/19/2013 5:16:00 AM	Butyl benzyl phthalate	n/a	DNQ	0.63	µg/L	EPA 625	0.18	1	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	4/10/2013 6:22:00 PM	Chrysene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	4/10/2013 6:22:00 PM	Dibenz(a,h)anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/19/2013 5:16:00 AM	Diethyl phthalate	n/a	DNQ	0.54	µg/L	EPA 625	0.15	1	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/19/2013 5:16:00 AM	Dimethyl phthalate	n/a	=	7.2	µg/L	EPA 625	0.18	1	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/19/2013 5:16:00 AM	Di-n-butylphthalate	n/a	<	0.24	µg/L	EPA 625	0.24	1	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/19/2013 5:16:00 AM	Di-n-octylphthalate	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	4/10/2013 6:22:00 PM	Fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	4/10/2013 6:22:00 PM	Fluorene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/19/2013 5:16:00 AM	Hexachlorobenzene	n/a	<	0.49	µg/L	EPA 625	0.49	1	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/19/2013 5:16:00 AM	Hexachlorobutadiene	n/a	<	0.47	µg/L	EPA 625	0.47	1	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/19/2013 5:16:00 AM	Hexachlorocyclopentadiene	n/a	<	1.5	µg/L	EPA 625	1.5	5	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/19/2013 5:16:00 AM	Hexachloroethane	n/a	<	0.52	µg/L	EPA 625	0.52	1	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	4/10/2013 6:22:00 PM	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/19/2013 5:16:00 AM	Isophorone	n/a	<	0.21	µg/L	EPA 625	0.21	1	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	4/10/2013 6:22:00 PM	Naphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/19/2013 5:16:00 AM	Nitrobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/19/2013 5:16:00 AM	N-Nitrosodimethylamine	n/a	<	0.14	µg/L	EPA 625	0.14	1	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/19/2013 5:16:00 AM	N-Nitrosodi-N-propylamine	n/a	<	0.26	µg/L	EPA 625	0.26	1	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/19/2013 5:16:00 AM	N-Nitrosodiphenylamine	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	4/10/2013 6:22:00 PM	Phenanthrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	4/11/2013 8:11:00 AM	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	4/10/2013 6:22:00 PM	Pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/24/2013 1:16:00 PM	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/24/2013 1:16:00 PM	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/24/2013 1:16:00 PM	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/24/2013 1:16:00 PM	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/24/2013 1:16:00 PM	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/24/2013 1:16:00 PM	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/24/2013 1:16:00 PM	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/22/2013 1:55:00 AM	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/22/2013 1:55:00 AM	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/22/2013 1:55:00 AM	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/22/2013 1:55:00 AM	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/22/2013 1:55:00 AM	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/24/2013 1:16:00 PM	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/24/2013 1:16:00 PM	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/24/2013 1:16:00 PM	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/22/2013 1:55:00 AM	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	4/6/2013 1:29:00 AM	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/24/2013 1:16:00 PM	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/24/2013 1:16:00 PM	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/24/2013 1:16:00 PM	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	4/6/2013 1:29:00 AM	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/23/2013 12:41:00 AM	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	LB-LCSR
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/22/2013 1:55:00 AM	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/24/2013 1:16:00 PM	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/23/2013 12:41:00 AM	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	4/6/2013 1:29:00 AM	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	4/6/2013 1:29:00 AM	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	4/6/2013 1:29:00 AM	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/24/2013 1:16:00 PM	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	4/6/2013 1:29:00 AM	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/23/2013 12:41:00 AM	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/23/2013 12:41:00 AM	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	4/6/2013 1:29:00 AM	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/22/2013 1:55:00 AM	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/22/2013 1:55:00 AM	DCPA (Dacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/24/2013 1:16:00 PM	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/23/2013 12:41:00 AM	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/23/2013 12:41:00 AM	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/23/2013 12:41:00 AM	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/22/2013 1:55:00 AM	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/22/2013 1:55:00 AM	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/23/2013 12:41:00 AM	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/24/2013 1:16:00 PM	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/23/2013 12:41:00 AM	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/22/2013 1:55:00 AM	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	4/6/2013 1:29:00 AM	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/23/2013 12:41:00 AM	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/24/2013 1:16:00 PM	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/24/2013 1:16:00 PM	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/24/2013 1:16:00 PM	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/24/2013 1:16:00 PM	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/24/2013 1:16:00 PM	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	4/6/2013 1:29:00 AM	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/23/2013 12:41:00 AM	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/23/2013 12:41:00 AM	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/23/2013 12:41:00 AM	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/23/2013 12:41:00 AM	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/24/2013 1:16:00 PM	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/24/2013 1:16:00 PM	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/12/2013 4:53:00 PM	Glyphosate	n/a	DNQ	4.2	µg/L	EPA 547	1.8	5	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/24/2013 1:16:00 PM	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/24/2013 1:16:00 PM	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/23/2013 12:41:00 AM	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/23/2013 12:41:00 AM	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/24/2013 1:16:00 PM	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/23/2013 12:41:00 AM	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	4/6/2013 1:29:00 AM	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	4/6/2013 1:29:00 AM	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/23/2013 12:41:00 AM	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	4/6/2013 1:29:00 AM	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/23/2013 12:41:00 AM	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/22/2013 1:55:00 AM	Pentachlorophenol	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.2	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/23/2013 12:41:00 AM	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/22/2013 1:55:00 AM	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	4/6/2013 1:29:00 AM	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	4/6/2013 1:29:00 AM	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/23/2013 12:41:00 AM	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	4/6/2013 1:29:00 AM	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/23/2013 12:41:00 AM	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	LB-LCSR
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	4/6/2013 1:29:00 AM	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	4/6/2013 1:29:00 AM	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/23/2013 12:41:00 AM	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/24/2013 1:16:00 PM	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	3/23/2013 12:41:00 AM	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-HUE	2012/13-4	Wet	3/8/2013 11:18:00 AM	4/6/2013 1:29:00 AM	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/13/2013 9:13:00 PM	Chloride	n/a	=	3500	mg/L	EPA 300.0	10	50	WKL	D
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/13/2013 9:13:00 PM	Fluoride	n/a	=	0.51	mg/L	EPA 300.0	0.04	0.2	WKL	D
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/14/2013 3:55:00 AM	Perchlorate	n/a	<	4.8	µg/L	EPA 314.0	4.8	10	WKL	D
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/1/2013 8:09:00 AM	E. Coli	n/a	=	4884	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/4/2013 1:03:00 PM	Fecal Coliform	n/a	=	9000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/1/2013 8:09:00 AM	Total Coliform	n/a	=	88000	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/14/2013 3:39:00 PM	Calcium	Total	=	255	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/14/2013 3:39:00 PM	Magnesium	Total	=	235	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/6/2013 9:42:00 PM	Alkalinity as CaCO3	n/a	=	390	mg/L	SM 2320 B	0.56	10	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/6/2013 5:46:00 PM	BOD	n/a	=	2.2	mg/L	SM 5210 B	0.1	2	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/8/2013 10:29:00 PM	COD	n/a	=	36	mg/L	EPA 410.4	0.73	5	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	4/30/2013 10:40:00 AM	Conductivity	n/a	=	9280	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/13/2013 1:52:00 PM	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	4/30/2013 10:40:00 AM	DO	n/a	=	57	%	Field Meter	-88	0.1	Field Crew	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	4/30/2013 10:40:00 AM	DO	n/a	=	5.13	mg/L	Field Meter	-88	0.3	Field Crew	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/14/2013 3:39:00 PM	Hardness as CaCO3	Total	=	1600	mg/L	EPA 200.7	0.0894	0.662	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/1/2013 6:30:00 PM	MBAS	n/a	=	0.078	mg/L	SM 5540 C	0.023	0.06	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	4/30/2013 10:40:00 AM	pH	n/a	=	7.48	pH Units	Field Meter	-88	0.01	Field Crew	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/10/2013 4:05:00 PM	Phenolics	n/a	=	0.061	mg/L	EPA 420.4	0.0042	0.01	WKL	LB-MSR
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	4/30/2013 10:40:00 AM	Salinity	n/a	=	6200	mg/L	Field Meter	-88	100	Field Crew	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	4/30/2013 10:40:00 AM	Specific Conductance	n/a	=	10820	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/6/2013 6:04:00 PM	Specific Conductance	n/a	=	13000	µmhos/cm	SM 2510 B	2.3	20	WKL	D
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	4/30/2013 10:40:00 AM	Temperature	n/a	=	17.7	°C	Field Meter	-88	0.1	Field Crew	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/1/2013 7:50:00 PM	Total Dissolved Solids	n/a	=	6400	mg/L	SM 2540 C	4	10	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/10/2013 1:46:00 PM	Total Organic Carbon	n/a	=	2.7	mg/L	SM 5310 C	0.018	0.6	WKL	D
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/1/2013 6:05:00 PM	Total Suspended Solids	n/a	=	11	mg/L	SM 2540 D	5	5	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/1/2013 6:12:00 PM	Turbidity	n/a	=	19	NTU	EPA 180.1	0.024	0.1	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/1/2013 6:05:00 PM	Volatile Suspended Solids	n/a	<	3.1	mg/L	EPA 160.4	3.1	5	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/3/2013 2:51:00 PM	Oil and Grease	n/a	<	1.3	mg/L	EPA 1664A	1.3	5	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/3/2013 2:51:00 PM	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/14/2013 2:20:00 PM	Aluminum	Dissolved	DNQ	2.3	µg/L	EPA 200.8	2.1	5	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/14/2013 2:28:00 PM	Aluminum	Total	=	55	µg/L	EPA 200.8	2.1	5	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/14/2013 2:20:00 PM	Antimony	Dissolved	DNQ	0.06	µg/L	EPA 200.8	0.034	0.5	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/14/2013 2:28:00 PM	Antimony	Total	DNQ	0.06	µg/L	EPA 200.8	0.034	0.5	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/14/2013 2:20:00 PM	Arsenic	Dissolved	=	1.4	µg/L	EPA 200.8	0.13	0.4	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/14/2013 2:28:00 PM	Arsenic	Total	=	2	µg/L	EPA 200.8	0.13	0.4	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/14/2013 2:28:00 PM	Barium	Total	=	64	µg/L	EPA 200.8	0.097	0.5	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/14/2013 2:20:00 PM	Beryllium	Dissolved	<	0.015	µg/L	EPA 200.8	0.015	0.1	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/14/2013 2:52:00 PM	Beryllium	Total	<	0.015	µg/L	EPA 200.8	0.015	0.1	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/14/2013 2:20:00 PM	Cadmium	Dissolved	DNQ	0.08	µg/L	EPA 200.8	0.017	0.1	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/14/2013 2:28:00 PM	Cadmium	Total	=	0.1	µg/L	EPA 200.8	0.017	0.1	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/14/2013 2:20:00 PM	Chromium	Dissolved	DNQ	0.05	µg/L	EPA 200.8	0.024	0.2	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/14/2013 2:28:00 PM	Chromium	Total	DNQ	0.16	µg/L	EPA 200.8	0.024	0.2	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/3/2013 5:03:00 PM	Chromium VI	n/a	<	0.0059	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/14/2013 2:20:00 PM	Copper	Dissolved	=	0.5	µg/L	EPA 200.8	0.036	0.5	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/14/2013 2:28:00 PM	Copper	Total	DNQ	0.43	µg/L	EPA 200.8	0.036	0.5	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/14/2013 3:37:00 PM	Iron	Dissolved	=	18	µg/L	EPA 200.7	1.1	10	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/14/2013 3:39:00 PM	Iron	Total	=	1600	µg/L	EPA 200.7	1.1	10	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/14/2013 2:20:00 PM	Lead	Dissolved	DNQ	0.06	µg/L	EPA 200.8	0.024	0.2	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/14/2013 2:28:00 PM	Lead	Total	=	0.39	µg/L	EPA 200.8	0.024	0.2	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/8/2013 3:30:00 PM	Mercury	Dissolved	<	3.9	ng/L	EPA 245.1	3.9	50	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/8/2013 3:30:00 PM	Mercury	Total	<	3.9	ng/L	EPA 245.1	3.9	50	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/14/2013 2:20:00 PM	Nickel	Dissolved	=	1.5	µg/L	EPA 200.8	0.091	0.8	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/14/2013 2:28:00 PM	Nickel	Total	=	1.6	µg/L	EPA 200.8	0.091	0.8	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/15/2013 6:50:00 PM	Selenium	Dissolved	DNQ	0.22	µg/L	EPA 200.8	0.081	0.4	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/15/2013 6:54:00 PM	Selenium	Total	DNQ	0.26	µg/L	EPA 200.8	0.081	0.4	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/14/2013 2:20:00 PM	Silver	Dissolved	DNQ	0.02	µg/L	EPA 200.8	0.012	0.2	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/14/2013 2:28:00 PM	Silver	Total	<	0.012	µg/L	EPA 200.8	0.012	0.2	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/14/2013 2:20:00 PM	Thallium	Dissolved	<	0.034	µg/L	EPA 200.8	0.034	0.2	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/14/2013 2:28:00 PM	Thallium	Total	<	0.034	µg/L	EPA 200.8	0.034	0.2	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/14/2013 2:20:00 PM	Zinc	Dissolved	DNQ	2.1	µg/L	EPA 200.8	0.5	5	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/14/2013 2:28:00 PM	Zinc	Total	DNQ	2.2	µg/L	EPA 200.8	0.5	5	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/9/2013 4:19:00 PM	Ammonia as N	n/a	=	0.7	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/9/2013 2:55:00 PM	Nitrate + Nitrite as N	n/a	=	0.16	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/20/2013 7:36:00 PM	Phosphorus as P	Dissolved	=	0.21	mg/L	EPA 365.1	0.007	0.05	WKL	D
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/24/2013 6:41:00 PM	Phosphorus as P	Total	=	0.46	mg/L	EPA 365.1	0.0056	0.04	WKL	D
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/20/2013 12:34:00 PM	TKN	n/a	=	1.5	mg/L	EPA 351.2	0.05	0.1	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/15/2013 7:31:00 PM	1,2,4-Trichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/15/2013 7:31:00 PM	1,2-Dichlorobenzene	n/a	<	0.57	µg/L	EPA 625	0.57	1	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/15/2013 7:31:00 PM	1,2-Diphenylhydrazine	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/15/2013 7:31:00 PM	1,3-Dichlorobenzene	n/a	<	0.53	µg/L	EPA 625	0.53	1	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/15/2013 7:31:00 PM	1,4-Dichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/11/2013 11:57:00 AM	1-Methylnaphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/10/2013 10:04:00 PM	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/10/2013 10:04:00 PM	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/10/2013 10:04:00 PM	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/10/2013 10:04:00 PM	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/10/2013 10:04:00 PM	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/15/2013 7:31:00 PM	2,4-Dinitrotoluene	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/15/2013 7:31:00 PM	2,6-Dinitrotoluene	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/1/2013 4:42:00 PM	2-Chloroethyl vinyl ether	n/a	<	0.28	µg/L	EPA 624	0.28	1	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/15/2013 7:31:00 PM	2-Chloronaphthalene	n/a	<	0.45	µg/L	EPA 625	0.45	1	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/10/2013 10:04:00 PM	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/11/2013 11:57:00 AM	2-Methylnaphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/10/2013 10:04:00 PM	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/10/2013 10:04:00 PM	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/15/2013 7:31:00 PM	3,3'-Dichlorobenzidine	n/a	<	1.2	µg/L	EPA 625	1.2	5	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/10/2013 10:04:00 PM	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/10/2013 10:04:00 PM	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/15/2013 7:31:00 PM	4-Bromophenyl phenyl ether	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	LB-LCSR
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/10/2013 10:04:00 PM	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/15/2013 7:31:00 PM	4-Chlorophenyl phenyl ether	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/10/2013 10:04:00 PM	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/11/2013 11:57:00 AM	Acenaphthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/11/2013 11:57:00 AM	Acenaphthylene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/11/2013 11:57:00 AM	Anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/11/2013 11:57:00 AM	Benz(a)anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/15/2013 7:31:00 PM	Benzidine	n/a	<	3.7	µg/L	EPA 625	3.7	10	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/3/2013 5:37:00 PM	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/11/2013 11:57:00 AM	Benzo(b)fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/11/2013 11:57:00 AM	Benzo(g,h,i)perylene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/11/2013 11:57:00 AM	Benzo(k)fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/15/2013 7:31:00 PM	Bis(2-chloroethoxy)methane	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/15/2013 7:31:00 PM	Bis(2-chloroethyl)ether	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/15/2013 7:31:00 PM	Bis(2-chloroisopropyl)ether	n/a	<	0.38	µg/L	EPA 625	0.38	1	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/3/2013 5:37:00 PM	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/3/2013 5:37:00 PM	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/15/2013 7:31:00 PM	Butyl benzyl phthalate	n/a	DNQ	0.48	µg/L	EPA 625	0.18	1	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/11/2013 11:57:00 AM	Chrysene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/11/2013 11:57:00 AM	Dibenz(a,h)anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/15/2013 7:31:00 PM	Diethyl phthalate	n/a	DNQ	0.39	µg/L	EPA 625	0.15	1	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/15/2013 7:31:00 PM	Dimethyl phthalate	n/a	=	7.1	µg/L	EPA 625	0.18	1	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/15/2013 7:31:00 PM	Di-n-butylphthalate	n/a	<	0.24	µg/L	EPA 625	0.24	1	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/15/2013 7:31:00 PM	Di-n-octylphthalate	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/11/2013 11:57:00 AM	Fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/11/2013 11:57:00 AM	Fluorene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/15/2013 7:31:00 PM	Hexachlorobenzene	n/a	<	0.49	µg/L	EPA 625	0.49	1	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/15/2013 7:31:00 PM	Hexachlorobutadiene	n/a	<	0.47	µg/L	EPA 625	0.47	1	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/15/2013 7:31:00 PM	Hexachlorocyclopentadiene	n/a	<	1.5	µg/L	EPA 625	1.5	5	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/15/2013 7:31:00 PM	Hexachloroethane	n/a	<	0.52	µg/L	EPA 625	0.52	1	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/11/2013 11:57:00 AM	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/15/2013 7:31:00 PM	Isophorone	n/a	<	0.21	µg/L	EPA 625	0.21	1	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/1/2013 4:42:00 PM	Methyl tert-butyl ether (MTBE)	n/a	<	0.25	µg/L	EPA 624	0.25	1	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/11/2013 11:57:00 AM	Naphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/15/2013 7:31:00 PM	Nitrobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/15/2013 7:31:00 PM	N-Nitrosodimethylamine	n/a	<	0.14	µg/L	EPA 625	0.14	1	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/15/2013 7:31:00 PM	N-Nitrosodi-N-propylamine	n/a	<	0.26	µg/L	EPA 625	0.26	1	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/15/2013 7:31:00 PM	N-Nitrosodiphenylamine	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/11/2013 11:57:00 AM	Phenanthrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/10/2013 10:04:00 PM	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/11/2013 11:57:00 AM	Pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/11/2013 3:40:00 AM	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/11/2013 3:40:00 AM	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/11/2013 3:40:00 AM	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/11/2013 3:40:00 AM	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/11/2013 3:40:00 AM	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/11/2013 3:40:00 AM	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/11/2013 3:40:00 AM	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/9/2013 12:52:00 AM	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/9/2013 12:52:00 AM	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/9/2013 12:52:00 AM	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/9/2013 12:52:00 AM	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/9/2013 12:52:00 AM	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/11/2013 3:40:00 AM	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/11/2013 3:40:00 AM	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/11/2013 3:40:00 AM	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/9/2013 12:52:00 AM	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/3/2013 5:37:00 PM	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/11/2013 3:40:00 AM	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/11/2013 3:40:00 AM	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/11/2013 3:40:00 AM	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/3/2013 5:37:00 PM	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/14/2013 10:16:00 PM	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/9/2013 12:52:00 AM	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/11/2013 3:40:00 AM	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/14/2013 10:16:00 PM	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/3/2013 5:37:00 PM	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/3/2013 5:37:00 PM	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/3/2013 5:37:00 PM	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/11/2013 3:40:00 AM	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/3/2013 5:37:00 PM	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/14/2013 10:16:00 PM	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/14/2013 10:16:00 PM	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/3/2013 5:37:00 PM	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/9/2013 12:52:00 AM	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/9/2013 12:52:00 AM	DCPA (Dacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/11/2013 3:40:00 AM	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/14/2013 10:16:00 PM	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/14/2013 10:16:00 PM	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/14/2013 10:16:00 PM	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/9/2013 12:52:00 AM	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/9/2013 12:52:00 AM	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/14/2013 10:16:00 PM	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/11/2013 3:40:00 AM	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/14/2013 10:16:00 PM	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/9/2013 12:52:00 AM	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/3/2013 5:37:00 PM	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/14/2013 10:16:00 PM	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/11/2013 3:40:00 AM	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/11/2013 3:40:00 AM	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/11/2013 3:40:00 AM	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/11/2013 3:40:00 AM	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/11/2013 3:40:00 AM	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/3/2013 5:37:00 PM	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/14/2013 10:16:00 PM	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/14/2013 10:16:00 PM	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/14/2013 10:16:00 PM	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/14/2013 10:16:00 PM	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/11/2013 3:40:00 AM	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/11/2013 3:40:00 AM	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/1/2013 3:25:00 PM	Glyphosate	n/a	<	1.8	µg/L	EPA 547	1.8	5	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/11/2013 3:40:00 AM	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/11/2013 3:40:00 AM	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/14/2013 10:16:00 PM	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/14/2013 10:16:00 PM	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/11/2013 3:40:00 AM	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/14/2013 10:16:00 PM	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/3/2013 5:37:00 PM	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/3/2013 5:37:00 PM	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/14/2013 10:16:00 PM	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/3/2013 5:37:00 PM	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/14/2013 10:16:00 PM	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/9/2013 12:52:00 AM	Pentachlorophenol	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.2	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/14/2013 10:16:00 PM	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/9/2013 12:52:00 AM	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/3/2013 5:37:00 PM	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/3/2013 5:37:00 PM	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/14/2013 10:16:00 PM	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/3/2013 5:37:00 PM	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/14/2013 10:16:00 PM	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/3/2013 5:37:00 PM	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/3/2013 5:37:00 PM	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/14/2013 10:16:00 PM	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/11/2013 3:40:00 AM	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/14/2013 10:16:00 PM	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-HUE	2012/13-5	Dry	4/30/2013 10:40:00 AM	5/3/2013 5:37:00 PM	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-MEI	2012/13-2	Wet	11/17/2012 9:15:00 AM	11/18/2012 7:15:00 AM	E. Coli	n/a	=	15531	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-MEI	2012/13-2	Wet	11/17/2012 9:15:00 AM	11/20/2012 1:20:00 PM	Fecal Coliform	n/a	=	22000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-MEI	2012/13-2	Wet	11/17/2012 9:15:00 AM	11/18/2012 7:15:00 AM	Total Coliform	n/a	=	579240	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	
MO-MEI	2012/13-2	Wet	11/17/2012 9:15:00 AM	11/17/2012 9:15:00 AM	Conductivity	n/a	=	81.7	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-MEI	2012/13-2	Wet	11/17/2012 9:15:00 AM	12/6/2012 9:30:00 PM	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-MEI	2012/13-2	Wet	11/17/2012 9:15:00 AM	11/17/2012 9:15:00 AM	DO	n/a	=	10.42	mg/L	Field Meter	-88	0.3	Field Crew	
MO-MEI	2012/13-2	Wet	11/17/2012 9:15:00 AM	11/17/2012 9:15:00 AM	DO	n/a	=	102.3	%	Field Meter	-88	0.1	Field Crew	
MO-MEI	2012/13-2	Wet	11/17/2012 9:15:00 AM	11/17/2012 9:15:00 AM	pH	n/a	=	7.64	pH Units	Field Meter	-88	0.01	Field Crew	
MO-MEI	2012/13-2	Wet	11/17/2012 9:15:00 AM	11/17/2012 9:15:00 AM	Salinity	n/a	=	100	mg/L	Field Meter	-88	100	Field Crew	
MO-MEI	2012/13-2	Wet	11/17/2012 9:15:00 AM	11/17/2012 9:15:00 AM	Specific Conductance	n/a	=	102.4	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-MEI	2012/13-2	Wet	11/17/2012 9:15:00 AM	11/17/2012 9:15:00 AM	Temperature	n/a	=	14.4	°C	Field Meter	-88	0.1	Field Crew	
MO-MEI	2012/13-2	Wet	11/17/2012 9:15:00 AM	11/27/2012 4:55:00 PM	Oil and Grease	n/a	DNQ	1.6	mg/L	EPA 1664A	1.3	5	WKL	
MO-MEI	2012/13-2	Wet	11/17/2012 9:15:00 AM	11/27/2012 4:55:00 PM	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-MEI	2012/13-2	Wet	11/17/2012 9:15:00 AM	11/27/2012 6:47:00 PM	2-Chloroethyl vinyl ether	n/a	<	0.61	µg/L	EPA 524.2	0.61	1	WKL	
MO-MEI	2012/13-2	Wet	11/17/2012 9:15:00 AM	11/27/2012 6:47:00 PM	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 12:29:00 PM	Chloride	n/a	=	9.8	mg/L	EPA 300.0	0.1	0.5	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 12:29:00 PM	Fluoride	n/a	=	0.15	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/27/2012 6:30:00 PM	Perchlorate	n/a	<	1.9	µg/L	EPA 314.0	1.9	4	WKL	D, DF
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 12:14:00 PM	Calcium	Total	=	39.1	mg/L	EPA 200.7	0.0156	0.1	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 12:14:00 PM	Magnesium	Total	=	13.3	mg/L	EPA 200.7	0.0121	0.1	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/30/2012 4:45:00 PM	Alkalinity as CaCO3	n/a	=	160	mg/L	SM 2320 B	0.56	2	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/24/2012 12:30:00 PM	BOD	n/a	=	39	mg/L	SM 5210 B	0.1	2	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/27/2012 9:06:00 AM	COD	n/a	=	430	mg/L	EPA 410.4	0.73	5	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 12:14:00 PM	Hardness as CaCO3	Total	=	152	mg/L	EPA 200.7	0.0885	0.662	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/19/2012 9:46:00 PM	MBAS	n/a	=	0.27	mg/L	SM 5540 C	0.076	0.2	WKL	D
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/30/2012 2:54:00 PM	Phenolics	n/a	=	0.02	mg/L	EPA 420.4	0.0042	0.01	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/30/2012 11:00:00 AM	Specific Conductance	n/a	=	350	µmhos/cm	SM 2510 B	0.23	2	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/21/2012 11:58:00 AM	Total Dissolved Solids	n/a	=	180	mg/L	SM 2540 C	4	10	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/26/2012 10:48:00 AM	Total Organic Carbon	n/a	=	41	mg/L	SM 5310 C	0.18	6	WKL	D
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/20/2012 7:20:00 PM	Total Suspended Solids	n/a	=	700	mg/L	SM 2540 D	5	5	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/19/2012 10:13:00 PM	Turbidity	n/a	=	240	NTU	EPA 180.1	0.024	0.1	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/20/2012 7:20:00 PM	Volatile Suspended Solids	n/a	=	260	mg/L	EPA 160.4	3.1	5	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/3/2012 5:27:00 PM	Aluminum	Dissolved	=	37	µg/L	EPA 200.8	0.61	5	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/4/2012 2:54:00 PM	Aluminum	Total	=	10000	µg/L	EPA 200.8	3	25	WKL	D
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/3/2012 5:27:00 PM	Antimony	Dissolved	DNQ	0.45	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/3/2012 5:35:00 PM	Antimony	Total	=	0.98	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/3/2012 5:27:00 PM	Arsenic	Dissolved	=	1.4	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/3/2012 5:35:00 PM	Arsenic	Total	=	3.5	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/3/2012 5:27:00 PM	Beryllium	Dissolved	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/3/2012 5:35:00 PM	Beryllium	Total	=	0.47	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/3/2012 5:27:00 PM	Cadmium	Dissolved	DNQ	0.02	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/3/2012 5:35:00 PM	Cadmium	Total	=	0.96	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/3/2012 5:27:00 PM	Chromium	Dissolved	=	0.48	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/3/2012 5:35:00 PM	Chromium	Total	=	21	µg/L	EPA 200.8	0.074	0.2	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/3/2012 7:33:00 PM	Chromium VI	n/a	DNQ	0.18	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/3/2012 5:27:00 PM	Copper	Dissolved	=	7.6	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/3/2012 5:35:00 PM	Copper	Total	=	73	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 12:11:00 PM	Iron	Dissolved	=	300	µg/L	EPA 200.7	1.1	10	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 12:14:00 PM	Iron	Total	=	15000	µg/L	EPA 200.7	1.1	10	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/3/2012 5:27:00 PM	Lead	Dissolved	=	0.77	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/3/2012 5:35:00 PM	Lead	Total	=	49	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/11/2012 3:45:00 PM	Mercury	Dissolved	DNQ	24	ng/L	EPA 245.1	3.9	50	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/11/2012 3:45:00 PM	Mercury	Total	=	80	ng/L	EPA 245.1	3.9	50	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/3/2012 5:27:00 PM	Nickel	Dissolved	=	4.3	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/3/2012 5:35:00 PM	Nickel	Total	=	36	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/3/2012 5:27:00 PM	Selenium	Dissolved	<	0.28	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/3/2012 5:35:00 PM	Selenium	Total	=	0.46	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/3/2012 5:27:00 PM	Silver	Dissolved	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/3/2012 5:35:00 PM	Silver	Total	DNQ	0.17	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/3/2012 5:27:00 PM	Thallium	Dissolved	<	0.009	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/3/2012 5:35:00 PM	Thallium	Total	=	0.2	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/3/2012 5:27:00 PM	Zinc	Dissolved	=	7.8	µg/L	EPA 200.8	1.1	5	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/3/2012 5:35:00 PM	Zinc	Total	=	320	µg/L	EPA 200.8	1.1	5	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/5/2012 5:40:00 PM	Ammonia as N	n/a	=	0.97	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/19/2012 6:53:00 PM	Nitrate + Nitrite as N	n/a	=	1.3	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/14/2012 12:37:00 PM	Phosphorus as P	Dissolved	=	0.71	mg/L	EPA 365.1	0.007	0.05	WKL	DG
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/14/2012 12:09:00 PM	Phosphorus as P	Total	=	1.9	mg/L	EPA 365.1	0.028	0.2	WKL	D, DG
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 4:18:00 PM	TKN	n/a	=	8	mg/L	EPA 351.2	0.37	0.5	WKL	D
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 1:05:00 AM	1,2,4-Trichlorobenzene	n/a	<	2.8	µg/L	EPA 625	2.8	5	WKL	D, DF
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 1:05:00 AM	1,2-Dichlorobenzene	n/a	<	2.8	µg/L	EPA 625	2.8	5	WKL	D, DF
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 1:05:00 AM	1,2-Diphenylhydrazine	n/a	<	1.2	µg/L	EPA 625	1.2	5	WKL	D, DF
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 1:05:00 AM	1,3-Dichlorobenzene	n/a	<	2.6	µg/L	EPA 625	2.6	5	WKL	D, DF
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 1:05:00 AM	1,4-Dichlorobenzene	n/a	<	2.8	µg/L	EPA 625	2.8	5	WKL	D, DF
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/29/2012 2:25:00 AM	1-Methylnaphthalene	n/a	<	0.4	µg/L	EPA 8270Cm	0.4	0.4	WKL	D, DF
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/29/2012 7:05:00 PM	2,4,5-Trichlorophenol	n/a	<	1.2	µg/L	EPA 8270Cm	1.2	4	WKL	D, DF
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/29/2012 7:05:00 PM	2,4,6-Trichlorophenol	n/a	<	1.2	µg/L	EPA 8270Cm	1.2	4	WKL	D, DF, EUM
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/29/2012 7:05:00 PM	2,4-Dichlorophenol	n/a	<	2	µg/L	EPA 8270Cm	2	4	WKL	D, DF
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/29/2012 7:05:00 PM	2,4-Dimethylphenol	n/a	<	4	µg/L	EPA 8270Cm	4	8	WKL	D, DF
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/29/2012 7:05:00 PM	2,4-Dinitrophenol	n/a	<	4	µg/L	EPA 8270Cm	4	8	WKL	D, DF
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 1:05:00 AM	2,4-Dinitrotoluene	n/a	<	0.9	µg/L	EPA 625	0.9	5	WKL	D, DF
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 1:05:00 AM	2,6-Dinitrotoluene	n/a	<	1.4	µg/L	EPA 625	1.4	5	WKL	D, DF
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 1:05:00 AM	2-Chloronaphthalene	n/a	<	2.2	µg/L	EPA 625	2.2	5	WKL	D, DF
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/29/2012 7:05:00 PM	2-Chlorophenol	n/a	<	2.6	µg/L	EPA 8270Cm	2.6	4	WKL	D, DF, EUM
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/29/2012 2:25:00 AM	2-Methylnaphthalene	n/a	<	0.4	µg/L	EPA 8270Cm	0.4	0.4	WKL	D, DF
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/29/2012 7:05:00 PM	2-Methylphenol	n/a	<	1.4	µg/L	EPA 8270Cm	1.4	4	WKL	D, DF
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/29/2012 7:05:00 PM	2-Nitrophenol	n/a	<	2.8	µg/L	EPA 8270Cm	2.8	4	WKL	D, DF
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 1:05:00 AM	3,3'-Dichlorobenzidine	n/a	<	6	µg/L	EPA 625	6	25	WKL	D, DF
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/29/2012 7:05:00 PM	3-/4-Methylphenol	n/a	<	1.2	µg/L	EPA 8270Cm	1.2	4	WKL	D, DF
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/29/2012 7:05:00 PM	4,6-Dinitro-2-methylphenol	n/a	<	0.56	µg/L	EPA 8270Cm	0.56	4	WKL	D, DF
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 1:05:00 AM	4-Bromophenyl phenyl ether	n/a	<	1.8	µg/L	EPA 625	1.8	5	WKL	D, DF
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/29/2012 7:05:00 PM	4-Chloro-3-methylphenol	n/a	<	1.5	µg/L	EPA 8270Cm	1.5	4	WKL	D, DF
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 1:05:00 AM	4-Chlorophenyl phenyl ether	n/a	<	2	µg/L	EPA 625	2	5	WKL	D, DF

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/29/2012 7:05:00 PM	4-Nitrophenol	n/a	<	4	µg/L	EPA 8270Cm	4	8	WKL	D, DF
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/29/2012 2:25:00 AM	Acenaphthene	n/a	<	0.4	µg/L	EPA 8270Cm	0.4	0.4	WKL	D, DF, EUM
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/29/2012 2:25:00 AM	Acenaphthylene	n/a	<	0.4	µg/L	EPA 8270Cm	0.4	0.4	WKL	D, DF
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/29/2012 2:25:00 AM	Anthracene	n/a	<	0.4	µg/L	EPA 8270Cm	0.4	0.4	WKL	D, DF
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/29/2012 2:25:00 AM	Benz(a)anthracene	n/a	<	0.4	µg/L	EPA 8270Cm	0.4	0.4	WKL	D, DF
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 1:05:00 AM	Benzidine	n/a	<	18	µg/L	EPA 625	18	50	WKL	D, DF
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/4/2012 5:27:00 AM	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/29/2012 2:25:00 AM	Benzo(b)fluoranthene	n/a	<	0.4	µg/L	EPA 8270Cm	0.4	0.4	WKL	D, DF
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/29/2012 2:25:00 AM	Benzo(g,h,i)perylene	n/a	<	0.4	µg/L	EPA 8270Cm	0.4	0.4	WKL	D, DF
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/29/2012 2:25:00 AM	Benzo(k)fluoranthene	n/a	<	0.4	µg/L	EPA 8270Cm	0.4	0.4	WKL	D, DF
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 1:05:00 AM	Bis(2-chloroethoxy)methane	n/a	<	1.2	µg/L	EPA 625	1.2	5	WKL	D, DF
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 1:05:00 AM	Bis(2-chloroethyl)ether	n/a	<	1.4	µg/L	EPA 625	1.4	5	WKL	D, DF
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 1:05:00 AM	Bis(2-chloroisopropyl)ether	n/a	<	1.9	µg/L	EPA 625	1.9	5	WKL	D, DF
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/4/2012 5:27:00 AM	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/4/2012 5:27:00 AM	Bis(2-ethylhexyl)phthalate	n/a	DNQ	1.4	µg/L	EPA 525.2	1.1	3	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 1:05:00 AM	Butyl benzyl phthalate	n/a	<	0.9	µg/L	EPA 625	0.9	5	WKL	D, DF
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/29/2012 2:25:00 AM	Chrysene	n/a	<	0.4	µg/L	EPA 8270Cm	0.4	0.4	WKL	D, DF
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/29/2012 2:25:00 AM	Dibenz(a,h)anthracene	n/a	<	0.4	µg/L	EPA 8270Cm	0.4	0.4	WKL	D, DF
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 1:05:00 AM	Diethyl phthalate	n/a	<	0.75	µg/L	EPA 625	0.75	5	WKL	D, DF
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 1:05:00 AM	Dimethyl phthalate	n/a	<	0.9	µg/L	EPA 625	0.9	5	WKL	D, DF
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 1:05:00 AM	Di-n-butylphthalate	n/a	<	1.2	µg/L	EPA 625	1.2	5	WKL	D, DF
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 1:05:00 AM	Di-n-octylphthalate	n/a	<	0.95	µg/L	EPA 625	0.95	5	WKL	D, DF
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/29/2012 2:25:00 AM	Fluoranthene	n/a	<	0.4	µg/L	EPA 8270Cm	0.4	0.4	WKL	D, DF
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/29/2012 2:25:00 AM	Fluorene	n/a	<	0.4	µg/L	EPA 8270Cm	0.4	0.4	WKL	D, DF, EUM
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 1:05:00 AM	Hexachlorobenzene	n/a	<	2.4	µg/L	EPA 625	2.4	5	WKL	D, DF
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 1:05:00 AM	Hexachlorobutadiene	n/a	<	2.4	µg/L	EPA 625	2.4	5	WKL	D, DF
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 1:05:00 AM	Hexachlorocyclopentadiene	n/a	<	7.3	µg/L	EPA 625	7.3	25	WKL	D, DF
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 1:05:00 AM	Hexachloroethane	n/a	<	2.6	µg/L	EPA 625	2.6	5	WKL	D, DF
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/29/2012 2:25:00 AM	Indeno(1,2,3-cd)pyrene	n/a	<	0.4	µg/L	EPA 8270Cm	0.4	0.4	WKL	D, DF
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 1:05:00 AM	Isophorone	n/a	<	1	µg/L	EPA 625	1	5	WKL	D, DF
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/29/2012 2:25:00 AM	Naphthalene	n/a	<	0.4	µg/L	EPA 8270Cm	0.4	0.4	WKL	D, DF
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 1:05:00 AM	Nitrobenzene	n/a	<	1.8	µg/L	EPA 625	1.8	5	WKL	D, DF
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 1:05:00 AM	N-Nitrosodimethylamine	n/a	<	0.7	µg/L	EPA 625	0.7	5	WKL	D, DF, EUM
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 1:05:00 AM	N-Nitrosodi-N-propylamine	n/a	<	1.3	µg/L	EPA 625	1.3	5	WKL	D, DF
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 1:05:00 AM	N-Nitrosodiphenylamine	n/a	<	0.95	µg/L	EPA 625	0.95	5	WKL	D, DF
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/29/2012 2:25:00 AM	Phenanthrene	n/a	<	0.4	µg/L	EPA 8270Cm	0.4	0.4	WKL	D, DF, EUM
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/29/2012 7:05:00 PM	Phenol	n/a	<	1.4	µg/L	EPA 8270Cm	1.4	4	WKL	D, DF
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/29/2012 2:25:00 AM	Pyrene	n/a	<	0.4	µg/L	EPA 8270Cm	0.4	0.4	WKL	D, DF, EUM
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 12:52:00 AM	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 12:52:00 AM	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 12:52:00 AM	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 12:52:00 AM	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 12:52:00 AM	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 12:52:00 AM	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 12:52:00 AM	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/1/2012 11:26:00 PM	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/1/2012 11:26:00 PM	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/1/2012 11:26:00 PM	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/1/2012 11:26:00 PM	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/1/2012 11:26:00 PM	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 12:52:00 AM	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 12:52:00 AM	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 12:52:00 AM	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/1/2012 11:26:00 PM	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/4/2012 5:27:00 AM	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 12:52:00 AM	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 12:52:00 AM	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 12:52:00 AM	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/4/2012 5:27:00 AM	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/13/2012 2:49:00 PM	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	EUM
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/1/2012 11:26:00 PM	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 12:52:00 AM	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/13/2012 2:49:00 PM	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/4/2012 5:27:00 AM	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/4/2012 5:27:00 AM	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/4/2012 5:27:00 AM	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 12:52:00 AM	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/4/2012 5:27:00 AM	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/13/2012 2:49:00 PM	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/13/2012 2:49:00 PM	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/4/2012 5:27:00 AM	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/1/2012 11:26:00 PM	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/1/2012 11:26:00 PM	DCPA (Dacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 12:52:00 AM	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/13/2012 2:49:00 PM	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/13/2012 2:49:00 PM	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/13/2012 2:49:00 PM	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/1/2012 11:26:00 PM	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/1/2012 11:26:00 PM	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/13/2012 2:49:00 PM	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 12:52:00 AM	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/13/2012 2:49:00 PM	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/1/2012 11:26:00 PM	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/4/2012 5:27:00 AM	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/13/2012 2:49:00 PM	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 12:52:00 AM	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 12:52:00 AM	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 12:52:00 AM	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 12:52:00 AM	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 12:52:00 AM	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/4/2012 5:27:00 AM	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/13/2012 2:49:00 PM	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/13/2012 2:49:00 PM	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/13/2012 2:49:00 PM	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/13/2012 2:49:00 PM	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 12:52:00 AM	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 12:52:00 AM	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 6:40:00 PM	Glyphosate	n/a	=	77	µg/L	EPA 547	3.6	10	WKL	D
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 12:52:00 AM	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 12:52:00 AM	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/13/2012 2:49:00 PM	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/13/2012 2:49:00 PM	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 12:52:00 AM	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/13/2012 2:49:00 PM	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/4/2012 5:27:00 AM	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/4/2012 5:27:00 AM	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/13/2012 2:49:00 PM	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/4/2012 5:27:00 AM	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/13/2012 2:49:00 PM	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.1	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/1/2012 11:26:00 PM	Pentachlorophenol	n/a	DNQ	0.16	µg/L	EPA 515.3	0.04	0.2	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/13/2012 2:49:00 PM	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/1/2012 11:26:00 PM	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/4/2012 5:27:00 AM	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/4/2012 5:27:00 AM	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/13/2012 2:49:00 PM	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/4/2012 5:27:00 AM	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/13/2012 2:49:00 PM	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/4/2012 5:27:00 AM	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/4/2012 5:27:00 AM	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/13/2012 2:49:00 PM	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	11/28/2012 12:52:00 AM	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/13/2012 2:49:00 PM	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-MEI	2012/13-2	Wet	11/18/2012 8:30:00 AM	12/4/2012 5:27:00 AM	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 12:25:00 AM	3/8/2013 11:02:00 PM	E. Coli	n/a	=	12997	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-MEI	2012/13-4	Wet	3/8/2013 12:25:00 AM	3/12/2013 3:09:00 AM	Fecal Coliform	n/a	=	16000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-MEI	2012/13-4	Wet	3/8/2013 12:25:00 AM	3/8/2013 11:02:00 PM	Total Coliform	n/a	=	111200	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	
MO-MEI	2012/13-4	Wet	3/8/2013 12:25:00 AM	3/8/2013 12:25:00 AM	Conductivity	n/a	=	53.3	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-MEI	2012/13-4	Wet	3/8/2013 12:25:00 AM	3/22/2013 1:35:00 PM	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 12:25:00 AM	3/8/2013 12:25:00 AM	DO	n/a	=	97.4	%	Field Meter	-88	0.1	Field Crew	
MO-MEI	2012/13-4	Wet	3/8/2013 12:25:00 AM	3/8/2013 12:25:00 AM	DO	n/a	=	10.1	mg/L	Field Meter	-88	0.3	Field Crew	
MO-MEI	2012/13-4	Wet	3/8/2013 12:25:00 AM	3/8/2013 12:25:00 AM	pH	n/a	=	7.64	pH Units	Field Meter	-88	0.01	Field Crew	
MO-MEI	2012/13-4	Wet	3/8/2013 12:25:00 AM	3/8/2013 12:25:00 AM	Salinity	n/a	<	100	mg/L	Field Meter	-88	100	Field Crew	
MO-MEI	2012/13-4	Wet	3/8/2013 12:25:00 AM	3/8/2013 12:25:00 AM	Specific Conductance	n/a	=	73.3	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-MEI	2012/13-4	Wet	3/8/2013 12:25:00 AM	3/8/2013 12:25:00 AM	Temperature	n/a	=	10.4	°C	Field Meter	-88	0.1	Field Crew	
MO-MEI	2012/13-4	Wet	3/8/2013 12:25:00 AM	3/14/2013 3:00:00 PM	Oil and Grease	n/a	DNQ	1.9	mg/L	EPA 1664A	1.3	5	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 12:25:00 AM	3/14/2013 3:00:00 PM	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 12:25:00 AM	3/11/2013 5:36:00 PM	2-Chloroethyl vinyl ether	n/a	<	0.61	µg/L	EPA 524.2	0.61	1	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 12:25:00 AM	3/11/2013 5:36:00 PM	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/19/2013 8:50:00 PM	Chloride	n/a	=	4.4	mg/L	EPA 300.0	0.1	0.5	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/19/2013 8:50:00 PM	Fluoride	n/a	DNQ	0.073	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/19/2013 5:42:00 PM	Perchlorate	n/a	<	0.95	µg/L	EPA 314.0	0.95	2	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/14/2013 11:35:00 AM	Calcium	Total	=	15.5	mg/L	EPA 200.7	0.0156	0.1	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/14/2013 11:35:00 AM	Magnesium	Total	=	6.21	mg/L	EPA 200.7	0.0121	0.1	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/22/2013 10:05:00 AM	Alkalinity as CaCO3	n/a	=	48	mg/L	SM 2320 B	0.56	10	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/14/2013 2:00:00 PM	BOD	n/a	=	28	mg/L	SM 5210 B	0.1	2	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/20/2013 10:56:00 PM	COD	n/a	=	140	mg/L	EPA 410.4	0.73	5	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/14/2013 11:35:00 AM	Hardness as CaCO3	Total	=	64.4	mg/L	EPA 200.7	0.0885	0.662	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/9/2013 8:43:00 PM	MBAS	n/a	=	0.21	mg/L	SM 5540 C	0.038	0.1	WKL	D
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/26/2013 12:02:00 PM	Phenolics	n/a	=	0.064	mg/L	EPA 420.4	0.0042	0.01	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/18/2013 3:18:00 PM	Specific Conductance	n/a	=	120	µmhos/cm	SM 2510 B	0.23	2	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/12/2013 9:45:00 PM	Total Dissolved Solids	n/a	=	87	mg/L	SM 2540 C	4	10	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/14/2013 2:56:00 PM	Total Organic Carbon	n/a	=	15	mg/L	SM 5310 C	0.09	3	WKL	D
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/12/2013 8:00:00 PM	Total Suspended Solids	n/a	=	610	mg/L	SM 2540 D	5	5	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/9/2013 6:55:00 PM	Turbidity	n/a	=	72	NTU	EPA 180.1	0.024	0.1	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/12/2013 8:00:00 PM	Volatile Suspended Solids	n/a	=	140	mg/L	EPA 160.4	3.1	5	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	4/1/2013 6:25:00 PM	Aluminum	Dissolved	=	36	µg/L	EPA 200.8	0.61	5	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	4/1/2013 9:56:00 PM	Aluminum	Total	=	8100	µg/L	EPA 200.8	2.1	5	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	4/1/2013 6:25:00 PM	Antimony	Dissolved	DNQ	0.35	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	4/1/2013 9:56:00 PM	Antimony	Total	=	0.66	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	4/1/2013 6:25:00 PM	Arsenic	Dissolved	=	0.75	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	4/1/2013 9:56:00 PM	Arsenic	Total	=	2.5	µg/L	EPA 200.8	0.13	0.4	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	4/2/2013 1:05:00 PM	Beryllium	Dissolved	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	4/2/2013 2:30:00 PM	Beryllium	Total	=	0.35	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	4/1/2013 6:25:00 PM	Cadmium	Dissolved	DNQ	0.03	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	4/1/2013 9:56:00 PM	Cadmium	Total	=	0.42	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	4/1/2013 6:25:00 PM	Chromium	Dissolved	=	0.75	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	4/1/2013 9:56:00 PM	Chromium	Total	=	15	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/13/2013 3:51:00 PM	Chromium VI	n/a	=	0.47	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	4/1/2013 6:25:00 PM	Copper	Dissolved	=	6.9	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	4/1/2013 9:56:00 PM	Copper	Total	=	32	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/14/2013 11:32:00 AM	Iron	Dissolved	=	78	µg/L	EPA 200.7	1.1	10	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/14/2013 11:35:00 AM	Iron	Total	=	11000	µg/L	EPA 200.7	1.1	10	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	4/2/2013 1:05:00 PM	Lead	Dissolved	=	0.41	µg/L	EPA 200.8	0.011	0.2	WKL	UL-MB
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	4/2/2013 2:30:00 PM	Lead	Total	=	24	µg/L	EPA 200.8	0.035	0.2	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/27/2013 4:49:00 PM	Mercury	Dissolved	<	3.9	ng/L	EPA 245.1	3.9	50	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	4/3/2013 2:38:00 PM	Mercury	Total	=	73	ng/L	EPA 245.1	3.9	50	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	4/1/2013 6:25:00 PM	Nickel	Dissolved	=	2	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	4/1/2013 9:56:00 PM	Nickel	Total	=	22	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	4/1/2013 6:25:00 PM	Selenium	Dissolved	<	0.28	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	4/1/2013 9:56:00 PM	Selenium	Total	<	0.28	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	4/1/2013 6:25:00 PM	Silver	Dissolved	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	4/1/2013 9:56:00 PM	Silver	Total	DNQ	0.06	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	4/1/2013 6:25:00 PM	Thallium	Dissolved	<	0.009	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	4/1/2013 9:56:00 PM	Thallium	Total	DNQ	0.14	µg/L	EPA 200.8	0.034	0.2	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	4/1/2013 6:25:00 PM	Zinc	Dissolved	=	24	µg/L	EPA 200.8	1.1	5	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	4/1/2013 9:56:00 PM	Zinc	Total	=	210	µg/L	EPA 200.8	1.1	5	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/26/2013 1:52:00 PM	Ammonia as N	n/a	=	0.27	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/11/2013 5:22:00 PM	Nitrate + Nitrite as N	n/a	=	0.48	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	4/4/2013 8:01:00 PM	Phosphorus as P	Dissolved	=	0.19	mg/L	EPA 365.1	0.0028	0.02	WKL	D
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/15/2013 2:33:00 PM	Phosphorus as P	Total	=	0.6	mg/L	EPA 365.1	0.007	0.05	WKL	D
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/21/2013 1:16:00 PM	TKN	n/a	=	2.3	mg/L	EPA 351.2	0.074	0.1	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/19/2013 1:12:00 AM	1,2,4-Trichlorobenzene	n/a	<	5.5	µg/L	EPA 625	5.5	10	WKL	D

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/19/2013 1:12:00 AM	1,2-Dichlorobenzene	n/a	<	5.7	µg/L	EPA 625	5.7	10	WKL	D
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/19/2013 1:12:00 AM	1,2-Diphenylhydrazine	n/a	<	2.5	µg/L	EPA 625	2.5	10	WKL	D
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/19/2013 1:12:00 AM	1,3-Dichlorobenzene	n/a	<	5.3	µg/L	EPA 625	5.3	10	WKL	D
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/19/2013 1:12:00 AM	1,4-Dichlorobenzene	n/a	<	5.5	µg/L	EPA 625	5.5	10	WKL	D
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	4/9/2013 9:57:00 PM	1-Methylnaphthalene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	4/11/2013 4:06:00 AM	2,4,5-Trichlorophenol	n/a	<	2.9	µg/L	EPA 8270Cm	2.9	10	WKL	D
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	4/11/2013 4:06:00 AM	2,4,6-Trichlorophenol	n/a	<	3	µg/L	EPA 8270Cm	3	10	WKL	D
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	4/11/2013 4:06:00 AM	2,4-Dichlorophenol	n/a	<	5.1	µg/L	EPA 8270Cm	5.1	10	WKL	D
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	4/11/2013 4:06:00 AM	2,4-Dimethylphenol	n/a	<	10	µg/L	EPA 8270Cm	10	20	WKL	D
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	4/11/2013 4:06:00 AM	2,4-Dinitrophenol	n/a	<	10	µg/L	EPA 8270Cm	10	20	WKL	D
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/19/2013 1:12:00 AM	2,4-Dinitrotoluene	n/a	<	1.8	µg/L	EPA 625	1.8	10	WKL	D
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/19/2013 1:12:00 AM	2,6-Dinitrotoluene	n/a	<	2.7	µg/L	EPA 625	2.7	10	WKL	D
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/19/2013 1:12:00 AM	2-Chloronaphthalene	n/a	<	4.5	µg/L	EPA 625	4.5	10	WKL	D
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	4/11/2013 4:06:00 AM	2-Chlorophenol	n/a	<	6.5	µg/L	EPA 8270Cm	6.5	10	WKL	D
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	4/9/2013 9:57:00 PM	2-Methylnaphthalene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	4/11/2013 4:06:00 AM	2-Methylphenol	n/a	<	3.4	µg/L	EPA 8270Cm	3.4	10	WKL	D
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	4/11/2013 4:06:00 AM	2-Nitrophenol	n/a	<	7.1	µg/L	EPA 8270Cm	7.1	10	WKL	D
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/19/2013 1:12:00 AM	3,3'-Dichlorobenzidine	n/a	<	12	µg/L	EPA 625	12	50	WKL	D
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	4/11/2013 4:06:00 AM	3-/4-Methylphenol	n/a	<	3	µg/L	EPA 8270Cm	3	10	WKL	D
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	4/11/2013 4:06:00 AM	4,6-Dinitro-2-methylphenol	n/a	<	1.4	µg/L	EPA 8270Cm	1.4	10	WKL	D
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/19/2013 1:12:00 AM	4-Bromophenyl phenyl ether	n/a	<	3.6	µg/L	EPA 625	3.6	10	WKL	D
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	4/11/2013 4:06:00 AM	4-Chloro-3-methylphenol	n/a	<	3.7	µg/L	EPA 8270Cm	3.7	10	WKL	D
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/19/2013 1:12:00 AM	4-Chlorophenyl phenyl ether	n/a	<	4.1	µg/L	EPA 625	4.1	10	WKL	D
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	4/11/2013 4:06:00 AM	4-Nitrophenol	n/a	<	10	µg/L	EPA 8270Cm	10	20	WKL	D
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	4/9/2013 9:57:00 PM	Acenaphthene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	4/9/2013 9:57:00 PM	Acenaphthylene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	4/9/2013 9:57:00 PM	Anthracene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	4/9/2013 9:57:00 PM	Benz(a)anthracene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/19/2013 1:12:00 AM	Benzidine	n/a	<	37	µg/L	EPA 625	37	100	WKL	D
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/26/2013 7:24:00 PM	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	4/9/2013 9:57:00 PM	Benzo(b)fluoranthene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	4/9/2013 9:57:00 PM	Benzo(g,h,i)perylene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	4/9/2013 9:57:00 PM	Benzo(k)fluoranthene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/19/2013 1:12:00 AM	Bis(2-chloroethoxy)methane	n/a	<	2.5	µg/L	EPA 625	2.5	10	WKL	D
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/19/2013 1:12:00 AM	Bis(2-chloroethyl)ether	n/a	<	2.7	µg/L	EPA 625	2.7	10	WKL	D
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/19/2013 1:12:00 AM	Bis(2-chloroisopropyl)ether	n/a	<	3.8	µg/L	EPA 625	3.8	10	WKL	D
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/26/2013 7:24:00 PM	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/26/2013 7:24:00 PM	Bis(2-ethylhexyl)phthalate	n/a	DNQ	2.7	µg/L	EPA 525.2	1.1	3	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/19/2013 1:12:00 AM	Butyl benzyl phthalate	n/a	<	1.8	µg/L	EPA 625	1.8	10	WKL	D
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	4/9/2013 9:57:00 PM	Chrysene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	4/9/2013 9:57:00 PM	Dibenz(a,h)anthracene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/19/2013 1:12:00 AM	Diethyl phthalate	n/a	<	1.5	µg/L	EPA 625	1.5	10	WKL	D
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/19/2013 1:12:00 AM	Dimethyl phthalate	n/a	<	1.8	µg/L	EPA 625	1.8	10	WKL	D
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/19/2013 1:12:00 AM	Di-n-butylphthalate	n/a	<	2.4	µg/L	EPA 625	2.4	10	WKL	D
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/19/2013 1:12:00 AM	Di-n-octylphthalate	n/a	<	1.9	µg/L	EPA 625	1.9	10	WKL	D
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	4/9/2013 9:57:00 PM	Fluoranthene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	4/9/2013 9:57:00 PM	Fluorene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/19/2013 1:12:00 AM	Hexachlorobenzene	n/a	<	4.9	µg/L	EPA 625	4.9	10	WKL	D

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/19/2013 1:12:00 AM	Hexachlorobutadiene	n/a	<	4.7	µg/L	EPA 625	4.7	10	WKL	D
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/19/2013 1:12:00 AM	Hexachlorocyclopentadiene	n/a	<	15	µg/L	EPA 625	15	50	WKL	D
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/19/2013 1:12:00 AM	Hexachloroethane	n/a	<	5.2	µg/L	EPA 625	5.2	10	WKL	D
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	4/9/2013 9:57:00 PM	Indeno(1,2,3-cd)pyrene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/19/2013 1:12:00 AM	Isophorone	n/a	<	2.1	µg/L	EPA 625	2.1	10	WKL	D
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	4/9/2013 9:57:00 PM	Naphthalene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/19/2013 1:12:00 AM	Nitrobenzene	n/a	<	3.6	µg/L	EPA 625	3.6	10	WKL	D
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/19/2013 1:12:00 AM	N-Nitrosodimethylamine	n/a	<	1.4	µg/L	EPA 625	1.4	10	WKL	D
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/19/2013 1:12:00 AM	N-Nitrosodi-N-propylamine	n/a	<	2.6	µg/L	EPA 625	2.6	10	WKL	D
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/19/2013 1:12:00 AM	N-Nitrosodiphenylamine	n/a	<	1.9	µg/L	EPA 625	1.9	10	WKL	D
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	4/9/2013 9:57:00 PM	Phenanthrene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	4/11/2013 4:06:00 AM	Phenol	n/a	<	3.5	µg/L	EPA 8270Cm	3.5	10	WKL	D
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	4/9/2013 9:57:00 PM	Pyrene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/24/2013 7:06:00 AM	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/24/2013 7:06:00 AM	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/24/2013 7:06:00 AM	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/24/2013 7:06:00 AM	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/24/2013 7:06:00 AM	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/24/2013 7:06:00 AM	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/24/2013 7:06:00 AM	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/21/2013 9:18:00 PM	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/21/2013 9:18:00 PM	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/21/2013 9:18:00 PM	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/21/2013 9:18:00 PM	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/21/2013 9:18:00 PM	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/24/2013 7:06:00 AM	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/24/2013 7:06:00 AM	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/24/2013 7:06:00 AM	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/21/2013 9:18:00 PM	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/26/2013 7:24:00 PM	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/24/2013 7:06:00 AM	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/24/2013 7:06:00 AM	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/24/2013 7:06:00 AM	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/26/2013 7:24:00 PM	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	4/12/2013 5:21:00 AM	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	LB-LCSR
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/21/2013 9:18:00 PM	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/24/2013 7:06:00 AM	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	4/12/2013 5:21:00 AM	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/26/2013 7:24:00 PM	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/26/2013 7:24:00 PM	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/26/2013 7:24:00 PM	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/24/2013 7:06:00 AM	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/26/2013 7:24:00 PM	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	4/12/2013 5:21:00 AM	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	4/12/2013 5:21:00 AM	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/26/2013 7:24:00 PM	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/21/2013 9:18:00 PM	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/21/2013 9:18:00 PM	DCPA (Dacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/24/2013 7:06:00 AM	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	4/12/2013 5:21:00 AM	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	4/12/2013 5:21:00 AM	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	4/12/2013 5:21:00 AM	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/21/2013 9:18:00 PM	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/21/2013 9:18:00 PM	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	4/12/2013 5:21:00 AM	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/24/2013 7:06:00 AM	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	4/12/2013 5:21:00 AM	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/21/2013 9:18:00 PM	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/26/2013 7:24:00 PM	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	4/12/2013 5:21:00 AM	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/24/2013 7:06:00 AM	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/24/2013 7:06:00 AM	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/24/2013 7:06:00 AM	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/24/2013 7:06:00 AM	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/24/2013 7:06:00 AM	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/26/2013 7:24:00 PM	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	4/12/2013 5:21:00 AM	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	4/12/2013 5:21:00 AM	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	4/12/2013 5:21:00 AM	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	4/12/2013 5:21:00 AM	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/24/2013 7:06:00 AM	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/24/2013 7:06:00 AM	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/12/2013 4:53:00 PM	Glyphosate	n/a	=	24	µg/L	EPA 547	1.8	5	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/24/2013 7:06:00 AM	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/24/2013 7:06:00 AM	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	4/12/2013 5:21:00 AM	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	4/12/2013 5:21:00 AM	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/24/2013 7:06:00 AM	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	4/12/2013 5:21:00 AM	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/26/2013 7:24:00 PM	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/26/2013 7:24:00 PM	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	4/12/2013 5:21:00 AM	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/26/2013 7:24:00 PM	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	4/12/2013 5:21:00 AM	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/21/2013 9:18:00 PM	Pentachlorophenol	n/a	=	0.21	µg/L	EPA 515.3	0.04	0.2	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	4/12/2013 5:21:00 AM	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/21/2013 9:18:00 PM	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/26/2013 7:24:00 PM	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/26/2013 7:24:00 PM	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	4/12/2013 5:21:00 AM	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/26/2013 7:24:00 PM	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	4/12/2013 5:21:00 AM	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/26/2013 7:24:00 PM	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/26/2013 7:24:00 PM	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	4/12/2013 5:21:00 AM	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/24/2013 7:06:00 AM	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	4/12/2013 5:21:00 AM	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-MEI	2012/13-4	Wet	3/8/2013 10:44:00 AM	3/26/2013 7:24:00 PM	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-MPK	2012/13-2	Wet	11/17/2012 10:45:00 AM	11/18/2012 9:10:00 AM	E. Coli	n/a	=	7701	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-MPK	2012/13-2	Wet	11/17/2012 10:45:00 AM	11/20/2012 2:30:00 PM	Fecal Coliform	n/a	=	16000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-MPK	2012/13-2	Wet	11/17/2012 10:45:00 AM	11/18/2012 9:10:00 AM	Total Coliform	n/a	=	1119900	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	
MO-MPK	2012/13-2	Wet	11/17/2012 10:45:00 AM	11/17/2012 10:45:00 AM	Conductivity	n/a	=	322.8	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-MPK	2012/13-2	Wet	11/17/2012 10:45:00 AM	12/7/2012 2:06:00 PM	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-MPK	2012/13-2	Wet	11/17/2012 10:45:00 AM	11/17/2012 10:45:00 AM	DO	n/a	=	9.48	mg/L	Field Meter	-88	0.3	Field Crew	
MO-MPK	2012/13-2	Wet	11/17/2012 10:45:00 AM	11/17/2012 10:45:00 AM	DO	n/a	=	101.2	%	Field Meter	-88	0.1	Field Crew	
MO-MPK	2012/13-2	Wet	11/17/2012 10:45:00 AM	11/17/2012 10:45:00 AM	pH	n/a	=	8.12	pH Units	Field Meter	-88	0.01	Field Crew	
MO-MPK	2012/13-2	Wet	11/17/2012 10:45:00 AM	11/17/2012 10:45:00 AM	Salinity	n/a	=	200	mg/L	Field Meter	-88	100	Field Crew	
MO-MPK	2012/13-2	Wet	11/17/2012 10:45:00 AM	11/17/2012 10:45:00 AM	Specific Conductance	n/a	=	379.5	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-MPK	2012/13-2	Wet	11/17/2012 10:45:00 AM	11/17/2012 10:45:00 AM	Temperature	n/a	=	17.1	°C	Field Meter	-88	0.1	Field Crew	
MO-MPK	2012/13-2	Wet	11/17/2012 10:45:00 AM	11/30/2012 3:45:00 PM	Oil and Grease	n/a	<	1.3	mg/L	EPA 1664A	1.3	5	WKL	
MO-MPK	2012/13-2	Wet	11/17/2012 10:45:00 AM	11/30/2012 3:45:00 PM	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-MPK	2012/13-2	Wet	11/17/2012 10:45:00 AM	11/27/2012 11:46:00 PM	2-Chloroethyl vinyl ether	n/a	<	0.61	µg/L	EPA 524.2	0.61	1	WKL	
MO-MPK	2012/13-2	Wet	11/17/2012 10:45:00 AM	11/27/2012 11:46:00 PM	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/28/2012 12:29:00 PM	Chloride	n/a	=	110	mg/L	EPA 300.0	1	5	WKL	D
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/28/2012 12:29:00 PM	Fluoride	n/a	=	0.6	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/28/2012 5:40:00 PM	Perchlorate	n/a	<	1.9	µg/L	EPA 314.0	1.9	4	WKL	D
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/28/2012 12:43:00 PM	Calcium	Total	=	97.4	mg/L	EPA 200.7	0.0156	0.1	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/28/2012 12:43:00 PM	Magnesium	Total	=	29.8	mg/L	EPA 200.7	0.0121	0.1	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/30/2012 4:45:00 PM	Alkalinity as CaCO3	n/a	=	170	mg/L	SM 2320 B	0.56	2	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/24/2012 12:30:00 PM	BOD	n/a	=	46	mg/L	SM 5210 B	0.1	2	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/27/2012 9:06:00 AM	COD	n/a	=	510	mg/L	EPA 410.4	0.73	5	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/28/2012 12:43:00 PM	Hardness as CaCO3	Total	=	366	mg/L	EPA 200.7	0.0885	0.662	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/19/2012 9:46:00 PM	MBAS	n/a	=	0.22	mg/L	SM 5540 C	0.076	0.2	WKL	D
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/30/2012 3:00:00 PM	Phenolics	n/a	=	0.025	mg/L	EPA 420.4	0.0042	0.01	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/30/2012 11:00:00 AM	Specific Conductance	n/a	=	870	µmhos/cm	SM 2510 B	0.23	2	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/21/2012 11:58:00 AM	Total Dissolved Solids	n/a	=	510	mg/L	SM 2540 C	4	10	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/26/2012 10:48:00 AM	Total Organic Carbon	n/a	=	51	mg/L	SM 5310 C	0.18	6	WKL	D
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/20/2012 7:20:00 PM	Total Suspended Solids	n/a	=	1200	mg/L	SM 2540 D	5	5	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/19/2012 10:13:00 PM	Turbidity	n/a	=	230	NTU	EPA 180.1	0.024	0.1	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/20/2012 7:20:00 PM	Volatile Suspended Solids	n/a	=	260	mg/L	EPA 160.4	3.1	5	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	12/3/2012 7:19:00 PM	Aluminum	Dissolved	=	12	µg/L	EPA 200.8	0.61	5	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	12/4/2012 2:57:00 PM	Aluminum	Total	=	17000	µg/L	EPA 200.8	3	25	WKL	D
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	12/3/2012 7:19:00 PM	Antimony	Dissolved	=	0.97	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	12/3/2012 7:27:00 PM	Antimony	Total	=	1.8	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	12/3/2012 7:19:00 PM	Arsenic	Dissolved	=	4.4	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	12/3/2012 7:27:00 PM	Arsenic	Total	=	11	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	12/3/2012 7:19:00 PM	Beryllium	Dissolved	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	12/3/2012 7:27:00 PM	Beryllium	Total	=	0.84	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	12/3/2012 7:19:00 PM	Cadmium	Dissolved	DNQ	0.04	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	12/3/2012 7:27:00 PM	Cadmium	Total	=	2.8	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	12/3/2012 7:19:00 PM	Chromium	Dissolved	=	0.68	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	12/3/2012 7:27:00 PM	Chromium	Total	=	37	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	12/3/2012 7:33:00 PM	Chromium VI	n/a	DNQ	0.22	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	12/3/2012 7:19:00 PM	Copper	Dissolved	=	3.3	µg/L	EPA 200.8	0.27	0.5	WKL	

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	12/3/2012 7:27:00 PM	Copper	Total	=	100	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/28/2012 12:41:00 PM	Iron	Dissolved	=	260	µg/L	EPA 200.7	1.1	10	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/28/2012 12:43:00 PM	Iron	Total	=	24000	µg/L	EPA 200.7	1.1	10	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	12/3/2012 7:19:00 PM	Lead	Dissolved	=	0.2	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	12/3/2012 7:27:00 PM	Lead	Total	=	42	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	12/5/2012 4:54:00 PM	Mercury	Dissolved	DNQ	14	ng/L	EPA 245.1	3.9	50	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	12/5/2012 4:54:00 PM	Mercury	Total	=	110	ng/L	EPA 245.1	3.9	50	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	12/3/2012 7:19:00 PM	Nickel	Dissolved	=	7	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	12/3/2012 7:27:00 PM	Nickel	Total	=	49	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	12/3/2012 7:19:00 PM	Selenium	Dissolved	DNQ	0.37	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	12/3/2012 7:27:00 PM	Selenium	Total	=	1.1	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	12/3/2012 7:19:00 PM	Silver	Dissolved	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	12/3/2012 7:27:00 PM	Silver	Total	=	0.36	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	12/3/2012 7:19:00 PM	Thallium	Dissolved	<	0.009	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	12/3/2012 7:27:00 PM	Thallium	Total	=	0.38	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	12/3/2012 7:19:00 PM	Zinc	Dissolved	DNQ	3.8	µg/L	EPA 200.8	1.1	5	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	12/3/2012 7:27:00 PM	Zinc	Total	=	540	µg/L	EPA 200.8	1.1	5	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	12/5/2012 5:51:00 PM	Ammonia as N	n/a	=	3.3	mg/L	EPA 350.1	0.24	0.5	WKL	D
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/19/2012 7:08:00 PM	Nitrate + Nitrite as N	n/a	=	3.1	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	12/14/2012 1:01:00 PM	Phosphorus as P	Dissolved	=	0.68	mg/L	EPA 365.1	0.014	0.1	WKL	D, DG
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	12/14/2012 11:37:00 AM	Phosphorus as P	Total	=	5.2	mg/L	EPA 365.1	0.07	0.5	WKL	DG
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/28/2012 4:23:00 PM	TKN	n/a	=	19	mg/L	EPA 351.2	0.74	1	WKL	D
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/28/2012 3:36:00 AM	1,2,4-Trichlorobenzene	n/a	<	1.1	µg/L	EPA 625	1.1	2	WKL	D, DF
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/28/2012 3:36:00 AM	1,2-Dichlorobenzene	n/a	<	1.1	µg/L	EPA 625	1.1	2	WKL	D, DF
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/28/2012 3:36:00 AM	1,2-Diphenylhydrazine	n/a	<	0.5	µg/L	EPA 625	0.5	2	WKL	D, DF
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/28/2012 3:36:00 AM	1,3-Dichlorobenzene	n/a	<	1.1	µg/L	EPA 625	1.1	2	WKL	D, DF
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/28/2012 3:36:00 AM	1,4-Dichlorobenzene	n/a	<	1.1	µg/L	EPA 625	1.1	2	WKL	D, DF
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/29/2012 5:19:00 AM	1-Methylnaphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/29/2012 9:29:00 PM	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/29/2012 9:29:00 PM	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	EUM
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/29/2012 9:29:00 PM	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/29/2012 9:29:00 PM	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/29/2012 9:29:00 PM	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/28/2012 3:36:00 AM	2,4-Dinitrotoluene	n/a	<	0.36	µg/L	EPA 625	0.36	2	WKL	D, DF
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/28/2012 3:36:00 AM	2,6-Dinitrotoluene	n/a	<	0.54	µg/L	EPA 625	0.54	2	WKL	D, DF
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/28/2012 3:36:00 AM	2-Chloronaphthalene	n/a	<	0.9	µg/L	EPA 625	0.9	2	WKL	D, DF
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/29/2012 9:29:00 PM	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	EUM
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/29/2012 5:19:00 AM	2-Methylnaphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/29/2012 9:29:00 PM	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/29/2012 9:29:00 PM	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/28/2012 3:36:00 AM	3,3'-Dichlorobenzidine	n/a	<	2.4	µg/L	EPA 625	2.4	10	WKL	D, DF
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/29/2012 9:29:00 PM	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/29/2012 9:29:00 PM	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/28/2012 3:36:00 AM	4-Bromophenyl phenyl ether	n/a	<	0.72	µg/L	EPA 625	0.72	2	WKL	D, DF
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/29/2012 9:29:00 PM	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/28/2012 3:36:00 AM	4-Chlorophenyl phenyl ether	n/a	<	0.82	µg/L	EPA 625	0.82	2	WKL	D, DF
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/29/2012 9:29:00 PM	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/29/2012 5:19:00 AM	Acenaphthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	EUM

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/29/2012 5:19:00 AM	Acenaphthylene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/29/2012 5:19:00 AM	Anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/29/2012 5:19:00 AM	Benz(a)anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/28/2012 3:36:00 AM	Benzidine	n/a	<	7.3	µg/L	EPA 625	7.3	20	WKL	D, DF
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	12/4/2012 7:43:00 AM	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/29/2012 5:19:00 AM	Benzo(b)fluoranthene	n/a	=	0.16	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/29/2012 5:19:00 AM	Benzo(g,h,i)perylene	n/a	=	0.11	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/29/2012 5:19:00 AM	Benzo(k)fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/28/2012 3:36:00 AM	Bis(2-chloroethoxy)methane	n/a	<	0.5	µg/L	EPA 625	0.5	2	WKL	D, DF
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/28/2012 3:36:00 AM	Bis(2-chloroethyl)ether	n/a	<	0.54	µg/L	EPA 625	0.54	2	WKL	D, DF
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/28/2012 3:36:00 AM	Bis(2-chloroisopropyl)ether	n/a	<	0.76	µg/L	EPA 625	0.76	2	WKL	D, DF
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	12/4/2012 7:43:00 AM	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	12/4/2012 7:43:00 AM	Bis(2-ethylhexyl)phthalate	n/a	DNQ	1.1	µg/L	EPA 525.2	1.1	3	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/28/2012 3:36:00 AM	Butyl benzyl phthalate	n/a	DNQ	0.52	µg/L	EPA 625	0.36	2	WKL	D, DF
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/29/2012 5:19:00 AM	Chrysene	n/a	=	0.23	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/29/2012 5:19:00 AM	Dibenz(a,h)anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/28/2012 3:36:00 AM	Diethyl phthalate	n/a	DNQ	0.82	µg/L	EPA 625	0.3	2	WKL	D, DF
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/28/2012 3:36:00 AM	Dimethyl phthalate	n/a	<	0.36	µg/L	EPA 625	0.36	2	WKL	D, DF
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/28/2012 3:36:00 AM	Di-n-butylphthalate	n/a	<	0.48	µg/L	EPA 625	0.48	2	WKL	D, DF
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/28/2012 3:36:00 AM	Di-n-octylphthalate	n/a	<	0.38	µg/L	EPA 625	0.38	2	WKL	D, DF
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/29/2012 5:19:00 AM	Fluoranthene	n/a	=	0.19	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/29/2012 5:19:00 AM	Fluorene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	EUM
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/28/2012 3:36:00 AM	Hexachlorobenzene	n/a	<	0.98	µg/L	EPA 625	0.98	2	WKL	D, DF
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/28/2012 3:36:00 AM	Hexachlorobutadiene	n/a	<	0.94	µg/L	EPA 625	0.94	2	WKL	D, DF
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/28/2012 3:36:00 AM	Hexachlorocyclopentadiene	n/a	<	2.9	µg/L	EPA 625	2.9	10	WKL	D, DF
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/28/2012 3:36:00 AM	Hexachloroethane	n/a	<	1	µg/L	EPA 625	1	2	WKL	D, DF
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/29/2012 5:19:00 AM	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/28/2012 3:36:00 AM	Isophorone	n/a	<	0.42	µg/L	EPA 625	0.42	2	WKL	D, DF
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/29/2012 5:19:00 AM	Naphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/28/2012 3:36:00 AM	Nitrobenzene	n/a	<	0.72	µg/L	EPA 625	0.72	2	WKL	D, DF
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/28/2012 3:36:00 AM	N-Nitrosodimethylamine	n/a	<	0.28	µg/L	EPA 625	0.28	2	WKL	D, DF, EUM
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/28/2012 3:36:00 AM	N-Nitrosodi-N-propylamine	n/a	<	0.52	µg/L	EPA 625	0.52	2	WKL	D, DF
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/28/2012 3:36:00 AM	N-Nitrosodiphenylamine	n/a	<	0.38	µg/L	EPA 625	0.38	2	WKL	D, DF
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/29/2012 5:19:00 AM	Phenanthrene	n/a	=	0.15	µg/L	EPA 8270Cm	0.1	0.1	WKL	EUM
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/29/2012 9:29:00 PM	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/29/2012 5:19:00 AM	Pyrene	n/a	=	0.13	µg/L	EPA 8270Cm	0.1	0.1	WKL	EUM
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/28/2012 5:35:00 AM	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/28/2012 5:35:00 AM	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/28/2012 5:35:00 AM	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/28/2012 5:35:00 AM	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/28/2012 5:35:00 AM	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/28/2012 5:35:00 AM	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/28/2012 5:35:00 AM	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	12/2/2012 3:02:00 AM	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	12/2/2012 3:02:00 AM	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	12/2/2012 3:02:00 AM	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	12/2/2012 3:02:00 AM	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	12/2/2012 3:02:00 AM	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/28/2012 5:35:00 AM	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/28/2012 5:35:00 AM	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/28/2012 5:35:00 AM	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	12/2/2012 3:02:00 AM	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	12/4/2012 7:43:00 AM	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/28/2012 5:35:00 AM	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/28/2012 5:35:00 AM	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/28/2012 5:35:00 AM	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	12/4/2012 7:43:00 AM	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	12/13/2012 2:49:00 PM	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	EUM
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	12/2/2012 3:02:00 AM	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/28/2012 5:35:00 AM	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	12/13/2012 2:49:00 PM	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	12/4/2012 7:43:00 AM	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	12/4/2012 7:43:00 AM	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	12/4/2012 7:43:00 AM	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/28/2012 5:35:00 AM	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	12/4/2012 7:43:00 AM	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	12/13/2012 2:49:00 PM	Chlorpyrifos	n/a	DNQ	0.0094	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	12/13/2012 2:49:00 PM	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	12/4/2012 7:43:00 AM	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	12/2/2012 3:02:00 AM	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	12/2/2012 3:02:00 AM	DCPA (Dacthal)	n/a	=	0.81	µg/L	EPA 515.3	0.07	0.1	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/28/2012 5:35:00 AM	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	12/13/2012 2:49:00 PM	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	12/13/2012 2:49:00 PM	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	12/13/2012 2:49:00 PM	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	12/2/2012 3:02:00 AM	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	12/2/2012 3:02:00 AM	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	12/13/2012 2:49:00 PM	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/28/2012 5:35:00 AM	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	12/13/2012 2:49:00 PM	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	12/2/2012 3:02:00 AM	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	12/4/2012 7:43:00 AM	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	12/13/2012 2:49:00 PM	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/28/2012 5:35:00 AM	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/28/2012 5:35:00 AM	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/28/2012 5:35:00 AM	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/28/2012 5:35:00 AM	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/28/2012 5:35:00 AM	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	12/4/2012 7:43:00 AM	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	12/13/2012 2:49:00 PM	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	12/13/2012 2:49:00 PM	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	12/13/2012 2:49:00 PM	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	12/13/2012 2:49:00 PM	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/28/2012 5:35:00 AM	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/28/2012 5:35:00 AM	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/28/2012 6:40:00 PM	Glyphosate	n/a	=	47	µg/L	EPA 547	3.6	10	WKL	D

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/28/2012 5:35:00 AM	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/28/2012 5:35:00 AM	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	12/13/2012 2:49:00 PM	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	12/13/2012 2:49:00 PM	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/28/2012 5:35:00 AM	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	12/13/2012 2:49:00 PM	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	12/4/2012 7:43:00 AM	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	12/4/2012 7:43:00 AM	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	12/13/2012 2:49:00 PM	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	12/4/2012 7:43:00 AM	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	12/13/2012 2:49:00 PM	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.1	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	12/2/2012 3:02:00 AM	Pentachlorophenol	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.2	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	12/13/2012 2:49:00 PM	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	12/2/2012 3:02:00 AM	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	12/4/2012 7:43:00 AM	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	12/4/2012 7:43:00 AM	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	12/13/2012 2:49:00 PM	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	12/4/2012 7:43:00 AM	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	12/13/2012 2:49:00 PM	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	12/4/2012 7:43:00 AM	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	12/4/2012 7:43:00 AM	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	12/13/2012 2:49:00 PM	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	11/28/2012 5:35:00 AM	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	12/13/2012 2:49:00 PM	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-MPK	2012/13-2	Wet	11/18/2012 8:43:00 AM	12/4/2012 7:43:00 AM	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 1:35:00 AM	3/8/2013 10:20:00 PM	E. Coli	n/a	=	14136	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-MPK	2012/13-4	Wet	3/8/2013 1:35:00 AM	3/12/2013 1:30:00 AM	Fecal Coliform	n/a	=	24000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-MPK	2012/13-4	Wet	3/8/2013 1:35:00 AM	3/8/2013 10:20:00 PM	Total Coliform	n/a	=	261300	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	
MO-MPK	2012/13-4	Wet	3/8/2013 1:35:00 AM	3/8/2013 1:35:00 AM	Conductivity	n/a	=	86.2	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-MPK	2012/13-4	Wet	3/8/2013 1:35:00 AM	3/22/2013 1:37:00 PM	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 1:35:00 AM	3/8/2013 1:35:00 AM	DO	n/a	=	9.21	mg/L	Field Meter	-88	0.3	Field Crew	
MO-MPK	2012/13-4	Wet	3/8/2013 1:35:00 AM	3/8/2013 1:35:00 AM	DO	n/a	=	84.1	%	Field Meter	-88	0.1	Field Crew	
MO-MPK	2012/13-4	Wet	3/8/2013 1:35:00 AM	3/8/2013 1:35:00 AM	pH	n/a	=	7.9	pH Units	Field Meter	-88	0.01	Field Crew	
MO-MPK	2012/13-4	Wet	3/8/2013 1:35:00 AM	3/8/2013 1:35:00 AM	Salinity	n/a	=	100	mg/L	Field Meter	-88	100	Field Crew	
MO-MPK	2012/13-4	Wet	3/8/2013 1:35:00 AM	3/8/2013 1:35:00 AM	Specific Conductance	n/a	=	112	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-MPK	2012/13-4	Wet	3/8/2013 1:35:00 AM	3/8/2013 1:35:00 AM	Temperature	n/a	=	11	°C	Field Meter	-88	0.1	Field Crew	
MO-MPK	2012/13-4	Wet	3/8/2013 1:35:00 AM	3/14/2013 3:00:00 PM	Oil and Grease	n/a	DNQ	2.5	mg/L	EPA 1664A	1.3	5	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 1:35:00 AM	3/14/2013 3:00:00 PM	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 1:35:00 AM	3/11/2013 10:00:00 PM	2-Chloroethyl vinyl ether	n/a	<	0.61	µg/L	EPA 524.2	0.61	1	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 1:35:00 AM	3/11/2013 10:00:00 PM	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/19/2013 8:50:00 PM	Chloride	n/a	=	16	mg/L	EPA 300.0	0.1	0.5	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/19/2013 8:50:00 PM	Fluoride	n/a	=	0.11	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/19/2013 5:42:00 PM	Perchlorate	n/a	<	0.95	µg/L	EPA 314.0	0.95	2	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/14/2013 12:05:00 PM	Calcium	Total	=	26.3	mg/L	EPA 200.7	0.0156	0.1	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/14/2013 12:05:00 PM	Magnesium	Total	=	5.28	mg/L	EPA 200.7	0.0121	0.1	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/22/2013 10:05:00 AM	Alkalinity as CaCO3	n/a	=	41	mg/L	SM 2320 B	0.56	10	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/14/2013 2:00:00 PM	BOD	n/a	=	11	mg/L	SM 5210 B	0.1	2	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/20/2013 10:56:00 PM	COD	n/a	=	100	mg/L	EPA 410.4	0.73	5	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/14/2013 12:05:00 PM	Hardness as CaCO3	Total	=	87.4	mg/L	EPA 200.7	0.0885	0.662	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/9/2013 8:43:00 PM	MBAS	n/a	=	0.062	mg/L	SM 5540 C	0.019	0.05	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	4/3/2013 7:06:00 PM	Phenolics	n/a	=	0.096	mg/L	EPA 420.4	0.0042	0.01	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/18/2013 3:18:00 PM	Specific Conductance	n/a	=	240	µmhos/cm	SM 2510 B	0.23	2	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/12/2013 9:45:00 PM	Total Dissolved Solids	n/a	=	150	mg/L	SM 2540 C	4	10	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/14/2013 2:56:00 PM	Total Organic Carbon	n/a	=	7.7	mg/L	SM 5310 C	0.036	1.2	WKL	D
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/12/2013 8:00:00 PM	Total Suspended Solids	n/a	=	280	mg/L	SM 2540 D	5	5	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/9/2013 6:55:00 PM	Turbidity	n/a	=	62	NTU	EPA 180.1	0.024	0.1	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/12/2013 8:00:00 PM	Volatile Suspended Solids	n/a	=	48	mg/L	EPA 160.4	3.1	5	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	4/1/2013 7:30:00 PM	Aluminum	Dissolved	=	34	µg/L	EPA 200.8	0.61	5	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	4/1/2013 9:40:00 PM	Aluminum	Total	=	6500	µg/L	EPA 200.8	2.1	5	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	4/1/2013 7:30:00 PM	Antimony	Dissolved	=	0.54	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	4/1/2013 9:40:00 PM	Antimony	Total	=	1	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	4/1/2013 7:30:00 PM	Arsenic	Dissolved	=	1.8	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	4/1/2013 9:40:00 PM	Arsenic	Total	=	3.4	µg/L	EPA 200.8	0.13	0.4	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	4/2/2013 1:32:00 PM	Beryllium	Dissolved	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	4/2/2013 2:23:00 PM	Beryllium	Total	=	0.21	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	4/1/2013 7:30:00 PM	Cadmium	Dissolved	DNQ	0.06	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	4/1/2013 9:40:00 PM	Cadmium	Total	=	0.53	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	4/1/2013 7:30:00 PM	Chromium	Dissolved	=	1.1	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	4/1/2013 9:40:00 PM	Chromium	Total	=	13	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/13/2013 3:51:00 PM	Chromium VI	n/a	=	0.82	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	4/1/2013 7:30:00 PM	Copper	Dissolved	=	4.6	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	4/1/2013 9:40:00 PM	Copper	Total	=	20	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/14/2013 12:02:00 PM	Iron	Dissolved	=	61	µg/L	EPA 200.7	1.1	10	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/14/2013 12:05:00 PM	Iron	Total	=	7800	µg/L	EPA 200.7	1.1	10	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	4/2/2013 1:32:00 PM	Lead	Dissolved	DNQ	0.16	µg/L	EPA 200.8	0.011	0.2	WKL	UL-MB
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	4/2/2013 2:23:00 PM	Lead	Total	=	11	µg/L	EPA 200.8	0.035	0.2	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/27/2013 4:49:00 PM	Mercury	Dissolved	<	3.9	ng/L	EPA 245.1	3.9	50	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	4/3/2013 2:38:00 PM	Mercury	Total	=	70	ng/L	EPA 245.1	3.9	50	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	4/1/2013 7:30:00 PM	Nickel	Dissolved	=	1.7	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	4/1/2013 9:40:00 PM	Nickel	Total	=	11	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	4/1/2013 7:30:00 PM	Selenium	Dissolved	=	1.5	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	4/1/2013 9:40:00 PM	Selenium	Total	=	1.6	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	4/1/2013 7:30:00 PM	Silver	Dissolved	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	4/1/2013 9:40:00 PM	Silver	Total	DNQ	0.06	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	4/1/2013 7:30:00 PM	Thallium	Dissolved	<	0.009	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	4/1/2013 9:40:00 PM	Thallium	Total	DNQ	0.1	µg/L	EPA 200.8	0.034	0.2	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	4/1/2013 7:30:00 PM	Zinc	Dissolved	=	17	µg/L	EPA 200.8	1.1	5	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	4/1/2013 9:40:00 PM	Zinc	Total	=	120	µg/L	EPA 200.8	1.1	5	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/26/2013 2:01:00 PM	Ammonia as N	n/a	=	0.31	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/11/2013 5:35:00 PM	Nitrate + Nitrite as N	n/a	=	3.6	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	4/4/2013 7:48:00 PM	Phosphorus as P	Dissolved	=	0.25	mg/L	EPA 365.1	0.0028	0.02	WKL	D
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/15/2013 2:55:00 PM	Phosphorus as P	Total	=	0.82	mg/L	EPA 365.1	0.007	0.05	WKL	D
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/21/2013 1:22:00 PM	TKN	n/a	=	2.6	mg/L	EPA 351.2	0.074	0.1	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/19/2013 3:45:00 AM	1,2,4-Trichlorobenzene	n/a	<	5.5	µg/L	EPA 625	5.5	10	WKL	D
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/19/2013 3:45:00 AM	1,2-Dichlorobenzene	n/a	<	5.7	µg/L	EPA 625	5.7	10	WKL	D
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/19/2013 3:45:00 AM	1,2-Diphenylhydrazine	n/a	<	2.5	µg/L	EPA 625	2.5	10	WKL	D

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/19/2013 3:45:00 AM	1,3-Dichlorobenzene	n/a	<	5.3	µg/L	EPA 625	5.3	10	WKL	D
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/19/2013 3:45:00 AM	1,4-Dichlorobenzene	n/a	<	5.5	µg/L	EPA 625	5.5	10	WKL	D
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	4/10/2013 12:57:00 AM	1-Methylnaphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	4/11/2013 6:39:00 AM	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	4/11/2013 6:39:00 AM	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	4/11/2013 6:39:00 AM	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	4/11/2013 6:39:00 AM	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	4/11/2013 6:39:00 AM	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/19/2013 3:45:00 AM	2,4-Dinitrotoluene	n/a	<	1.8	µg/L	EPA 625	1.8	10	WKL	D
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/19/2013 3:45:00 AM	2,6-Dinitrotoluene	n/a	<	2.7	µg/L	EPA 625	2.7	10	WKL	D
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/19/2013 3:45:00 AM	2-Chloronaphthalene	n/a	<	4.5	µg/L	EPA 625	4.5	10	WKL	D
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	4/11/2013 6:39:00 AM	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	4/10/2013 12:57:00 AM	2-Methylnaphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	4/11/2013 6:39:00 AM	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	4/11/2013 6:39:00 AM	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/19/2013 3:45:00 AM	3,3'-Dichlorobenzidine	n/a	<	12	µg/L	EPA 625	12	50	WKL	D
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	4/11/2013 6:39:00 AM	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	4/11/2013 6:39:00 AM	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/19/2013 3:45:00 AM	4-Bromophenyl phenyl ether	n/a	<	3.6	µg/L	EPA 625	3.6	10	WKL	D
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	4/11/2013 6:39:00 AM	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/19/2013 3:45:00 AM	4-Chlorophenyl phenyl ether	n/a	<	4.1	µg/L	EPA 625	4.1	10	WKL	D
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	4/11/2013 6:39:00 AM	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	4/10/2013 12:57:00 AM	Acenaphthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	4/10/2013 12:57:00 AM	Acenaphthylene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	4/10/2013 12:57:00 AM	Anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	4/10/2013 12:57:00 AM	Benz(a)anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/19/2013 3:45:00 AM	Benzidine	n/a	<	37	µg/L	EPA 625	37	100	WKL	D
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	4/6/2013 12:03:00 AM	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	4/10/2013 12:57:00 AM	Benzo(b)fluoranthene	n/a	=	0.14	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	4/10/2013 12:57:00 AM	Benzo(g,h,i)perylene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	4/10/2013 12:57:00 AM	Benzo(k)fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/19/2013 3:45:00 AM	Bis(2-chloroethoxy)methane	n/a	<	2.5	µg/L	EPA 625	2.5	10	WKL	D
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/19/2013 3:45:00 AM	Bis(2-chloroethyl)ether	n/a	<	2.7	µg/L	EPA 625	2.7	10	WKL	D
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/19/2013 3:45:00 AM	Bis(2-chloroisopropyl)ether	n/a	<	3.8	µg/L	EPA 625	3.8	10	WKL	D
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	4/6/2013 12:03:00 AM	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	4/6/2013 12:03:00 AM	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/19/2013 3:45:00 AM	Butyl benzyl phthalate	n/a	<	1.8	µg/L	EPA 625	1.8	10	WKL	D
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	4/10/2013 12:57:00 AM	Chrysene	n/a	=	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	4/10/2013 12:57:00 AM	Dibenz(a,h)anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/19/2013 3:45:00 AM	Diethyl phthalate	n/a	<	1.5	µg/L	EPA 625	1.5	10	WKL	D
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/19/2013 3:45:00 AM	Dimethyl phthalate	n/a	<	1.8	µg/L	EPA 625	1.8	10	WKL	D
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/19/2013 3:45:00 AM	Di-n-butylphthalate	n/a	<	2.4	µg/L	EPA 625	2.4	10	WKL	D
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/19/2013 3:45:00 AM	Di-n-octylphthalate	n/a	<	1.9	µg/L	EPA 625	1.9	10	WKL	D
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	4/10/2013 12:57:00 AM	Fluoranthene	n/a	=	0.15	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	4/10/2013 12:57:00 AM	Fluorene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/19/2013 3:45:00 AM	Hexachlorobenzene	n/a	<	4.9	µg/L	EPA 625	4.9	10	WKL	D
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/19/2013 3:45:00 AM	Hexachlorobutadiene	n/a	<	4.7	µg/L	EPA 625	4.7	10	WKL	D
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/19/2013 3:45:00 AM	Hexachlorocyclopentadiene	n/a	<	15	µg/L	EPA 625	15	50	WKL	D

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/19/2013 3:45:00 AM	Hexachloroethane	n/a	<	5.2	µg/L	EPA 625	5.2	10	WKL	D
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	4/10/2013 12:57:00 AM	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/19/2013 3:45:00 AM	Isophorone	n/a	<	2.1	µg/L	EPA 625	2.1	10	WKL	D
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	4/10/2013 12:57:00 AM	Naphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/19/2013 3:45:00 AM	Nitrobenzene	n/a	<	3.6	µg/L	EPA 625	3.6	10	WKL	D
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/19/2013 3:45:00 AM	N-Nitrosodimethylamine	n/a	<	1.4	µg/L	EPA 625	1.4	10	WKL	D
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/19/2013 3:45:00 AM	N-Nitrosodi-N-propylamine	n/a	<	2.6	µg/L	EPA 625	2.6	10	WKL	D
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/19/2013 3:45:00 AM	N-Nitrosodiphenylamine	n/a	<	1.9	µg/L	EPA 625	1.9	10	WKL	D
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	4/10/2013 12:57:00 AM	Phenanthrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	4/11/2013 6:39:00 AM	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	4/10/2013 12:57:00 AM	Pyrene	n/a	=	0.14	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/24/2013 11:50:00 AM	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/24/2013 11:50:00 AM	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/24/2013 11:50:00 AM	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/24/2013 11:50:00 AM	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/24/2013 11:50:00 AM	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/24/2013 11:50:00 AM	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/24/2013 11:50:00 AM	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/22/2013 12:23:00 AM	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/22/2013 12:23:00 AM	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/22/2013 12:23:00 AM	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/22/2013 12:23:00 AM	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/22/2013 12:23:00 AM	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/24/2013 11:50:00 AM	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/24/2013 11:50:00 AM	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/24/2013 11:50:00 AM	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/22/2013 12:23:00 AM	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	4/6/2013 12:03:00 AM	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/24/2013 11:50:00 AM	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/24/2013 11:50:00 AM	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/24/2013 11:50:00 AM	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	4/6/2013 12:03:00 AM	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/22/2013 10:55:00 PM	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	LB-LCSR
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/22/2013 12:23:00 AM	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/24/2013 11:50:00 AM	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/22/2013 10:55:00 PM	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	4/6/2013 12:03:00 AM	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	4/6/2013 12:03:00 AM	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	4/6/2013 12:03:00 AM	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/24/2013 11:50:00 AM	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	4/6/2013 12:03:00 AM	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/22/2013 10:55:00 PM	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/22/2013 10:55:00 PM	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	4/6/2013 12:03:00 AM	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/22/2013 12:23:00 AM	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/22/2013 12:23:00 AM	DCPA (Dacthal)	n/a	=	0.27	µg/L	EPA 515.3	0.07	0.1	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/24/2013 11:50:00 AM	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/22/2013 10:55:00 PM	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/22/2013 10:55:00 PM	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/22/2013 10:55:00 PM	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/22/2013 12:23:00 AM	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/22/2013 12:23:00 AM	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/22/2013 10:55:00 PM	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/24/2013 11:50:00 AM	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/22/2013 10:55:00 PM	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/22/2013 12:23:00 AM	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	4/6/2013 12:03:00 AM	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/22/2013 10:55:00 PM	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/24/2013 11:50:00 AM	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/24/2013 11:50:00 AM	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/24/2013 11:50:00 AM	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/24/2013 11:50:00 AM	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/24/2013 11:50:00 AM	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	4/6/2013 12:03:00 AM	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/22/2013 10:55:00 PM	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/22/2013 10:55:00 PM	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/22/2013 10:55:00 PM	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/22/2013 10:55:00 PM	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/24/2013 11:50:00 AM	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/24/2013 11:50:00 AM	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/12/2013 4:53:00 PM	Glyphosate	n/a	=	17	µg/L	EPA 547	1.8	5	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/24/2013 11:50:00 AM	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/24/2013 11:50:00 AM	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/22/2013 10:55:00 PM	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/22/2013 10:55:00 PM	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/24/2013 11:50:00 AM	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/22/2013 10:55:00 PM	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	4/6/2013 12:03:00 AM	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	4/6/2013 12:03:00 AM	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/22/2013 10:55:00 PM	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	4/6/2013 12:03:00 AM	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/22/2013 10:55:00 PM	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/22/2013 12:23:00 AM	Pentachlorophenol	n/a	=	0.2	µg/L	EPA 515.3	0.04	0.2	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/22/2013 10:55:00 PM	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/22/2013 12:23:00 AM	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	4/6/2013 12:03:00 AM	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	4/6/2013 12:03:00 AM	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/22/2013 10:55:00 PM	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	4/6/2013 12:03:00 AM	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/22/2013 10:55:00 PM	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	LB-LCSR
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	4/6/2013 12:03:00 AM	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	4/6/2013 12:03:00 AM	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/22/2013 10:55:00 PM	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/24/2013 11:50:00 AM	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	3/22/2013 10:55:00 PM	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-MPK	2012/13-4	Wet	3/8/2013 10:52:00 AM	4/6/2013 12:03:00 AM	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-MPK	2013-DRY	Dry	8/13/2013 9:55:00 AM	8/14/2013 9:00:00 AM	E. Coli	n/a	=	2143	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-MPK	2013-DRY	Dry	8/13/2013 9:55:00 AM	8/14/2013 9:00:00 AM	Total Coliform	n/a	=	248100	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	
MO-MPK	2013-DRY	Dry	8/13/2013 9:55:00 AM	8/22/2013 12:00:00 PM	Calcium	Total	=	55.6	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-MPK	2013-DRY	Dry	8/13/2013 9:55:00 AM	8/22/2013 12:00:00 PM	Magnesium	Total	=	23.8	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-MPK	2013-DRY	Dry	8/13/2013 9:55:00 AM	8/13/2013 9:55:00 AM	Conductivity	n/a	=	1093	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-MPK	2013-DRY	Dry	8/13/2013 9:55:00 AM	8/13/2013 9:55:00 AM	Discharge	n/a	=	0.02	cfs	Field Estimate	-88	-88	Field Crew	
MO-MPK	2013-DRY	Dry	8/13/2013 9:55:00 AM	8/13/2013 9:55:00 AM	DO	n/a	=	113.4	%	Field Meter	-88	0.1	Field Crew	
MO-MPK	2013-DRY	Dry	8/13/2013 9:55:00 AM	8/13/2013 9:55:00 AM	DO	n/a	=	10.13	mg/L	Field Meter	-88	0.3	Field Crew	
MO-MPK	2013-DRY	Dry	8/13/2013 9:55:00 AM	8/22/2013 12:00:00 PM	Hardness as CaCO3	Total	=	237	mg/L	EPA 200.7	0.0894	0.662	WKL	
MO-MPK	2013-DRY	Dry	8/13/2013 9:55:00 AM	8/13/2013 9:55:00 AM	pH	n/a	=	8.44	pH Units	Field Meter	-88	0.01	Field Crew	
MO-MPK	2013-DRY	Dry	8/13/2013 9:55:00 AM	8/13/2013 9:55:00 AM	Salinity	n/a	=	600	mg/L	Field Meter	-88	100	Field Crew	
MO-MPK	2013-DRY	Dry	8/13/2013 9:55:00 AM	8/13/2013 9:55:00 AM	Specific Conductance	n/a	=	1188	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-MPK	2013-DRY	Dry	8/13/2013 9:55:00 AM	8/13/2013 9:55:00 AM	Temperature	n/a	=	20.8	°C	Field Meter	-88	0.1	Field Crew	
MO-MPK	2013-DRY	Dry	8/13/2013 9:55:00 AM	8/19/2013 7:05:00 PM	Total Organic Carbon	n/a	=	16	mg/L	SM 5310 C	0.09	3	WKL	D
MO-MPK	2013-DRY	Dry	8/13/2013 9:55:00 AM	8/13/2013 9:55:00 AM	Turbidity	n/a	=	5.49	NTU	Field Meter	-88	0.01	Field Crew	
MO-MPK	2013-DRY	Dry	8/13/2013 9:55:00 AM	8/23/2013 11:21:00 PM	Copper	Dissolved	=	3.5	µg/L	EPA 200.8	0.036	0.5	WKL	
MO-MPK	2013-DRY	Dry	8/13/2013 9:55:00 AM	8/23/2013 11:21:00 PM	Lead	Dissolved	DNQ	0.05	µg/L	EPA 200.8	0.024	0.2	WKL	
MO-MPK	2013-DRY	Dry	8/13/2013 9:55:00 AM	8/23/2013 11:21:00 PM	Zinc	Dissolved	DNQ	3.8	µg/L	EPA 200.8	0.5	5	WKL	
MO-OJA	2012/13-1	Wet	10/11/2012 3:00:00 PM	10/12/2012 11:02:00 AM	E. Coli	n/a	=	6867	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-OJA	2012/13-1	Wet	10/11/2012 3:00:00 PM	10/14/2012 2:50:00 PM	Fecal Coliform	n/a	=	9000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-OJA	2012/13-1	Wet	10/11/2012 3:00:00 PM	10/12/2012 11:02:00 AM	Total Coliform	n/a	=	290900	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	
MO-OJA	2012/13-1	Wet	10/11/2012 3:00:00 PM	10/25/2012 1:18:00 PM	Cyanide	Total	DNQ	0.0032	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-OJA	2012/13-1	Wet	10/11/2012 3:00:00 PM	10/18/2012 6:52:00 PM	Oil and Grease	n/a	<	1.3	mg/L	EPA 1664A	1.3	5	WKL	
MO-OJA	2012/13-1	Wet	10/11/2012 3:00:00 PM	10/18/2012 6:52:00 PM	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-OJA	2012/13-1	Wet	10/11/2012 3:00:00 PM	10/20/2012 4:49:00 AM	2-Chloroethyl vinyl ether	n/a	<	6.1	µg/L	EPA 524.2	6.1	10	WKL	D
MO-OJA	2012/13-1	Wet	10/11/2012 3:00:00 PM	10/20/2012 4:49:00 AM	Methyl tert-butyl ether (MTBE)	n/a	<	1.9	µg/L	EPA 524.2	1.9	20	WKL	D
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/17/2012 2:16:00 AM	Chloride	n/a	=	17	mg/L	EPA 300.0	1	5	WKL	D
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/17/2012 2:16:00 AM	Fluoride	n/a	=	0.45	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/17/2012 8:10:00 PM	Perchlorate	n/a	<	0.95	µg/L	EPA 314.0	0.95	2	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/17/2012 4:13:00 PM	Calcium	Total	=	110	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/17/2012 4:13:00 PM	Magnesium	Total	=	17	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/22/2012 10:45:00 AM	Alkalinity as CaCO3	n/a	=	120	mg/L	SM 2320 B	0.56	2	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/17/2012 5:24:00 PM	BOD	n/a	=	68	mg/L	SM 5210 B	0.1	2	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/13/2012 7:00:00 PM	COD	n/a	=	510	mg/L	EPA 410.4	0.73	5	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/12/2012 9:23:00 AM	Conductivity	n/a	=	134.2	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/12/2012 9:23:00 AM	DO	n/a	=	100.4	%	Field Meter	-88	0.1	Field Crew	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/12/2012 9:23:00 AM	DO	n/a	=	9.54	mg/L	Field Meter	-88	0.3	Field Crew	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/17/2012 4:13:00 PM	Hardness as CaCO3	Total	=	340	mg/L	EPA 200.7	0.089	0.66	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/13/2012 4:59:00 PM	MBAS	n/a	=	0.44	mg/L	SM 5540 C	0.076	0.2	WKL	D
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/12/2012 9:23:00 AM	pH	n/a	=	7.23	pH Units	Field Meter	-88	0.01	Field Crew	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/23/2012 11:21:00 AM	Phenolics	n/a	=	0.13	mg/L	EPA 420.4	0.0042	0.01	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/12/2012 9:23:00 AM	Salinity	n/a	=	100	mg/L	Field Meter	-88	100	Field Crew	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/12/2012 9:23:00 AM	Specific Conductance	n/a	=	156.7	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/17/2012 11:00:00 AM	Specific Conductance	n/a	=	450	µmhos/cm	SM 2510 B	0.23	2	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/12/2012 9:23:00 AM	Temperature	n/a	=	17	°C	Field Meter	-88	0.1	Field Crew	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/16/2012 3:27:00 PM	Total Dissolved Solids	n/a	=	360	mg/L	SM 2540 C	4	10	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/22/2012 4:17:00 PM	Total Organic Carbon	n/a	=	93	mg/L	SM 5310 C	0.36	12	WKL	D
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/13/2012 6:30:00 PM	Total Suspended Solids	n/a	=	730	mg/L	SM 2540 D	5	5	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/12/2012 6:14:00 PM	Turbidity	n/a	=	170	NTU	EPA 180.1	0.024	0.1	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/13/2012 6:30:00 PM	Volatile Suspended Solids	n/a	=	170	mg/L	EPA 160.4	3.1	5	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/23/2012 6:39:00 PM	Aluminum	Dissolved	=	54	µg/L	EPA 200.8	0.61	5	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/23/2012 6:47:00 PM	Aluminum	Total	=	12000	µg/L	EPA 200.8	6.1	50	WKL	D
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/23/2012 6:39:00 PM	Antimony	Dissolved	=	0.85	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/23/2012 6:55:00 PM	Antimony	Total	=	1.1	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/23/2012 6:39:00 PM	Arsenic	Dissolved	=	2.2	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/23/2012 6:55:00 PM	Arsenic	Total	=	5.1	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/23/2012 6:39:00 PM	Beryllium	Dissolved	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/23/2012 6:55:00 PM	Beryllium	Total	=	0.65	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/23/2012 6:39:00 PM	Cadmium	Dissolved	<	0.02	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/23/2012 6:55:00 PM	Cadmium	Total	=	1.2	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/23/2012 6:39:00 PM	Chromium	Dissolved	=	0.99	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/23/2012 6:55:00 PM	Chromium	Total	=	20	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/16/2012 4:56:00 PM	Chromium VI	n/a	DNQ	0.19	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/23/2012 6:39:00 PM	Copper	Dissolved	=	4.2	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/23/2012 6:55:00 PM	Copper	Total	=	79	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/17/2012 4:11:00 PM	Iron	Dissolved	=	450	µg/L	EPA 200.7	1.1	10	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/17/2012 4:13:00 PM	Iron	Total	=	16000	µg/L	EPA 200.7	1.1	10	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/23/2012 6:39:00 PM	Lead	Dissolved	=	1	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/23/2012 6:55:00 PM	Lead	Total	=	36	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/23/2012 11:18:00 AM	Mercury	Dissolved	DNQ	30	ng/L	EPA 245.1	3.9	50	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/23/2012 11:18:00 AM	Mercury	Total	=	84	ng/L	EPA 245.1	3.9	50	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/23/2012 6:39:00 PM	Nickel	Dissolved	=	9.1	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/23/2012 6:55:00 PM	Nickel	Total	=	37	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/23/2012 6:39:00 PM	Selenium	Dissolved	DNQ	0.38	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/23/2012 6:55:00 PM	Selenium	Total	=	0.68	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/23/2012 6:39:00 PM	Silver	Dissolved	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/23/2012 6:55:00 PM	Silver	Total	=	0.22	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/23/2012 6:39:00 PM	Thallium	Dissolved	<	0.009	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/23/2012 6:55:00 PM	Thallium	Total	DNQ	0.16	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/23/2012 6:39:00 PM	Zinc	Dissolved	=	13	µg/L	EPA 200.8	1.1	5	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/23/2012 6:55:00 PM	Zinc	Total	=	510	µg/L	EPA 200.8	1.1	5	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/24/2012 12:29:00 PM	Ammonia as N	n/a	=	2.2	mg/L	EPA 350.1	0.096	0.2	WKL	D
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/12/2012 6:31:00 PM	Nitrate + Nitrite as N	n/a	<	0.01	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/29/2012 7:51:00 PM	Phosphorus as P	Dissolved	=	1.2	mg/L	EPA 365.1	0.014	0.1	WKL	D
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/29/2012 5:39:00 PM	Phosphorus as P	Total	=	2.5	mg/L	EPA 365.1	0.028	0.2	WKL	D
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/22/2012 10:02:00 PM	TKN	n/a	=	10	mg/L	EPA 351.2	0.37	0.5	WKL	D
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/19/2012 12:25:00 AM	1,2,4-Trichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/19/2012 12:25:00 AM	1,2-Dichlorobenzene	n/a	<	0.57	µg/L	EPA 625	0.57	1	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/19/2012 12:25:00 AM	1,2-Diphenylhydrazine	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/19/2012 12:25:00 AM	1,3-Dichlorobenzene	n/a	<	0.53	µg/L	EPA 625	0.53	1	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/19/2012 12:25:00 AM	1,4-Dichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/22/2012 4:49:00 PM	1-Methylnaphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/22/2012 12:25:00 PM	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/22/2012 12:25:00 PM	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/22/2012 12:25:00 PM	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/22/2012 12:25:00 PM	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/22/2012 12:25:00 PM	2,4-Dinitrophenol	n/a	DNQ	1.1	µg/L	EPA 8270Cm	1	2	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/19/2012 12:25:00 AM	2,4-Dinitrotoluene	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/19/2012 12:25:00 AM	2,6-Dinitrotoluene	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/19/2012 12:25:00 AM	2-Chloronaphthalene	n/a	<	0.45	µg/L	EPA 625	0.45	1	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/22/2012 12:25:00 PM	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/22/2012 4:49:00 PM	2-Methylnaphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/22/2012 12:25:00 PM	2-Methylphenol	n/a	=	2.5	µg/L	EPA 8270Cm	0.34	1	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/22/2012 12:25:00 PM	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/19/2012 12:25:00 AM	3,3'-Dichlorobenzidine	n/a	<	1.2	µg/L	EPA 625	1.2	5	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/22/2012 12:25:00 PM	3-/4-Methylphenol	n/a	DNQ	0.33	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/22/2012 12:25:00 PM	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/19/2012 12:25:00 AM	4-Bromophenyl phenyl ether	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/22/2012 12:25:00 PM	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	EUM
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/19/2012 12:25:00 AM	4-Chlorophenyl phenyl ether	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/22/2012 12:25:00 PM	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/22/2012 4:49:00 PM	Acenaphthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	EUM
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/22/2012 4:49:00 PM	Acenaphthylene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/22/2012 4:49:00 PM	Anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/22/2012 4:49:00 PM	Benz(a)anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/19/2012 12:25:00 AM	Benzidine	n/a	<	3.7	µg/L	EPA 625	3.7	10	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/24/2012 10:11:00 AM	Benzo(a)pyrene	n/a	<	0.078	µg/L	EPA 525.2	0.078	0.11	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/22/2012 4:49:00 PM	Benzo(b)fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/22/2012 4:49:00 PM	Benzo(g,h,i)perylene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/22/2012 4:49:00 PM	Benzo(k)fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/19/2012 12:25:00 AM	Bis(2-chloroethoxy)methane	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/19/2012 12:25:00 AM	Bis(2-chloroethyl)ether	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/19/2012 12:25:00 AM	Bis(2-chloroisopropyl)ether	n/a	<	0.38	µg/L	EPA 625	0.38	1	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/24/2012 10:11:00 AM	Bis(2-ethylhexyl)adipate	n/a	<	0.12	µg/L	EPA 525.2	0.12	5.6	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/24/2012 10:11:00 AM	Bis(2-ethylhexyl)phthalate	n/a	DNQ	2	µg/L	EPA 525.2	1.2	3.3	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/19/2012 12:25:00 AM	Butyl benzyl phthalate	n/a	DNQ	0.68	µg/L	EPA 625	0.18	1	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/22/2012 4:49:00 PM	Chrysene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/22/2012 4:49:00 PM	Dibenz(a,h)anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/19/2012 12:25:00 AM	Dibenz(a,h)anthracene	n/a	<	0.08	µg/L	EPA 625	0.08	2	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/19/2012 12:25:00 AM	Diethyl phthalate	n/a	DNQ	0.54	µg/L	EPA 625	0.15	1	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/19/2012 12:25:00 AM	Dimethyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/19/2012 12:25:00 AM	Di-n-butylphthalate	n/a	DNQ	0.25	µg/L	EPA 625	0.24	1	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/19/2012 12:25:00 AM	Di-n-octylphthalate	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/22/2012 4:49:00 PM	Fluoranthene	n/a	=	0.12	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/22/2012 4:49:00 PM	Fluorene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	EUM
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/19/2012 12:25:00 AM	Hexachlorobenzene	n/a	<	0.49	µg/L	EPA 625	0.49	1	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/19/2012 12:25:00 AM	Hexachlorobutadiene	n/a	<	0.47	µg/L	EPA 625	0.47	1	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/19/2012 12:25:00 AM	Hexachlorocyclopentadiene	n/a	<	1.5	µg/L	EPA 625	1.5	5	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/19/2012 12:25:00 AM	Hexachloroethane	n/a	<	0.52	µg/L	EPA 625	0.52	1	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/22/2012 4:49:00 PM	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/19/2012 12:25:00 AM	Isophorone	n/a	<	0.21	µg/L	EPA 625	0.21	1	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/22/2012 4:49:00 PM	Naphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/19/2012 12:25:00 AM	Nitrobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/19/2012 12:25:00 AM	N-Nitrosodimethylamine	n/a	<	0.14	µg/L	EPA 625	0.14	1	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/19/2012 12:25:00 AM	N-Nitrosodi-N-propylamine	n/a	<	0.26	µg/L	EPA 625	0.26	1	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/19/2012 12:25:00 AM	N-Nitrosodiphenylamine	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/22/2012 4:49:00 PM	Phenanthrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/22/2012 12:25:00 PM	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/22/2012 4:49:00 PM	Pyrene	n/a	=	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	EUM
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/18/2012 5:15:00 PM	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/18/2012 5:15:00 PM	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/18/2012 5:15:00 PM	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/18/2012 5:15:00 PM	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/18/2012 5:15:00 PM	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/18/2012 5:15:00 PM	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/18/2012 5:15:00 PM	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/16/2012 9:42:00 PM	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/16/2012 9:42:00 PM	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/16/2012 9:42:00 PM	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/16/2012 9:42:00 PM	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/16/2012 9:42:00 PM	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/18/2012 5:15:00 PM	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/18/2012 5:15:00 PM	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/18/2012 5:15:00 PM	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/16/2012 9:42:00 PM	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/24/2012 10:11:00 AM	Alachlor	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.11	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/18/2012 5:15:00 PM	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/18/2012 5:15:00 PM	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/18/2012 5:15:00 PM	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/24/2012 10:11:00 AM	Atrazine	n/a	<	0.038	µg/L	EPA 525.2	0.038	0.11	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	11/9/2012 12:03:00 PM	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/16/2012 9:42:00 PM	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/18/2012 5:15:00 PM	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	11/9/2012 12:03:00 PM	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/24/2012 10:11:00 AM	Bromacil	n/a	<	0.042	µg/L	EPA 525.2	0.042	1.1	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/24/2012 10:11:00 AM	Butachlor	n/a	<	0.019	µg/L	EPA 525.2	0.019	0.22	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/24/2012 10:11:00 AM	Captan	n/a	<	0.96	µg/L	EPA 525.2	0.96	1.1	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/18/2012 5:15:00 PM	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/24/2012 10:11:00 AM	Chloropropham	n/a	<	0.011	µg/L	EPA 525.2	0.011	0.11	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	11/9/2012 12:03:00 PM	Chlorpyrifos	n/a	=	0.023	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	11/9/2012 12:03:00 PM	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/24/2012 10:11:00 AM	Cyanazine	n/a	<	0.027	µg/L	EPA 525.2	0.027	0.11	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/16/2012 9:42:00 PM	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/16/2012 9:42:00 PM	DCPA (Dacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/18/2012 5:15:00 PM	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	11/9/2012 12:03:00 PM	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	11/9/2012 12:03:00 PM	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	11/9/2012 12:03:00 PM	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/16/2012 9:42:00 PM	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/16/2012 9:42:00 PM	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	11/9/2012 12:03:00 PM	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/18/2012 5:15:00 PM	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	11/9/2012 12:03:00 PM	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/16/2012 9:42:00 PM	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/24/2012 10:11:00 AM	Diphenamid	n/a	<	0.027	µg/L	EPA 525.2	0.027	0.11	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	11/9/2012 12:03:00 PM	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/18/2012 5:15:00 PM	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	GB
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/18/2012 5:15:00 PM	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/18/2012 5:15:00 PM	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/18/2012 5:15:00 PM	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/18/2012 5:15:00 PM	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/24/2012 10:11:00 AM	EPTC	n/a	<	0.019	µg/L	EPA 525.2	0.019	1.1	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	11/9/2012 12:03:00 PM	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	11/9/2012 12:03:00 PM	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	11/9/2012 12:03:00 PM	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	11/9/2012 12:03:00 PM	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/18/2012 5:15:00 PM	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/18/2012 5:15:00 PM	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/26/2012 7:24:00 PM	Glyphosate	n/a	<	9	µg/L	EPA 547	9	25	WKL	D
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/18/2012 5:15:00 PM	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/18/2012 5:15:00 PM	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	11/9/2012 12:03:00 PM	Malathion	n/a	=	0.26	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	11/9/2012 12:03:00 PM	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/18/2012 5:15:00 PM	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	11/9/2012 12:03:00 PM	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/24/2012 10:11:00 AM	Metolachlor	n/a	<	0.013	µg/L	EPA 525.2	0.013	0.11	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/24/2012 10:11:00 AM	Metribuzin	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.11	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	11/9/2012 12:03:00 PM	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/24/2012 10:11:00 AM	Molinate	n/a	<	0.043	µg/L	EPA 525.2	0.043	0.11	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	11/9/2012 12:03:00 PM	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/16/2012 9:42:00 PM	Pentachlorophenol	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.2	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	11/9/2012 12:03:00 PM	Phorate	n/a	DNQ	0.0082	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/16/2012 9:42:00 PM	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/24/2012 10:11:00 AM	Prometon	n/a	<	0.027	µg/L	EPA 525.2	0.027	0.22	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/24/2012 10:11:00 AM	Prometryn	n/a	<	0.04	µg/L	EPA 525.2	0.04	0.11	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	11/9/2012 12:03:00 PM	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/24/2012 10:11:00 AM	Simazine	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.11	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	11/9/2012 12:03:00 PM	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/24/2012 10:11:00 AM	Terbacil	n/a	<	0.61	µg/L	EPA 525.2	0.61	2.2	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/24/2012 10:11:00 AM	Thiobencarb	n/a	<	0.028	µg/L	EPA 525.2	0.028	0.22	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	11/9/2012 12:03:00 PM	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/18/2012 5:15:00 PM	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	11/9/2012 12:03:00 PM	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-OJA	2012/13-1	Wet	10/12/2012 9:23:00 AM	10/24/2012 10:11:00 AM	Trithion	n/a	<	0.013	µg/L	EPA 525.2	0.013	0.11	WKL	
MO-OJA	2012/13-2	Wet	11/17/2012 8:45:00 AM	11/18/2012 7:15:00 AM	E. Coli	n/a	=	25900	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	
MO-OJA	2012/13-2	Wet	11/17/2012 8:45:00 AM	11/20/2012 1:18:00 PM	Fecal Coliform	n/a	=	28000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-OJA	2012/13-2	Wet	11/17/2012 8:45:00 AM	11/18/2012 7:15:00 AM	Total Coliform	n/a	=	365400	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	
MO-OJA	2012/13-2	Wet	11/17/2012 8:45:00 AM	11/17/2012 8:45:00 AM	Conductivity	n/a	=	73.4	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-OJA	2012/13-2	Wet	11/17/2012 8:45:00 AM	12/6/2012 9:29:00 PM	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-OJA	2012/13-2	Wet	11/17/2012 8:45:00 AM	11/17/2012 8:45:00 AM	DO	n/a	=	102.4	%	Field Meter	-88	0.1	Field Crew	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OJA	2012/13-2	Wet	11/17/2012 8:45:00 AM	11/17/2012 8:45:00 AM	DO	n/a	=	10.14	mg/L	Field Meter	-88	0.3	Field Crew	
MO-OJA	2012/13-2	Wet	11/17/2012 8:45:00 AM	11/17/2012 8:45:00 AM	pH	n/a	=	7.15	pH Units	Field Meter	-88	0.01	Field Crew	
MO-OJA	2012/13-2	Wet	11/17/2012 8:45:00 AM	11/17/2012 8:45:00 AM	Salinity	n/a	<	100	mg/L	Field Meter	-88	100	Field Crew	
MO-OJA	2012/13-2	Wet	11/17/2012 8:45:00 AM	11/17/2012 8:45:00 AM	Specific Conductance	n/a	=	92.5	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-OJA	2012/13-2	Wet	11/17/2012 8:45:00 AM	11/17/2012 8:45:00 AM	Temperature	n/a	=	14.5	°C	Field Meter	-88	0.1	Field Crew	
MO-OJA	2012/13-2	Wet	11/17/2012 8:45:00 AM	11/27/2012 4:55:00 PM	Oil and Grease	n/a	<	1.3	mg/L	EPA 1664A	1.3	5	WKL	
MO-OJA	2012/13-2	Wet	11/17/2012 8:45:00 AM	11/27/2012 4:55:00 PM	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-OJA	2012/13-2	Wet	11/17/2012 8:45:00 AM	11/27/2012 6:14:00 PM	2-Chloroethyl vinyl ether	n/a	<	0.61	µg/L	EPA 524.2	0.61	1	WKL	
MO-OJA	2012/13-2	Wet	11/17/2012 8:45:00 AM	11/27/2012 6:14:00 PM	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/28/2012 12:29:00 PM	Chloride	n/a	=	4.9	mg/L	EPA 300.0	0.2	1	WKL	D
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/28/2012 12:29:00 PM	Fluoride	n/a	DNQ	0.061	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/21/2012 4:57:00 PM	Perchlorate	n/a	<	0.95	µg/L	EPA 314.0	0.95	2	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/27/2012 5:33:00 PM	Calcium	Total	=	15.8	mg/L	EPA 200.7	0.0156	0.1	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/27/2012 5:33:00 PM	Magnesium	Total	=	3.55	mg/L	EPA 200.7	0.0121	0.1	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/30/2012 4:45:00 PM	Alkalinity as CaCO3	n/a	=	43	mg/L	SM 2320 B	0.56	2	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/24/2012 12:30:00 PM	BOD	n/a	=	24	mg/L	SM 5210 B	0.1	2	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/27/2012 9:06:00 AM	COD	n/a	=	110	mg/L	EPA 410.4	0.73	5	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/27/2012 5:33:00 PM	Hardness as CaCO3	Total	=	54.2	mg/L	EPA 200.7	0.0885	0.662	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/19/2012 9:46:00 PM	MBAS	n/a	=	0.13	mg/L	SM 5540 C	0.038	0.1	WKL	D
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/30/2012 2:52:00 PM	Phenolics	n/a	=	0.076	mg/L	EPA 420.4	0.0042	0.01	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/30/2012 11:00:00 AM	Specific Conductance	n/a	=	130	µmhos/cm	SM 2510 B	0.23	2	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/21/2012 11:58:00 AM	Total Dissolved Solids	n/a	=	84	mg/L	SM 2540 C	4	10	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/26/2012 10:48:00 AM	Total Organic Carbon	n/a	=	20	mg/L	SM 5310 C	0.09	3	WKL	D
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/20/2012 7:20:00 PM	Total Suspended Solids	n/a	=	190	mg/L	SM 2540 D	5	5	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/19/2012 10:13:00 PM	Turbidity	n/a	=	59	NTU	EPA 180.1	0.024	0.1	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/20/2012 7:20:00 PM	Volatile Suspended Solids	n/a	=	41	mg/L	EPA 160.4	3.1	5	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	12/1/2012 2:20:00 AM	Aluminum	Dissolved	=	44	µg/L	EPA 200.8	0.61	5	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	12/1/2012 2:28:00 AM	Aluminum	Total	=	3400	µg/L	EPA 200.8	0.61	5	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	12/1/2012 2:20:00 AM	Antimony	Dissolved	DNQ	0.37	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	12/1/2012 2:28:00 AM	Antimony	Total	=	0.61	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	12/1/2012 2:20:00 AM	Arsenic	Dissolved	=	1.1	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	12/1/2012 2:28:00 AM	Arsenic	Total	=	2.2	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	12/1/2012 2:20:00 AM	Beryllium	Dissolved	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	12/1/2012 2:28:00 AM	Beryllium	Total	=	0.18	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	12/1/2012 2:20:00 AM	Cadmium	Dissolved	DNQ	0.03	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	12/1/2012 2:28:00 AM	Cadmium	Total	=	0.23	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	12/1/2012 2:20:00 AM	Chromium	Dissolved	=	0.38	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	12/1/2012 2:28:00 AM	Chromium	Total	=	5.4	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	12/3/2012 7:33:00 PM	Chromium VI	n/a	DNQ	0.18	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	12/1/2012 2:20:00 AM	Copper	Dissolved	=	6.2	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	12/1/2012 2:28:00 AM	Copper	Total	=	21	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/27/2012 5:30:00 PM	Iron	Dissolved	=	64	µg/L	EPA 200.7	1.1	10	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/27/2012 5:33:00 PM	Iron	Total	=	4500	µg/L	EPA 200.7	1.1	10	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	12/1/2012 2:20:00 AM	Lead	Dissolved	=	0.38	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	12/1/2012 2:28:00 AM	Lead	Total	=	8.7	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	12/11/2012 3:45:00 PM	Mercury	Dissolved	DNQ	29	ng/L	EPA 245.1	3.9	50	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	12/11/2012 3:45:00 PM	Mercury	Total	=	63	ng/L	EPA 245.1	3.9	50	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	12/1/2012 2:20:00 AM	Nickel	Dissolved	=	1.8	µg/L	EPA 200.8	0.13	0.8	WKL	

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	12/1/2012 2:28:00 AM	Nickel	Total	=	8.8	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	12/1/2012 2:20:00 AM	Selenium	Dissolved	<	0.28	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	12/1/2012 2:28:00 AM	Selenium	Total	<	0.28	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	12/1/2012 2:20:00 AM	Silver	Dissolved	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	12/1/2012 2:28:00 AM	Silver	Total	DNQ	0.05	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	12/1/2012 2:20:00 AM	Thallium	Dissolved	DNQ	0.01	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	12/1/2012 2:28:00 AM	Thallium	Total	DNQ	0.06	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	12/1/2012 2:20:00 AM	Zinc	Dissolved	=	23	µg/L	EPA 200.8	1.1	5	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	12/1/2012 2:28:00 AM	Zinc	Total	=	120	µg/L	EPA 200.8	1.1	5	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	12/5/2012 5:39:00 PM	Ammonia as N	n/a	=	0.36	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/19/2012 6:51:00 PM	Nitrate + Nitrite as N	n/a	=	0.6	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	12/14/2012 12:57:00 PM	Phosphorus as P	Dissolved	=	0.45	mg/L	EPA 365.1	0.0056	0.04	WKL	D, DG
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	12/14/2012 11:29:00 AM	Phosphorus as P	Total	=	0.83	mg/L	EPA 365.1	0.007	0.05	WKL	DG
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/28/2012 3:49:00 PM	TKN	n/a	=	2.6	mg/L	EPA 351.2	0.074	0.1	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/28/2012 12:35:00 AM	1,2,4-Trichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/28/2012 12:35:00 AM	1,2-Dichlorobenzene	n/a	<	0.57	µg/L	EPA 625	0.57	1	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/28/2012 12:35:00 AM	1,2-Diphenylhydrazine	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/28/2012 12:35:00 AM	1,3-Dichlorobenzene	n/a	<	0.53	µg/L	EPA 625	0.53	1	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/28/2012 12:35:00 AM	1,4-Dichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/29/2012 1:50:00 AM	1-Methylnaphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/29/2012 6:37:00 PM	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/29/2012 6:37:00 PM	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	EUM
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/29/2012 6:37:00 PM	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/29/2012 6:37:00 PM	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/29/2012 6:37:00 PM	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/28/2012 12:35:00 AM	2,4-Dinitrotoluene	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/28/2012 12:35:00 AM	2,6-Dinitrotoluene	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/28/2012 12:35:00 AM	2-Chloronaphthalene	n/a	<	0.45	µg/L	EPA 625	0.45	1	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/29/2012 6:37:00 PM	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	EUM
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/29/2012 1:50:00 AM	2-Methylnaphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/29/2012 6:37:00 PM	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/29/2012 6:37:00 PM	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/28/2012 12:35:00 AM	3,3'-Dichlorobenzidine	n/a	<	1.2	µg/L	EPA 625	1.2	5	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/29/2012 6:37:00 PM	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/29/2012 6:37:00 PM	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/28/2012 12:35:00 AM	4-Bromophenyl phenyl ether	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/29/2012 6:37:00 PM	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/28/2012 12:35:00 AM	4-Chlorophenyl phenyl ether	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/29/2012 6:37:00 PM	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/29/2012 1:50:00 AM	Acenaphthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	EUM
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/29/2012 1:50:00 AM	Acenaphthylene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/29/2012 1:50:00 AM	Anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/29/2012 1:50:00 AM	Benz(a)anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/28/2012 12:35:00 AM	Benzidine	n/a	<	3.7	µg/L	EPA 625	3.7	10	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	12/4/2012 5:00:00 AM	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/29/2012 1:50:00 AM	Benzo(b)fluoranthene	n/a	=	0.11	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/29/2012 1:50:00 AM	Benzo(g,h,i)perylene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/29/2012 1:50:00 AM	Benzo(k)fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/28/2012 12:35:00 AM	Bis(2-chloroethoxy)methane	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/28/2012 12:35:00 AM	Bis(2-chloroethyl)ether	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/28/2012 12:35:00 AM	Bis(2-chloroisopropyl)ether	n/a	<	0.38	µg/L	EPA 625	0.38	1	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	12/4/2012 5:00:00 AM	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	12/4/2012 5:00:00 AM	Bis(2-ethylhexyl)phthalate	n/a	DNQ	1.2	µg/L	EPA 525.2	1.1	3	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/28/2012 12:35:00 AM	Butyl benzyl phthalate	n/a	DNQ	0.21	µg/L	EPA 625	0.18	1	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/29/2012 1:50:00 AM	Chrysene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/29/2012 1:50:00 AM	Dibenz(a,h)anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/28/2012 12:35:00 AM	Diethyl phthalate	n/a	DNQ	0.66	µg/L	EPA 625	0.15	1	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/28/2012 12:35:00 AM	Dimethyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/28/2012 12:35:00 AM	Di-n-butylphthalate	n/a	<	0.24	µg/L	EPA 625	0.24	1	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/28/2012 12:35:00 AM	Di-n-octylphthalate	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/29/2012 1:50:00 AM	Fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/29/2012 1:50:00 AM	Fluorene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	EUM
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/28/2012 12:35:00 AM	Hexachlorobenzene	n/a	<	0.49	µg/L	EPA 625	0.49	1	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/28/2012 12:35:00 AM	Hexachlorobutadiene	n/a	<	0.47	µg/L	EPA 625	0.47	1	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/28/2012 12:35:00 AM	Hexachlorocyclopentadiene	n/a	<	1.5	µg/L	EPA 625	1.5	5	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/28/2012 12:35:00 AM	Hexachloroethane	n/a	<	0.52	µg/L	EPA 625	0.52	1	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/29/2012 1:50:00 AM	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/28/2012 12:35:00 AM	Isophorone	n/a	<	0.21	µg/L	EPA 625	0.21	1	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/29/2012 1:50:00 AM	Naphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/28/2012 12:35:00 AM	Nitrobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/28/2012 12:35:00 AM	N-Nitrosodimethylamine	n/a	<	0.14	µg/L	EPA 625	0.14	1	WKL	EUM
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/28/2012 12:35:00 AM	N-Nitrosodi-N-propylamine	n/a	<	0.26	µg/L	EPA 625	0.26	1	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/28/2012 12:35:00 AM	N-Nitrosodiphenylamine	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/29/2012 1:50:00 AM	Phenanthrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	EUM
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/29/2012 6:37:00 PM	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/29/2012 1:50:00 AM	Pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	EUM
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/28/2012 12:23:00 AM	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/28/2012 12:23:00 AM	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/28/2012 12:23:00 AM	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/28/2012 12:23:00 AM	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/28/2012 12:23:00 AM	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/28/2012 12:23:00 AM	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/28/2012 12:23:00 AM	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	12/1/2012 10:56:00 PM	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	12/1/2012 10:56:00 PM	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	12/1/2012 10:56:00 PM	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	12/1/2012 10:56:00 PM	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	12/1/2012 10:56:00 PM	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/28/2012 12:23:00 AM	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/28/2012 12:23:00 AM	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/28/2012 12:23:00 AM	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	12/1/2012 10:56:00 PM	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	12/4/2012 5:00:00 AM	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/28/2012 12:23:00 AM	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/28/2012 12:23:00 AM	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/28/2012 12:23:00 AM	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	12/4/2012 5:00:00 AM	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	12/13/2012 2:49:00 PM	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	EUM
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	12/1/2012 10:56:00 PM	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/28/2012 12:23:00 AM	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	12/13/2012 2:49:00 PM	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	12/4/2012 5:00:00 AM	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	12/4/2012 5:00:00 AM	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	12/4/2012 5:00:00 AM	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/28/2012 12:23:00 AM	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	12/4/2012 5:00:00 AM	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	12/13/2012 2:49:00 PM	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	12/13/2012 2:49:00 PM	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	12/4/2012 5:00:00 AM	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	12/1/2012 10:56:00 PM	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	12/1/2012 10:56:00 PM	DCPA (Dacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/28/2012 12:23:00 AM	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	12/13/2012 2:49:00 PM	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	12/13/2012 2:49:00 PM	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	12/13/2012 2:49:00 PM	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	12/1/2012 10:56:00 PM	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	12/1/2012 10:56:00 PM	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	12/13/2012 2:49:00 PM	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/28/2012 12:23:00 AM	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	12/13/2012 2:49:00 PM	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	12/1/2012 10:56:00 PM	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	12/4/2012 5:00:00 AM	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	12/13/2012 2:49:00 PM	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/28/2012 12:23:00 AM	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/28/2012 12:23:00 AM	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/28/2012 12:23:00 AM	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/28/2012 12:23:00 AM	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/28/2012 12:23:00 AM	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	12/4/2012 5:00:00 AM	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	12/13/2012 2:49:00 PM	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	12/13/2012 2:49:00 PM	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	12/13/2012 2:49:00 PM	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	12/13/2012 2:49:00 PM	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/28/2012 12:23:00 AM	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/28/2012 12:23:00 AM	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/28/2012 6:40:00 PM	Glyphosate	n/a	=	8.1	µg/L	EPA 547	1.8	5	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/28/2012 12:23:00 AM	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/28/2012 12:23:00 AM	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	12/13/2012 2:49:00 PM	Malathion	n/a	=	0.17	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	12/13/2012 2:49:00 PM	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/28/2012 12:23:00 AM	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	12/13/2012 2:49:00 PM	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	12/4/2012 5:00:00 AM	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	12/4/2012 5:00:00 AM	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	12/13/2012 2:49:00 PM	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	12/4/2012 5:00:00 AM	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	12/13/2012 2:49:00 PM	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.1	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	12/1/2012 10:56:00 PM	Pentachlorophenol	n/a	DNQ	0.13	µg/L	EPA 515.3	0.04	0.2	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	12/13/2012 2:49:00 PM	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	12/1/2012 10:56:00 PM	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	12/4/2012 5:00:00 AM	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	12/4/2012 5:00:00 AM	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	12/13/2012 2:49:00 PM	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	12/4/2012 5:00:00 AM	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	12/13/2012 2:49:00 PM	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	12/4/2012 5:00:00 AM	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	12/4/2012 5:00:00 AM	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	12/13/2012 2:49:00 PM	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	11/28/2012 12:23:00 AM	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	12/13/2012 2:49:00 PM	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-OJA	2012/13-2	Wet	11/18/2012 9:00:00 AM	12/4/2012 5:00:00 AM	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-OJA	2012/13-4	Wet	3/7/2013 11:45:00 PM	3/8/2013 11:02:00 PM	E. Coli	n/a	=	126600	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	
MO-OJA	2012/13-4	Wet	3/7/2013 11:45:00 PM	3/10/2013 3:35:00 AM	Fecal Coliform	n/a	=	170000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-OJA	2012/13-4	Wet	3/7/2013 11:45:00 PM	3/8/2013 11:02:00 PM	Total Coliform	n/a	=	547500	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	
MO-OJA	2012/13-4	Wet	3/7/2013 11:45:00 PM	3/7/2013 11:45:00 PM	Conductivity	n/a	=	61.6	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-OJA	2012/13-4	Wet	3/7/2013 11:45:00 PM	3/22/2013 1:59:00 PM	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-OJA	2012/13-4	Wet	3/7/2013 11:45:00 PM	3/7/2013 11:45:00 PM	DO	n/a	=	10.3	mg/L	Field Meter	-88	0.3	Field Crew	
MO-OJA	2012/13-4	Wet	3/7/2013 11:45:00 PM	3/7/2013 11:45:00 PM	DO	n/a	=	94.3	%	Field Meter	-88	0.1	Field Crew	
MO-OJA	2012/13-4	Wet	3/7/2013 11:45:00 PM	3/7/2013 11:45:00 PM	pH	n/a	=	8	pH Units	Field Meter	-88	0.01	Field Crew	
MO-OJA	2012/13-4	Wet	3/7/2013 11:45:00 PM	3/7/2013 11:45:00 PM	Salinity	n/a	<	100	mg/L	Field Meter	-88	100	Field Crew	
MO-OJA	2012/13-4	Wet	3/7/2013 11:45:00 PM	3/7/2013 11:45:00 PM	Specific Conductance	n/a	=	78.1	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-OJA	2012/13-4	Wet	3/7/2013 11:45:00 PM	3/7/2013 11:45:00 PM	Temperature	n/a	=	11.1	°C	Field Meter	-88	0.1	Field Crew	
MO-OJA	2012/13-4	Wet	3/7/2013 11:45:00 PM	3/14/2013 3:00:00 PM	Oil and Grease	n/a	DNQ	1.9	mg/L	EPA 1664A	1.3	5	WKL	
MO-OJA	2012/13-4	Wet	3/7/2013 11:45:00 PM	3/14/2013 3:00:00 PM	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-OJA	2012/13-4	Wet	3/7/2013 11:45:00 PM	3/11/2013 5:03:00 PM	2-Chloroethyl vinyl ether	n/a	<	0.61	µg/L	EPA 524.2	0.61	1	WKL	
MO-OJA	2012/13-4	Wet	3/7/2013 11:45:00 PM	3/11/2013 5:03:00 PM	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/19/2013 8:50:00 PM	Chloride	n/a	=	3.2	mg/L	EPA 300.0	0.1	0.5	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/19/2013 8:50:00 PM	Fluoride	n/a	DNQ	0.094	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/19/2013 5:42:00 PM	Perchlorate	n/a	<	0.95	µg/L	EPA 314.0	0.95	2	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/14/2013 11:30:00 AM	Calcium	Total	=	23.4	mg/L	EPA 200.7	0.0156	0.1	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/14/2013 11:30:00 AM	Magnesium	Total	=	4.49	mg/L	EPA 200.7	0.0121	0.1	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/22/2013 10:05:00 AM	Alkalinity as CaCO3	n/a	=	57	mg/L	SM 2320 B	0.56	10	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/14/2013 2:00:00 PM	BOD	n/a	=	19	mg/L	SM 5210 B	0.1	2	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/20/2013 10:56:00 PM	COD	n/a	=	150	mg/L	EPA 410.4	0.73	5	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/14/2013 11:30:00 AM	Hardness as CaCO3	Total	=	77	mg/L	EPA 200.7	0.0885	0.662	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/9/2013 8:43:00 PM	MBAS	n/a	=	0.18	mg/L	SM 5540 C	0.038	0.1	WKL	D
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/26/2013 12:00:00 PM	Phenolics	n/a	=	0.058	mg/L	EPA 420.4	0.0042	0.01	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/18/2013 3:18:00 PM	Specific Conductance	n/a	=	130	µmhos/cm	SM 2510 B	0.23	2	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/12/2013 9:45:00 PM	Total Dissolved Solids	n/a	=	57	mg/L	SM 2540 C	4	10	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/14/2013 2:56:00 PM	Total Organic Carbon	n/a	=	9.9	mg/L	SM 5310 C	0.036	1.2	WKL	D
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/12/2013 8:00:00 PM	Total Suspended Solids	n/a	=	190	mg/L	SM 2540 D	5	5	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/9/2013 6:55:00 PM	Turbidity	n/a	=	42	NTU	EPA 180.1	0.024	0.1	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/12/2013 8:00:00 PM	Volatile Suspended Solids	n/a	=	45	mg/L	EPA 160.4	3.1	5	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/1/2013 6:17:00 PM	Aluminum	Dissolved	=	26	µg/L	EPA 200.8	0.61	5	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/1/2013 9:48:00 PM	Aluminum	Total	=	6000	µg/L	EPA 200.8	2.1	5	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/1/2013 6:17:00 PM	Antimony	Dissolved	DNQ	0.33	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/1/2013 9:48:00 PM	Antimony	Total	=	0.85	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/1/2013 6:17:00 PM	Arsenic	Dissolved	=	0.85	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/1/2013 9:48:00 PM	Arsenic	Total	=	2.5	µg/L	EPA 200.8	0.13	0.4	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/2/2013 1:02:00 PM	Beryllium	Dissolved	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/2/2013 2:26:00 PM	Beryllium	Total	=	0.24	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/1/2013 6:17:00 PM	Cadmium	Dissolved	<	0.02	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/1/2013 9:48:00 PM	Cadmium	Total	=	0.4	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/1/2013 6:17:00 PM	Chromium	Dissolved	=	0.28	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/1/2013 9:48:00 PM	Chromium	Total	=	10	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/13/2013 3:51:00 PM	Chromium VI	n/a	DNQ	0.22	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/1/2013 6:17:00 PM	Copper	Dissolved	=	4.3	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/1/2013 9:48:00 PM	Copper	Total	=	38	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/14/2013 11:28:00 AM	Iron	Dissolved	=	70	µg/L	EPA 200.7	1.1	10	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/14/2013 11:30:00 AM	Iron	Total	=	8300	µg/L	EPA 200.7	1.1	10	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/2/2013 1:02:00 PM	Lead	Dissolved	=	0.37	µg/L	EPA 200.8	0.011	0.2	WKL	UL-MB
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/2/2013 2:26:00 PM	Lead	Total	=	17	µg/L	EPA 200.8	0.035	0.2	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/27/2013 4:18:00 PM	Mercury	Dissolved	=	65	ng/L	EPA 245.1	3.9	50	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/27/2013 4:18:00 PM	Mercury	Total	=	85	ng/L	EPA 245.1	3.9	50	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/1/2013 6:17:00 PM	Nickel	Dissolved	=	1.2	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/1/2013 9:48:00 PM	Nickel	Total	=	13	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/1/2013 6:17:00 PM	Selenium	Dissolved	<	0.28	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/1/2013 9:48:00 PM	Selenium	Total	<	0.28	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/1/2013 6:17:00 PM	Silver	Dissolved	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/1/2013 9:48:00 PM	Silver	Total	DNQ	0.09	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/1/2013 6:17:00 PM	Thallium	Dissolved	DNQ	0.01	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/1/2013 9:48:00 PM	Thallium	Total	DNQ	0.1	µg/L	EPA 200.8	0.034	0.2	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/1/2013 6:17:00 PM	Zinc	Dissolved	=	7.8	µg/L	EPA 200.8	1.1	5	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/1/2013 9:48:00 PM	Zinc	Total	=	200	µg/L	EPA 200.8	1.1	5	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/20/2013 6:49:00 PM	Ammonia as N	n/a	=	0.36	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/11/2013 5:20:00 PM	Nitrate + Nitrite as N	n/a	=	0.45	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/4/2013 7:40:00 PM	Phosphorus as P	Dissolved	=	0.17	mg/L	EPA 365.1	0.0014	0.01	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/15/2013 2:32:00 PM	Phosphorus as P	Total	=	0.74	mg/L	EPA 365.1	0.007	0.05	WKL	D
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/21/2013 1:15:00 PM	TKN	n/a	=	3.2	mg/L	EPA 351.2	0.074	0.1	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/19/2013 12:42:00 AM	1,2,4-Trichlorobenzene	n/a	<	5.5	µg/L	EPA 625	5.5	10	WKL	D
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/19/2013 12:42:00 AM	1,2-Dichlorobenzene	n/a	<	5.7	µg/L	EPA 625	5.7	10	WKL	D
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/19/2013 12:42:00 AM	1,2-Diphenylhydrazine	n/a	<	2.5	µg/L	EPA 625	2.5	10	WKL	D
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/19/2013 12:42:00 AM	1,3-Dichlorobenzene	n/a	<	5.3	µg/L	EPA 625	5.3	10	WKL	D
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/19/2013 12:42:00 AM	1,4-Dichlorobenzene	n/a	<	5.5	µg/L	EPA 625	5.5	10	WKL	D
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/9/2013 9:21:00 PM	1-Methylnaphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/11/2013 3:36:00 AM	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/11/2013 3:36:00 AM	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/11/2013 3:36:00 AM	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/11/2013 3:36:00 AM	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/11/2013 3:36:00 AM	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/19/2013 12:42:00 AM	2,4-Dinitrotoluene	n/a	<	1.8	µg/L	EPA 625	1.8	10	WKL	D
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/19/2013 12:42:00 AM	2,6-Dinitrotoluene	n/a	<	2.7	µg/L	EPA 625	2.7	10	WKL	D
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/19/2013 12:42:00 AM	2-Chloronaphthalene	n/a	<	4.5	µg/L	EPA 625	4.5	10	WKL	D
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/11/2013 3:36:00 AM	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/9/2013 9:21:00 PM	2-Methylnaphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/11/2013 3:36:00 AM	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/11/2013 3:36:00 AM	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/19/2013 12:42:00 AM	3,3'-Dichlorobenzidine	n/a	<	12	µg/L	EPA 625	12	50	WKL	D
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/11/2013 3:36:00 AM	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/11/2013 3:36:00 AM	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/19/2013 12:42:00 AM	4-Bromophenyl phenyl ether	n/a	<	3.6	µg/L	EPA 625	3.6	10	WKL	D
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/11/2013 3:36:00 AM	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/19/2013 12:42:00 AM	4-Chlorophenyl phenyl ether	n/a	<	4.1	µg/L	EPA 625	4.1	10	WKL	D
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/11/2013 3:36:00 AM	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/9/2013 9:21:00 PM	Acenaphthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/9/2013 9:21:00 PM	Acenaphthylene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/9/2013 9:21:00 PM	Anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/9/2013 9:21:00 PM	Benz(a)anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/19/2013 12:42:00 AM	Benzidine	n/a	<	37	µg/L	EPA 625	37	100	WKL	D
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/26/2013 6:56:00 PM	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/9/2013 9:21:00 PM	Benzo(b)fluoranthene	n/a	=	0.15	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/9/2013 9:21:00 PM	Benzo(g,h,i)perylene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/9/2013 9:21:00 PM	Benzo(k)fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/19/2013 12:42:00 AM	Bis(2-chloroethoxy)methane	n/a	<	2.5	µg/L	EPA 625	2.5	10	WKL	D
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/19/2013 12:42:00 AM	Bis(2-chloroethyl)ether	n/a	<	2.7	µg/L	EPA 625	2.7	10	WKL	D
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/19/2013 12:42:00 AM	Bis(2-chloroisopropyl)ether	n/a	<	3.8	µg/L	EPA 625	3.8	10	WKL	D
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/26/2013 6:56:00 PM	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/26/2013 6:56:00 PM	Bis(2-ethylhexyl)phthalate	n/a	=	4.6	µg/L	EPA 525.2	1.1	3	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/19/2013 12:42:00 AM	Butyl benzyl phthalate	n/a	<	1.8	µg/L	EPA 625	1.8	10	WKL	D
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/9/2013 9:21:00 PM	Chrysene	n/a	=	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/9/2013 9:21:00 PM	Dibenz(a,h)anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/19/2013 12:42:00 AM	Diethyl phthalate	n/a	DNQ	1.9	µg/L	EPA 625	1.5	10	WKL	D
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/19/2013 12:42:00 AM	Dimethyl phthalate	n/a	<	1.8	µg/L	EPA 625	1.8	10	WKL	D
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/19/2013 12:42:00 AM	Di-n-butylphthalate	n/a	<	2.4	µg/L	EPA 625	2.4	10	WKL	D
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/19/2013 12:42:00 AM	Di-n-octylphthalate	n/a	<	1.9	µg/L	EPA 625	1.9	10	WKL	D
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/9/2013 9:21:00 PM	Fluoranthene	n/a	=	0.18	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/9/2013 9:21:00 PM	Fluorene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/19/2013 12:42:00 AM	Hexachlorobenzene	n/a	<	4.9	µg/L	EPA 625	4.9	10	WKL	D
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/19/2013 12:42:00 AM	Hexachlorobutadiene	n/a	<	4.7	µg/L	EPA 625	4.7	10	WKL	D
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/19/2013 12:42:00 AM	Hexachlorocyclopentadiene	n/a	<	15	µg/L	EPA 625	15	50	WKL	D
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/19/2013 12:42:00 AM	Hexachloroethane	n/a	<	5.2	µg/L	EPA 625	5.2	10	WKL	D
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/9/2013 9:21:00 PM	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/19/2013 12:42:00 AM	Isophorone	n/a	<	2.1	µg/L	EPA 625	2.1	10	WKL	D
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/9/2013 9:21:00 PM	Naphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/19/2013 12:42:00 AM	Nitrobenzene	n/a	<	3.6	µg/L	EPA 625	3.6	10	WKL	D
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/19/2013 12:42:00 AM	N-Nitrosodimethylamine	n/a	<	1.4	µg/L	EPA 625	1.4	10	WKL	D
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/19/2013 12:42:00 AM	N-Nitrosodi-N-propylamine	n/a	<	2.6	µg/L	EPA 625	2.6	10	WKL	D
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/19/2013 12:42:00 AM	N-Nitrosodiphenylamine	n/a	<	1.9	µg/L	EPA 625	1.9	10	WKL	D

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/9/2013 9:21:00 PM	Phenanthrene	n/a	=	0.13	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/11/2013 3:36:00 AM	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/9/2013 9:21:00 PM	Pyrene	n/a	=	0.16	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/24/2013 6:37:00 AM	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/24/2013 6:37:00 AM	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/24/2013 6:37:00 AM	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/24/2013 6:37:00 AM	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/24/2013 6:37:00 AM	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/24/2013 6:37:00 AM	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/24/2013 6:37:00 AM	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/21/2013 8:47:00 PM	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/21/2013 8:47:00 PM	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/21/2013 8:47:00 PM	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/21/2013 8:47:00 PM	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/21/2013 8:47:00 PM	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/24/2013 6:37:00 AM	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/24/2013 6:37:00 AM	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/24/2013 6:37:00 AM	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/21/2013 8:47:00 PM	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/26/2013 6:56:00 PM	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/24/2013 6:37:00 AM	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/24/2013 6:37:00 AM	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/24/2013 6:37:00 AM	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/26/2013 6:56:00 PM	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/12/2013 4:46:00 AM	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	LB-LCSR
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/21/2013 8:47:00 PM	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/24/2013 6:37:00 AM	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/12/2013 4:46:00 AM	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/26/2013 6:56:00 PM	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/26/2013 6:56:00 PM	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/26/2013 6:56:00 PM	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/24/2013 6:37:00 AM	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/26/2013 6:56:00 PM	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/12/2013 4:46:00 AM	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/12/2013 4:46:00 AM	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/26/2013 6:56:00 PM	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/21/2013 8:47:00 PM	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/21/2013 8:47:00 PM	DCPA (Dacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/24/2013 6:37:00 AM	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/12/2013 4:46:00 AM	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/12/2013 4:46:00 AM	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/12/2013 4:46:00 AM	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/21/2013 8:47:00 PM	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/21/2013 8:47:00 PM	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/12/2013 4:46:00 AM	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/24/2013 6:37:00 AM	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/12/2013 4:46:00 AM	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/21/2013 8:47:00 PM	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/26/2013 6:56:00 PM	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/12/2013 4:46:00 AM	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/24/2013 6:37:00 AM	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/24/2013 6:37:00 AM	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/24/2013 6:37:00 AM	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/24/2013 6:37:00 AM	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/24/2013 6:37:00 AM	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/26/2013 6:56:00 PM	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/12/2013 4:46:00 AM	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/12/2013 4:46:00 AM	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/12/2013 4:46:00 AM	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/12/2013 4:46:00 AM	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/24/2013 6:37:00 AM	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/24/2013 6:37:00 AM	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/12/2013 4:53:00 PM	Glyphosate	n/a	=	12	µg/L	EPA 547	1.8	5	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/24/2013 6:37:00 AM	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/24/2013 6:37:00 AM	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/12/2013 4:46:00 AM	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/12/2013 4:46:00 AM	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/24/2013 6:37:00 AM	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/12/2013 4:46:00 AM	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/26/2013 6:56:00 PM	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/26/2013 6:56:00 PM	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/12/2013 4:46:00 AM	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/26/2013 6:56:00 PM	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/12/2013 4:46:00 AM	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/21/2013 8:47:00 PM	Pentachlorophenol	n/a	=	0.39	µg/L	EPA 515.3	0.04	0.2	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/12/2013 4:46:00 AM	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/21/2013 8:47:00 PM	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/26/2013 6:56:00 PM	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/26/2013 6:56:00 PM	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/12/2013 4:46:00 AM	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/26/2013 6:56:00 PM	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/12/2013 4:46:00 AM	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/26/2013 6:56:00 PM	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/26/2013 6:56:00 PM	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/12/2013 4:46:00 AM	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/24/2013 6:37:00 AM	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/12/2013 4:46:00 AM	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-OJA	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/26/2013 6:56:00 PM	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/13/2013 9:13:00 PM	Chloride	n/a	=	220	mg/L	EPA 300.0	1	5	WKL	D
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/13/2013 9:13:00 PM	Fluoride	n/a	=	0.93	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/10/2013 3:49:00 AM	Perchlorate	n/a	<	0.95	µg/L	EPA 314.0	0.95	2	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/1/2013 8:09:00 AM	E. Coli	n/a	=	6131	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/3/2013 1:10:00 PM	Fecal Coliform	n/a	=	5000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/1/2013 8:09:00 AM	Total Coliform	n/a	=	90500	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/14/2013 3:34:00 PM	Calcium	Total	=	111	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/14/2013 3:34:00 PM	Magnesium	Total	=	66.7	mg/L	EPA 200.7	0.012	0.1	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/6/2013 9:42:00 PM	Alkalinity as CaCO3	n/a	=	340	mg/L	SM 2320 B	0.56	10	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/6/2013 5:46:00 PM	BOD	n/a	=	3.3	mg/L	SM 5210 B	0.1	2	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/8/2013 10:29:00 PM	COD	n/a	=	12	mg/L	EPA 410.4	0.73	5	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	4/30/2013 8:30:00 AM	Conductivity	n/a	=	1465	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/13/2013 1:51:00 PM	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	4/30/2013 8:30:00 AM	DO	n/a	=	142.1	%	Field Meter	-88	0.1	Field Crew	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	4/30/2013 8:30:00 AM	DO	n/a	=	13.55	mg/L	Field Meter	-88	0.3	Field Crew	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/14/2013 3:34:00 PM	Hardness as CaCO3	Total	=	551	mg/L	EPA 200.7	0.0894	0.662	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/1/2013 6:30:00 PM	MBAS	n/a	=	0.078	mg/L	SM 5540 C	0.023	0.06	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	4/30/2013 8:30:00 AM	pH	n/a	=	8.42	pH Units	Field Meter	-88	0.01	Field Crew	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/8/2013 7:00:00 PM	Phenolics	n/a	DNQ	0.007	mg/L	EPA 420.4	0.0042	0.01	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	4/30/2013 8:30:00 AM	Salinity	n/a	=	900	mg/L	Field Meter	-88	100	Field Crew	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	4/30/2013 8:30:00 AM	Specific Conductance	n/a	=	1765	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/6/2013 6:04:00 PM	Specific Conductance	n/a	=	1900	µmhos/cm	SM 2510 B	0.47	4	WKL	D
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	4/30/2013 8:30:00 AM	Temperature	n/a	=	16.1	°C	Field Meter	-88	0.1	Field Crew	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/1/2013 7:50:00 PM	Total Dissolved Solids	n/a	=	1200	mg/L	SM 2540 C	4	10	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/10/2013 1:46:00 PM	Total Organic Carbon	n/a	=	4.3	mg/L	SM 5310 C	0.009	0.3	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/1/2013 6:05:00 PM	Total Suspended Solids	n/a	=	7	mg/L	SM 2540 D	5	5	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/1/2013 6:12:00 PM	Turbidity	n/a	=	0.84	NTU	EPA 180.1	0.024	0.1	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/1/2013 6:05:00 PM	Volatile Suspended Solids	n/a	<	3.1	mg/L	EPA 160.4	3.1	5	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/3/2013 2:51:00 PM	Oil and Grease	n/a	<	1.3	mg/L	EPA 1664A	1.3	5	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/3/2013 2:51:00 PM	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/14/2013 2:03:00 PM	Aluminum	Dissolved	<	2.1	µg/L	EPA 200.8	2.1	5	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/14/2013 2:11:00 PM	Aluminum	Total	=	12	µg/L	EPA 200.8	2.1	5	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/14/2013 2:03:00 PM	Antimony	Dissolved	DNQ	0.07	µg/L	EPA 200.8	0.034	0.5	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/14/2013 2:11:00 PM	Antimony	Total	DNQ	0.08	µg/L	EPA 200.8	0.034	0.5	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/14/2013 2:03:00 PM	Arsenic	Dissolved	DNQ	0.28	µg/L	EPA 200.8	0.13	0.4	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/14/2013 2:11:00 PM	Arsenic	Total	DNQ	0.35	µg/L	EPA 200.8	0.13	0.4	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/14/2013 2:11:00 PM	Barium	Total	=	29	µg/L	EPA 200.8	0.097	0.5	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/14/2013 2:03:00 PM	Beryllium	Dissolved	<	0.015	µg/L	EPA 200.8	0.015	0.1	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/14/2013 2:11:00 PM	Beryllium	Total	<	0.015	µg/L	EPA 200.8	0.015	0.1	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/14/2013 2:03:00 PM	Cadmium	Dissolved	DNQ	0.02	µg/L	EPA 200.8	0.017	0.1	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/14/2013 2:11:00 PM	Cadmium	Total	DNQ	0.03	µg/L	EPA 200.8	0.017	0.1	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/14/2013 2:03:00 PM	Chromium	Dissolved	=	0.2	µg/L	EPA 200.8	0.024	0.2	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/14/2013 2:11:00 PM	Chromium	Total	=	0.21	µg/L	EPA 200.8	0.024	0.2	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/3/2013 5:03:00 PM	Chromium VI	n/a	DNQ	0.18	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/14/2013 2:03:00 PM	Copper	Dissolved	=	1.4	µg/L	EPA 200.8	0.036	0.5	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/14/2013 2:11:00 PM	Copper	Total	=	1.5	µg/L	EPA 200.8	0.036	0.5	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/14/2013 3:32:00 PM	Iron	Dissolved	<	1.1	µg/L	EPA 200.7	1.1	10	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/14/2013 3:34:00 PM	Iron	Total	DNQ	6.5	µg/L	EPA 200.7	1.1	10	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/14/2013 2:03:00 PM	Lead	Dissolved	DNQ	0.07	µg/L	EPA 200.8	0.024	0.2	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/14/2013 2:11:00 PM	Lead	Total	DNQ	0.1	µg/L	EPA 200.8	0.024	0.2	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/8/2013 3:30:00 PM	Mercury	Dissolved	<	3.9	ng/L	EPA 245.1	3.9	50	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/8/2013 3:30:00 PM	Mercury	Total	<	3.9	ng/L	EPA 245.1	3.9	50	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/14/2013 2:03:00 PM	Nickel	Dissolved	DNQ	0.47	µg/L	EPA 200.8	0.091	0.8	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/14/2013 2:11:00 PM	Nickel	Total	DNQ	0.5	µg/L	EPA 200.8	0.091	0.8	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/15/2013 6:20:00 PM	Selenium	Dissolved	=	2.2	µg/L	EPA 200.8	0.081	0.4	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/15/2013 6:24:00 PM	Selenium	Total	=	2.2	µg/L	EPA 200.8	0.081	0.4	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/14/2013 2:03:00 PM	Silver	Dissolved	<	0.012	µg/L	EPA 200.8	0.012	0.2	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/14/2013 2:11:00 PM	Silver	Total	<	0.012	µg/L	EPA 200.8	0.012	0.2	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/14/2013 2:03:00 PM	Thallium	Dissolved	<	0.034	µg/L	EPA 200.8	0.034	0.2	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/14/2013 2:11:00 PM	Thallium	Total	<	0.034	µg/L	EPA 200.8	0.034	0.2	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/14/2013 2:03:00 PM	Zinc	Dissolved	=	6.9	µg/L	EPA 200.8	0.5	5	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/14/2013 2:11:00 PM	Zinc	Total	=	5.5	µg/L	EPA 200.8	0.5	5	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/9/2013 4:15:00 PM	Ammonia as N	n/a	DNQ	0.077	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/9/2013 2:40:00 PM	Nitrate + Nitrite as N	n/a	=	0.39	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/24/2013 6:48:00 PM	Phosphorus as P	Dissolved	DNQ	0.0063	mg/L	EPA 365.1	0.0014	0.01	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/24/2013 6:22:00 PM	Phosphorus as P	Total	=	0.017	mg/L	EPA 365.1	0.0014	0.01	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/20/2013 12:26:00 PM	TKN	n/a	=	0.81	mg/L	EPA 351.2	0.05	0.1	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/15/2013 7:01:00 PM	1,2,4-Trichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/15/2013 7:01:00 PM	1,2-Dichlorobenzene	n/a	<	0.57	µg/L	EPA 625	0.57	1	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/15/2013 7:01:00 PM	1,2-Diphenylhydrazine	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/15/2013 7:01:00 PM	1,3-Dichlorobenzene	n/a	<	0.53	µg/L	EPA 625	0.53	1	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/15/2013 7:01:00 PM	1,4-Dichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/11/2013 11:21:00 AM	1-Methylnaphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/10/2013 9:36:00 PM	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/10/2013 9:36:00 PM	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/10/2013 9:36:00 PM	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/10/2013 9:36:00 PM	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/10/2013 9:36:00 PM	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/15/2013 7:01:00 PM	2,4-Dinitrotoluene	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/15/2013 7:01:00 PM	2,6-Dinitrotoluene	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/1/2013 4:13:00 PM	2-Chloroethyl vinyl ether	n/a	<	0.28	µg/L	EPA 624	0.28	1	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/15/2013 7:01:00 PM	2-Chloronaphthalene	n/a	<	0.45	µg/L	EPA 625	0.45	1	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/10/2013 9:36:00 PM	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	T-MSRPD, LB-M
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/11/2013 11:21:00 AM	2-Methylnaphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/10/2013 9:36:00 PM	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/10/2013 9:36:00 PM	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/15/2013 7:01:00 PM	3,3'-Dichlorobenzidine	n/a	<	1.2	µg/L	EPA 625	1.2	5	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/10/2013 9:36:00 PM	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/10/2013 9:36:00 PM	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/15/2013 7:01:00 PM	4-Bromophenyl phenyl ether	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/10/2013 9:36:00 PM	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	LB-MSR
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/15/2013 7:01:00 PM	4-Chlorophenyl phenyl ether	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/10/2013 9:36:00 PM	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/11/2013 11:21:00 AM	Acenaphthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	LB-MSR
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/11/2013 11:21:00 AM	Acenaphthylene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	LB-MSR
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/11/2013 11:21:00 AM	Anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/11/2013 11:21:00 AM	Benz(a)anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	LB-MSR
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/15/2013 7:01:00 PM	Benzidine	n/a	<	3.7	µg/L	EPA 625	3.7	10	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/3/2013 5:09:00 PM	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/11/2013 11:21:00 AM	Benzo(b)fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/11/2013 11:21:00 AM	Benzo(g,h,i)perylene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/11/2013 11:21:00 AM	Benzo(k)fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/15/2013 7:01:00 PM	Bis(2-chloroethoxy)methane	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/15/2013 7:01:00 PM	Bis(2-chloroethyl)ether	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/15/2013 7:01:00 PM	Bis(2-chloroisopropyl)ether	n/a	<	0.38	µg/L	EPA 625	0.38	1	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/3/2013 5:09:00 PM	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/3/2013 5:09:00 PM	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/15/2013 7:01:00 PM	Butyl benzyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/11/2013 11:21:00 AM	Chrysene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/11/2013 11:21:00 AM	Dibenz(a,h)anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/15/2013 7:01:00 PM	Diethyl phthalate	n/a	DNQ	0.64	µg/L	EPA 625	0.15	1	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/15/2013 7:01:00 PM	Dimethyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/15/2013 7:01:00 PM	Di-n-butylphthalate	n/a	<	0.24	µg/L	EPA 625	0.24	1	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/15/2013 7:01:00 PM	Di-n-octylphthalate	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/11/2013 11:21:00 AM	Fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/11/2013 11:21:00 AM	Fluorene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	LB-MSR
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/15/2013 7:01:00 PM	Hexachlorobenzene	n/a	<	0.49	µg/L	EPA 625	0.49	1	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/15/2013 7:01:00 PM	Hexachlorobutadiene	n/a	<	0.47	µg/L	EPA 625	0.47	1	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/15/2013 7:01:00 PM	Hexachlorocyclopentadiene	n/a	<	1.5	µg/L	EPA 625	1.5	5	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/15/2013 7:01:00 PM	Hexachloroethane	n/a	<	0.52	µg/L	EPA 625	0.52	1	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/11/2013 11:21:00 AM	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/15/2013 7:01:00 PM	Isophorone	n/a	<	0.21	µg/L	EPA 625	0.21	1	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/1/2013 4:13:00 PM	Methyl tert-butyl ether (MTBE)	n/a	<	0.25	µg/L	EPA 624	0.25	1	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/11/2013 11:21:00 AM	Naphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	EST-MSRPD
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/15/2013 7:01:00 PM	Nitrobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/15/2013 7:01:00 PM	N-Nitrosodimethylamine	n/a	<	0.14	µg/L	EPA 625	0.14	1	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/15/2013 7:01:00 PM	N-Nitrosodi-N-propylamine	n/a	<	0.26	µg/L	EPA 625	0.26	1	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/15/2013 7:01:00 PM	N-Nitrosodiphenylamine	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/11/2013 11:21:00 AM	Phenanthrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	LB-MSR
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/10/2013 9:36:00 PM	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/11/2013 11:21:00 AM	Pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	LB-MSR
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/11/2013 3:12:00 AM	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/11/2013 3:12:00 AM	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/11/2013 3:12:00 AM	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/11/2013 3:12:00 AM	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/11/2013 3:12:00 AM	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/11/2013 3:12:00 AM	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/11/2013 3:12:00 AM	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/9/2013 12:23:00 AM	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/9/2013 12:23:00 AM	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/9/2013 12:23:00 AM	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/9/2013 12:23:00 AM	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/9/2013 12:23:00 AM	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/11/2013 3:12:00 AM	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/11/2013 3:12:00 AM	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/11/2013 3:12:00 AM	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/9/2013 12:23:00 AM	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/3/2013 5:09:00 PM	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/11/2013 3:12:00 AM	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/11/2013 3:12:00 AM	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/11/2013 3:12:00 AM	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/3/2013 5:09:00 PM	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/14/2013 9:43:00 PM	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/9/2013 12:23:00 AM	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/11/2013 3:12:00 AM	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/14/2013 9:43:00 PM	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/3/2013 5:09:00 PM	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/3/2013 5:09:00 PM	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/3/2013 5:09:00 PM	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/11/2013 3:12:00 AM	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/3/2013 5:09:00 PM	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/14/2013 9:43:00 PM	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/14/2013 9:43:00 PM	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/3/2013 5:09:00 PM	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/9/2013 12:23:00 AM	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/9/2013 12:23:00 AM	DCPA (Dacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/11/2013 3:12:00 AM	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/14/2013 9:43:00 PM	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/14/2013 9:43:00 PM	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/14/2013 9:43:00 PM	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/9/2013 12:23:00 AM	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/9/2013 12:23:00 AM	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/14/2013 9:43:00 PM	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/11/2013 3:12:00 AM	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/14/2013 9:43:00 PM	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/9/2013 12:23:00 AM	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/3/2013 5:09:00 PM	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/14/2013 9:43:00 PM	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/11/2013 3:12:00 AM	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/11/2013 3:12:00 AM	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/11/2013 3:12:00 AM	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/11/2013 3:12:00 AM	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/11/2013 3:12:00 AM	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/3/2013 5:09:00 PM	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/14/2013 9:43:00 PM	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/14/2013 9:43:00 PM	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/14/2013 9:43:00 PM	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/14/2013 9:43:00 PM	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/11/2013 3:12:00 AM	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/11/2013 3:12:00 AM	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/1/2013 3:25:00 PM	Glyphosate	n/a	<	1.8	µg/L	EPA 547	1.8	5	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/11/2013 3:12:00 AM	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/11/2013 3:12:00 AM	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/14/2013 9:43:00 PM	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/14/2013 9:43:00 PM	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/11/2013 3:12:00 AM	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/14/2013 9:43:00 PM	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/3/2013 5:09:00 PM	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/3/2013 5:09:00 PM	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/14/2013 9:43:00 PM	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/3/2013 5:09:00 PM	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/14/2013 9:43:00 PM	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	LB-MSR
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/9/2013 12:23:00 AM	Pentachlorophenol	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.2	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/14/2013 9:43:00 PM	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/9/2013 12:23:00 AM	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/3/2013 5:09:00 PM	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/3/2013 5:09:00 PM	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/14/2013 9:43:00 PM	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/3/2013 5:09:00 PM	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/14/2013 9:43:00 PM	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/3/2013 5:09:00 PM	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/3/2013 5:09:00 PM	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/14/2013 9:43:00 PM	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/11/2013 3:12:00 AM	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/14/2013 9:43:00 PM	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-OJA	2012/13-5	Dry	4/30/2013 8:30:00 AM	5/3/2013 5:09:00 PM	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-OJA	2013-DRY	Dry	8/13/2013 8:10:00 AM	8/14/2013 9:00:00 AM	E. Coli	n/a	=	4352	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-OJA	2013-DRY	Dry	8/13/2013 8:10:00 AM	8/14/2013 9:00:00 AM	Total Coliform	n/a	=	63700	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	
MO-OJA	2013-DRY	Dry	8/13/2013 8:10:00 AM	8/22/2013 12:03:00 PM	Calcium	Total	=	110	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-OJA	2013-DRY	Dry	8/13/2013 8:10:00 AM	8/22/2013 12:03:00 PM	Magnesium	Total	=	98.1	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-OJA	2013-DRY	Dry	8/13/2013 8:10:00 AM	8/13/2013 8:10:00 AM	Conductivity	n/a	=	1922	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-OJA	2013-DRY	Dry	8/13/2013 8:10:00 AM	8/13/2013 8:10:00 AM	Discharge	n/a	=	0.01	cfs	Field Estimate	-88	-88	Field Crew	
MO-OJA	2013-DRY	Dry	8/13/2013 8:10:00 AM	8/13/2013 8:10:00 AM	DO	n/a	=	8.76	mg/L	Field Meter	-88	0.3	Field Crew	
MO-OJA	2013-DRY	Dry	8/13/2013 8:10:00 AM	8/13/2013 8:10:00 AM	DO	n/a	=	91.3	%	Field Meter	-88	0.1	Field Crew	
MO-OJA	2013-DRY	Dry	8/13/2013 8:10:00 AM	8/22/2013 12:03:00 PM	Hardness as CaCO3	Total	=	679	mg/L	EPA 200.7	0.0894	0.662	WKL	
MO-OJA	2013-DRY	Dry	8/13/2013 8:10:00 AM	8/13/2013 8:10:00 AM	pH	n/a	=	8.28	pH Units	Field Meter	-88	0.01	Field Crew	
MO-OJA	2013-DRY	Dry	8/13/2013 8:10:00 AM	8/13/2013 8:10:00 AM	Salinity	n/a	=	1100	mg/L	Field Meter	-88	100	Field Crew	
MO-OJA	2013-DRY	Dry	8/13/2013 8:10:00 AM	8/13/2013 8:10:00 AM	Specific Conductance	n/a	=	2213	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-OJA	2013-DRY	Dry	8/13/2013 8:10:00 AM	8/13/2013 8:10:00 AM	Temperature	n/a	=	17.2	°C	Field Meter	-88	0.1	Field Crew	
MO-OJA	2013-DRY	Dry	8/13/2013 8:10:00 AM	8/19/2013 7:05:00 PM	Total Organic Carbon	n/a	=	17	mg/L	SM 5310 C	0.09	3	WKL	D
MO-OJA	2013-DRY	Dry	8/13/2013 8:10:00 AM	8/13/2013 8:10:00 AM	Turbidity	n/a	=	3.8	NTU	Field Meter	-88	0.01	Field Crew	
MO-OJA	2013-DRY	Dry	8/13/2013 8:10:00 AM	8/23/2013 11:29:00 PM	Copper	Dissolved	=	9.2	µg/L	EPA 200.8	0.036	0.5	WKL	
MO-OJA	2013-DRY	Dry	8/13/2013 8:10:00 AM	8/23/2013 11:29:00 PM	Lead	Dissolved	=	0.38	µg/L	EPA 200.8	0.024	0.2	WKL	
MO-OJA	2013-DRY	Dry	8/13/2013 8:10:00 AM	8/23/2013 11:29:00 PM	Zinc	Dissolved	=	12	µg/L	EPA 200.8	0.5	5	WKL	
MO-OXN	2012/13-2	Wet	11/17/2012 8:34:00 AM	11/18/2012 7:56:00 AM	E. Coli	n/a	=	17329	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-OXN	2012/13-2	Wet	11/17/2012 8:34:00 AM	11/20/2012 1:28:00 PM	Fecal Coliform	n/a	=	24000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-OXN	2012/13-2	Wet	11/17/2012 8:34:00 AM	11/18/2012 7:56:00 AM	Total Coliform	n/a	=	1413600	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	
MO-OXN	2012/13-2	Wet	11/17/2012 8:34:00 AM	11/17/2012 8:34:00 AM	Conductivity	n/a	=	181.4	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-OXN	2012/13-2	Wet	11/17/2012 8:34:00 AM	12/6/2012 9:32:00 PM	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-OXN	2012/13-2	Wet	11/17/2012 8:34:00 AM	11/17/2012 8:34:00 AM	DO	n/a	=	8.88	mg/L	Field Meter	-88	0.3	Field Crew	
MO-OXN	2012/13-2	Wet	11/17/2012 8:34:00 AM	11/17/2012 8:34:00 AM	DO	n/a	=	89.9	%	Field Meter	-88	0.1	Field Crew	
MO-OXN	2012/13-2	Wet	11/17/2012 8:34:00 AM	11/17/2012 8:34:00 AM	pH	n/a	=	7.03	pH Units	Field Meter	-88	0.01	Field Crew	
MO-OXN	2012/13-2	Wet	11/17/2012 8:34:00 AM	11/17/2012 8:34:00 AM	Salinity	n/a	=	100	mg/L	Field Meter	-88	100	Field Crew	
MO-OXN	2012/13-2	Wet	11/17/2012 8:34:00 AM	11/17/2012 8:34:00 AM	Specific Conductance	n/a	=	216.7	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-OXN	2012/13-2	Wet	11/17/2012 8:34:00 AM	11/17/2012 8:34:00 AM	Temperature	n/a	=	15.9	°C	Field Meter	-88	0.1	Field Crew	
MO-OXN	2012/13-2	Wet	11/17/2012 8:34:00 AM	11/30/2012 3:45:00 PM	Oil and Grease	n/a	DNQ	2.9	mg/L	EPA 1664A	1.3	5	WKL	
MO-OXN	2012/13-2	Wet	11/17/2012 8:34:00 AM	11/30/2012 3:45:00 PM	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-OXN	2012/13-2	Wet	11/17/2012 8:34:00 AM	11/27/2012 7:54:00 PM	2-Chloroethyl vinyl ether	n/a	<	0.61	µg/L	EPA 524.2	0.61	1	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OXN	2012/13-2	Wet	11/17/2012 8:34:00 AM	11/27/2012 7:54:00 PM	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/28/2012 12:29:00 PM	Chloride	n/a	=	24	mg/L	EPA 300.0	1	5	WKL	D
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/28/2012 12:29:00 PM	Fluoride	n/a	=	0.44	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/28/2012 3:43:00 AM	Perchlorate	n/a	<	0.95	µg/L	EPA 314.0	0.95	2	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/28/2012 12:53:00 PM	Calcium	Total	=	42.4	mg/L	EPA 200.7	0.0156	0.1	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/28/2012 12:53:00 PM	Magnesium	Total	=	13.5	mg/L	EPA 200.7	0.0121	0.1	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/30/2012 4:45:00 PM	Alkalinity as CaCO3	n/a	=	74	mg/L	SM 2320 B	0.56	2	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/24/2012 12:30:00 PM	BOD	n/a	=	31	mg/L	SM 5210 B	0.1	2	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/27/2012 9:06:00 AM	COD	n/a	=	320	mg/L	EPA 410.4	0.73	5	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/28/2012 12:53:00 PM	Hardness as CaCO3	Total	=	162	mg/L	EPA 200.7	0.0885	0.662	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/19/2012 9:46:00 PM	MBAS	n/a	=	0.97	mg/L	SM 5540 C	0.076	0.2	WKL	D
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/30/2012 3:03:00 PM	Phenolics	n/a	=	0.016	mg/L	EPA 420.4	0.0042	0.01	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/30/2012 11:00:00 AM	Specific Conductance	n/a	=	380	µmhos/cm	SM 2510 B	0.23	2	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/21/2012 11:58:00 AM	Total Dissolved Solids	n/a	=	250	mg/L	SM 2540 C	4	10	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/26/2012 10:48:00 AM	Total Organic Carbon	n/a	=	39	mg/L	SM 5310 C	0.18	6	WKL	D
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/20/2012 7:20:00 PM	Total Suspended Solids	n/a	=	220	mg/L	SM 2540 D	5	5	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/19/2012 10:13:00 PM	Turbidity	n/a	=	45	NTU	EPA 180.1	0.024	0.1	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/20/2012 7:20:00 PM	Volatile Suspended Solids	n/a	=	82	mg/L	EPA 160.4	3.1	5	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	12/3/2012 7:51:00 PM	Aluminum	Dissolved	=	24	µg/L	EPA 200.8	0.61	5	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	12/3/2012 8:31:00 PM	Aluminum	Total	=	3600	µg/L	EPA 200.8	0.61	5	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	12/3/2012 7:51:00 PM	Antimony	Dissolved	=	1.7	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	12/3/2012 8:31:00 PM	Antimony	Total	=	3.8	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	12/3/2012 7:51:00 PM	Arsenic	Dissolved	=	1.4	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	12/3/2012 8:31:00 PM	Arsenic	Total	=	3.8	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	12/3/2012 7:51:00 PM	Beryllium	Dissolved	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	12/3/2012 8:31:00 PM	Beryllium	Total	=	0.17	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	12/3/2012 7:51:00 PM	Cadmium	Dissolved	DNQ	0.05	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	12/3/2012 8:31:00 PM	Cadmium	Total	=	0.85	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	12/3/2012 7:51:00 PM	Chromium	Dissolved	=	1.3	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	12/3/2012 8:31:00 PM	Chromium	Total	=	12	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	12/3/2012 7:33:00 PM	Chromium VI	n/a	=	0.79	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	12/3/2012 7:51:00 PM	Copper	Dissolved	=	11	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	12/3/2012 8:31:00 PM	Copper	Total	=	140	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/28/2012 12:50:00 PM	Iron	Dissolved	=	200	µg/L	EPA 200.7	1.1	10	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/28/2012 12:53:00 PM	Iron	Total	=	6900	µg/L	EPA 200.7	1.1	10	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	12/3/2012 7:51:00 PM	Lead	Dissolved	=	0.39	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	12/3/2012 8:31:00 PM	Lead	Total	=	26	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	12/5/2012 4:54:00 PM	Mercury	Dissolved	DNQ	11	ng/L	EPA 245.1	3.9	50	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	12/5/2012 4:54:00 PM	Mercury	Total	=	56	ng/L	EPA 245.1	3.9	50	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	12/3/2012 7:51:00 PM	Nickel	Dissolved	=	7.4	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	12/3/2012 8:31:00 PM	Nickel	Total	=	20	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	12/3/2012 7:51:00 PM	Selenium	Dissolved	=	0.55	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	12/3/2012 8:31:00 PM	Selenium	Total	=	1.2	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	12/3/2012 7:51:00 PM	Silver	Dissolved	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	12/3/2012 8:31:00 PM	Silver	Total	DNQ	0.19	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	12/3/2012 7:51:00 PM	Thallium	Dissolved	<	0.009	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	12/3/2012 8:31:00 PM	Thallium	Total	DNQ	0.11	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	12/3/2012 7:51:00 PM	Zinc	Dissolved	=	32	µg/L	EPA 200.8	1.1	5	WKL	

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	12/3/2012 8:31:00 PM	Zinc	Total	=	540	µg/L	EPA 200.8	1.1	5	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	12/6/2012 2:45:00 PM	Ammonia as N	n/a	=	1.5	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/19/2012 7:32:00 PM	Nitrate + Nitrite as N	n/a	=	1.5	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	12/14/2012 12:47:00 PM	Phosphorus as P	Dissolved	=	0.19	mg/L	EPA 365.1	0.0014	0.01	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	12/14/2012 11:40:00 AM	Phosphorus as P	Total	=	1.7	mg/L	EPA 365.1	0.07	0.5	WKL	DG
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/28/2012 4:25:00 PM	TKN	n/a	=	7.5	mg/L	EPA 351.2	0.37	0.5	WKL	D
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/28/2012 4:36:00 AM	1,2,4-Trichlorobenzene	n/a	<	1.1	µg/L	EPA 625	1.1	2	WKL	D, DF
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/28/2012 4:36:00 AM	1,2-Dichlorobenzene	n/a	<	1.1	µg/L	EPA 625	1.1	2	WKL	D, DF
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/28/2012 4:36:00 AM	1,2-Diphenylhydrazine	n/a	<	0.5	µg/L	EPA 625	0.5	2	WKL	D, DF
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/28/2012 4:36:00 AM	1,3-Dichlorobenzene	n/a	<	1.1	µg/L	EPA 625	1.1	2	WKL	D, DF
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/28/2012 4:36:00 AM	1,4-Dichlorobenzene	n/a	<	1.1	µg/L	EPA 625	1.1	2	WKL	D, DF
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/29/2012 6:26:00 AM	1-Methylnaphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/29/2012 10:26:00 PM	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/29/2012 10:26:00 PM	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	EUM
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/29/2012 10:26:00 PM	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/29/2012 10:26:00 PM	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/29/2012 10:26:00 PM	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/28/2012 4:36:00 AM	2,4-Dinitrotoluene	n/a	<	0.36	µg/L	EPA 625	0.36	2	WKL	D, DF
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/28/2012 4:36:00 AM	2,6-Dinitrotoluene	n/a	<	0.54	µg/L	EPA 625	0.54	2	WKL	D, DF
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/28/2012 4:36:00 AM	2-Chloronaphthalene	n/a	<	0.9	µg/L	EPA 625	0.9	2	WKL	D, DF
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/29/2012 10:26:00 PM	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	EUM
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/29/2012 6:26:00 AM	2-Methylnaphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/29/2012 10:26:00 PM	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/29/2012 10:26:00 PM	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/28/2012 4:36:00 AM	3,3'-Dichlorobenzidine	n/a	<	2.4	µg/L	EPA 625	2.4	10	WKL	D, DF
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/29/2012 10:26:00 PM	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/29/2012 10:26:00 PM	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/28/2012 4:36:00 AM	4-Bromophenyl phenyl ether	n/a	<	0.72	µg/L	EPA 625	0.72	2	WKL	D, DF
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/29/2012 10:26:00 PM	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/28/2012 4:36:00 AM	4-Chlorophenyl phenyl ether	n/a	<	0.82	µg/L	EPA 625	0.82	2	WKL	D, DF
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/29/2012 10:26:00 PM	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/29/2012 6:26:00 AM	Acenaphthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	EUM
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/29/2012 6:26:00 AM	Acenaphthylene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/29/2012 6:26:00 AM	Anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/29/2012 6:26:00 AM	Benz(a)anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/28/2012 4:36:00 AM	Benzidine	n/a	<	7.3	µg/L	EPA 625	7.3	20	WKL	D, DF
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	12/6/2012 4:56:00 AM	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/29/2012 6:26:00 AM	Benzo(b)fluoranthene	n/a	=	0.13	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/29/2012 6:26:00 AM	Benzo(g,h,i)perylene	n/a	=	0.11	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/29/2012 6:26:00 AM	Benzo(k)fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/28/2012 4:36:00 AM	Bis(2-chloroethoxy)methane	n/a	<	0.5	µg/L	EPA 625	0.5	2	WKL	D, DF
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/28/2012 4:36:00 AM	Bis(2-chloroethyl)ether	n/a	<	0.54	µg/L	EPA 625	0.54	2	WKL	D, DF
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/28/2012 4:36:00 AM	Bis(2-chloroisopropyl)ether	n/a	<	0.76	µg/L	EPA 625	0.76	2	WKL	D, DF
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	12/6/2012 4:56:00 AM	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	12/6/2012 4:56:00 AM	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/28/2012 4:36:00 AM	Butyl benzyl phthalate	n/a	DNQ	1.6	µg/L	EPA 625	0.36	2	WKL	D, DF
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/29/2012 6:26:00 AM	Chrysene	n/a	=	0.16	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/29/2012 6:26:00 AM	Dibenz(a,h)anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/28/2012 4:36:00 AM	Diethyl phthalate	n/a	DNQ	1.1	µg/L	EPA 625	0.3	2	WKL	D, DF
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/28/2012 4:36:00 AM	Dimethyl phthalate	n/a	<	0.36	µg/L	EPA 625	0.36	2	WKL	D, DF
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/28/2012 4:36:00 AM	Di-n-butylphthalate	n/a	<	0.48	µg/L	EPA 625	0.48	2	WKL	D, DF
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/28/2012 4:36:00 AM	Di-n-octylphthalate	n/a	<	0.38	µg/L	EPA 625	0.38	2	WKL	D, DF
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/29/2012 6:26:00 AM	Fluoranthene	n/a	=	0.11	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/29/2012 6:26:00 AM	Fluorene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	EUM
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/28/2012 4:36:00 AM	Hexachlorobenzene	n/a	<	0.98	µg/L	EPA 625	0.98	2	WKL	D, DF
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/28/2012 4:36:00 AM	Hexachlorobutadiene	n/a	<	0.94	µg/L	EPA 625	0.94	2	WKL	D, DF
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/28/2012 4:36:00 AM	Hexachlorocyclopentadiene	n/a	<	2.9	µg/L	EPA 625	2.9	10	WKL	D, DF
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/28/2012 4:36:00 AM	Hexachloroethane	n/a	<	1	µg/L	EPA 625	1	2	WKL	D, DF
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/29/2012 6:26:00 AM	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/28/2012 4:36:00 AM	Isophorone	n/a	<	0.42	µg/L	EPA 625	0.42	2	WKL	D, DF
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/29/2012 6:26:00 AM	Naphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/28/2012 4:36:00 AM	Nitrobenzene	n/a	<	0.72	µg/L	EPA 625	0.72	2	WKL	D, DF
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/28/2012 4:36:00 AM	N-Nitrosodimethylamine	n/a	<	0.28	µg/L	EPA 625	0.28	2	WKL	D, DF, EUM
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/28/2012 4:36:00 AM	N-Nitrosodi-N-propylamine	n/a	<	0.52	µg/L	EPA 625	0.52	2	WKL	D, DF
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/28/2012 4:36:00 AM	N-Nitrosodiphenylamine	n/a	<	0.38	µg/L	EPA 625	0.38	2	WKL	D, DF
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/29/2012 6:26:00 AM	Phenanthrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	EUM
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/29/2012 10:26:00 PM	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/29/2012 6:26:00 AM	Pyrene	n/a	=	0.12	µg/L	EPA 8270Cm	0.1	0.1	WKL	EUM
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/28/2012 6:31:00 AM	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/28/2012 6:31:00 AM	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/28/2012 6:31:00 AM	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/28/2012 6:31:00 AM	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/28/2012 6:31:00 AM	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/28/2012 6:31:00 AM	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/28/2012 6:31:00 AM	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	12/2/2012 4:03:00 AM	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	12/2/2012 4:03:00 AM	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	12/2/2012 4:03:00 AM	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	12/2/2012 4:03:00 AM	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	12/2/2012 4:03:00 AM	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/28/2012 6:31:00 AM	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/28/2012 6:31:00 AM	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/28/2012 6:31:00 AM	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	12/2/2012 4:03:00 AM	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	12/6/2012 4:56:00 AM	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/28/2012 6:31:00 AM	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/28/2012 6:31:00 AM	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/28/2012 6:31:00 AM	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	12/6/2012 4:56:00 AM	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	GB
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	12/14/2012 12:10:00 PM	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	12/2/2012 4:03:00 AM	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/28/2012 6:31:00 AM	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	12/14/2012 12:10:00 PM	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	12/6/2012 4:56:00 AM	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	GB
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	12/6/2012 4:56:00 AM	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	12/6/2012 4:56:00 AM	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	GB

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/28/2012 6:31:00 AM	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	12/6/2012 4:56:00 AM	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	12/14/2012 12:10:00 PM	Chlorpyrifos	n/a	=	0.14	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	12/14/2012 12:10:00 PM	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	12/6/2012 4:56:00 AM	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	GB
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	12/2/2012 4:03:00 AM	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	12/2/2012 4:03:00 AM	DCPA (Dacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/28/2012 6:31:00 AM	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	12/14/2012 12:10:00 PM	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	12/14/2012 12:10:00 PM	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	12/14/2012 12:10:00 PM	Diazinon	n/a	DNQ	0.0088	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	12/2/2012 4:03:00 AM	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	12/2/2012 4:03:00 AM	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	12/14/2012 12:10:00 PM	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/28/2012 6:31:00 AM	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	12/14/2012 12:10:00 PM	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	12/2/2012 4:03:00 AM	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	12/6/2012 4:56:00 AM	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	12/14/2012 12:10:00 PM	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/28/2012 6:31:00 AM	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/28/2012 6:31:00 AM	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/28/2012 6:31:00 AM	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/28/2012 6:31:00 AM	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/28/2012 6:31:00 AM	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	12/6/2012 4:56:00 AM	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	12/14/2012 12:10:00 PM	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	12/14/2012 12:10:00 PM	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	12/14/2012 12:10:00 PM	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	12/14/2012 12:10:00 PM	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/28/2012 6:31:00 AM	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/28/2012 6:31:00 AM	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/28/2012 6:40:00 PM	Glyphosate	n/a	=	32	µg/L	EPA 547	1.8	5	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/28/2012 6:31:00 AM	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/28/2012 6:31:00 AM	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	12/14/2012 12:10:00 PM	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	12/14/2012 12:10:00 PM	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/28/2012 6:31:00 AM	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	12/14/2012 12:10:00 PM	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	12/6/2012 4:56:00 AM	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	12/6/2012 4:56:00 AM	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	12/14/2012 12:10:00 PM	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	12/6/2012 4:56:00 AM	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	12/14/2012 12:10:00 PM	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.1	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	12/2/2012 4:03:00 AM	Pentachlorophenol	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.2	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	12/14/2012 12:10:00 PM	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	12/2/2012 4:03:00 AM	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	12/6/2012 4:56:00 AM	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	12/6/2012 4:56:00 AM	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	12/14/2012 12:10:00 PM	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	12/6/2012 4:56:00 AM	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	12/14/2012 12:10:00 PM	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	12/6/2012 4:56:00 AM	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	12/6/2012 4:56:00 AM	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	12/14/2012 12:10:00 PM	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	11/28/2012 6:31:00 AM	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	12/14/2012 12:10:00 PM	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-OXN	2012/13-2	Wet	11/18/2012 10:30:00 AM	12/6/2012 4:56:00 AM	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-OXN	2012/13-3	Wet	2/19/2013 7:30:00 PM	2/20/2013 6:30:00 PM	E. Coli	n/a	=	738	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-OXN	2012/13-3	Wet	2/19/2013 7:30:00 PM	2/23/2013 10:10:00 PM	Fecal Coliform	n/a	=	500	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-OXN	2012/13-3	Wet	2/19/2013 7:30:00 PM	2/20/2013 6:30:00 PM	Total Coliform	n/a	=	15531	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-OXN	2012/13-3	Wet	2/19/2013 7:30:00 PM	2/19/2013 7:30:00 PM	Conductivity	n/a	=	813	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-OXN	2012/13-3	Wet	2/19/2013 7:30:00 PM	3/8/2013 9:35:00 PM	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-OXN	2012/13-3	Wet	2/19/2013 7:30:00 PM	2/19/2013 7:30:00 PM	DO	n/a	=	11.8	mg/L	Field Meter	-88	0.3	Field Crew	
MO-OXN	2012/13-3	Wet	2/19/2013 7:30:00 PM	2/19/2013 7:30:00 PM	DO	n/a	=	112	%	Field Meter	-88	0.1	Field Crew	
MO-OXN	2012/13-3	Wet	2/19/2013 7:30:00 PM	2/19/2013 7:30:00 PM	pH	n/a	=	9.06	pH Units	Field Meter	-88	0.01	Field Crew	
MO-OXN	2012/13-3	Wet	2/19/2013 7:30:00 PM	2/19/2013 7:30:00 PM	Salinity	n/a	=	530	mg/L	Field Meter	-88	100	Field Crew	
MO-OXN	2012/13-3	Wet	2/19/2013 7:30:00 PM	2/19/2013 7:30:00 PM	Specific Conductance	n/a	=	1073	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-OXN	2012/13-3	Wet	2/19/2013 7:30:00 PM	2/19/2013 7:30:00 PM	Temperature	n/a	=	12.5	°C	Field Meter	-88	0.1	Field Crew	
MO-OXN	2012/13-3	Wet	2/19/2013 7:30:00 PM	3/4/2013 6:09:00 PM	Oil and Grease	n/a	<	1.3	mg/L	EPA 1664A	1.3	5	WKL	
MO-OXN	2012/13-3	Wet	2/19/2013 7:30:00 PM	3/4/2013 6:09:00 PM	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-OXN	2012/13-3	Wet	2/19/2013 7:30:00 PM	2/28/2013 12:29:00 AM	2-Chloroethyl vinyl ether	n/a	<	0.61	µg/L	EPA 524.2	0.61	1	WKL	
MO-OXN	2012/13-3	Wet	2/19/2013 7:30:00 PM	2/28/2013 12:29:00 AM	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	2/28/2013 12:03:00 PM	Chloride	n/a	=	27	mg/L	EPA 300.0	0.1	0.5	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	2/28/2013 12:03:00 PM	Fluoride	n/a	=	0.28	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/1/2013 4:10:00 PM	Perchlorate	n/a	<	1.9	µg/L	EPA 314.0	1.9	4	WKL	D
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	2/25/2013 2:26:00 PM	Calcium	Total	=	26.3	mg/L	EPA 200.7	0.0156	0.1	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	2/25/2013 2:26:00 PM	Magnesium	Total	=	7.74	mg/L	EPA 200.7	0.0121	0.1	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	2/25/2013 10:23:00 PM	Alkalinity as CaCO3	n/a	=	50	mg/L	SM 2320 B	0.56	2	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	2/26/2013 5:11:00 PM	BOD	n/a	=	22	mg/L	SM 5210 B	0.1	2	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/2/2013 4:05:00 PM	COD	n/a	=	210	mg/L	EPA 410.4	0.73	5	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	2/25/2013 2:26:00 PM	Hardness as CaCO3	Total	=	97.7	mg/L	EPA 200.7	0.0885	0.662	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	2/21/2013 9:38:00 PM	MBAS	n/a	=	1.2	mg/L	SM 5540 C	0.076	0.2	WKL	D
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/4/2013 1:33:00 PM	Phenolics	n/a	=	0.033	mg/L	EPA 420.4	0.0042	0.01	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/4/2013 7:13:00 PM	Specific Conductance	n/a	=	340	µmhos/cm	SM 2510 B	0.23	2	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	2/22/2013 3:37:00 PM	Total Dissolved Solids	n/a	=	230	mg/L	SM 2540 C	4	10	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/4/2013 10:20:00 AM	Total Organic Carbon	n/a	=	43	mg/L	SM 5310 C	0.18	6	WKL	D
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	2/26/2013 8:27:00 PM	Total Suspended Solids	n/a	=	97	mg/L	SM 2540 D	5	5	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	2/21/2013 7:26:00 PM	Turbidity	n/a	=	39	NTU	EPA 180.1	0.024	0.1	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	2/26/2013 8:27:00 PM	Volatile Suspended Solids	n/a	=	42	mg/L	EPA 160.4	3.1	5	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/5/2013 5:24:00 PM	Aluminum	Dissolved	=	37	µg/L	EPA 200.8	0.61	5	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/5/2013 5:32:00 PM	Aluminum	Total	=	2100	µg/L	EPA 200.8	2.1	5	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/5/2013 5:24:00 PM	Antimony	Dissolved	=	1.6	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/5/2013 5:32:00 PM	Antimony	Total	=	3.5	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/5/2013 5:24:00 PM	Arsenic	Dissolved	=	1.8	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/5/2013 5:32:00 PM	Arsenic	Total	=	2.6	µg/L	EPA 200.8	0.13	0.4	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/5/2013 5:24:00 PM	Beryllium	Dissolved	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/5/2013 5:32:00 PM	Beryllium	Total	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/5/2013 5:24:00 PM	Cadmium	Dissolved	=	0.14	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/5/2013 5:32:00 PM	Cadmium	Total	=	0.44	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/5/2013 5:24:00 PM	Chromium	Dissolved	=	1.4	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/5/2013 5:32:00 PM	Chromium	Total	=	6.1	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/4/2013 9:56:00 AM	Chromium VI	n/a	DNQ	0.041	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/5/2013 5:24:00 PM	Copper	Dissolved	=	21	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/5/2013 5:32:00 PM	Copper	Total	=	56	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	2/25/2013 2:24:00 PM	Iron	Dissolved	=	89	µg/L	EPA 200.7	1.1	10	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	2/25/2013 2:26:00 PM	Iron	Total	=	3100	µg/L	EPA 200.7	1.1	10	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/5/2013 5:24:00 PM	Lead	Dissolved	=	0.47	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/5/2013 5:32:00 PM	Lead	Total	=	9.4	µg/L	EPA 200.8	0.035	0.2	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/5/2013 7:28:00 PM	Mercury	Dissolved	DNQ	16	ng/L	EPA 245.1	3.9	50	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/5/2013 7:28:00 PM	Mercury	Total	DNQ	39	ng/L	EPA 245.1	3.9	50	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/5/2013 5:24:00 PM	Nickel	Dissolved	=	6.6	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/5/2013 5:32:00 PM	Nickel	Total	=	11	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/5/2013 5:24:00 PM	Selenium	Dissolved	=	0.76	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/5/2013 5:32:00 PM	Selenium	Total	=	0.84	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/5/2013 5:24:00 PM	Silver	Dissolved	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/5/2013 5:32:00 PM	Silver	Total	DNQ	0.07	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/5/2013 5:24:00 PM	Thallium	Dissolved	<	0.009	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/5/2013 5:32:00 PM	Thallium	Total	<	0.034	µg/L	EPA 200.8	0.034	0.2	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/5/2013 5:24:00 PM	Zinc	Dissolved	=	140	µg/L	EPA 200.8	1.1	5	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/5/2013 5:32:00 PM	Zinc	Total	=	300	µg/L	EPA 200.8	1.1	5	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/12/2013 6:52:00 PM	Ammonia as N	n/a	=	1.4	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	2/21/2013 8:09:00 PM	Nitrate + Nitrite as N	n/a	=	1.5	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/14/2013 4:38:00 PM	Phosphorus as P	Dissolved	=	0.26	mg/L	EPA 365.1	0.0028	0.02	WKL	D
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/14/2013 1:19:00 PM	Phosphorus as P	Total	=	0.61	mg/L	EPA 365.1	0.007	0.05	WKL	D
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/12/2013 10:38:00 PM	TKN	n/a	=	4.8	mg/L	EPA 351.2	0.15	0.2	WKL	D
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/6/2013 11:50:00 PM	1,2,4-Trichlorobenzene	n/a	<	5.5	µg/L	EPA 625	5.5	10	WKL	D
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/6/2013 11:50:00 PM	1,2-Dichlorobenzene	n/a	<	5.7	µg/L	EPA 625	5.7	10	WKL	D
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/6/2013 11:50:00 PM	1,2-Diphenylhydrazine	n/a	<	2.5	µg/L	EPA 625	2.5	10	WKL	D
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/6/2013 11:50:00 PM	1,3-Dichlorobenzene	n/a	<	5.3	µg/L	EPA 625	5.3	10	WKL	D
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/6/2013 11:50:00 PM	1,4-Dichlorobenzene	n/a	<	5.5	µg/L	EPA 625	5.5	10	WKL	D
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/21/2013 10:30:00 AM	1-Methylnaphthalene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/21/2013 1:26:00 AM	2,4,5-Trichlorophenol	n/a	<	2.9	µg/L	EPA 8270Cm	2.9	10	WKL	D
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/21/2013 1:26:00 AM	2,4,6-Trichlorophenol	n/a	<	3	µg/L	EPA 8270Cm	3	10	WKL	D
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/21/2013 1:26:00 AM	2,4-Dichlorophenol	n/a	<	5.1	µg/L	EPA 8270Cm	5.1	10	WKL	D
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/21/2013 1:26:00 AM	2,4-Dimethylphenol	n/a	<	10	µg/L	EPA 8270Cm	10	20	WKL	D
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/21/2013 1:26:00 AM	2,4-Dinitrophenol	n/a	<	10	µg/L	EPA 8270Cm	10	20	WKL	D
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/6/2013 11:50:00 PM	2,4-Dinitrotoluene	n/a	<	1.8	µg/L	EPA 625	1.8	10	WKL	D
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/6/2013 11:50:00 PM	2,6-Dinitrotoluene	n/a	<	2.7	µg/L	EPA 625	2.7	10	WKL	D
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/6/2013 11:50:00 PM	2-Chloronaphthalene	n/a	<	4.5	µg/L	EPA 625	4.5	10	WKL	D
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/21/2013 1:26:00 AM	2-Chlorophenol	n/a	<	6.5	µg/L	EPA 8270Cm	6.5	10	WKL	D
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/21/2013 10:30:00 AM	2-Methylnaphthalene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/21/2013 1:26:00 AM	2-Methylphenol	n/a	<	3.4	µg/L	EPA 8270Cm	3.4	10	WKL	D
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/21/2013 1:26:00 AM	2-Nitrophenol	n/a	<	7.1	µg/L	EPA 8270Cm	7.1	10	WKL	D
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/6/2013 11:50:00 PM	3,3'-Dichlorobenzidine	n/a	<	12	µg/L	EPA 625	12	50	WKL	D

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/21/2013 1:26:00 AM	3-/4-Methylphenol	n/a	<	3	µg/L	EPA 8270Cm	3	10	WKL	D
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/21/2013 1:26:00 AM	4,6-Dinitro-2-methylphenol	n/a	<	1.4	µg/L	EPA 8270Cm	1.4	10	WKL	D
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/6/2013 11:50:00 PM	4-Bromophenyl phenyl ether	n/a	<	3.6	µg/L	EPA 625	3.6	10	WKL	D
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/21/2013 1:26:00 AM	4-Chloro-3-methylphenol	n/a	<	3.7	µg/L	EPA 8270Cm	3.7	10	WKL	D
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/6/2013 11:50:00 PM	4-Chlorophenyl phenyl ether	n/a	<	4.1	µg/L	EPA 625	4.1	10	WKL	D
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/21/2013 1:26:00 AM	4-Nitrophenol	n/a	<	10	µg/L	EPA 8270Cm	10	20	WKL	D
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/21/2013 10:30:00 AM	Acenaphthene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/21/2013 10:30:00 AM	Acenaphthylene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/21/2013 10:30:00 AM	Anthracene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/21/2013 10:30:00 AM	Benz(a)anthracene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/6/2013 11:50:00 PM	Benzidine	n/a	<	37	µg/L	EPA 625	37	100	WKL	D
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/15/2013 4:38:00 AM	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/21/2013 10:30:00 AM	Benzo(b)fluoranthene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/21/2013 10:30:00 AM	Benzo(g,h,i)perylene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/21/2013 10:30:00 AM	Benzo(k)fluoranthene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/6/2013 11:50:00 PM	Bis(2-chloroethoxy)methane	n/a	<	2.5	µg/L	EPA 625	2.5	10	WKL	D
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/6/2013 11:50:00 PM	Bis(2-chloroethyl)ether	n/a	<	2.7	µg/L	EPA 625	2.7	10	WKL	D
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/6/2013 11:50:00 PM	Bis(2-chloroisopropyl)ether	n/a	<	3.8	µg/L	EPA 625	3.8	10	WKL	D
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/15/2013 4:38:00 AM	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/15/2013 4:38:00 AM	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/6/2013 11:50:00 PM	Butyl benzyl phthalate	n/a	<	1.8	µg/L	EPA 625	1.8	10	WKL	D
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/21/2013 10:30:00 AM	Chrysene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/21/2013 10:30:00 AM	Dibenz(a,h)anthracene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/6/2013 11:50:00 PM	Diethyl phthalate	n/a	<	1.5	µg/L	EPA 625	1.5	10	WKL	D
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/6/2013 11:50:00 PM	Dimethyl phthalate	n/a	<	1.8	µg/L	EPA 625	1.8	10	WKL	D
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/6/2013 11:50:00 PM	Di-n-butylphthalate	n/a	<	2.4	µg/L	EPA 625	2.4	10	WKL	D
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/6/2013 11:50:00 PM	Di-n-octylphthalate	n/a	<	1.9	µg/L	EPA 625	1.9	10	WKL	D
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/21/2013 10:30:00 AM	Fluoranthene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/21/2013 10:30:00 AM	Fluorene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/6/2013 11:50:00 PM	Hexachlorobenzene	n/a	<	4.9	µg/L	EPA 625	4.9	10	WKL	D
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/6/2013 11:50:00 PM	Hexachlorobutadiene	n/a	<	4.7	µg/L	EPA 625	4.7	10	WKL	D
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/6/2013 11:50:00 PM	Hexachlorocyclopentadiene	n/a	<	15	µg/L	EPA 625	15	50	WKL	D
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/6/2013 11:50:00 PM	Hexachloroethane	n/a	<	5.2	µg/L	EPA 625	5.2	10	WKL	D
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/21/2013 10:30:00 AM	Indeno(1,2,3-cd)pyrene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/6/2013 11:50:00 PM	Isophorone	n/a	<	2.1	µg/L	EPA 625	2.1	10	WKL	D
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/21/2013 10:30:00 AM	Naphthalene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/6/2013 11:50:00 PM	Nitrobenzene	n/a	<	3.6	µg/L	EPA 625	3.6	10	WKL	D
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/6/2013 11:50:00 PM	N-Nitrosodimethylamine	n/a	<	1.4	µg/L	EPA 625	1.4	10	WKL	D
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/6/2013 11:50:00 PM	N-Nitrosodi-N-propylamine	n/a	<	2.6	µg/L	EPA 625	2.6	10	WKL	D
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/6/2013 11:50:00 PM	N-Nitrosodiphenylamine	n/a	<	1.9	µg/L	EPA 625	1.9	10	WKL	D
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/21/2013 10:30:00 AM	Phenanthrene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/21/2013 1:26:00 AM	Phenol	n/a	<	3.5	µg/L	EPA 8270Cm	3.5	10	WKL	D
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/21/2013 10:30:00 AM	Pyrene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/14/2013 3:58:00 AM	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/14/2013 3:58:00 AM	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/14/2013 3:58:00 AM	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/14/2013 3:58:00 AM	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/14/2013 3:58:00 AM	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/14/2013 3:58:00 AM	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/14/2013 3:58:00 AM	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	2/26/2013 8:32:00 PM	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	2/26/2013 8:32:00 PM	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	2/26/2013 8:32:00 PM	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	2/26/2013 8:32:00 PM	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	2/26/2013 8:32:00 PM	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/14/2013 3:58:00 AM	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/14/2013 3:58:00 AM	4,4'-DDE	n/a	DNQ	0.0063	µg/L	EPA 608	0.0025	0.05	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/14/2013 3:58:00 AM	4,4'-DDT	n/a	DNQ	0.0037	µg/L	EPA 608	0.0031	0.01	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	2/26/2013 8:32:00 PM	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/15/2013 4:38:00 AM	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/14/2013 3:58:00 AM	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/14/2013 3:58:00 AM	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/14/2013 3:58:00 AM	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/15/2013 4:38:00 AM	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/13/2013 8:36:00 PM	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	EUM
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	2/26/2013 8:32:00 PM	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/14/2013 3:58:00 AM	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/13/2013 8:36:00 PM	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/15/2013 4:38:00 AM	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/15/2013 4:38:00 AM	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/15/2013 4:38:00 AM	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/14/2013 3:58:00 AM	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/15/2013 4:38:00 AM	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/13/2013 8:36:00 PM	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/13/2013 8:36:00 PM	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/15/2013 4:38:00 AM	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	2/26/2013 8:32:00 PM	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	2/26/2013 8:32:00 PM	DCPA (Dacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/14/2013 3:58:00 AM	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/13/2013 8:36:00 PM	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/13/2013 8:36:00 PM	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/13/2013 8:36:00 PM	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	2/26/2013 8:32:00 PM	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	2/26/2013 8:32:00 PM	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/13/2013 8:36:00 PM	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/14/2013 3:58:00 AM	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/13/2013 8:36:00 PM	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	2/26/2013 8:32:00 PM	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/15/2013 4:38:00 AM	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/13/2013 8:36:00 PM	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/14/2013 3:58:00 AM	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/14/2013 3:58:00 AM	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/14/2013 3:58:00 AM	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/14/2013 3:58:00 AM	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/14/2013 3:58:00 AM	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/15/2013 4:38:00 AM	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/13/2013 8:36:00 PM	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/13/2013 8:36:00 PM	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/13/2013 8:36:00 PM	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/13/2013 8:36:00 PM	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/14/2013 3:58:00 AM	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/14/2013 3:58:00 AM	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	2/25/2013 5:50:00 PM	Glyphosate	n/a	=	31	µg/L	EPA 547	1.8	5	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/14/2013 3:58:00 AM	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/14/2013 3:58:00 AM	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/13/2013 8:36:00 PM	Malathion	n/a	=	0.088	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/13/2013 8:36:00 PM	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/14/2013 3:58:00 AM	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/13/2013 8:36:00 PM	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/15/2013 4:38:00 AM	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/15/2013 4:38:00 AM	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/13/2013 8:36:00 PM	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/15/2013 4:38:00 AM	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/13/2013 8:36:00 PM	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	2/26/2013 8:32:00 PM	Pentachlorophenol	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.2	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/13/2013 8:36:00 PM	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	2/26/2013 8:32:00 PM	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/15/2013 4:38:00 AM	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/15/2013 4:38:00 AM	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/13/2013 8:36:00 PM	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/15/2013 4:38:00 AM	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/13/2013 8:36:00 PM	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/15/2013 4:38:00 AM	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/15/2013 4:38:00 AM	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/13/2013 8:36:00 PM	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/14/2013 3:58:00 AM	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/13/2013 8:36:00 PM	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-OXN	2012/13-3	Wet	2/20/2013 9:40:00 AM	3/15/2013 4:38:00 AM	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-OXN	2012/13-4	Wet	3/7/2013 9:03:00 PM	3/8/2013 11:02:00 PM	E. Coli	n/a	=	5172	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-OXN	2012/13-4	Wet	3/7/2013 9:03:00 PM	3/11/2013 2:45:00 AM	Fecal Coliform	n/a	=	9000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-OXN	2012/13-4	Wet	3/7/2013 9:03:00 PM	3/8/2013 11:02:00 PM	Total Coliform	n/a	=	191800	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	
MO-OXN	2012/13-4	Wet	3/7/2013 9:03:00 PM	3/7/2013 9:03:00 PM	Conductivity	n/a	=	330	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-OXN	2012/13-4	Wet	3/7/2013 9:03:00 PM	3/22/2013 2:00:00 PM	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-OXN	2012/13-4	Wet	3/7/2013 9:03:00 PM	3/7/2013 9:03:00 PM	DO	n/a	=	6.77	mg/L	Field Meter	-88	0.3	Field Crew	
MO-OXN	2012/13-4	Wet	3/7/2013 9:03:00 PM	3/7/2013 9:03:00 PM	DO	n/a	=	67.4	%	Field Meter	-88	0.1	Field Crew	
MO-OXN	2012/13-4	Wet	3/7/2013 9:03:00 PM	3/7/2013 9:03:00 PM	pH	n/a	=	7.55	pH Units	Field Meter	-88	0.01	Field Crew	
MO-OXN	2012/13-4	Wet	3/7/2013 9:03:00 PM	3/7/2013 9:03:00 PM	Salinity	n/a	=	200	mg/L	Field Meter	-88	100	Field Crew	
MO-OXN	2012/13-4	Wet	3/7/2013 9:03:00 PM	3/7/2013 9:03:00 PM	Specific Conductance	n/a	=	420.5	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-OXN	2012/13-4	Wet	3/7/2013 9:03:00 PM	3/7/2013 9:03:00 PM	Temperature	n/a	=	14.8	°C	Field Meter	-88	0.1	Field Crew	
MO-OXN	2012/13-4	Wet	3/7/2013 9:03:00 PM	3/14/2013 3:00:00 PM	Oil and Grease	n/a	DNQ	4	mg/L	EPA 1664A	1.3	5	WKL	
MO-OXN	2012/13-4	Wet	3/7/2013 9:03:00 PM	3/14/2013 3:00:00 PM	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-OXN	2012/13-4	Wet	3/7/2013 9:03:00 PM	3/11/2013 6:42:00 PM	2-Chloroethyl vinyl ether	n/a	<	0.61	µg/L	EPA 524.2	0.61	1	WKL	
MO-OXN	2012/13-4	Wet	3/7/2013 9:03:00 PM	3/11/2013 6:42:00 PM	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/19/2013 8:50:00 PM	Chloride	n/a	=	29	mg/L	EPA 300.0	1	5	WKL	D

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/19/2013 8:50:00 PM	Fluoride	n/a	=	0.47	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/19/2013 5:42:00 PM	Perchlorate	n/a	<	1.9	µg/L	EPA 314.0	1.9	4	WKL	D
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/14/2013 2:40:00 PM	Calcium	Total	=	30.5	mg/L	EPA 200.7	0.0156	0.1	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/14/2013 2:40:00 PM	Magnesium	Total	=	8.86	mg/L	EPA 200.7	0.0121	0.1	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/22/2013 10:05:00 AM	Alkalinity as CaCO3	n/a	=	61	mg/L	SM 2320 B	0.56	10	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/14/2013 2:00:00 PM	BOD	n/a	=	37	mg/L	SM 5210 B	0.1	2	WKL	EST
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/20/2013 10:56:00 PM	COD	n/a	=	190	mg/L	EPA 410.4	0.73	5	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/14/2013 2:40:00 PM	Hardness as CaCO3	Total	=	113	mg/L	EPA 200.7	0.0885	0.662	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/9/2013 8:43:00 PM	MBAS	n/a	=	2.1	mg/L	SM 5540 C	0.38	1	WKL	D
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	4/3/2013 4:53:00 PM	Phenolics	n/a	=	0.074	mg/L	EPA 420.4	0.0042	0.01	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/18/2013 3:18:00 PM	Specific Conductance	n/a	=	390	µmhos/cm	SM 2510 B	0.23	2	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/12/2013 9:45:00 PM	Total Dissolved Solids	n/a	=	290	mg/L	SM 2540 C	4	10	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/17/2013 10:31:00 AM	Total Organic Carbon	n/a	=	39	mg/L	SM 5310 C	0.18	6	WKL	D
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/12/2013 8:00:00 PM	Total Suspended Solids	n/a	=	66	mg/L	SM 2540 D	5	5	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/9/2013 6:55:00 PM	Turbidity	n/a	=	46	NTU	EPA 180.1	0.024	0.1	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/12/2013 8:00:00 PM	Volatile Suspended Solids	n/a	=	28	mg/L	EPA 160.4	3.1	5	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/22/2013 8:38:00 AM	Aluminum	Dissolved	=	46	µg/L	EPA 200.8	0.61	5	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/22/2013 10:33:00 AM	Aluminum	Total	=	930	µg/L	EPA 200.8	2.1	5	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/22/2013 8:38:00 AM	Antimony	Dissolved	=	2.2	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/22/2013 10:33:00 AM	Antimony	Total	=	2.7	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/22/2013 8:38:00 AM	Arsenic	Dissolved	=	1.5	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/22/2013 10:33:00 AM	Arsenic	Total	=	1.8	µg/L	EPA 200.8	0.13	0.4	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/22/2013 8:38:00 AM	Beryllium	Dissolved	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/22/2013 10:33:00 AM	Beryllium	Total	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/22/2013 8:38:00 AM	Cadmium	Dissolved	=	0.19	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/22/2013 10:33:00 AM	Cadmium	Total	=	0.27	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/22/2013 8:38:00 AM	Chromium	Dissolved	=	2	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/22/2013 10:33:00 AM	Chromium	Total	=	4	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/13/2013 3:51:00 PM	Chromium VI	n/a	=	0.94	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/22/2013 8:38:00 AM	Copper	Dissolved	=	29	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/22/2013 10:33:00 AM	Copper	Total	=	46	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/14/2013 2:37:00 PM	Iron	Dissolved	=	130	µg/L	EPA 200.7	1.1	10	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/14/2013 2:40:00 PM	Iron	Total	=	1500	µg/L	EPA 200.7	1.1	10	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/22/2013 8:38:00 AM	Lead	Dissolved	=	0.55	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/22/2013 10:33:00 AM	Lead	Total	=	3.6	µg/L	EPA 200.8	0.035	0.2	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/27/2013 4:49:00 PM	Mercury	Dissolved	<	3.9	ng/L	EPA 245.1	3.9	50	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	4/3/2013 2:38:00 PM	Mercury	Total	=	59	ng/L	EPA 245.1	3.9	50	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/22/2013 8:38:00 AM	Nickel	Dissolved	=	9.3	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/22/2013 10:33:00 AM	Nickel	Total	=	11	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/22/2013 8:38:00 AM	Selenium	Dissolved	=	1	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/22/2013 10:33:00 AM	Selenium	Total	=	1.2	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/22/2013 8:38:00 AM	Silver	Dissolved	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/22/2013 10:33:00 AM	Silver	Total	DNQ	0.03	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/22/2013 8:38:00 AM	Thallium	Dissolved	<	0.009	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/22/2013 10:33:00 AM	Thallium	Total	<	0.034	µg/L	EPA 200.8	0.034	0.2	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/22/2013 8:38:00 AM	Zinc	Dissolved	=	160	µg/L	EPA 200.8	1.1	5	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/22/2013 10:33:00 AM	Zinc	Total	=	210	µg/L	EPA 200.8	1.1	5	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/26/2013 2:03:00 PM	Ammonia as N	n/a	=	1.4	mg/L	EPA 350.1	0.048	0.1	WKL	HB-MSR

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/11/2013 5:07:00 PM	Nitrate + Nitrite as N	n/a	=	1.3	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	4/4/2013 7:54:00 PM	Phosphorus as P	Dissolved	=	0.37	mg/L	EPA 365.1	0.007	0.05	WKL	D
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	4/4/2013 8:10:00 PM	Phosphorus as P	Total	=	0.54	mg/L	EPA 365.1	0.007	0.05	WKL	D, HB-MSR
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/21/2013 1:30:00 PM	TKN	n/a	=	5	mg/L	EPA 351.2	0.15	0.2	WKL	D
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/19/2013 4:46:00 AM	1,2,4-Trichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/19/2013 4:46:00 AM	1,2-Dichlorobenzene	n/a	<	0.57	µg/L	EPA 625	0.57	1	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/19/2013 4:46:00 AM	1,2-Diphenylhydrazine	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/19/2013 4:46:00 AM	1,3-Dichlorobenzene	n/a	<	0.53	µg/L	EPA 625	0.53	1	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/19/2013 4:46:00 AM	1,4-Dichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	4/10/2013 5:46:00 PM	1-Methylnaphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	4/11/2013 7:40:00 AM	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	4/11/2013 7:40:00 AM	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	4/11/2013 7:40:00 AM	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	4/11/2013 7:40:00 AM	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	4/11/2013 7:40:00 AM	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/19/2013 4:46:00 AM	2,4-Dinitrotoluene	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/19/2013 4:46:00 AM	2,6-Dinitrotoluene	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/19/2013 4:46:00 AM	2-Chloronaphthalene	n/a	<	0.45	µg/L	EPA 625	0.45	1	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	4/11/2013 7:40:00 AM	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	4/10/2013 5:46:00 PM	2-Methylnaphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	4/11/2013 7:40:00 AM	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	4/11/2013 7:40:00 AM	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/19/2013 4:46:00 AM	3,3'-Dichlorobenzidine	n/a	<	1.2	µg/L	EPA 625	1.2	5	WKL	LB-MSR
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	4/11/2013 7:40:00 AM	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	4/11/2013 7:40:00 AM	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/19/2013 4:46:00 AM	4-Bromophenyl phenyl ether	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	4/11/2013 7:40:00 AM	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/19/2013 4:46:00 AM	4-Chlorophenyl phenyl ether	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	4/11/2013 7:40:00 AM	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	4/10/2013 5:46:00 PM	Acenaphthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	4/10/2013 5:46:00 PM	Acenaphthylene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	4/10/2013 5:46:00 PM	Anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	4/10/2013 5:46:00 PM	Benz(a)anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/19/2013 4:46:00 AM	Benzidine	n/a	<	3.7	µg/L	EPA 625	3.7	10	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	4/6/2013 1:01:00 AM	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	4/10/2013 5:46:00 PM	Benzo(b)fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	4/10/2013 5:46:00 PM	Benzo(g,h,i)perylene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	4/10/2013 5:46:00 PM	Benzo(k)fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/19/2013 4:46:00 AM	Bis(2-chloroethoxy)methane	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/19/2013 4:46:00 AM	Bis(2-chloroethyl)ether	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/19/2013 4:46:00 AM	Bis(2-chloroisopropyl)ether	n/a	<	0.38	µg/L	EPA 625	0.38	1	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	4/6/2013 1:01:00 AM	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	4/6/2013 1:01:00 AM	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/19/2013 4:46:00 AM	Butyl benzyl phthalate	n/a	=	3.3	µg/L	EPA 625	0.18	1	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	4/10/2013 5:46:00 PM	Chrysene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	4/10/2013 5:46:00 PM	Dibenz(a,h)anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/19/2013 4:46:00 AM	Diethyl phthalate	n/a	DNQ	0.8	µg/L	EPA 625	0.15	1	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/19/2013 4:46:00 AM	Dimethyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/19/2013 4:46:00 AM	Di-n-butylphthalate	n/a	DNQ	0.88	µg/L	EPA 625	0.24	1	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/19/2013 4:46:00 AM	Di-n-octylphthalate	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	4/10/2013 5:46:00 PM	Fluoranthene	n/a	=	0.12	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	4/10/2013 5:46:00 PM	Fluorene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/19/2013 4:46:00 AM	Hexachlorobenzene	n/a	<	0.49	µg/L	EPA 625	0.49	1	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/19/2013 4:46:00 AM	Hexachlorobutadiene	n/a	<	0.47	µg/L	EPA 625	0.47	1	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/19/2013 4:46:00 AM	Hexachlorocyclopentadiene	n/a	<	1.5	µg/L	EPA 625	1.5	5	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/19/2013 4:46:00 AM	Hexachloroethane	n/a	<	0.52	µg/L	EPA 625	0.52	1	WKL	LB-MSR
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	4/10/2013 5:46:00 PM	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/19/2013 4:46:00 AM	Isophorone	n/a	<	0.21	µg/L	EPA 625	0.21	1	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	4/10/2013 5:46:00 PM	Naphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/19/2013 4:46:00 AM	Nitrobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/19/2013 4:46:00 AM	N-Nitrosodimethylamine	n/a	<	0.14	µg/L	EPA 625	0.14	1	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/19/2013 4:46:00 AM	N-Nitrosodi-N-propylamine	n/a	<	0.26	µg/L	EPA 625	0.26	1	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/19/2013 4:46:00 AM	N-Nitrosodiphenylamine	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	4/10/2013 5:46:00 PM	Phenanthrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	4/11/2013 7:40:00 AM	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	4/10/2013 5:46:00 PM	Pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/24/2013 12:47:00 PM	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/24/2013 12:47:00 PM	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/24/2013 12:47:00 PM	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/24/2013 12:47:00 PM	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/24/2013 12:47:00 PM	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/24/2013 12:47:00 PM	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/24/2013 12:47:00 PM	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/22/2013 1:24:00 AM	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/22/2013 1:24:00 AM	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/22/2013 1:24:00 AM	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/22/2013 1:24:00 AM	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/22/2013 1:24:00 AM	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/24/2013 12:47:00 PM	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	EST-MSRPD
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/24/2013 12:47:00 PM	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	EST-MSRPD
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/24/2013 12:47:00 PM	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/22/2013 1:24:00 AM	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	EST-MSRPD
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	4/6/2013 1:01:00 AM	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/24/2013 12:47:00 PM	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	EST-MSRPD
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/24/2013 12:47:00 PM	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	EST-MSRPD
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/24/2013 12:47:00 PM	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	4/6/2013 1:01:00 AM	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	LB-MSR
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/23/2013 12:05:00 AM	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	EST-MSRPD
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/22/2013 1:24:00 AM	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/24/2013 12:47:00 PM	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	EST-MSRPD
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/23/2013 12:05:00 AM	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	4/6/2013 1:01:00 AM	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	LB-MSR
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	4/6/2013 1:01:00 AM	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	4/6/2013 1:01:00 AM	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	T-MSRPD, LB-M
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/24/2013 12:47:00 PM	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	4/6/2013 1:01:00 AM	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/23/2013 12:05:00 AM	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/23/2013 12:05:00 AM	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	LB-MSR
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	4/6/2013 1:01:00 AM	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	T-MSRPD, LB-M
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/22/2013 1:24:00 AM	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/22/2013 1:24:00 AM	DCPA (Dacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/24/2013 12:47:00 PM	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/23/2013 12:05:00 AM	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/23/2013 12:05:00 AM	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/23/2013 12:05:00 AM	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	EST-MSRPD
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/22/2013 1:24:00 AM	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/22/2013 1:24:00 AM	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/23/2013 12:05:00 AM	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/24/2013 12:47:00 PM	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	EST-MSRPD
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/23/2013 12:05:00 AM	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	LB-MSR
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/22/2013 1:24:00 AM	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	4/6/2013 1:01:00 AM	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/23/2013 12:05:00 AM	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/24/2013 12:47:00 PM	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	EST-MSRPD
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/24/2013 12:47:00 PM	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	EST-MSRPD
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/24/2013 12:47:00 PM	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	EST-MSRPD
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/24/2013 12:47:00 PM	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	EST-MSRPD
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/24/2013 12:47:00 PM	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	4/6/2013 1:01:00 AM	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/23/2013 12:05:00 AM	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/23/2013 12:05:00 AM	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/23/2013 12:05:00 AM	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/23/2013 12:05:00 AM	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/24/2013 12:47:00 PM	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/24/2013 12:47:00 PM	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/12/2013 4:53:00 PM	Glyphosate	n/a	=	100	µg/L	EPA 547	9	25	WKL	D
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/24/2013 12:47:00 PM	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	EST-MSRPD
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/24/2013 12:47:00 PM	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/23/2013 12:05:00 AM	Malathion	n/a	=	0.023	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/23/2013 12:05:00 AM	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/24/2013 12:47:00 PM	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/23/2013 12:05:00 AM	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	4/6/2013 1:01:00 AM	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	4/6/2013 1:01:00 AM	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	LB-MSR
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/23/2013 12:05:00 AM	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	4/6/2013 1:01:00 AM	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/23/2013 12:05:00 AM	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	EST-MSRPD
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/22/2013 1:24:00 AM	Pentachlorophenol	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.2	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/23/2013 12:05:00 AM	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/22/2013 1:24:00 AM	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	4/6/2013 1:01:00 AM	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	4/6/2013 1:01:00 AM	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/23/2013 12:05:00 AM	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	4/6/2013 1:01:00 AM	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	LB-MSR

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/23/2013 12:05:00 AM	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	B-LCSR, LB-MS
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	4/6/2013 1:01:00 AM	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	4/6/2013 1:01:00 AM	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/23/2013 12:05:00 AM	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/24/2013 12:47:00 PM	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	3/23/2013 12:05:00 AM	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-OXN	2012/13-4	Wet	3/8/2013 9:40:00 AM	4/6/2013 1:01:00 AM	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/7/2013 7:06:00 AM	Chloride	n/a	=	160	mg/L	EPA 300.0	0.5	2.5	WKL	D
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/7/2013 7:06:00 AM	Fluoride	n/a	=	1.2	mg/L	EPA 300.0	0.1	0.5	WKL	D
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/2/2013 5:38:00 PM	Perchlorate	n/a	<	1.9	µg/L	EPA 314.0	1.9	4	WKL	D
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	4/24/2013 9:58:00 AM	E. Coli	n/a	=	301	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	4/26/2013 1:09:00 PM	Fecal Coliform	n/a	=	130	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	4/24/2013 9:58:00 AM	Total Coliform	n/a	=	49600	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/6/2013 5:18:00 PM	Calcium	Total	=	113	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/6/2013 5:18:00 PM	Magnesium	Total	=	55.5	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/1/2013 4:26:00 PM	Alkalinity as CaCO3	n/a	=	170	mg/L	SM 2320 B	0.56	10	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	4/29/2013 5:45:00 PM	BOD	n/a	=	10	mg/L	SM 5210 B	0.1	2	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	4/27/2013 1:07:00 PM	COD	n/a	=	87	mg/L	EPA 410.4	0.73	5	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	4/23/2013 10:20:00 AM	Conductivity	n/a	=	1127	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/7/2013 10:43:00 AM	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	4/23/2013 10:20:00 AM	DO	n/a	=	128.7	%	Field Meter	-88	0.1	Field Crew	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	4/23/2013 10:20:00 AM	DO	n/a	=	10.71	mg/L	Field Meter	-88	0.3	Field Crew	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/6/2013 5:18:00 PM	Hardness as CaCO3	Total	=	510	mg/L	EPA 200.7	0.0894	0.662	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	4/24/2013 8:29:00 PM	MBAS	n/a	=	0.17	mg/L	SM 5540 C	0.019	0.05	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	4/23/2013 10:20:00 AM	pH	n/a	=	8.3	pH Units	Field Meter	-88	0.01	Field Crew	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	4/26/2013 12:37:00 PM	Phenolics	n/a	=	0.014	mg/L	EPA 420.4	0.0042	0.01	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	4/23/2013 10:20:00 AM	Salinity	n/a	=	600	mg/L	Field Meter	-88	100	Field Crew	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/3/2013 11:25:00 AM	Specific Conductance	n/a	=	1700	µmhos/cm	SM 2510 B	0.47	4	WKL	D
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	4/23/2013 10:20:00 AM	Specific Conductance	n/a	=	1136	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	4/23/2013 10:20:00 AM	Temperature	n/a	=	24.6	°C	Field Meter	-88	0.1	Field Crew	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	4/29/2013 8:30:00 PM	Total Dissolved Solids	n/a	=	1400	mg/L	SM 2540 C	4	10	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	4/29/2013 1:45:00 PM	Total Organic Carbon	n/a	=	26	mg/L	SM 5310 C	0.09	3	WKL	D
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	4/29/2013 8:30:00 PM	Total Suspended Solids	n/a	=	11	mg/L	SM 2540 D	5	5	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	4/24/2013 5:52:00 PM	Turbidity	n/a	=	3.9	NTU	EPA 180.1	0.024	0.1	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	4/29/2013 8:30:00 PM	Volatile Suspended Solids	n/a	=	6	mg/L	EPA 160.4	3.1	5	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	4/25/2013 5:01:00 PM	Oil and Grease	n/a	<	1.3	mg/L	EPA 1664A	1.3	5	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	4/25/2013 5:01:00 PM	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/7/2013 4:57:00 AM	Aluminum	Dissolved	<	2.1	µg/L	EPA 200.8	2.1	5	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/7/2013 5:05:00 AM	Aluminum	Total	=	69	µg/L	EPA 200.8	2.1	5	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/7/2013 4:57:00 AM	Antimony	Dissolved	=	1.2	µg/L	EPA 200.8	0.034	0.5	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/7/2013 5:05:00 AM	Antimony	Total	=	1.2	µg/L	EPA 200.8	0.034	0.5	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/7/2013 4:57:00 AM	Arsenic	Dissolved	=	3.4	µg/L	EPA 200.8	0.13	0.4	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/7/2013 5:05:00 AM	Arsenic	Total	=	3.4	µg/L	EPA 200.8	0.13	0.4	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/7/2013 4:24:00 PM	Beryllium	Dissolved	<	0.015	µg/L	EPA 200.8	0.015	0.1	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/7/2013 4:29:00 PM	Beryllium	Total	<	0.015	µg/L	EPA 200.8	0.015	0.1	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/7/2013 4:57:00 AM	Cadmium	Dissolved	DNQ	0.08	µg/L	EPA 200.8	0.017	0.1	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/7/2013 5:05:00 AM	Cadmium	Total	=	0.1	µg/L	EPA 200.8	0.017	0.1	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/7/2013 4:57:00 AM	Chromium	Dissolved	=	0.26	µg/L	EPA 200.8	0.024	0.2	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/7/2013 5:05:00 AM	Chromium	Total	=	0.41	µg/L	EPA 200.8	0.024	0.2	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	4/25/2013 12:19:00 PM	Chromium VI	n/a	DNQ	0.075	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/7/2013 4:57:00 AM	Copper	Dissolved	=	26	µg/L	EPA 200.8	0.036	0.5	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/7/2013 5:05:00 AM	Copper	Total	=	30	µg/L	EPA 200.8	0.036	0.5	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/6/2013 5:16:00 PM	Iron	Dissolved	=	11	µg/L	EPA 200.7	1.1	10	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/6/2013 5:18:00 PM	Iron	Total	=	140	µg/L	EPA 200.7	1.1	10	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/7/2013 4:57:00 AM	Lead	Dissolved	DNQ	0.05	µg/L	EPA 200.8	0.024	0.2	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/7/2013 5:05:00 AM	Lead	Total	=	0.45	µg/L	EPA 200.8	0.024	0.2	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/1/2013 4:22:00 PM	Mercury	Dissolved	DNQ	21	ng/L	EPA 245.1	3.9	50	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/1/2013 4:22:00 PM	Mercury	Total	DNQ	11	ng/L	EPA 245.1	3.9	50	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/7/2013 4:57:00 AM	Nickel	Dissolved	=	3.4	µg/L	EPA 200.8	0.091	0.8	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/7/2013 5:05:00 AM	Nickel	Total	=	3.6	µg/L	EPA 200.8	0.091	0.8	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/7/2013 4:24:00 PM	Selenium	Dissolved	=	2.5	µg/L	EPA 200.8	0.081	0.4	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/7/2013 4:29:00 PM	Selenium	Total	=	2.7	µg/L	EPA 200.8	0.081	0.4	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/7/2013 4:57:00 AM	Silver	Dissolved	<	0.012	µg/L	EPA 200.8	0.012	0.2	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/7/2013 5:05:00 AM	Silver	Total	<	0.012	µg/L	EPA 200.8	0.012	0.2	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/7/2013 4:57:00 AM	Thallium	Dissolved	<	0.034	µg/L	EPA 200.8	0.034	0.2	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/7/2013 5:05:00 AM	Thallium	Total	<	0.034	µg/L	EPA 200.8	0.034	0.2	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/7/2013 4:57:00 AM	Zinc	Dissolved	=	9	µg/L	EPA 200.8	0.5	5	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/7/2013 5:05:00 AM	Zinc	Total	=	11	µg/L	EPA 200.8	0.5	5	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/9/2013 4:10:00 PM	Ammonia as N	n/a	=	0.21	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	4/24/2013 12:25:00 PM	Nitrate + Nitrite as N	n/a	=	0.33	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/20/2013 7:33:00 PM	Phosphorus as P	Dissolved	=	0.13	mg/L	EPA 365.1	0.0014	0.01	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/8/2013 11:37:00 PM	Phosphorus as P	Total	=	0.22	mg/L	EPA 365.1	0.0028	0.02	WKL	D
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/6/2013 12:07:00 PM	TKN	n/a	=	2.7	mg/L	EPA 351.2	0.05	0.1	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/7/2013 12:53:00 AM	1,2,4-Trichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/7/2013 12:53:00 AM	1,2-Dichlorobenzene	n/a	<	0.57	µg/L	EPA 625	0.57	1	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/7/2013 12:53:00 AM	1,2-Diphenylhydrazine	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/7/2013 12:53:00 AM	1,3-Dichlorobenzene	n/a	<	0.53	µg/L	EPA 625	0.53	1	WKL	EST-LCSRPD
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/7/2013 12:53:00 AM	1,4-Dichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	EST-LCSRPD
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/11/2013 7:15:00 AM	1-Methylnaphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/10/2013 6:15:00 PM	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/10/2013 6:15:00 PM	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/10/2013 6:15:00 PM	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/10/2013 6:15:00 PM	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/10/2013 6:15:00 PM	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	EST-LCSRPD
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/7/2013 12:53:00 AM	2,4-Dinitrotoluene	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/7/2013 12:53:00 AM	2,6-Dinitrotoluene	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	4/25/2013 9:06:00 AM	2-Chloroethyl vinyl ether	n/a	<	0.28	µg/L	EPA 624	0.28	1	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/7/2013 12:53:00 AM	2-Chloronaphthalene	n/a	<	0.45	µg/L	EPA 625	0.45	1	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/10/2013 6:15:00 PM	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/11/2013 7:15:00 AM	2-Methylnaphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/10/2013 6:15:00 PM	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/10/2013 6:15:00 PM	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/7/2013 12:53:00 AM	3,3'-Dichlorobenzidine	n/a	<	1.2	µg/L	EPA 625	1.2	5	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/10/2013 6:15:00 PM	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/10/2013 6:15:00 PM	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/7/2013 12:53:00 AM	4-Bromophenyl phenyl ether	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/10/2013 6:15:00 PM	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/7/2013 12:53:00 AM	4-Chlorophenyl phenyl ether	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/10/2013 6:15:00 PM	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/11/2013 7:15:00 AM	Acenaphthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/11/2013 7:15:00 AM	Acenaphthylene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/11/2013 7:15:00 AM	Anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/11/2013 7:15:00 AM	Benz(a)anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/7/2013 12:53:00 AM	Benzidine	n/a	<	3.7	µg/L	EPA 625	3.7	10	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/1/2013 8:03:00 PM	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/11/2013 7:15:00 AM	Benzo(b)fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/11/2013 7:15:00 AM	Benzo(g,h,i)perylene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/11/2013 7:15:00 AM	Benzo(k)fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/7/2013 12:53:00 AM	Bis(2-chloroethoxy)methane	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/7/2013 12:53:00 AM	Bis(2-chloroethyl)ether	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/7/2013 12:53:00 AM	Bis(2-chloroisopropyl)ether	n/a	<	0.38	µg/L	EPA 625	0.38	1	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/1/2013 8:03:00 PM	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/1/2013 8:03:00 PM	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/7/2013 12:53:00 AM	Butyl benzyl phthalate	n/a	DNQ	0.55	µg/L	EPA 625	0.18	1	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/11/2013 7:15:00 AM	Chrysene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/11/2013 7:15:00 AM	Dibenz(a,h)anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/7/2013 12:53:00 AM	Diethyl phthalate	n/a	DNQ	0.7	µg/L	EPA 625	0.15	1	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/7/2013 12:53:00 AM	Dimethyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/7/2013 12:53:00 AM	Di-n-butylphthalate	n/a	DNQ	0.42	µg/L	EPA 625	0.24	1	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/7/2013 12:53:00 AM	Di-n-octylphthalate	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/11/2013 7:15:00 AM	Fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/11/2013 7:15:00 AM	Fluorene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/7/2013 12:53:00 AM	Hexachlorobenzene	n/a	<	0.49	µg/L	EPA 625	0.49	1	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/7/2013 12:53:00 AM	Hexachlorobutadiene	n/a	<	0.47	µg/L	EPA 625	0.47	1	WKL	EST-LCSRPD
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/7/2013 12:53:00 AM	Hexachlorocyclopentadiene	n/a	<	1.5	µg/L	EPA 625	1.5	5	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/7/2013 12:53:00 AM	Hexachloroethane	n/a	<	0.52	µg/L	EPA 625	0.52	1	WKL	EST-LCSRPD
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/11/2013 7:15:00 AM	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/7/2013 12:53:00 AM	Isophorone	n/a	<	0.21	µg/L	EPA 625	0.21	1	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	4/25/2013 9:06:00 AM	Methyl tert-butyl ether (MTBE)	n/a	<	0.25	µg/L	EPA 624	0.25	1	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/11/2013 7:15:00 AM	Naphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/7/2013 12:53:00 AM	Nitrobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/7/2013 12:53:00 AM	N-Nitrosodimethylamine	n/a	<	0.14	µg/L	EPA 625	0.14	1	WKL	EST-LCSRPD
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/7/2013 12:53:00 AM	N-Nitrosodi-N-propylamine	n/a	<	0.26	µg/L	EPA 625	0.26	1	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/7/2013 12:53:00 AM	N-Nitrosodiphenylamine	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/11/2013 7:15:00 AM	Phenanthrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/10/2013 6:15:00 PM	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/11/2013 7:15:00 AM	Pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/8/2013 2:33:00 AM	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/8/2013 2:33:00 AM	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/8/2013 2:33:00 AM	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/8/2013 2:33:00 AM	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/8/2013 2:33:00 AM	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/8/2013 2:33:00 AM	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/8/2013 2:33:00 AM	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	4/26/2013 3:44:00 PM	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	4/26/2013 3:44:00 PM	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	4/26/2013 3:44:00 PM	2,4-D	n/a	=	1.5	µg/L	EPA 515.3	0.07	0.4	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	4/26/2013 3:44:00 PM	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	4/26/2013 3:44:00 PM	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/8/2013 2:33:00 AM	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/8/2013 2:33:00 AM	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/8/2013 2:33:00 AM	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	4/26/2013 3:44:00 PM	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/1/2013 8:03:00 PM	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/8/2013 2:33:00 AM	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/8/2013 2:33:00 AM	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/8/2013 2:33:00 AM	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/1/2013 8:03:00 PM	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	4/29/2013 8:40:00 PM	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	4/26/2013 3:44:00 PM	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/8/2013 2:33:00 AM	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	4/29/2013 8:40:00 PM	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/1/2013 8:03:00 PM	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/1/2013 8:03:00 PM	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/1/2013 8:03:00 PM	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/8/2013 2:33:00 AM	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/1/2013 8:03:00 PM	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	4/29/2013 8:40:00 PM	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	4/29/2013 8:40:00 PM	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/1/2013 8:03:00 PM	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	4/26/2013 3:44:00 PM	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	4/26/2013 3:44:00 PM	DCPA (Dacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/8/2013 2:33:00 AM	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	4/29/2013 8:40:00 PM	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	4/29/2013 8:40:00 PM	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	4/29/2013 8:40:00 PM	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	4/26/2013 3:44:00 PM	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	4/26/2013 3:44:00 PM	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	4/29/2013 8:40:00 PM	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/8/2013 2:33:00 AM	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	4/29/2013 8:40:00 PM	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	4/26/2013 3:44:00 PM	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/1/2013 8:03:00 PM	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	4/29/2013 8:40:00 PM	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/8/2013 2:33:00 AM	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/8/2013 2:33:00 AM	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/8/2013 2:33:00 AM	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/8/2013 2:33:00 AM	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/8/2013 2:33:00 AM	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/1/2013 8:03:00 PM	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	4/29/2013 8:40:00 PM	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	4/29/2013 8:40:00 PM	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	4/29/2013 8:40:00 PM	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	4/29/2013 8:40:00 PM	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/8/2013 2:33:00 AM	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/8/2013 2:33:00 AM	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	4/24/2013 12:52:00 PM	Glyphosate	n/a	=	25	µg/L	EPA 547	1.8	5	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/8/2013 2:33:00 AM	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/8/2013 2:33:00 AM	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	4/29/2013 8:40:00 PM	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	4/29/2013 8:40:00 PM	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/8/2013 2:33:00 AM	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	4/29/2013 8:40:00 PM	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/1/2013 8:03:00 PM	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/1/2013 8:03:00 PM	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	4/29/2013 8:40:00 PM	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/1/2013 8:03:00 PM	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	4/29/2013 8:40:00 PM	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	4/26/2013 3:44:00 PM	Pentachlorophenol	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.2	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	4/29/2013 8:40:00 PM	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	4/26/2013 3:44:00 PM	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/1/2013 8:03:00 PM	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	EST-LCSRPD
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/1/2013 8:03:00 PM	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	4/29/2013 8:40:00 PM	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/1/2013 8:03:00 PM	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	4/29/2013 8:40:00 PM	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/1/2013 8:03:00 PM	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/1/2013 8:03:00 PM	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	4/29/2013 8:40:00 PM	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/8/2013 2:33:00 AM	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	4/29/2013 8:40:00 PM	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-OXN	2012/13-5	Dry	4/23/2013 10:20:00 AM	5/1/2013 8:03:00 PM	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-OXN	2013-DRY	Dry	8/12/2013 9:45:00 AM	8/13/2013 9:30:00 AM	E. Coli	n/a	=	31	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-OXN	2013-DRY	Dry	8/12/2013 9:45:00 AM	8/13/2013 9:30:00 AM	Total Coliform	n/a	=	517200	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	
MO-OXN	2013-DRY	Dry	8/12/2013 9:45:00 AM	8/22/2013 12:06:00 PM	Calcium	Total	=	110	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-OXN	2013-DRY	Dry	8/12/2013 9:45:00 AM	8/22/2013 12:06:00 PM	Magnesium	Total	=	69.4	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-OXN	2013-DRY	Dry	8/12/2013 9:45:00 AM	8/12/2013 9:45:00 AM	Conductivity	n/a	=	2030	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-OXN	2013-DRY	Dry	8/12/2013 9:45:00 AM	8/12/2013 9:45:00 AM	Discharge	n/a	<	0.01	cfs	Field Estimate	-88	-88	Field Crew	
MO-OXN	2013-DRY	Dry	8/12/2013 9:45:00 AM	8/12/2013 9:45:00 AM	DO	n/a	=	157.4	%	Field Meter	-88	0.1	Field Crew	
MO-OXN	2013-DRY	Dry	8/12/2013 9:45:00 AM	8/12/2013 9:45:00 AM	DO	n/a	=	13.39	mg/L	Field Meter	-88	0.3	Field Crew	
MO-OXN	2013-DRY	Dry	8/12/2013 9:45:00 AM	8/22/2013 12:06:00 PM	Hardness as CaCO3	Total	=	561	mg/L	EPA 200.7	0.0894	0.662	WKL	
MO-OXN	2013-DRY	Dry	8/12/2013 9:45:00 AM	8/12/2013 9:45:00 AM	pH	n/a	=	9.08	pH Units	Field Meter	-88	0.01	Field Crew	
MO-OXN	2013-DRY	Dry	8/12/2013 9:45:00 AM	8/12/2013 9:45:00 AM	Salinity	n/a	=	1100	mg/L	Field Meter	-88	100	Field Crew	
MO-OXN	2013-DRY	Dry	8/12/2013 9:45:00 AM	8/12/2013 9:45:00 AM	Specific Conductance	n/a	=	2080	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-OXN	2013-DRY	Dry	8/12/2013 9:45:00 AM	8/12/2013 9:45:00 AM	Temperature	n/a	=	23.7	°C	Field Meter	-88	0.1	Field Crew	
MO-OXN	2013-DRY	Dry	8/12/2013 9:45:00 AM	8/19/2013 7:05:00 PM	Total Organic Carbon	n/a	=	28	mg/L	SM 5310 C	0.09	3	WKL	D
MO-OXN	2013-DRY	Dry	8/12/2013 9:45:00 AM	8/12/2013 9:45:00 AM	Turbidity	n/a	=	4.94	NTU	Field Meter	-88	0.01	Field Crew	
MO-OXN	2013-DRY	Dry	8/12/2013 9:45:00 AM	8/23/2013 11:37:00 PM	Copper	Dissolved	=	55	µg/L	EPA 200.8	0.036	0.5	WKL	
MO-OXN	2013-DRY	Dry	8/12/2013 9:45:00 AM	8/23/2013 11:37:00 PM	Lead	Dissolved	=	0.26	µg/L	EPA 200.8	0.024	0.2	WKL	
MO-OXN	2013-DRY	Dry	8/12/2013 9:45:00 AM	8/23/2013 11:37:00 PM	Zinc	Dissolved	=	6.1	µg/L	EPA 200.8	0.5	5	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SIM	2012/13-2	Wet	11/17/2012 11:45:00 AM	11/18/2012 9:10:00 AM	E. Coli	n/a	=	17329	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-SIM	2012/13-2	Wet	11/17/2012 11:45:00 AM	11/20/2012 1:38:00 PM	Fecal Coliform	n/a	=	28000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-SIM	2012/13-2	Wet	11/17/2012 11:45:00 AM	11/18/2012 9:10:00 AM	Total Coliform	n/a	=	980400	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	
MO-SIM	2012/13-2	Wet	11/17/2012 11:45:00 AM	11/17/2012 11:45:00 AM	Conductivity	n/a	=	548	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-SIM	2012/13-2	Wet	11/17/2012 11:45:00 AM	12/7/2012 2:03:00 PM	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-SIM	2012/13-2	Wet	11/17/2012 11:45:00 AM	11/17/2012 11:45:00 AM	DO	n/a	=	9.19	mg/L	Field Meter	-88	0.3	Field Crew	
MO-SIM	2012/13-2	Wet	11/17/2012 11:45:00 AM	11/17/2012 11:45:00 AM	DO	n/a	=	96.6	%	Field Meter	-88	0.1	Field Crew	
MO-SIM	2012/13-2	Wet	11/17/2012 11:45:00 AM	11/17/2012 11:45:00 AM	pH	n/a	=	7.75	pH Units	Field Meter	-88	0.01	Field Crew	
MO-SIM	2012/13-2	Wet	11/17/2012 11:45:00 AM	11/17/2012 11:45:00 AM	Salinity	n/a	=	300	mg/L	Field Meter	-88	100	Field Crew	
MO-SIM	2012/13-2	Wet	11/17/2012 11:45:00 AM	11/17/2012 11:45:00 AM	Specific Conductance	n/a	=	562	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-SIM	2012/13-2	Wet	11/17/2012 11:45:00 AM	11/17/2012 11:45:00 AM	Temperature	n/a	=	17.4	°C	Field Meter	-88	0.1	Field Crew	
MO-SIM	2012/13-2	Wet	11/17/2012 11:45:00 AM	11/30/2012 3:45:00 PM	Oil and Grease	n/a	DNQ	1.8	mg/L	EPA 1664A	1.3	5	WKL	
MO-SIM	2012/13-2	Wet	11/17/2012 11:45:00 AM	11/30/2012 3:45:00 PM	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-SIM	2012/13-2	Wet	11/17/2012 11:45:00 AM	11/27/2012 10:07:00 PM	2-Chloroethyl vinyl ether	n/a	<	0.61	µg/L	EPA 524.2	0.61	1	WKL	
MO-SIM	2012/13-2	Wet	11/17/2012 11:45:00 AM	11/27/2012 10:07:00 PM	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/28/2012 12:29:00 PM	Chloride	n/a	=	52	mg/L	EPA 300.0	1	5	WKL	D
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/28/2012 12:29:00 PM	Fluoride	n/a	=	0.39	mg/L	EPA 300.0	0.04	0.2	WKL	D
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/27/2012 6:30:00 PM	Perchlorate	n/a	DNQ	1.2	µg/L	EPA 314.0	0.95	2	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/28/2012 12:32:00 PM	Calcium	Total	=	142	mg/L	EPA 200.7	0.0156	0.1	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/28/2012 12:32:00 PM	Magnesium	Total	=	32.3	mg/L	EPA 200.7	0.0121	0.1	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/30/2012 4:45:00 PM	Alkalinity as CaCO3	n/a	=	140	mg/L	SM 2320 B	0.56	2	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/24/2012 12:30:00 PM	BOD	n/a	=	29	mg/L	SM 5210 B	0.1	2	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/27/2012 9:06:00 AM	COD	n/a	=	200	mg/L	EPA 410.4	0.73	5	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/28/2012 12:32:00 PM	Hardness as CaCO3	Total	=	488	mg/L	EPA 200.7	0.0885	0.662	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/19/2012 9:46:00 PM	MBAS	n/a	=	0.21	mg/L	SM 5540 C	0.038	0.1	WKL	D
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/30/2012 2:59:00 PM	Phenolics	n/a	=	0.023	mg/L	EPA 420.4	0.0042	0.01	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/30/2012 11:00:00 AM	Specific Conductance	n/a	=	1000	µmhos/cm	SM 2510 B	0.23	2	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/21/2012 11:58:00 AM	Total Dissolved Solids	n/a	=	650	mg/L	SM 2540 C	4	10	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/26/2012 10:48:00 AM	Total Organic Carbon	n/a	=	23	mg/L	SM 5310 C	0.09	3	WKL	D
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/20/2012 7:20:00 PM	Total Suspended Solids	n/a	=	430	mg/L	SM 2540 D	5	5	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/19/2012 10:13:00 PM	Turbidity	n/a	=	37	NTU	EPA 180.1	0.024	0.1	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/20/2012 7:20:00 PM	Volatile Suspended Solids	n/a	=	91	mg/L	EPA 160.4	3.1	5	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	12/3/2012 7:03:00 PM	Aluminum	Dissolved	=	5.4	µg/L	EPA 200.8	0.61	5	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	12/3/2012 7:11:00 PM	Aluminum	Total	=	3200	µg/L	EPA 200.8	0.61	5	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	12/3/2012 7:03:00 PM	Antimony	Dissolved	=	1.3	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	12/3/2012 7:11:00 PM	Antimony	Total	=	2.3	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	12/3/2012 7:03:00 PM	Arsenic	Dissolved	=	1.9	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	12/3/2012 7:11:00 PM	Arsenic	Total	=	5.4	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	12/3/2012 7:03:00 PM	Beryllium	Dissolved	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	12/3/2012 7:11:00 PM	Beryllium	Total	=	0.15	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	12/3/2012 7:03:00 PM	Cadmium	Dissolved	=	0.12	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	12/3/2012 7:11:00 PM	Cadmium	Total	=	1.5	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	12/3/2012 7:03:00 PM	Chromium	Dissolved	=	0.6	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	12/3/2012 7:11:00 PM	Chromium	Total	=	9.7	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	12/3/2012 7:33:00 PM	Chromium VI	n/a	=	0.52	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	12/3/2012 7:03:00 PM	Copper	Dissolved	=	6.8	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	12/3/2012 7:11:00 PM	Copper	Total	=	50	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/28/2012 12:29:00 PM	Iron	Dissolved	=	37	µg/L	EPA 200.7	1.1	10	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/28/2012 12:32:00 PM	Iron	Total	=	6500	µg/L	EPA 200.7	1.1	10	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	12/3/2012 7:03:00 PM	Lead	Dissolved	DNQ	0.11	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	12/3/2012 7:11:00 PM	Lead	Total	=	16	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	12/4/2012 12:25:00 PM	Mercury	Dissolved	<	3.9	ng/L	EPA 245.1	3.9	50	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	12/4/2012 12:25:00 PM	Mercury	Total	DNQ	18	ng/L	EPA 245.1	3.9	50	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	12/3/2012 7:03:00 PM	Nickel	Dissolved	=	5.4	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	12/3/2012 7:11:00 PM	Nickel	Total	=	21	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	12/3/2012 7:03:00 PM	Selenium	Dissolved	=	8.6	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	12/3/2012 7:11:00 PM	Selenium	Total	=	9	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	12/3/2012 7:03:00 PM	Silver	Dissolved	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	12/3/2012 7:11:00 PM	Silver	Total	DNQ	0.19	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	12/3/2012 7:03:00 PM	Thallium	Dissolved	<	0.009	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	12/3/2012 7:11:00 PM	Thallium	Total	DNQ	0.09	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	12/3/2012 7:03:00 PM	Zinc	Dissolved	=	15	µg/L	EPA 200.8	1.1	5	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	12/3/2012 7:11:00 PM	Zinc	Total	=	190	µg/L	EPA 200.8	1.1	5	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	12/5/2012 5:45:00 PM	Ammonia as N	n/a	=	1.4	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/19/2012 7:06:00 PM	Nitrate + Nitrite as N	n/a	=	3.6	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	12/14/2012 1:00:00 PM	Phosphorus as P	Dissolved	=	0.24	mg/L	EPA 365.1	0.0028	0.02	WKL	D
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	12/14/2012 12:12:00 PM	Phosphorus as P	Total	=	1.1	mg/L	EPA 365.1	0.014	0.1	WKL	D, DG
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/28/2012 4:21:00 PM	TKN	n/a	=	4.9	mg/L	EPA 351.2	0.15	0.2	WKL	D
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/28/2012 3:06:00 AM	1,2,4-Trichlorobenzene	n/a	<	1.1	µg/L	EPA 625	1.1	2	WKL	D, DF
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/28/2012 3:06:00 AM	1,2-Dichlorobenzene	n/a	<	1.1	µg/L	EPA 625	1.1	2	WKL	D, DF
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/28/2012 3:06:00 AM	1,2-Diphenylhydrazine	n/a	<	0.5	µg/L	EPA 625	0.5	2	WKL	D, DF
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/28/2012 3:06:00 AM	1,3-Dichlorobenzene	n/a	<	1.1	µg/L	EPA 625	1.1	2	WKL	D, DF
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/28/2012 3:06:00 AM	1,4-Dichlorobenzene	n/a	<	1.1	µg/L	EPA 625	1.1	2	WKL	D, DF
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/29/2012 4:45:00 AM	1-Methylnaphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/29/2012 9:00:00 PM	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/29/2012 9:00:00 PM	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	EUM
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/29/2012 9:00:00 PM	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/29/2012 9:00:00 PM	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/29/2012 9:00:00 PM	2,4-Dinitrophenol	n/a	DNQ	1.2	µg/L	EPA 8270Cm	1	2	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/28/2012 3:06:00 AM	2,4-Dinitrotoluene	n/a	<	0.36	µg/L	EPA 625	0.36	2	WKL	D, DF
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/28/2012 3:06:00 AM	2,6-Dinitrotoluene	n/a	<	0.54	µg/L	EPA 625	0.54	2	WKL	D, DF
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/28/2012 3:06:00 AM	2-Chloronaphthalene	n/a	<	0.9	µg/L	EPA 625	0.9	2	WKL	D, DF
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/29/2012 9:00:00 PM	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	EUM
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/29/2012 4:45:00 AM	2-Methylnaphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/29/2012 9:00:00 PM	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/29/2012 9:00:00 PM	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/28/2012 3:06:00 AM	3,3'-Dichlorobenzidine	n/a	<	2.4	µg/L	EPA 625	2.4	10	WKL	D, DF
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/29/2012 9:00:00 PM	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/29/2012 9:00:00 PM	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/28/2012 3:06:00 AM	4-Bromophenyl phenyl ether	n/a	<	0.72	µg/L	EPA 625	0.72	2	WKL	D, DF
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/29/2012 9:00:00 PM	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/28/2012 3:06:00 AM	4-Chlorophenyl phenyl ether	n/a	<	0.82	µg/L	EPA 625	0.82	2	WKL	D, DF
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/29/2012 9:00:00 PM	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/29/2012 4:45:00 AM	Acenaphthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	EUM
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/29/2012 4:45:00 AM	Acenaphthylene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/29/2012 4:45:00 AM	Anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/29/2012 4:45:00 AM	Benz(a)anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/28/2012 3:06:00 AM	Benzidine	n/a	<	7.3	µg/L	EPA 625	7.3	20	WKL	D, DF
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	12/4/2012 7:16:00 AM	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/29/2012 4:45:00 AM	Benzo(b)fluoranthene	n/a	=	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/29/2012 4:45:00 AM	Benzo(g,h,i)perylene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/29/2012 4:45:00 AM	Benzo(k)fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/28/2012 3:06:00 AM	Bis(2-chloroethoxy)methane	n/a	<	0.5	µg/L	EPA 625	0.5	2	WKL	D, DF
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/28/2012 3:06:00 AM	Bis(2-chloroethyl)ether	n/a	<	0.54	µg/L	EPA 625	0.54	2	WKL	D, DF
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/28/2012 3:06:00 AM	Bis(2-chloroisopropyl)ether	n/a	<	0.76	µg/L	EPA 625	0.76	2	WKL	D, DF
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	12/4/2012 7:16:00 AM	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	12/4/2012 7:16:00 AM	Bis(2-ethylhexyl)phthalate	n/a	DNQ	1.3	µg/L	EPA 525.2	1.1	3	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/28/2012 3:06:00 AM	Butyl benzyl phthalate	n/a	DNQ	0.58	µg/L	EPA 625	0.36	2	WKL	D, DF
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/29/2012 4:45:00 AM	Chrysene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/29/2012 4:45:00 AM	Dibenz(a,h)anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/28/2012 3:06:00 AM	Diethyl phthalate	n/a	=	3.3	µg/L	EPA 625	0.3	2	WKL	D, DF
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/28/2012 3:06:00 AM	Dimethyl phthalate	n/a	<	0.36	µg/L	EPA 625	0.36	2	WKL	D, DF
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/28/2012 3:06:00 AM	Di-n-butylphthalate	n/a	<	0.48	µg/L	EPA 625	0.48	2	WKL	D, DF
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/28/2012 3:06:00 AM	Di-n-octylphthalate	n/a	<	0.38	µg/L	EPA 625	0.38	2	WKL	D, DF
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/29/2012 4:45:00 AM	Fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/29/2012 4:45:00 AM	Fluorene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	EUM
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/28/2012 3:06:00 AM	Hexachlorobenzene	n/a	<	0.98	µg/L	EPA 625	0.98	2	WKL	D, DF
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/28/2012 3:06:00 AM	Hexachlorobutadiene	n/a	<	0.94	µg/L	EPA 625	0.94	2	WKL	D, DF
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/28/2012 3:06:00 AM	Hexachlorocyclopentadiene	n/a	<	2.9	µg/L	EPA 625	2.9	10	WKL	D, DF
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/28/2012 3:06:00 AM	Hexachloroethane	n/a	<	1	µg/L	EPA 625	1	2	WKL	D, DF
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/29/2012 4:45:00 AM	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/28/2012 3:06:00 AM	Isophorone	n/a	<	0.42	µg/L	EPA 625	0.42	2	WKL	D, DF
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/29/2012 4:45:00 AM	Naphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/28/2012 3:06:00 AM	Nitrobenzene	n/a	<	0.72	µg/L	EPA 625	0.72	2	WKL	D, DF
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/28/2012 3:06:00 AM	N-Nitrosodimethylamine	n/a	<	0.28	µg/L	EPA 625	0.28	2	WKL	D, DF, EUM
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/28/2012 3:06:00 AM	N-Nitrosodi-N-propylamine	n/a	<	0.52	µg/L	EPA 625	0.52	2	WKL	D, DF
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/28/2012 3:06:00 AM	N-Nitrosodiphenylamine	n/a	<	0.38	µg/L	EPA 625	0.38	2	WKL	D, DF
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/29/2012 4:45:00 AM	Phenanthrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	EUM
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/29/2012 9:00:00 PM	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/29/2012 4:45:00 AM	Pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	EUM
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/28/2012 5:06:00 AM	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/28/2012 5:06:00 AM	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/28/2012 5:06:00 AM	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/28/2012 5:06:00 AM	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/28/2012 5:06:00 AM	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/28/2012 5:06:00 AM	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/28/2012 5:06:00 AM	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	12/2/2012 1:29:00 AM	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	12/2/2012 1:29:00 AM	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	12/2/2012 1:29:00 AM	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	12/2/2012 1:29:00 AM	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	12/2/2012 1:29:00 AM	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/28/2012 5:06:00 AM	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/28/2012 5:06:00 AM	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/28/2012 5:06:00 AM	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	12/2/2012 1:29:00 AM	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	12/4/2012 7:16:00 AM	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/28/2012 5:06:00 AM	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/28/2012 5:06:00 AM	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/28/2012 5:06:00 AM	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	12/4/2012 7:16:00 AM	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	12/13/2012 2:49:00 PM	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	EUM
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	12/2/2012 1:29:00 AM	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/28/2012 5:06:00 AM	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	12/13/2012 2:49:00 PM	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	12/4/2012 7:16:00 AM	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	12/4/2012 7:16:00 AM	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	12/4/2012 7:16:00 AM	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/28/2012 5:06:00 AM	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	12/4/2012 7:16:00 AM	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	12/13/2012 2:49:00 PM	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	12/13/2012 2:49:00 PM	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	12/4/2012 7:16:00 AM	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	12/2/2012 1:29:00 AM	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	12/2/2012 1:29:00 AM	DCPA (Dacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/28/2012 5:06:00 AM	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	12/13/2012 2:49:00 PM	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	12/13/2012 2:49:00 PM	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	12/13/2012 2:49:00 PM	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	12/2/2012 1:29:00 AM	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	12/2/2012 1:29:00 AM	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	12/13/2012 2:49:00 PM	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/28/2012 5:06:00 AM	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	12/13/2012 2:49:00 PM	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	12/2/2012 1:29:00 AM	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	12/4/2012 7:16:00 AM	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	12/13/2012 2:49:00 PM	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/28/2012 5:06:00 AM	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/28/2012 5:06:00 AM	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/28/2012 5:06:00 AM	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/28/2012 5:06:00 AM	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/28/2012 5:06:00 AM	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	12/4/2012 7:16:00 AM	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	12/13/2012 2:49:00 PM	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	12/13/2012 2:49:00 PM	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	12/13/2012 2:49:00 PM	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	12/13/2012 2:49:00 PM	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/28/2012 5:06:00 AM	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/28/2012 5:06:00 AM	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/28/2012 6:40:00 PM	Glyphosate	n/a	<	1.8	µg/L	EPA 547	1.8	5	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/28/2012 5:06:00 AM	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/28/2012 5:06:00 AM	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	12/13/2012 2:49:00 PM	Malathion	n/a	=	0.039	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	12/13/2012 2:49:00 PM	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/28/2012 5:06:00 AM	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	12/13/2012 2:49:00 PM	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	12/4/2012 7:16:00 AM	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	12/4/2012 7:16:00 AM	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	12/13/2012 2:49:00 PM	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	12/4/2012 7:16:00 AM	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	12/13/2012 2:49:00 PM	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.1	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	12/2/2012 1:29:00 AM	Pentachlorophenol	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.2	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	12/13/2012 2:49:00 PM	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	12/2/2012 1:29:00 AM	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	12/4/2012 7:16:00 AM	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	12/4/2012 7:16:00 AM	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	12/13/2012 2:49:00 PM	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	12/4/2012 7:16:00 AM	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	12/13/2012 2:49:00 PM	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	12/4/2012 7:16:00 AM	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	12/4/2012 7:16:00 AM	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	12/13/2012 2:49:00 PM	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	11/28/2012 5:06:00 AM	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	12/13/2012 2:49:00 PM	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-SIM	2012/13-2	Wet	11/18/2012 9:17:00 AM	12/4/2012 7:16:00 AM	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-SIM	2012/13-3	Wet	2/19/2013 8:41:00 PM	2/20/2013 6:30:00 PM	E. Coli	n/a	=	30500	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	
MO-SIM	2012/13-3	Wet	2/19/2013 8:41:00 PM	2/23/2013 10:45:00 PM	Fecal Coliform	n/a	=	28000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-SIM	2012/13-3	Wet	2/19/2013 8:41:00 PM	2/20/2013 6:30:00 PM	Total Coliform	n/a	=	261300	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	
MO-SIM	2012/13-3	Wet	2/19/2013 8:41:00 PM	2/19/2013 8:41:00 PM	Conductivity	n/a	=	412.7	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-SIM	2012/13-3	Wet	2/19/2013 8:41:00 PM	3/8/2013 9:37:00 PM	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-SIM	2012/13-3	Wet	2/19/2013 8:41:00 PM	2/19/2013 8:41:00 PM	DO	n/a	=	9.74	mg/L	Field Meter	-88	0.3	Field Crew	
MO-SIM	2012/13-3	Wet	2/19/2013 8:41:00 PM	2/19/2013 8:41:00 PM	DO	n/a	=	89.3	%	Field Meter	-88	0.1	Field Crew	
MO-SIM	2012/13-3	Wet	2/19/2013 8:41:00 PM	2/19/2013 8:41:00 PM	pH	n/a	=	7.41	pH Units	Field Meter	-88	0.01	Field Crew	
MO-SIM	2012/13-3	Wet	2/19/2013 8:41:00 PM	2/19/2013 8:41:00 PM	Salinity	n/a	=	300	mg/L	Field Meter	-88	100	Field Crew	
MO-SIM	2012/13-3	Wet	2/19/2013 8:41:00 PM	2/19/2013 8:41:00 PM	Specific Conductance	n/a	=	557	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-SIM	2012/13-3	Wet	2/19/2013 8:41:00 PM	2/19/2013 8:41:00 PM	Temperature	n/a	=	11.5	°C	Field Meter	-88	0.1	Field Crew	
MO-SIM	2012/13-3	Wet	2/19/2013 8:41:00 PM	3/4/2013 6:09:00 PM	Oil and Grease	n/a	DNQ	1.9	mg/L	EPA 1664A	1.3	5	WKL	
MO-SIM	2012/13-3	Wet	2/19/2013 8:41:00 PM	3/4/2013 6:09:00 PM	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-SIM	2012/13-3	Wet	2/19/2013 8:41:00 PM	2/28/2013 6:36:00 AM	2-Chloroethyl vinyl ether	n/a	<	0.61	µg/L	EPA 524.2	0.61	1	WKL	
MO-SIM	2012/13-3	Wet	2/19/2013 8:41:00 PM	2/28/2013 6:36:00 AM	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	2/28/2013 12:03:00 PM	Chloride	n/a	=	37	mg/L	EPA 300.0	0.1	0.5	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	2/28/2013 12:03:00 PM	Fluoride	n/a	=	0.29	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/1/2013 7:35:00 AM	Perchlorate	n/a	<	0.95	µg/L	EPA 314.0	0.95	2	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	2/25/2013 2:17:00 PM	Calcium	Total	=	102	mg/L	EPA 200.7	0.0156	0.1	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	2/25/2013 2:17:00 PM	Magnesium	Total	=	21.8	mg/L	EPA 200.7	0.0121	0.1	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	2/25/2013 10:23:00 PM	Alkalinity as CaCO3	n/a	=	95	mg/L	SM 2320 B	0.56	2	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	2/27/2013 11:44:00 AM	BOD	n/a	=	20	mg/L	SM 5210 B	0.1	2	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/2/2013 4:05:00 PM	COD	n/a	=	150	mg/L	EPA 410.4	0.73	5	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	2/25/2013 2:17:00 PM	Hardness as CaCO3	Total	=	345	mg/L	EPA 200.7	0.0885	0.662	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	2/21/2013 9:38:00 PM	MBAS	n/a	=	0.43	mg/L	SM 5540 C	0.038	0.1	WKL	D

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/4/2013 1:31:00 PM	Phenolics	n/a	=	0.038	mg/L	EPA 420.4	0.0042	0.01	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/4/2013 7:13:00 PM	Specific Conductance	n/a	=	750	µmhos/cm	SM 2510 B	0.23	2	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	2/26/2013 4:20:00 PM	Total Dissolved Solids	n/a	=	470	mg/L	SM 2540 C	4	10	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/4/2013 10:20:00 AM	Total Organic Carbon	n/a	=	16	mg/L	SM 5310 C	0.09	3	WKL	D
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	2/26/2013 8:27:00 PM	Total Suspended Solids	n/a	=	550	mg/L	SM 2540 D	5	5	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	2/21/2013 7:26:00 PM	Turbidity	n/a	=	14	NTU	EPA 180.1	0.024	0.1	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	2/26/2013 8:27:00 PM	Volatile Suspended Solids	n/a	=	92	mg/L	EPA 160.4	3.1	5	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/5/2013 5:40:00 PM	Aluminum	Dissolved	=	6.9	µg/L	EPA 200.8	0.61	5	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/5/2013 5:00:00 PM	Aluminum	Total	=	2100	µg/L	EPA 200.8	2.1	5	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/5/2013 5:40:00 PM	Antimony	Dissolved	=	0.75	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/5/2013 5:00:00 PM	Antimony	Total	=	1.7	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/5/2013 5:40:00 PM	Arsenic	Dissolved	=	1.2	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/5/2013 5:00:00 PM	Arsenic	Total	=	4.1	µg/L	EPA 200.8	0.13	0.4	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/5/2013 5:40:00 PM	Beryllium	Dissolved	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/5/2013 5:00:00 PM	Beryllium	Total	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/5/2013 5:40:00 PM	Cadmium	Dissolved	DNQ	0.07	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/5/2013 5:00:00 PM	Cadmium	Total	=	0.77	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/5/2013 5:40:00 PM	Chromium	Dissolved	=	0.99	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/5/2013 5:00:00 PM	Chromium	Total	=	6.2	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/4/2013 9:56:00 AM	Chromium VI	n/a	=	0.65	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/5/2013 5:40:00 PM	Copper	Dissolved	=	6.3	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/5/2013 5:00:00 PM	Copper	Total	=	25	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	2/25/2013 2:14:00 PM	Iron	Dissolved	=	29	µg/L	EPA 200.7	1.1	10	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	2/25/2013 2:17:00 PM	Iron	Total	=	4100	µg/L	EPA 200.7	1.1	10	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/5/2013 5:40:00 PM	Lead	Dissolved	DNQ	0.02	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/5/2013 5:00:00 PM	Lead	Total	=	7.4	µg/L	EPA 200.8	0.035	0.2	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/5/2013 7:28:00 PM	Mercury	Dissolved	DNQ	11	ng/L	EPA 245.1	3.9	50	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/5/2013 7:28:00 PM	Mercury	Total	DNQ	32	ng/L	EPA 245.1	3.9	50	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/5/2013 5:40:00 PM	Nickel	Dissolved	=	3.2	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/5/2013 5:00:00 PM	Nickel	Total	=	10	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/5/2013 5:40:00 PM	Selenium	Dissolved	=	4.3	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/5/2013 5:00:00 PM	Selenium	Total	=	4.6	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/5/2013 5:40:00 PM	Silver	Dissolved	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/5/2013 5:00:00 PM	Silver	Total	DNQ	0.08	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/5/2013 5:40:00 PM	Thallium	Dissolved	<	0.009	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/5/2013 5:00:00 PM	Thallium	Total	DNQ	0.04	µg/L	EPA 200.8	0.034	0.2	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/5/2013 5:40:00 PM	Zinc	Dissolved	=	18	µg/L	EPA 200.8	1.1	5	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/5/2013 5:00:00 PM	Zinc	Total	=	120	µg/L	EPA 200.8	1.1	5	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/12/2013 6:49:00 PM	Ammonia as N	n/a	=	0.7	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	2/21/2013 8:07:00 PM	Nitrate + Nitrite as N	n/a	=	1.5	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/14/2013 4:36:00 PM	Phosphorus as P	Dissolved	=	0.21	mg/L	EPA 365.1	0.0028	0.02	WKL	D
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/14/2013 1:45:00 PM	Phosphorus as P	Total	=	0.63	mg/L	EPA 365.1	0.014	0.1	WKL	D
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/12/2013 10:37:00 PM	TKN	n/a	=	4.7	mg/L	EPA 351.2	0.15	0.2	WKL	D
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/6/2013 10:49:00 PM	1,2,4-Trichlorobenzene	n/a	<	5.5	µg/L	EPA 625	5.5	10	WKL	D
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/6/2013 10:49:00 PM	1,2-Dichlorobenzene	n/a	<	5.7	µg/L	EPA 625	5.7	10	WKL	D
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/6/2013 10:49:00 PM	1,2-Diphenylhydrazine	n/a	<	2.5	µg/L	EPA 625	2.5	10	WKL	D
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/6/2013 10:49:00 PM	1,3-Dichlorobenzene	n/a	<	5.3	µg/L	EPA 625	5.3	10	WKL	D
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/6/2013 10:49:00 PM	1,4-Dichlorobenzene	n/a	<	5.5	µg/L	EPA 625	5.5	10	WKL	D

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/21/2013 9:20:00 AM	1-Methylnaphthalene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/21/2013 12:28:00 AM	2,4,5-Trichlorophenol	n/a	<	2.9	µg/L	EPA 8270Cm	2.9	10	WKL	D
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/21/2013 12:28:00 AM	2,4,6-Trichlorophenol	n/a	<	3	µg/L	EPA 8270Cm	3	10	WKL	D
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/21/2013 12:28:00 AM	2,4-Dichlorophenol	n/a	<	5.1	µg/L	EPA 8270Cm	5.1	10	WKL	D
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/21/2013 12:28:00 AM	2,4-Dimethylphenol	n/a	<	10	µg/L	EPA 8270Cm	10	20	WKL	D
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/21/2013 12:28:00 AM	2,4-Dinitrophenol	n/a	<	10	µg/L	EPA 8270Cm	10	20	WKL	D
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/6/2013 10:49:00 PM	2,4-Dinitrotoluene	n/a	<	1.8	µg/L	EPA 625	1.8	10	WKL	D
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/6/2013 10:49:00 PM	2,6-Dinitrotoluene	n/a	<	2.7	µg/L	EPA 625	2.7	10	WKL	D
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/6/2013 10:49:00 PM	2-Chloronaphthalene	n/a	<	4.5	µg/L	EPA 625	4.5	10	WKL	D
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/21/2013 12:28:00 AM	2-Chlorophenol	n/a	<	6.5	µg/L	EPA 8270Cm	6.5	10	WKL	D
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/21/2013 9:20:00 AM	2-Methylnaphthalene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/21/2013 12:28:00 AM	2-Methylphenol	n/a	<	3.4	µg/L	EPA 8270Cm	3.4	10	WKL	D
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/21/2013 12:28:00 AM	2-Nitrophenol	n/a	<	7.1	µg/L	EPA 8270Cm	7.1	10	WKL	D
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/6/2013 10:49:00 PM	3,3'-Dichlorobenzidine	n/a	<	12	µg/L	EPA 625	12	50	WKL	D
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/21/2013 12:28:00 AM	3-/4-Methylphenol	n/a	<	3	µg/L	EPA 8270Cm	3	10	WKL	D
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/21/2013 12:28:00 AM	4,6-Dinitro-2-methylphenol	n/a	<	1.4	µg/L	EPA 8270Cm	1.4	10	WKL	D
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/6/2013 10:49:00 PM	4-Bromophenyl phenyl ether	n/a	<	3.6	µg/L	EPA 625	3.6	10	WKL	D
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/21/2013 12:28:00 AM	4-Chloro-3-methylphenol	n/a	<	3.7	µg/L	EPA 8270Cm	3.7	10	WKL	D
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/6/2013 10:49:00 PM	4-Chlorophenyl phenyl ether	n/a	<	4.1	µg/L	EPA 625	4.1	10	WKL	D
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/21/2013 12:28:00 AM	4-Nitrophenol	n/a	<	10	µg/L	EPA 8270Cm	10	20	WKL	D
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/21/2013 9:20:00 AM	Acenaphthene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/21/2013 9:20:00 AM	Acenaphthylene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/21/2013 9:20:00 AM	Anthracene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/21/2013 9:20:00 AM	Benz(a)anthracene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/6/2013 10:49:00 PM	Benzidine	n/a	<	37	µg/L	EPA 625	37	100	WKL	D
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/15/2013 3:42:00 AM	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/21/2013 9:20:00 AM	Benzo(b)fluoranthene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/21/2013 9:20:00 AM	Benzo(g,h,i)perylene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/21/2013 9:20:00 AM	Benzo(k)fluoranthene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/6/2013 10:49:00 PM	Bis(2-chloroethoxy)methane	n/a	<	2.5	µg/L	EPA 625	2.5	10	WKL	D
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/6/2013 10:49:00 PM	Bis(2-chloroethyl)ether	n/a	<	2.7	µg/L	EPA 625	2.7	10	WKL	D
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/6/2013 10:49:00 PM	Bis(2-chloroisopropyl)ether	n/a	<	3.8	µg/L	EPA 625	3.8	10	WKL	D
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/15/2013 3:42:00 AM	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/15/2013 3:42:00 AM	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/6/2013 10:49:00 PM	Butyl benzyl phthalate	n/a	<	1.8	µg/L	EPA 625	1.8	10	WKL	D
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/21/2013 9:20:00 AM	Chrysene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/21/2013 9:20:00 AM	Dibenz(a,h)anthracene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/6/2013 10:49:00 PM	Diethyl phthalate	n/a	<	1.5	µg/L	EPA 625	1.5	10	WKL	D
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/6/2013 10:49:00 PM	Dimethyl phthalate	n/a	<	1.8	µg/L	EPA 625	1.8	10	WKL	D
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/6/2013 10:49:00 PM	Di-n-butylphthalate	n/a	<	2.4	µg/L	EPA 625	2.4	10	WKL	D
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/6/2013 10:49:00 PM	Di-n-octylphthalate	n/a	<	1.9	µg/L	EPA 625	1.9	10	WKL	D
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/21/2013 9:20:00 AM	Fluoranthene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/21/2013 9:20:00 AM	Fluorene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/6/2013 10:49:00 PM	Hexachlorobenzene	n/a	<	4.9	µg/L	EPA 625	4.9	10	WKL	D
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/6/2013 10:49:00 PM	Hexachlorobutadiene	n/a	<	4.7	µg/L	EPA 625	4.7	10	WKL	D
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/6/2013 10:49:00 PM	Hexachlorocyclopentadiene	n/a	<	15	µg/L	EPA 625	15	50	WKL	D
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/6/2013 10:49:00 PM	Hexachloroethane	n/a	<	5.2	µg/L	EPA 625	5.2	10	WKL	D
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/21/2013 9:20:00 AM	Indeno(1,2,3-cd)pyrene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/6/2013 10:49:00 PM	Isophorone	n/a	<	2.1	µg/L	EPA 625	2.1	10	WKL	D
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/21/2013 9:20:00 AM	Naphthalene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/6/2013 10:49:00 PM	Nitrobenzene	n/a	<	3.6	µg/L	EPA 625	3.6	10	WKL	D
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/6/2013 10:49:00 PM	N-Nitrosodimethylamine	n/a	<	1.4	µg/L	EPA 625	1.4	10	WKL	D
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/6/2013 10:49:00 PM	N-Nitrosodi-N-propylamine	n/a	<	2.6	µg/L	EPA 625	2.6	10	WKL	D
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/6/2013 10:49:00 PM	N-Nitrosodiphenylamine	n/a	<	1.9	µg/L	EPA 625	1.9	10	WKL	D
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/21/2013 9:20:00 AM	Phenanthrene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/21/2013 12:28:00 AM	Phenol	n/a	<	3.5	µg/L	EPA 8270Cm	3.5	10	WKL	D
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/21/2013 9:20:00 AM	Pyrene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/14/2013 3:01:00 AM	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/14/2013 3:01:00 AM	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/14/2013 3:01:00 AM	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/14/2013 3:01:00 AM	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/14/2013 3:01:00 AM	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/14/2013 3:01:00 AM	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/14/2013 3:01:00 AM	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	2/26/2013 6:59:00 PM	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	2/26/2013 6:59:00 PM	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	2/26/2013 6:59:00 PM	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	2/26/2013 6:59:00 PM	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	2/26/2013 6:59:00 PM	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/14/2013 3:01:00 AM	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/14/2013 3:01:00 AM	4,4'-DDE	n/a	DNQ	0.004	µg/L	EPA 608	0.0025	0.05	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/14/2013 3:01:00 AM	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	2/26/2013 6:59:00 PM	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/15/2013 3:42:00 AM	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/14/2013 3:01:00 AM	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/14/2013 3:01:00 AM	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/14/2013 3:01:00 AM	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/15/2013 3:42:00 AM	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/13/2013 7:25:00 PM	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	EUM
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	2/26/2013 6:59:00 PM	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/14/2013 3:01:00 AM	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/13/2013 7:25:00 PM	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/15/2013 3:42:00 AM	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/15/2013 3:42:00 AM	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/15/2013 3:42:00 AM	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/14/2013 3:01:00 AM	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/15/2013 3:42:00 AM	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/13/2013 7:25:00 PM	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/13/2013 7:25:00 PM	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/15/2013 3:42:00 AM	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	2/26/2013 6:59:00 PM	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	2/26/2013 6:59:00 PM	DCPA (Dacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/14/2013 3:01:00 AM	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/13/2013 7:25:00 PM	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/13/2013 7:25:00 PM	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/13/2013 7:25:00 PM	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	2/26/2013 6:59:00 PM	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	2/26/2013 6:59:00 PM	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/13/2013 7:25:00 PM	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/14/2013 3:01:00 AM	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/13/2013 7:25:00 PM	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	2/26/2013 6:59:00 PM	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/15/2013 3:42:00 AM	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/13/2013 7:25:00 PM	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/14/2013 3:01:00 AM	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/14/2013 3:01:00 AM	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/14/2013 3:01:00 AM	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/14/2013 3:01:00 AM	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/14/2013 3:01:00 AM	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/15/2013 3:42:00 AM	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/13/2013 7:25:00 PM	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/13/2013 7:25:00 PM	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/13/2013 7:25:00 PM	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/13/2013 7:25:00 PM	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/14/2013 3:01:00 AM	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/14/2013 3:01:00 AM	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	2/25/2013 5:50:00 PM	Glyphosate	n/a	=	22	µg/L	EPA 547	1.8	5	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/14/2013 3:01:00 AM	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/14/2013 3:01:00 AM	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/13/2013 7:25:00 PM	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/13/2013 7:25:00 PM	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/14/2013 3:01:00 AM	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/13/2013 7:25:00 PM	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/15/2013 3:42:00 AM	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/15/2013 3:42:00 AM	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/13/2013 7:25:00 PM	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/15/2013 3:42:00 AM	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/13/2013 7:25:00 PM	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	IL
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	2/26/2013 6:59:00 PM	Pentachlorophenol	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.2	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/13/2013 7:25:00 PM	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	2/26/2013 6:59:00 PM	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/15/2013 3:42:00 AM	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/15/2013 3:42:00 AM	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/13/2013 7:25:00 PM	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/15/2013 3:42:00 AM	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/13/2013 7:25:00 PM	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	IL
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/15/2013 3:42:00 AM	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/15/2013 3:42:00 AM	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/13/2013 7:25:00 PM	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/14/2013 3:01:00 AM	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/13/2013 7:25:00 PM	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-SIM	2012/13-3	Wet	2/20/2013 11:10:00 AM	3/15/2013 3:42:00 AM	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 12:50:00 AM	3/8/2013 10:20:00 PM	E. Coli	n/a	=	7701	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-SIM	2012/13-4	Wet	3/8/2013 12:50:00 AM	3/12/2013 1:28:00 AM	Fecal Coliform	n/a	=	9000	MPN/100 mL	SM 9221 E	2	2	VCHCA	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SIM	2012/13-4	Wet	3/8/2013 12:50:00 AM	3/8/2013 10:20:00 PM	Total Coliform	n/a	=	307600	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	
MO-SIM	2012/13-4	Wet	3/8/2013 12:50:00 AM	3/8/2013 12:50:00 AM	Conductivity	n/a	=	306.3	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-SIM	2012/13-4	Wet	3/8/2013 12:50:00 AM	3/22/2013 1:36:00 PM	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 12:50:00 AM	3/8/2013 12:50:00 AM	DO	n/a	=	9.6	mg/L	Field Meter	-88	0.3	Field Crew	
MO-SIM	2012/13-4	Wet	3/8/2013 12:50:00 AM	3/8/2013 12:50:00 AM	DO	n/a	=	90.1	%	Field Meter	-88	0.1	Field Crew	
MO-SIM	2012/13-4	Wet	3/8/2013 12:50:00 AM	3/8/2013 12:50:00 AM	pH	n/a	=	7.6	pH Units	Field Meter	-88	0.01	Field Crew	
MO-SIM	2012/13-4	Wet	3/8/2013 12:50:00 AM	3/8/2013 12:50:00 AM	Salinity	n/a	=	200	mg/L	Field Meter	-88	100	Field Crew	
MO-SIM	2012/13-4	Wet	3/8/2013 12:50:00 AM	3/8/2013 12:50:00 AM	Specific Conductance	n/a	=	400.8	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-SIM	2012/13-4	Wet	3/8/2013 12:50:00 AM	3/8/2013 12:50:00 AM	Temperature	n/a	=	12.7	°C	Field Meter	-88	0.1	Field Crew	
MO-SIM	2012/13-4	Wet	3/8/2013 12:50:00 AM	3/14/2013 3:00:00 PM	Oil and Grease	n/a	DNQ	3	mg/L	EPA 1664A	1.3	5	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 12:50:00 AM	3/14/2013 3:00:00 PM	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 12:50:00 AM	3/11/2013 8:20:00 PM	2-Chloroethyl vinyl ether	n/a	<	0.61	µg/L	EPA 524.2	0.61	1	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 12:50:00 AM	3/11/2013 8:20:00 PM	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/19/2013 8:50:00 PM	Chloride	n/a	=	22	mg/L	EPA 300.0	0.1	0.5	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/19/2013 8:50:00 PM	Fluoride	n/a	=	0.16	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/19/2013 5:42:00 PM	Perchlorate	n/a	<	0.95	µg/L	EPA 314.0	0.95	2	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/14/2013 12:00:00 PM	Calcium	Total	=	72	mg/L	EPA 200.7	0.0156	0.1	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/14/2013 12:00:00 PM	Magnesium	Total	=	14.5	mg/L	EPA 200.7	0.0121	0.1	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/22/2013 10:05:00 AM	Alkalinity as CaCO3	n/a	=	100	mg/L	SM 2320 B	0.56	10	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/14/2013 2:00:00 PM	BOD	n/a	=	25	mg/L	SM 5210 B	0.1	2	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/20/2013 10:56:00 PM	COD	n/a	=	130	mg/L	EPA 410.4	0.73	5	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/14/2013 12:00:00 PM	Hardness as CaCO3	Total	=	239	mg/L	EPA 200.7	0.0885	0.662	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/9/2013 8:43:00 PM	MBAS	n/a	DNQ	0.16	mg/L	SM 5540 C	0.076	0.2	WKL	D
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/26/2013 12:06:00 PM	Phenolics	n/a	=	0.059	mg/L	EPA 420.4	0.0042	0.01	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/18/2013 3:18:00 PM	Specific Conductance	n/a	=	470	µmhos/cm	SM 2510 B	0.23	2	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/12/2013 9:45:00 PM	Total Dissolved Solids	n/a	=	290	mg/L	SM 2540 C	4	10	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/14/2013 2:56:00 PM	Total Organic Carbon	n/a	=	6.9	mg/L	SM 5310 C	0.036	1.2	WKL	D
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/12/2013 8:00:00 PM	Total Suspended Solids	n/a	=	710	mg/L	SM 2540 D	5	5	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/9/2013 6:55:00 PM	Turbidity	n/a	=	27	NTU	EPA 180.1	0.024	0.1	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/12/2013 8:00:00 PM	Volatile Suspended Solids	n/a	=	120	mg/L	EPA 160.4	3.1	5	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/1/2013 7:22:00 PM	Aluminum	Dissolved	=	8	µg/L	EPA 200.8	0.61	5	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/1/2013 9:32:00 PM	Aluminum	Total	=	4300	µg/L	EPA 200.8	2.1	5	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/1/2013 7:22:00 PM	Antimony	Dissolved	=	0.62	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/1/2013 9:32:00 PM	Antimony	Total	=	1.7	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/1/2013 7:22:00 PM	Arsenic	Dissolved	=	0.99	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/1/2013 9:32:00 PM	Arsenic	Total	=	4	µg/L	EPA 200.8	0.13	0.4	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/2/2013 1:29:00 PM	Beryllium	Dissolved	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/2/2013 2:20:00 PM	Beryllium	Total	=	0.15	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/1/2013 7:22:00 PM	Cadmium	Dissolved	DNQ	0.04	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/1/2013 9:32:00 PM	Cadmium	Total	=	0.8	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/1/2013 7:22:00 PM	Chromium	Dissolved	=	0.64	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/1/2013 9:32:00 PM	Chromium	Total	=	9.8	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/13/2013 3:51:00 PM	Chromium VI	n/a	=	0.49	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/1/2013 7:22:00 PM	Copper	Dissolved	=	3.7	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/1/2013 9:32:00 PM	Copper	Total	=	29	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/14/2013 11:58:00 AM	Iron	Dissolved	=	28	µg/L	EPA 200.7	1.1	10	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/14/2013 12:00:00 PM	Iron	Total	=	6700	µg/L	EPA 200.7	1.1	10	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/2/2013 1:29:00 PM	Lead	Dissolved	DNQ	0.11	µg/L	EPA 200.8	0.011	0.2	WKL	UL-MB

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/2/2013 2:20:00 PM	Lead	Total	=	18	µg/L	EPA 200.8	0.035	0.2	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/27/2013 4:49:00 PM	Mercury	Dissolved	<	3.9	ng/L	EPA 245.1	3.9	50	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/3/2013 2:38:00 PM	Mercury	Total	=	75	ng/L	EPA 245.1	3.9	50	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/1/2013 7:22:00 PM	Nickel	Dissolved	=	1.8	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/1/2013 9:32:00 PM	Nickel	Total	=	12	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/1/2013 7:22:00 PM	Selenium	Dissolved	=	2.6	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/1/2013 9:32:00 PM	Selenium	Total	=	2.8	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/1/2013 7:22:00 PM	Silver	Dissolved	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/1/2013 9:32:00 PM	Silver	Total	DNQ	0.1	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/1/2013 7:22:00 PM	Thallium	Dissolved	DNQ	0.01	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/1/2013 9:32:00 PM	Thallium	Total	DNQ	0.11	µg/L	EPA 200.8	0.034	0.2	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/1/2013 7:22:00 PM	Zinc	Dissolved	=	8.6	µg/L	EPA 200.8	1.1	5	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/1/2013 9:32:00 PM	Zinc	Total	=	150	µg/L	EPA 200.8	1.1	5	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/26/2013 2:00:00 PM	Ammonia as N	n/a	=	0.52	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/11/2013 5:33:00 PM	Nitrate + Nitrite as N	n/a	=	0.97	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/4/2013 7:47:00 PM	Phosphorus as P	Dissolved	=	0.16	mg/L	EPA 365.1	0.0014	0.01	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/15/2013 2:54:00 PM	Phosphorus as P	Total	=	0.82	mg/L	EPA 365.1	0.007	0.05	WKL	D
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/21/2013 1:21:00 PM	TKN	n/a	=	3.4	mg/L	EPA 351.2	0.074	0.1	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/19/2013 3:15:00 AM	1,2,4-Trichlorobenzene	n/a	<	5.5	µg/L	EPA 625	5.5	10	WKL	D
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/19/2013 3:15:00 AM	1,2-Dichlorobenzene	n/a	<	5.7	µg/L	EPA 625	5.7	10	WKL	D
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/19/2013 3:15:00 AM	1,2-Diphenylhydrazine	n/a	<	2.5	µg/L	EPA 625	2.5	10	WKL	D
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/19/2013 3:15:00 AM	1,3-Dichlorobenzene	n/a	<	5.3	µg/L	EPA 625	5.3	10	WKL	D
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/19/2013 3:15:00 AM	1,4-Dichlorobenzene	n/a	<	5.5	µg/L	EPA 625	5.5	10	WKL	D
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/10/2013 12:21:00 AM	1-Methylnaphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/11/2013 6:08:00 AM	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/11/2013 6:08:00 AM	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/11/2013 6:08:00 AM	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/11/2013 6:08:00 AM	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/11/2013 6:08:00 AM	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/19/2013 3:15:00 AM	2,4-Dinitrotoluene	n/a	<	1.8	µg/L	EPA 625	1.8	10	WKL	D
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/19/2013 3:15:00 AM	2,6-Dinitrotoluene	n/a	<	2.7	µg/L	EPA 625	2.7	10	WKL	D
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/19/2013 3:15:00 AM	2-Chloronaphthalene	n/a	<	4.5	µg/L	EPA 625	4.5	10	WKL	D
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/11/2013 6:08:00 AM	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/10/2013 12:21:00 AM	2-Methylnaphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/11/2013 6:08:00 AM	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/11/2013 6:08:00 AM	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/19/2013 3:15:00 AM	3,3'-Dichlorobenzidine	n/a	<	12	µg/L	EPA 625	12	50	WKL	D
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/11/2013 6:08:00 AM	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/11/2013 6:08:00 AM	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/19/2013 3:15:00 AM	4-Bromophenyl phenyl ether	n/a	<	3.6	µg/L	EPA 625	3.6	10	WKL	D
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/11/2013 6:08:00 AM	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/19/2013 3:15:00 AM	4-Chlorophenyl phenyl ether	n/a	<	4.1	µg/L	EPA 625	4.1	10	WKL	D
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/11/2013 6:08:00 AM	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/10/2013 12:21:00 AM	Acenaphthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/10/2013 12:21:00 AM	Acenaphthylene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/10/2013 12:21:00 AM	Anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/10/2013 12:21:00 AM	Benz(a)anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/19/2013 3:15:00 AM	Benzidine	n/a	<	37	µg/L	EPA 625	37	100	WKL	D

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/26/2013 9:14:00 PM	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/10/2013 12:21:00 AM	Benzo(b)fluoranthene	n/a	=	0.12	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/10/2013 12:21:00 AM	Benzo(g,h,i)perylene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/10/2013 12:21:00 AM	Benzo(k)fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/19/2013 3:15:00 AM	Bis(2-chloroethoxy)methane	n/a	<	2.5	µg/L	EPA 625	2.5	10	WKL	D
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/19/2013 3:15:00 AM	Bis(2-chloroethyl)ether	n/a	<	2.7	µg/L	EPA 625	2.7	10	WKL	D
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/19/2013 3:15:00 AM	Bis(2-chloroisopropyl)ether	n/a	<	3.8	µg/L	EPA 625	3.8	10	WKL	D
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/26/2013 9:14:00 PM	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/26/2013 9:14:00 PM	Bis(2-ethylhexyl)phthalate	n/a	DNQ	1.2	µg/L	EPA 525.2	1.1	3	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/19/2013 3:15:00 AM	Butyl benzyl phthalate	n/a	<	1.8	µg/L	EPA 625	1.8	10	WKL	D
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/10/2013 12:21:00 AM	Chrysene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/10/2013 12:21:00 AM	Dibenz(a,h)anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/19/2013 3:15:00 AM	Diethyl phthalate	n/a	DNQ	2.7	µg/L	EPA 625	1.5	10	WKL	D
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/19/2013 3:15:00 AM	Dimethyl phthalate	n/a	<	1.8	µg/L	EPA 625	1.8	10	WKL	D
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/19/2013 3:15:00 AM	Di-n-butylphthalate	n/a	<	2.4	µg/L	EPA 625	2.4	10	WKL	D
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/19/2013 3:15:00 AM	Di-n-octylphthalate	n/a	<	1.9	µg/L	EPA 625	1.9	10	WKL	D
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/10/2013 12:21:00 AM	Fluoranthene	n/a	=	0.11	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/10/2013 12:21:00 AM	Fluorene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/19/2013 3:15:00 AM	Hexachlorobenzene	n/a	<	4.9	µg/L	EPA 625	4.9	10	WKL	D
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/19/2013 3:15:00 AM	Hexachlorobutadiene	n/a	<	4.7	µg/L	EPA 625	4.7	10	WKL	D
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/19/2013 3:15:00 AM	Hexachlorocyclopentadiene	n/a	<	15	µg/L	EPA 625	15	50	WKL	D
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/19/2013 3:15:00 AM	Hexachloroethane	n/a	<	5.2	µg/L	EPA 625	5.2	10	WKL	D
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/10/2013 12:21:00 AM	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/19/2013 3:15:00 AM	Isophorone	n/a	<	2.1	µg/L	EPA 625	2.1	10	WKL	D
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/10/2013 12:21:00 AM	Naphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/19/2013 3:15:00 AM	Nitrobenzene	n/a	<	3.6	µg/L	EPA 625	3.6	10	WKL	D
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/19/2013 3:15:00 AM	N-Nitrosodimethylamine	n/a	<	1.4	µg/L	EPA 625	1.4	10	WKL	D
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/19/2013 3:15:00 AM	N-Nitrosodi-N-propylamine	n/a	<	2.6	µg/L	EPA 625	2.6	10	WKL	D
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/19/2013 3:15:00 AM	N-Nitrosodiphenylamine	n/a	<	1.9	µg/L	EPA 625	1.9	10	WKL	D
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/10/2013 12:21:00 AM	Phenanthrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/11/2013 6:08:00 AM	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	4/10/2013 12:21:00 AM	Pyrene	n/a	=	0.11	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/24/2013 11:22:00 AM	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/24/2013 11:22:00 AM	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/24/2013 11:22:00 AM	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/24/2013 11:22:00 AM	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/24/2013 11:22:00 AM	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/24/2013 11:22:00 AM	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/24/2013 11:22:00 AM	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/21/2013 11:52:00 PM	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/21/2013 11:52:00 PM	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/21/2013 11:52:00 PM	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/21/2013 11:52:00 PM	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/21/2013 11:52:00 PM	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/24/2013 11:22:00 AM	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/24/2013 11:22:00 AM	4,4'-DDE	n/a	DNQ	0.012	µg/L	EPA 608	0.0025	0.05	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/24/2013 11:22:00 AM	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/21/2013 11:52:00 PM	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/26/2013 9:14:00 PM	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/24/2013 11:22:00 AM	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/24/2013 11:22:00 AM	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/24/2013 11:22:00 AM	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/26/2013 9:14:00 PM	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/22/2013 10:19:00 PM	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	LB-LCSR
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/21/2013 11:52:00 PM	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/24/2013 11:22:00 AM	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/22/2013 10:19:00 PM	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/26/2013 9:14:00 PM	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/26/2013 9:14:00 PM	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/26/2013 9:14:00 PM	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/24/2013 11:22:00 AM	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/26/2013 9:14:00 PM	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/22/2013 10:19:00 PM	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/22/2013 10:19:00 PM	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/26/2013 9:14:00 PM	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/21/2013 11:52:00 PM	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/21/2013 11:52:00 PM	DCPA (Dacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/24/2013 11:22:00 AM	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/22/2013 10:19:00 PM	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/22/2013 10:19:00 PM	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/22/2013 10:19:00 PM	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/21/2013 11:52:00 PM	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/21/2013 11:52:00 PM	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/22/2013 10:19:00 PM	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/24/2013 11:22:00 AM	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/22/2013 10:19:00 PM	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/21/2013 11:52:00 PM	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/26/2013 9:14:00 PM	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/22/2013 10:19:00 PM	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/24/2013 11:22:00 AM	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/24/2013 11:22:00 AM	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/24/2013 11:22:00 AM	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/24/2013 11:22:00 AM	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/24/2013 11:22:00 AM	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/26/2013 9:14:00 PM	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/22/2013 10:19:00 PM	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/22/2013 10:19:00 PM	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/22/2013 10:19:00 PM	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/22/2013 10:19:00 PM	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/24/2013 11:22:00 AM	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/24/2013 11:22:00 AM	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/12/2013 4:53:00 PM	Glyphosate	n/a	=	13	µg/L	EPA 547	1.8	5	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/24/2013 11:22:00 AM	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/24/2013 11:22:00 AM	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/22/2013 10:19:00 PM	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/22/2013 10:19:00 PM	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/24/2013 11:22:00 AM	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/22/2013 10:19:00 PM	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/26/2013 9:14:00 PM	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/26/2013 9:14:00 PM	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/22/2013 10:19:00 PM	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/26/2013 9:14:00 PM	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/22/2013 10:19:00 PM	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/21/2013 11:52:00 PM	Pentachlorophenol	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.2	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/22/2013 10:19:00 PM	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/21/2013 11:52:00 PM	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/26/2013 9:14:00 PM	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/26/2013 9:14:00 PM	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/22/2013 10:19:00 PM	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/26/2013 9:14:00 PM	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/22/2013 10:19:00 PM	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	LB-LCSR
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/26/2013 9:14:00 PM	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/26/2013 9:14:00 PM	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/22/2013 10:19:00 PM	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/24/2013 11:22:00 AM	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/22/2013 10:19:00 PM	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-SIM	2012/13-4	Wet	3/8/2013 10:26:00 AM	3/26/2013 9:14:00 PM	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/4/2013 11:51:00 PM	Chloride	n/a	=	170	mg/L	EPA 300.0	1	5	WKL	D
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/4/2013 11:51:00 PM	Fluoride	n/a	=	0.52	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/5/2013 5:06:00 PM	Perchlorate	n/a	=	4	µg/L	EPA 314.0	1.9	4	WKL	D
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	5/24/2013 8:30:00 AM	E. Coli	n/a	=	789	MPN/100 mL	MMO-MUG	10	10	VCHCA	D
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	5/27/2013 11:28:00 AM	Fecal Coliform	n/a	=	900	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	5/24/2013 8:30:00 AM	Total Coliform	n/a	=	165800	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	D
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/19/2013 3:59:00 PM	Calcium	Total	=	286	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/19/2013 3:59:00 PM	Magnesium	Total	=	96.6	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/4/2013 1:05:00 PM	Alkalinity as CaCO3	n/a	=	250	mg/L	SM 2320 B	0.56	2	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	5/28/2013 5:35:00 PM	BOD	n/a	DNQ	1.1	mg/L	SM 5210 B	0.1	2	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	5/31/2013 2:44:00 PM	COD	n/a	DNQ	3.7	mg/L	EPA 410.4	0.73	5	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	5/23/2013 9:00:00 AM	Conductivity	n/a	=	2414	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/12/2013 11:24:00 AM	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	5/23/2013 9:00:00 AM	DO	n/a	=	106.7	%	Field Meter	-88	0.1	Field Crew	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	5/23/2013 9:00:00 AM	DO	n/a	=	9.86	mg/L	Field Meter	-88	0.3	Field Crew	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/19/2013 3:59:00 PM	Hardness as CaCO3	Total	=	1110	mg/L	EPA 200.7	0.0894	0.662	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	5/24/2013 11:27:00 AM	MBAS	n/a	DNQ	0.03	mg/L	SM 5540 C	0.019	0.05	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	5/23/2013 9:00:00 AM	pH	n/a	=	8.01	pH Units	Field Meter	-88	0.01	Field Crew	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/10/2013 4:41:00 PM	Phenolics	n/a	=	0.013	mg/L	EPA 420.4	0.0042	0.01	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	5/23/2013 9:00:00 AM	Salinity	n/a	=	1400	mg/L	Field Meter	-88	100	Field Crew	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	5/29/2013 10:15:00 AM	Specific Conductance	n/a	=	2800	µmhos/cm	SM 2510 B	0.47	4	WKL	D
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	5/23/2013 9:00:00 AM	Specific Conductance	n/a	=	2747	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	5/23/2013 9:00:00 AM	Temperature	n/a	=	18.6	°C	Field Meter	-88	0.1	Field Crew	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	5/28/2013 6:05:00 PM	Total Dissolved Solids	n/a	=	2200	mg/L	SM 2540 C	4	10	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/5/2013 12:37:00 PM	Total Organic Carbon	n/a	=	1.8	mg/L	SM 5310 C	0.009	0.3	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	5/28/2013 1:25:00 PM	Total Suspended Solids	n/a	=	7	mg/L	SM 2540 D	5	5	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	5/24/2013 5:47:00 PM	Turbidity	n/a	=	0.54	NTU	EPA 180.1	0.024	0.1	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	5/28/2013 1:25:00 PM	Volatile Suspended Solids	n/a	<	3.1	mg/L	EPA 160.4	3.1	5	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	5/31/2013 6:36:00 PM	Oil and Grease	n/a	<	1.3	mg/L	EPA 1664A	1.3	5	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	5/31/2013 6:36:00 PM	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/15/2013 4:01:00 AM	Aluminum	Dissolved	<	2.1	µg/L	EPA 200.8	2.1	5	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/15/2013 4:09:00 AM	Aluminum	Total	=	5.1	µg/L	EPA 200.8	2.1	5	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/15/2013 4:01:00 AM	Antimony	Dissolved	DNQ	0.12	µg/L	EPA 200.8	0.034	0.5	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/15/2013 4:09:00 AM	Antimony	Total	DNQ	0.13	µg/L	EPA 200.8	0.034	0.5	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/15/2013 4:01:00 AM	Arsenic	Dissolved	=	1.1	µg/L	EPA 200.8	0.13	0.4	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/15/2013 4:09:00 AM	Arsenic	Total	=	1.2	µg/L	EPA 200.8	0.13	0.4	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/15/2013 4:01:00 AM	Beryllium	Dissolved	<	0.015	µg/L	EPA 200.8	0.015	0.1	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/15/2013 4:09:00 AM	Beryllium	Total	<	0.015	µg/L	EPA 200.8	0.015	0.1	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/15/2013 4:01:00 AM	Cadmium	Dissolved	=	0.12	µg/L	EPA 200.8	0.017	0.1	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/15/2013 4:09:00 AM	Cadmium	Total	=	0.12	µg/L	EPA 200.8	0.017	0.1	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/15/2013 4:01:00 AM	Chromium	Dissolved	=	1.6	µg/L	EPA 200.8	0.024	0.2	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/15/2013 4:09:00 AM	Chromium	Total	=	1.7	µg/L	EPA 200.8	0.024	0.2	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	5/29/2013	Chromium VI	n/a	=	1.5	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/15/2013 4:01:00 AM	Copper	Dissolved	DNQ	0.48	µg/L	EPA 200.8	0.036	0.5	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/15/2013 4:09:00 AM	Copper	Total	=	0.5	µg/L	EPA 200.8	0.036	0.5	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/19/2013 3:57:00 PM	Iron	Dissolved	DNQ	6.1	µg/L	EPA 200.7	1.1	10	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/19/2013 3:59:00 PM	Iron	Total	=	31	µg/L	EPA 200.7	1.1	10	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/15/2013 4:01:00 AM	Lead	Dissolved	<	0.024	µg/L	EPA 200.8	0.024	0.2	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/15/2013 4:09:00 AM	Lead	Total	<	0.024	µg/L	EPA 200.8	0.024	0.2	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/6/2013 5:53:00 PM	Mercury	Dissolved	<	3.9	ng/L	EPA 245.1	3.9	50	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/6/2013 5:53:00 PM	Mercury	Total	<	3.9	ng/L	EPA 245.1	3.9	50	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/15/2013 4:01:00 AM	Nickel	Dissolved	=	0.95	µg/L	EPA 200.8	0.091	0.8	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/15/2013 4:09:00 AM	Nickel	Total	=	0.95	µg/L	EPA 200.8	0.091	0.8	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/15/2013 4:01:00 AM	Selenium	Dissolved	=	40	µg/L	EPA 200.8	0.081	0.4	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/15/2013 4:09:00 AM	Selenium	Total	=	41	µg/L	EPA 200.8	0.081	0.4	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/15/2013 4:01:00 AM	Silver	Dissolved	<	0.012	µg/L	EPA 200.8	0.012	0.2	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/15/2013 4:09:00 AM	Silver	Total	<	0.012	µg/L	EPA 200.8	0.012	0.2	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/15/2013 4:01:00 AM	Thallium	Dissolved	<	0.034	µg/L	EPA 200.8	0.034	0.2	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/15/2013 4:09:00 AM	Thallium	Total	<	0.034	µg/L	EPA 200.8	0.034	0.2	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/15/2013 4:01:00 AM	Zinc	Dissolved	DNQ	2	µg/L	EPA 200.8	0.5	5	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/15/2013 4:09:00 AM	Zinc	Total	DNQ	1	µg/L	EPA 200.8	0.5	5	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/10/2013 6:08:00 PM	Ammonia as N	n/a	=	0.1	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	5/24/2013 10:04:00 PM	Nitrate + Nitrite as N	n/a	=	10	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/12/2013 9:13:00 PM	Phosphorus as P	Dissolved	DNQ	0.0066	mg/L	EPA 365.1	0.0014	0.01	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/12/2013 8:32:00 PM	Phosphorus as P	Total	=	0.013	mg/L	EPA 365.1	0.0014	0.01	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/11/2013 2:47:00 PM	TKN	n/a	<	0.05	mg/L	EPA 351.2	0.05	0.1	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/12/2013 6:48:00 PM	1,2,4-Trichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/12/2013 6:48:00 PM	1,2-Dichlorobenzene	n/a	<	0.57	µg/L	EPA 625	0.57	1	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/12/2013 6:48:00 PM	1,2-Diphenylhydrazine	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/12/2013 6:48:00 PM	1,3-Dichlorobenzene	n/a	<	0.53	µg/L	EPA 625	0.53	1	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/12/2013 6:48:00 PM	1,4-Dichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/18/2013 8:15:00 AM	1-Methylnaphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/16/2013 5:51:00 AM	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/16/2013 5:51:00 AM	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	LB-LCSR
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/16/2013 5:51:00 AM	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	LB-LCSR

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/16/2013 5:51:00 AM	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/16/2013 5:51:00 AM	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/12/2013 6:48:00 PM	2,4-Dinitrotoluene	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/12/2013 6:48:00 PM	2,6-Dinitrotoluene	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/12/2013 6:48:00 PM	2-Chloronaphthalene	n/a	<	0.45	µg/L	EPA 625	0.45	1	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/16/2013 5:51:00 AM	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	LB-LCSR
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/18/2013 8:15:00 AM	2-Methylnaphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/16/2013 5:51:00 AM	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/16/2013 5:51:00 AM	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/12/2013 6:48:00 PM	3,3'-Dichlorobenzidine	n/a	<	1.2	µg/L	EPA 625	1.2	5	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/16/2013 5:51:00 AM	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/16/2013 5:51:00 AM	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	LB-LCSR
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/12/2013 6:48:00 PM	4-Bromophenyl phenyl ether	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/16/2013 5:51:00 AM	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	LB-LCSR
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/12/2013 6:48:00 PM	4-Chlorophenyl phenyl ether	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/16/2013 5:51:00 AM	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/18/2013 8:15:00 AM	Acenaphthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/18/2013 8:15:00 AM	Acenaphthylene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/18/2013 8:15:00 AM	Anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/18/2013 8:15:00 AM	Benz(a)anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/12/2013 6:48:00 PM	Benzidine	n/a	<	3.7	µg/L	EPA 625	3.7	10	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/11/2013 8:11:00 PM	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/18/2013 8:15:00 AM	Benzo(b)fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/18/2013 8:15:00 AM	Benzo(g,h,i)perylene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/18/2013 8:15:00 AM	Benzo(k)fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/12/2013 6:48:00 PM	Bis(2-chloroethoxy)methane	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/12/2013 6:48:00 PM	Bis(2-chloroethyl)ether	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/12/2013 6:48:00 PM	Bis(2-chloroisopropyl)ether	n/a	<	0.38	µg/L	EPA 625	0.38	1	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/11/2013 8:11:00 PM	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/11/2013 8:11:00 PM	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/12/2013 6:48:00 PM	Butyl benzyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/18/2013 8:15:00 AM	Chrysene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/18/2013 8:15:00 AM	Dibenz(a,h)anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/12/2013 6:48:00 PM	Diethyl phthalate	n/a	=	2.9	µg/L	EPA 625	0.15	1	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/12/2013 6:48:00 PM	Dimethyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/12/2013 6:48:00 PM	Di-n-butylphthalate	n/a	<	0.24	µg/L	EPA 625	0.24	1	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/12/2013 6:48:00 PM	Di-n-octylphthalate	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/18/2013 8:15:00 AM	Fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/18/2013 8:15:00 AM	Fluorene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/12/2013 6:48:00 PM	Hexachlorobenzene	n/a	<	0.49	µg/L	EPA 625	0.49	1	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/12/2013 6:48:00 PM	Hexachlorobutadiene	n/a	<	0.47	µg/L	EPA 625	0.47	1	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/12/2013 6:48:00 PM	Hexachlorocyclopentadiene	n/a	<	1.5	µg/L	EPA 625	1.5	5	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/12/2013 6:48:00 PM	Hexachloroethane	n/a	<	0.52	µg/L	EPA 625	0.52	1	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/18/2013 8:15:00 AM	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/12/2013 6:48:00 PM	Isophorone	n/a	<	0.21	µg/L	EPA 625	0.21	1	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	5/25/2013 2:00:00 AM	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/18/2013 8:15:00 AM	Naphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/12/2013 6:48:00 PM	Nitrobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/12/2013 6:48:00 PM	N-Nitrosodimethylamine	n/a	<	0.14	µg/L	EPA 625	0.14	1	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/12/2013 6:48:00 PM	N-Nitrosodi-N-propylamine	n/a	<	0.26	µg/L	EPA 625	0.26	1	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/12/2013 6:48:00 PM	N-Nitrosodiphenylamine	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/18/2013 8:15:00 AM	Phenanthrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/16/2013 5:51:00 AM	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/18/2013 8:15:00 AM	Pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/16/2013 3:15:00 AM	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/16/2013 3:15:00 AM	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/16/2013 3:15:00 AM	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/16/2013 3:15:00 AM	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/16/2013 3:15:00 AM	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/16/2013 3:15:00 AM	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/16/2013 3:15:00 AM	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/7/2013 1:21:00 AM	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/7/2013 1:21:00 AM	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/7/2013 1:21:00 AM	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/7/2013 1:21:00 AM	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/7/2013 1:21:00 AM	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/16/2013 3:15:00 AM	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/16/2013 3:15:00 AM	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/16/2013 3:15:00 AM	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/7/2013 1:21:00 AM	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/11/2013 8:11:00 PM	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/16/2013 3:15:00 AM	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/16/2013 3:15:00 AM	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/16/2013 3:15:00 AM	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/11/2013 8:11:00 PM	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/13/2013 5:21:00 PM	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/7/2013 1:21:00 AM	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/16/2013 3:15:00 AM	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/13/2013 5:21:00 PM	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/11/2013 8:11:00 PM	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/11/2013 8:11:00 PM	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/11/2013 8:11:00 PM	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/16/2013 3:15:00 AM	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/11/2013 8:11:00 PM	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/13/2013 5:21:00 PM	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/13/2013 5:21:00 PM	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/11/2013 8:11:00 PM	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/7/2013 1:21:00 AM	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/7/2013 1:21:00 AM	DCPA (Dacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/16/2013 3:15:00 AM	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/13/2013 5:21:00 PM	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/13/2013 5:21:00 PM	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/13/2013 5:21:00 PM	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/7/2013 1:21:00 AM	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/7/2013 1:21:00 AM	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/13/2013 5:21:00 PM	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/16/2013 3:15:00 AM	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/13/2013 5:21:00 PM	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/7/2013 1:21:00 AM	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/11/2013 8:11:00 PM	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/13/2013 5:21:00 PM	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/16/2013 3:15:00 AM	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/16/2013 3:15:00 AM	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/16/2013 3:15:00 AM	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/16/2013 3:15:00 AM	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/16/2013 3:15:00 AM	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/11/2013 8:11:00 PM	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/13/2013 5:21:00 PM	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/13/2013 5:21:00 PM	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/13/2013 5:21:00 PM	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/13/2013 5:21:00 PM	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/16/2013 3:15:00 AM	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/16/2013 3:15:00 AM	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	5/31/2013 2:44:00 PM	Glyphosate	n/a	<	1.8	µg/L	EPA 547	1.8	5	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/16/2013 3:15:00 AM	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/16/2013 3:15:00 AM	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/13/2013 5:21:00 PM	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/13/2013 5:21:00 PM	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/16/2013 3:15:00 AM	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/13/2013 5:21:00 PM	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/11/2013 8:11:00 PM	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/11/2013 8:11:00 PM	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/13/2013 5:21:00 PM	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/11/2013 8:11:00 PM	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/13/2013 5:21:00 PM	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/7/2013 1:21:00 AM	Pentachlorophenol	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.2	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/13/2013 5:21:00 PM	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/7/2013 1:21:00 AM	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/11/2013 8:11:00 PM	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/11/2013 8:11:00 PM	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/13/2013 5:21:00 PM	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/11/2013 8:11:00 PM	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/13/2013 5:21:00 PM	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/11/2013 8:11:00 PM	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/11/2013 8:11:00 PM	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/13/2013 5:21:00 PM	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/16/2013 3:15:00 AM	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/13/2013 5:21:00 PM	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-SIM	2012/13-5	Dry	5/23/2013 9:00:00 AM	6/11/2013 8:11:00 PM	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-SIM	2013-DRY	Dry	8/13/2013 10:30:00 AM	8/14/2013 9:00:00 AM	E. Coli	n/a	=	31	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-SIM	2013-DRY	Dry	8/13/2013 10:30:00 AM	8/14/2013 9:00:00 AM	Total Coliform	n/a	>	24196	MPN/100 mL	MMO-MUG	10	10	VCHCA	UL-CE
MO-SIM	2013-DRY	Dry	8/13/2013 10:30:00 AM	8/22/2013 12:14:00 PM	Calcium	Total	=	298	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-SIM	2013-DRY	Dry	8/13/2013 10:30:00 AM	8/22/2013 12:14:00 PM	Magnesium	Total	=	104	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-SIM	2013-DRY	Dry	8/13/2013 10:30:00 AM	8/13/2013 10:30:00 AM	Conductivity	n/a	=	2519	µmhos/cm	Field Meter	-88	1	Field Crew	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SIM	2013-DRY	Dry	8/13/2013 10:30:00 AM	8/13/2013 10:30:00 AM	Discharge	n/a	=	0.6	cfs	Field Estimate	-88	-88	Field Crew	
MO-SIM	2013-DRY	Dry	8/13/2013 10:30:00 AM	8/13/2013 10:30:00 AM	DO	n/a	=	161.7	%	Field Meter	-88	0.1	Field Crew	
MO-SIM	2013-DRY	Dry	8/13/2013 10:30:00 AM	8/13/2013 10:30:00 AM	DO	n/a	=	14.15	mg/L	Field Meter	-88	0.3	Field Crew	
MO-SIM	2013-DRY	Dry	8/13/2013 10:30:00 AM	8/22/2013 12:14:00 PM	Hardness as CaCO3	Total	=	1170	mg/L	EPA 200.7	0.0894	0.662	WKL	
MO-SIM	2013-DRY	Dry	8/13/2013 10:30:00 AM	8/13/2013 10:30:00 AM	pH	n/a	=	7.98	pH Units	Field Meter	-88	0.01	Field Crew	
MO-SIM	2013-DRY	Dry	8/13/2013 10:30:00 AM	8/13/2013 10:30:00 AM	Salinity	n/a	=	1400	mg/L	Field Meter	-88	100	Field Crew	
MO-SIM	2013-DRY	Dry	8/13/2013 10:30:00 AM	8/13/2013 10:30:00 AM	Specific Conductance	n/a	=	2697	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-SIM	2013-DRY	Dry	8/13/2013 10:30:00 AM	8/13/2013 10:30:00 AM	Temperature	n/a	=	21.6	°C	Field Meter	-88	0.1	Field Crew	
MO-SIM	2013-DRY	Dry	8/13/2013 10:30:00 AM	8/19/2013 7:05:00 PM	Total Organic Carbon	n/a	=	2.5	mg/L	SM 5310 C	0.009	0.3	WKL	
MO-SIM	2013-DRY	Dry	8/13/2013 10:30:00 AM	8/13/2013 10:30:00 AM	Turbidity	n/a	=	7.98	NTU	Field Meter	-88	0.01	Field Crew	
MO-SIM	2013-DRY	Dry	8/13/2013 10:30:00 AM	8/24/2013 12:01:00 AM	Copper	Dissolved	=	0.5	µg/L	EPA 200.8	0.036	0.5	WKL	
MO-SIM	2013-DRY	Dry	8/13/2013 10:30:00 AM	8/24/2013 12:01:00 AM	Lead	Dissolved	<	0.024	µg/L	EPA 200.8	0.024	0.2	WKL	
MO-SIM	2013-DRY	Dry	8/13/2013 10:30:00 AM	8/24/2013 12:01:00 AM	Zinc	Dissolved	DNQ	2.6	µg/L	EPA 200.8	0.5	5	WKL	
MO-SPA	2012/13-2	Wet	11/17/2012 8:35:00 AM	11/18/2012 9:10:00 AM	E. Coli	n/a	=	24192	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-SPA	2012/13-2	Wet	11/17/2012 8:35:00 AM	11/19/2012 2:45:00 PM	Fecal Coliform	n/a	=	30000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-SPA	2012/13-2	Wet	11/17/2012 8:35:00 AM	11/18/2012 9:10:00 AM	Total Coliform	n/a	=	1203300	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	
MO-SPA	2012/13-2	Wet	11/17/2012 8:35:00 AM	11/17/2012 8:35:00 AM	Conductivity	n/a	=	151.8	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-SPA	2012/13-2	Wet	11/17/2012 8:35:00 AM	12/7/2012 2:01:00 PM	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-SPA	2012/13-2	Wet	11/17/2012 8:35:00 AM	11/17/2012 8:35:00 AM	DO	n/a	=	9.98	mg/L	Field Meter	-88	0.3	Field Crew	
MO-SPA	2012/13-2	Wet	11/17/2012 8:35:00 AM	11/17/2012 8:35:00 AM	DO	n/a	=	99.5	%	Field Meter	-88	0.1	Field Crew	
MO-SPA	2012/13-2	Wet	11/17/2012 8:35:00 AM	11/17/2012 8:35:00 AM	pH	n/a	=	7.42	pH Units	Field Meter	-88	0.01	Field Crew	
MO-SPA	2012/13-2	Wet	11/17/2012 8:35:00 AM	11/17/2012 8:35:00 AM	Salinity	n/a	=	100	mg/L	Field Meter	-88	100	Field Crew	
MO-SPA	2012/13-2	Wet	11/17/2012 8:35:00 AM	11/17/2012 8:35:00 AM	Specific Conductance	n/a	=	186.7	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-SPA	2012/13-2	Wet	11/17/2012 8:35:00 AM	11/17/2012 8:35:00 AM	Temperature	n/a	=	15.2	°C	Field Meter	-88	0.1	Field Crew	
MO-SPA	2012/13-2	Wet	11/17/2012 8:35:00 AM	11/30/2012 3:45:00 PM	Oil and Grease	n/a	DNQ	1.6	mg/L	EPA 1664A	1.3	5	WKL	
MO-SPA	2012/13-2	Wet	11/17/2012 8:35:00 AM	11/30/2012 3:45:00 PM	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-SPA	2012/13-2	Wet	11/17/2012 8:35:00 AM	11/27/2012 9:00:00 PM	2-Chloroethyl vinyl ether	n/a	<	0.61	µg/L	EPA 524.2	0.61	1	WKL	
MO-SPA	2012/13-2	Wet	11/17/2012 8:35:00 AM	11/27/2012 9:00:00 PM	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/28/2012 12:29:00 PM	Chloride	n/a	=	21	mg/L	EPA 300.0	0.1	0.5	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/28/2012 12:29:00 PM	Fluoride	n/a	=	0.24	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/27/2012 6:30:00 PM	Perchlorate	n/a	<	1.9	µg/L	EPA 314.0	1.9	4	WKL	D, DF
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/28/2012 12:22:00 PM	Calcium	Total	=	58.7	mg/L	EPA 200.7	0.0156	0.1	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/28/2012 12:22:00 PM	Magnesium	Total	=	17.5	mg/L	EPA 200.7	0.0121	0.1	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/30/2012 4:45:00 PM	Alkalinity as CaCO3	n/a	=	79	mg/L	SM 2320 B	0.56	2	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/24/2012 12:30:00 PM	BOD	n/a	=	21	mg/L	SM 5210 B	0.1	2	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/27/2012 9:06:00 AM	COD	n/a	=	300	mg/L	EPA 410.4	0.73	5	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/28/2012 12:22:00 PM	Hardness as CaCO3	Total	=	218	mg/L	EPA 200.7	0.0885	0.662	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/19/2012 9:46:00 PM	MBAS	n/a	=	0.58	mg/L	SM 5540 C	0.038	0.1	WKL	D
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/30/2012 2:56:00 PM	Phenolics	n/a	=	0.026	mg/L	EPA 420.4	0.0042	0.01	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/30/2012 11:00:00 AM	Specific Conductance	n/a	=	560	µmhos/cm	SM 2510 B	0.23	2	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/21/2012 11:58:00 AM	Total Dissolved Solids	n/a	=	400	mg/L	SM 2540 C	4	10	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/26/2012 10:48:00 AM	Total Organic Carbon	n/a	=	43	mg/L	SM 5310 C	0.18	6	WKL	D
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/20/2012 7:20:00 PM	Total Suspended Solids	n/a	=	110	mg/L	SM 2540 D	5	5	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/19/2012 10:13:00 PM	Turbidity	n/a	=	56	NTU	EPA 180.1	0.024	0.1	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/20/2012 7:20:00 PM	Volatile Suspended Solids	n/a	=	27	mg/L	EPA 160.4	3.1	5	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	12/3/2012 5:59:00 PM	Aluminum	Dissolved	=	19	µg/L	EPA 200.8	0.61	5	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	12/3/2012 6:07:00 PM	Aluminum	Total	=	5500	µg/L	EPA 200.8	0.61	5	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	12/3/2012 5:59:00 PM	Antimony	Dissolved	=	1	µg/L	EPA 200.8	0.04	0.5	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	12/3/2012 6:07:00 PM	Antimony	Total	=	2.7	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	12/3/2012 5:59:00 PM	Arsenic	Dissolved	=	1.2	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	12/3/2012 6:07:00 PM	Arsenic	Total	=	3.5	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	12/3/2012 5:59:00 PM	Beryllium	Dissolved	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	12/3/2012 6:07:00 PM	Beryllium	Total	=	0.25	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	12/3/2012 5:59:00 PM	Cadmium	Dissolved	DNQ	0.05	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	12/3/2012 6:07:00 PM	Cadmium	Total	=	1.5	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	12/3/2012 5:59:00 PM	Chromium	Dissolved	=	1.1	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	12/3/2012 6:07:00 PM	Chromium	Total	=	14	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	12/3/2012 7:33:00 PM	Chromium VI	n/a	=	0.77	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	12/3/2012 5:59:00 PM	Copper	Dissolved	=	8	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	12/3/2012 6:07:00 PM	Copper	Total	=	77	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/28/2012 12:20:00 PM	Iron	Dissolved	=	700	µg/L	EPA 200.7	1.1	10	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/28/2012 12:22:00 PM	Iron	Total	=	10000	µg/L	EPA 200.7	1.1	10	WKL	GB
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	12/3/2012 5:59:00 PM	Lead	Dissolved	=	0.78	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	12/3/2012 6:07:00 PM	Lead	Total	=	54	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	12/14/2012 5:41:00 PM	Mercury	Dissolved	DNQ	18	ng/L	EPA 245.1	3.9	50	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	12/14/2012 5:41:00 PM	Mercury	Total	=	91	ng/L	EPA 245.1	3.9	50	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	12/3/2012 5:59:00 PM	Nickel	Dissolved	=	8	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	12/3/2012 6:07:00 PM	Nickel	Total	=	23	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	12/3/2012 5:59:00 PM	Selenium	Dissolved	=	0.67	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	12/3/2012 6:07:00 PM	Selenium	Total	=	1.4	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	12/3/2012 5:59:00 PM	Silver	Dissolved	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	12/3/2012 6:07:00 PM	Silver	Total	=	0.26	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	12/3/2012 5:59:00 PM	Thallium	Dissolved	<	0.009	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	12/3/2012 6:07:00 PM	Thallium	Total	DNQ	0.15	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	12/3/2012 5:59:00 PM	Zinc	Dissolved	=	28	µg/L	EPA 200.8	1.1	5	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	12/3/2012 6:07:00 PM	Zinc	Total	=	520	µg/L	EPA 200.8	1.1	5	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	12/5/2012 5:42:00 PM	Ammonia as N	n/a	=	1.9	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/19/2012 7:02:00 PM	Nitrate + Nitrite as N	n/a	=	2.3	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	12/14/2012 12:39:00 PM	Phosphorus as P	Dissolved	=	0.5	mg/L	EPA 365.1	0.007	0.05	WKL	DG
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	12/14/2012 11:33:00 AM	Phosphorus as P	Total	=	3	mg/L	EPA 365.1	0.07	0.5	WKL	DG
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/28/2012 4:20:00 PM	TKN	n/a	=	11	mg/L	EPA 351.2	0.37	0.5	WKL	D
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/28/2012 2:06:00 AM	1,2,4-Trichlorobenzene	n/a	<	2.2	µg/L	EPA 625	2.2	4	WKL	D, DF
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/28/2012 2:06:00 AM	1,2-Dichlorobenzene	n/a	<	2.3	µg/L	EPA 625	2.3	4	WKL	D, DF
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/28/2012 2:06:00 AM	1,2-Diphenylhydrazine	n/a	<	1	µg/L	EPA 625	1	4	WKL	D, DF
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/28/2012 2:06:00 AM	1,3-Dichlorobenzene	n/a	<	2.1	µg/L	EPA 625	2.1	4	WKL	D, DF
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/28/2012 2:06:00 AM	1,4-Dichlorobenzene	n/a	<	2.2	µg/L	EPA 625	2.2	4	WKL	D, DF
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/29/2012 3:35:00 AM	1-Methylnaphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/29/2012 8:02:00 PM	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/29/2012 8:02:00 PM	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	EUM
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/29/2012 8:02:00 PM	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/29/2012 8:02:00 PM	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/29/2012 8:02:00 PM	2,4-Dinitrophenol	n/a	DNQ	1.3	µg/L	EPA 8270Cm	1	2	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/28/2012 2:06:00 AM	2,4-Dinitrotoluene	n/a	<	0.72	µg/L	EPA 625	0.72	4	WKL	D, DF
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/28/2012 2:06:00 AM	2,6-Dinitrotoluene	n/a	<	1.1	µg/L	EPA 625	1.1	4	WKL	D, DF
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/28/2012 2:06:00 AM	2-Chloronaphthalene	n/a	<	1.8	µg/L	EPA 625	1.8	4	WKL	D, DF
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/29/2012 8:02:00 PM	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	EUM

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/29/2012 3:35:00 AM	2-Methylnaphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/29/2012 8:02:00 PM	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/29/2012 8:02:00 PM	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/28/2012 2:06:00 AM	3,3'-Dichlorobenzidine	n/a	<	4.8	µg/L	EPA 625	4.8	20	WKL	D, DF
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/29/2012 8:02:00 PM	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/29/2012 8:02:00 PM	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/28/2012 2:06:00 AM	4-Bromophenyl phenyl ether	n/a	<	1.4	µg/L	EPA 625	1.4	4	WKL	D, DF
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/29/2012 8:02:00 PM	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/28/2012 2:06:00 AM	4-Chlorophenyl phenyl ether	n/a	<	1.6	µg/L	EPA 625	1.6	4	WKL	D, DF
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/29/2012 8:02:00 PM	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/29/2012 3:35:00 AM	Acenaphthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	EUM
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/29/2012 3:35:00 AM	Acenaphthylene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/29/2012 3:35:00 AM	Anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/29/2012 3:35:00 AM	Benz(a)anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/28/2012 2:06:00 AM	Benzidine	n/a	<	15	µg/L	EPA 625	15	40	WKL	D, DF
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	12/4/2012 6:21:00 AM	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/29/2012 3:35:00 AM	Benzo(b)fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/29/2012 3:35:00 AM	Benzo(g,h,i)perylene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/29/2012 3:35:00 AM	Benzo(k)fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/28/2012 2:06:00 AM	Bis(2-chloroethoxy)methane	n/a	<	1	µg/L	EPA 625	1	4	WKL	D, DF
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/28/2012 2:06:00 AM	Bis(2-chloroethyl)ether	n/a	<	1.1	µg/L	EPA 625	1.1	4	WKL	D, DF
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/28/2012 2:06:00 AM	Bis(2-chloroisopropyl)ether	n/a	<	1.5	µg/L	EPA 625	1.5	4	WKL	D, DF
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	12/4/2012 6:21:00 AM	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	12/4/2012 6:21:00 AM	Bis(2-ethylhexyl)phthalate	n/a	DNQ	1.6	µg/L	EPA 525.2	1.1	3	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/28/2012 2:06:00 AM	Butyl benzyl phthalate	n/a	<	0.72	µg/L	EPA 625	0.72	4	WKL	D, DF
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/29/2012 3:35:00 AM	Chrysene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/29/2012 3:35:00 AM	Dibenz(a,h)anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/28/2012 2:06:00 AM	Diethyl phthalate	n/a	DNQ	0.99	µg/L	EPA 625	0.6	4	WKL	D, DF
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/28/2012 2:06:00 AM	Dimethyl phthalate	n/a	<	0.72	µg/L	EPA 625	0.72	4	WKL	D, DF
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/28/2012 2:06:00 AM	Di-n-butylphthalate	n/a	<	0.96	µg/L	EPA 625	0.96	4	WKL	D, DF
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/28/2012 2:06:00 AM	Di-n-octylphthalate	n/a	<	0.76	µg/L	EPA 625	0.76	4	WKL	D, DF
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/29/2012 3:35:00 AM	Fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/29/2012 3:35:00 AM	Fluorene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	EUM
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/28/2012 2:06:00 AM	Hexachlorobenzene	n/a	<	2	µg/L	EPA 625	2	4	WKL	D, DF
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/28/2012 2:06:00 AM	Hexachlorobutadiene	n/a	<	1.9	µg/L	EPA 625	1.9	4	WKL	D, DF
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/28/2012 2:06:00 AM	Hexachlorocyclopentadiene	n/a	<	5.8	µg/L	EPA 625	5.8	20	WKL	D, DF
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/28/2012 2:06:00 AM	Hexachloroethane	n/a	<	2.1	µg/L	EPA 625	2.1	4	WKL	D, DF
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/29/2012 3:35:00 AM	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/28/2012 2:06:00 AM	Isophorone	n/a	<	0.84	µg/L	EPA 625	0.84	4	WKL	D, DF
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/29/2012 3:35:00 AM	Naphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/28/2012 2:06:00 AM	Nitrobenzene	n/a	<	1.4	µg/L	EPA 625	1.4	4	WKL	D, DF
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/28/2012 2:06:00 AM	N-Nitrosodimethylamine	n/a	<	0.56	µg/L	EPA 625	0.56	4	WKL	D, DF, EUM
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/28/2012 2:06:00 AM	N-Nitrosodi-N-propylamine	n/a	<	1	µg/L	EPA 625	1	4	WKL	D, DF
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/28/2012 2:06:00 AM	N-Nitrosodiphenylamine	n/a	<	0.76	µg/L	EPA 625	0.76	4	WKL	D, DF
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/29/2012 3:35:00 AM	Phenanthrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	EUM
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/29/2012 8:02:00 PM	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/29/2012 3:35:00 AM	Pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	EUM
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/28/2012 4:10:00 AM	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/28/2012 4:10:00 AM	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/28/2012 4:10:00 AM	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/28/2012 4:10:00 AM	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/28/2012 4:10:00 AM	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/28/2012 4:10:00 AM	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/28/2012 4:10:00 AM	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	12/2/2012 12:28:00 AM	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	12/2/2012 12:28:00 AM	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	12/2/2012 12:28:00 AM	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	12/2/2012 12:28:00 AM	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	12/2/2012 12:28:00 AM	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/28/2012 4:10:00 AM	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/28/2012 4:10:00 AM	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/28/2012 4:10:00 AM	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	12/2/2012 12:28:00 AM	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	12/4/2012 6:21:00 AM	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/28/2012 4:10:00 AM	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/28/2012 4:10:00 AM	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/28/2012 4:10:00 AM	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	12/4/2012 6:21:00 AM	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	12/13/2012 2:49:00 PM	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	EUM
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	12/2/2012 12:28:00 AM	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/28/2012 4:10:00 AM	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	12/13/2012 2:49:00 PM	Bolstar	n/a	DNQ	0.0051	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	12/4/2012 6:21:00 AM	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	12/4/2012 6:21:00 AM	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	12/4/2012 6:21:00 AM	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/28/2012 4:10:00 AM	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	12/4/2012 6:21:00 AM	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	12/13/2012 2:49:00 PM	Chlorpyrifos	n/a	=	0.042	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	12/13/2012 2:49:00 PM	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	12/4/2012 6:21:00 AM	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	12/2/2012 12:28:00 AM	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	12/2/2012 12:28:00 AM	DCPA (Dacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/28/2012 4:10:00 AM	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	12/13/2012 2:49:00 PM	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	12/13/2012 2:49:00 PM	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	12/13/2012 2:49:00 PM	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	12/2/2012 12:28:00 AM	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	12/2/2012 12:28:00 AM	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	12/13/2012 2:49:00 PM	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/28/2012 4:10:00 AM	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	12/13/2012 2:49:00 PM	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	12/2/2012 12:28:00 AM	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	12/4/2012 6:21:00 AM	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	12/13/2012 2:49:00 PM	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/28/2012 4:10:00 AM	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/28/2012 4:10:00 AM	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/28/2012 4:10:00 AM	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/28/2012 4:10:00 AM	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/28/2012 4:10:00 AM	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	12/4/2012 6:21:00 AM	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	12/13/2012 2:49:00 PM	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	12/13/2012 2:49:00 PM	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	12/13/2012 2:49:00 PM	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	12/13/2012 2:49:00 PM	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/28/2012 4:10:00 AM	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/28/2012 4:10:00 AM	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/28/2012 6:40:00 PM	Glyphosate	n/a	=	22	µg/L	EPA 547	1.8	5	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/28/2012 4:10:00 AM	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/28/2012 4:10:00 AM	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	12/13/2012 2:49:00 PM	Malathion	n/a	=	0.044	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	12/13/2012 2:49:00 PM	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/28/2012 4:10:00 AM	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	12/13/2012 2:49:00 PM	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	12/4/2012 6:21:00 AM	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	12/4/2012 6:21:00 AM	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	12/13/2012 2:49:00 PM	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	12/4/2012 6:21:00 AM	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	12/13/2012 2:49:00 PM	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.1	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	12/2/2012 12:28:00 AM	Pentachlorophenol	n/a	=	0.56	µg/L	EPA 515.3	0.04	0.2	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	12/13/2012 2:49:00 PM	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	12/2/2012 12:28:00 AM	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	12/4/2012 6:21:00 AM	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	12/4/2012 6:21:00 AM	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	12/13/2012 2:49:00 PM	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	12/4/2012 6:21:00 AM	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	12/13/2012 2:49:00 PM	Stirophos (Tetrachlorvinphos)	n/a	DNQ	0.0051	µg/L	EPA 525.2	0.0031	0.01	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	12/4/2012 6:21:00 AM	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	12/4/2012 6:21:00 AM	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	12/13/2012 2:49:00 PM	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	11/28/2012 4:10:00 AM	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	12/13/2012 2:49:00 PM	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-SPA	2012/13-2	Wet	11/18/2012 7:54:00 AM	12/4/2012 6:21:00 AM	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-SPA	2012/13-3	Wet	2/19/2013 8:15:00 PM	2/20/2013 6:30:00 PM	E. Coli	n/a	=	6131	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-SPA	2012/13-3	Wet	2/19/2013 8:15:00 PM	2/22/2013 10:00:00 PM	Fecal Coliform	n/a	=	16000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-SPA	2012/13-3	Wet	2/19/2013 8:15:00 PM	2/20/2013 6:30:00 PM	Total Coliform	n/a	=	816400	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	
MO-SPA	2012/13-3	Wet	2/19/2013 8:15:00 PM	2/19/2013 8:15:00 PM	Conductivity	n/a	=	149.8	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-SPA	2012/13-3	Wet	2/19/2013 8:15:00 PM	3/8/2013 9:36:00 PM	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-SPA	2012/13-3	Wet	2/19/2013 8:15:00 PM	2/19/2013 8:15:00 PM	DO	n/a	=	10.9	mg/L	Field Meter	-88	0.3	Field Crew	
MO-SPA	2012/13-3	Wet	2/19/2013 8:15:00 PM	2/19/2013 8:15:00 PM	DO	n/a	=	103	%	Field Meter	-88	0.1	Field Crew	
MO-SPA	2012/13-3	Wet	2/19/2013 8:15:00 PM	2/19/2013 8:15:00 PM	pH	n/a	=	7.68	pH Units	Field Meter	-88	0.01	Field Crew	
MO-SPA	2012/13-3	Wet	2/19/2013 8:15:00 PM	2/19/2013 8:15:00 PM	Salinity	n/a	=	100	mg/L	Field Meter	-88	100	Field Crew	
MO-SPA	2012/13-3	Wet	2/19/2013 8:15:00 PM	2/19/2013 8:15:00 PM	Specific Conductance	n/a	=	223.1	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-SPA	2012/13-3	Wet	2/19/2013 8:15:00 PM	2/19/2013 8:15:00 PM	Temperature	n/a	=	12.3	°C	Field Meter	-88	0.1	Field Crew	
MO-SPA	2012/13-3	Wet	2/19/2013 8:15:00 PM	3/4/2013 6:09:00 PM	Oil and Grease	n/a	DNQ	2.3	mg/L	EPA 1664A	1.3	5	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SPA	2012/13-3	Wet	2/19/2013 8:15:00 PM	3/4/2013 6:09:00 PM	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-SPA	2012/13-3	Wet	2/19/2013 8:15:00 PM	2/28/2013 6:03:00 AM	2-Chloroethyl vinyl ether	n/a	<	0.61	µg/L	EPA 524.2	0.61	1	WKL	
MO-SPA	2012/13-3	Wet	2/19/2013 8:15:00 PM	2/28/2013 6:03:00 AM	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	2/28/2013 12:03:00 PM	Chloride	n/a	=	14	mg/L	EPA 300.0	0.1	0.5	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	2/28/2013 12:03:00 PM	Fluoride	n/a	=	0.28	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/1/2013 4:10:00 PM	Perchlorate	n/a	<	1.9	µg/L	EPA 314.0	1.9	4	WKL	D
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	2/25/2013 2:00:00 PM	Calcium	Total	=	29.7	mg/L	EPA 200.7	0.0156	0.1	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	2/25/2013 2:00:00 PM	Magnesium	Total	=	8.02	mg/L	EPA 200.7	0.0121	0.1	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	2/25/2013 10:23:00 PM	Alkalinity as CaCO3	n/a	=	55	mg/L	SM 2320 B	0.56	2	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	2/27/2013 11:44:00 AM	BOD	n/a	=	16	mg/L	SM 5210 B	0.1	2	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/2/2013 4:05:00 PM	COD	n/a	=	750	mg/L	EPA 410.4	0.73	5	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	2/25/2013 2:00:00 PM	Hardness as CaCO3	Total	=	107	mg/L	EPA 200.7	0.0885	0.662	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	2/21/2013 9:38:00 PM	MBAS	n/a	=	0.73	mg/L	SM 5540 C	0.076	0.2	WKL	D
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	2/25/2013 6:25:00 PM	Phenolics	n/a	=	0.11	mg/L	EPA 420.4	0.0042	0.01	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/4/2013 7:13:00 PM	Specific Conductance	n/a	=	300	µmhos/cm	SM 2510 B	0.23	2	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	2/26/2013 4:20:00 PM	Total Dissolved Solids	n/a	=	180	mg/L	SM 2540 C	4	10	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/4/2013 10:20:00 AM	Total Organic Carbon	n/a	=	44	mg/L	SM 5310 C	0.18	6	WKL	D
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	2/26/2013 8:27:00 PM	Total Suspended Solids	n/a	=	260	mg/L	SM 2540 D	5	5	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	2/21/2013 7:26:00 PM	Turbidity	n/a	=	96	NTU	EPA 180.1	0.024	0.1	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	2/26/2013 8:27:00 PM	Volatile Suspended Solids	n/a	=	40	mg/L	EPA 160.4	3.1	5	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/5/2013 3:16:00 PM	Aluminum	Dissolved	=	27	µg/L	EPA 200.8	0.61	5	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/5/2013 3:24:00 PM	Aluminum	Total	=	6100	µg/L	EPA 200.8	2.1	5	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/5/2013 3:16:00 PM	Antimony	Dissolved	=	1.6	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/5/2013 3:24:00 PM	Antimony	Total	=	3.1	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/5/2013 3:16:00 PM	Arsenic	Dissolved	=	1.4	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/5/2013 3:24:00 PM	Arsenic	Total	=	3.4	µg/L	EPA 200.8	0.13	0.4	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/5/2013 3:16:00 PM	Beryllium	Dissolved	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/5/2013 3:24:00 PM	Beryllium	Total	=	0.24	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/5/2013 3:16:00 PM	Cadmium	Dissolved	=	0.19	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/5/2013 3:24:00 PM	Cadmium	Total	=	0.92	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/5/2013 3:16:00 PM	Chromium	Dissolved	=	1.3	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/5/2013 3:24:00 PM	Chromium	Total	=	13	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/4/2013 9:56:00 AM	Chromium VI	n/a	DNQ	0.15	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/5/2013 3:16:00 PM	Copper	Dissolved	=	25	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/5/2013 3:24:00 PM	Copper	Total	=	56	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	2/25/2013 1:58:00 PM	Iron	Dissolved	=	91	µg/L	EPA 200.7	1.1	10	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	2/25/2013 2:00:00 PM	Iron	Total	=	9500	µg/L	EPA 200.7	1.1	10	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/5/2013 3:16:00 PM	Lead	Dissolved	=	0.53	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/5/2013 3:24:00 PM	Lead	Total	=	29	µg/L	EPA 200.8	0.035	0.2	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/5/2013 7:28:00 PM	Mercury	Dissolved	DNQ	26	ng/L	EPA 245.1	3.9	50	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/5/2013 7:28:00 PM	Mercury	Total	=	56	ng/L	EPA 245.1	3.9	50	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/5/2013 3:16:00 PM	Nickel	Dissolved	=	6.6	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/5/2013 3:24:00 PM	Nickel	Total	=	18	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/5/2013 3:16:00 PM	Selenium	Dissolved	=	0.61	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/5/2013 3:24:00 PM	Selenium	Total	=	0.78	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/5/2013 3:16:00 PM	Silver	Dissolved	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/5/2013 3:24:00 PM	Silver	Total	DNQ	0.14	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/5/2013 3:16:00 PM	Thallium	Dissolved	<	0.009	µg/L	EPA 200.8	0.009	0.2	WKL	

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/5/2013 3:24:00 PM	Thallium	Total	DNQ	0.1	µg/L	EPA 200.8	0.034	0.2	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/5/2013 3:16:00 PM	Zinc	Dissolved	=	100	µg/L	EPA 200.8	1.1	5	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/5/2013 3:24:00 PM	Zinc	Total	=	360	µg/L	EPA 200.8	1.1	5	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/12/2013 6:47:00 PM	Ammonia as N	n/a	=	1.4	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	2/21/2013 7:56:00 PM	Nitrate + Nitrite as N	n/a	=	1.2	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/14/2013 4:35:00 PM	Phosphorus as P	Dissolved	=	0.4	mg/L	EPA 365.1	0.007	0.05	WKL	D
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/5/2013 3:39:00 PM	Phosphorus as P	Total	=	2.4	mg/L	EPA 365.1	0.07	0.5	WKL	D
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/12/2013 10:36:00 PM	TKN	n/a	=	10	mg/L	EPA 351.2	0.37	0.5	WKL	D
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/6/2013 9:48:00 PM	1,2,4-Trichlorobenzene	n/a	<	5.5	µg/L	EPA 625	5.5	10	WKL	D
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/6/2013 9:48:00 PM	1,2-Dichlorobenzene	n/a	<	5.7	µg/L	EPA 625	5.7	10	WKL	D
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/6/2013 9:48:00 PM	1,2-Diphenylhydrazine	n/a	<	2.5	µg/L	EPA 625	2.5	10	WKL	D
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/6/2013 9:48:00 PM	1,3-Dichlorobenzene	n/a	<	5.3	µg/L	EPA 625	5.3	10	WKL	D
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/6/2013 9:48:00 PM	1,4-Dichlorobenzene	n/a	<	5.5	µg/L	EPA 625	5.5	10	WKL	D
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/21/2013 8:10:00 AM	1-Methylnaphthalene	n/a	<	2	µg/L	EPA 8270Cm	2	2	WKL	D, RE
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/20/2013 11:29:00 PM	2,4,5-Trichlorophenol	n/a	<	5.8	µg/L	EPA 8270Cm	5.8	20	WKL	D, RE
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/20/2013 11:29:00 PM	2,4,6-Trichlorophenol	n/a	<	6	µg/L	EPA 8270Cm	6	20	WKL	D, RE
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/20/2013 11:29:00 PM	2,4-Dichlorophenol	n/a	<	10	µg/L	EPA 8270Cm	10	20	WKL	D, RE
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/20/2013 11:29:00 PM	2,4-Dimethylphenol	n/a	<	20	µg/L	EPA 8270Cm	20	40	WKL	D, RE
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/20/2013 11:29:00 PM	2,4-Dinitrophenol	n/a	<	20	µg/L	EPA 8270Cm	20	40	WKL	D, RE
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/6/2013 9:48:00 PM	2,4-Dinitrotoluene	n/a	<	1.8	µg/L	EPA 625	1.8	10	WKL	D
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/6/2013 9:48:00 PM	2,6-Dinitrotoluene	n/a	<	2.7	µg/L	EPA 625	2.7	10	WKL	D
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/6/2013 9:48:00 PM	2-Chloronaphthalene	n/a	<	4.5	µg/L	EPA 625	4.5	10	WKL	D
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/20/2013 11:29:00 PM	2-Chlorophenol	n/a	<	13	µg/L	EPA 8270Cm	13	20	WKL	D, RE
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/21/2013 8:10:00 AM	2-Methylnaphthalene	n/a	<	2	µg/L	EPA 8270Cm	2	2	WKL	D, RE
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/20/2013 11:29:00 PM	2-Methylphenol	n/a	<	6.8	µg/L	EPA 8270Cm	6.8	20	WKL	D, RE
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/20/2013 11:29:00 PM	2-Nitrophenol	n/a	<	14	µg/L	EPA 8270Cm	14	20	WKL	D, RE
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/6/2013 9:48:00 PM	3,3'-Dichlorobenzidine	n/a	<	12	µg/L	EPA 625	12	50	WKL	D
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/20/2013 11:29:00 PM	3-/4-Methylphenol	n/a	<	6	µg/L	EPA 8270Cm	6	20	WKL	D, RE
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/20/2013 11:29:00 PM	4,6-Dinitro-2-methylphenol	n/a	<	2.8	µg/L	EPA 8270Cm	2.8	20	WKL	D, RE
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/6/2013 9:48:00 PM	4-Bromophenyl phenyl ether	n/a	<	3.6	µg/L	EPA 625	3.6	10	WKL	D
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/20/2013 11:29:00 PM	4-Chloro-3-methylphenol	n/a	<	7.4	µg/L	EPA 8270Cm	7.4	20	WKL	D, RE
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/6/2013 9:48:00 PM	4-Chlorophenyl phenyl ether	n/a	<	4.1	µg/L	EPA 625	4.1	10	WKL	D
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/20/2013 11:29:00 PM	4-Nitrophenol	n/a	<	20	µg/L	EPA 8270Cm	20	40	WKL	D, RE
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/21/2013 8:10:00 AM	Acenaphthene	n/a	<	2	µg/L	EPA 8270Cm	2	2	WKL	D, RE
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/21/2013 8:10:00 AM	Acenaphthylene	n/a	<	2	µg/L	EPA 8270Cm	2	2	WKL	D, RE
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/21/2013 8:10:00 AM	Anthracene	n/a	<	2	µg/L	EPA 8270Cm	2	2	WKL	D, RE
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/21/2013 8:10:00 AM	Benz(a)anthracene	n/a	<	2	µg/L	EPA 8270Cm	2	2	WKL	D, RE
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/6/2013 9:48:00 PM	Benzidine	n/a	<	37	µg/L	EPA 625	37	100	WKL	D
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/15/2013 2:47:00 AM	Benzo(a)pyrene	n/a	<	0.082	µg/L	EPA 525.2	0.082	0.12	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/21/2013 8:10:00 AM	Benzo(b)fluoranthene	n/a	=	2.6	µg/L	EPA 8270Cm	2	2	WKL	D, RE
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/21/2013 8:10:00 AM	Benzo(g,h,i)perylene	n/a	=	3.3	µg/L	EPA 8270Cm	2	2	WKL	D, RE
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/21/2013 8:10:00 AM	Benzo(k)fluoranthene	n/a	=	2.7	µg/L	EPA 8270Cm	2	2	WKL	D, RE
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/6/2013 9:48:00 PM	Bis(2-chloroethoxy)methane	n/a	<	2.5	µg/L	EPA 625	2.5	10	WKL	D
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/6/2013 9:48:00 PM	Bis(2-chloroethyl)ether	n/a	<	2.7	µg/L	EPA 625	2.7	10	WKL	D
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/6/2013 9:48:00 PM	Bis(2-chloroisopropyl)ether	n/a	<	3.8	µg/L	EPA 625	3.8	10	WKL	D
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/15/2013 2:47:00 AM	Bis(2-ethylhexyl)adipate	n/a	<	0.12	µg/L	EPA 525.2	0.12	5.9	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/15/2013 2:47:00 AM	Bis(2-ethylhexyl)phthalate	n/a	DNQ	3	µg/L	EPA 525.2	1.2	3.5	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/6/2013 9:48:00 PM	Butyl benzyl phthalate	n/a	<	1.8	µg/L	EPA 625	1.8	10	WKL	D

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/21/2013 8:10:00 AM	Chrysene	n/a	<	2	µg/L	EPA 8270Cm	2	2	WKL	D, RE
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/21/2013 8:10:00 AM	Dibenz(a,h)anthracene	n/a	=	3.9	µg/L	EPA 8270Cm	2	2	WKL	D, RE
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/6/2013 9:48:00 PM	Diethyl phthalate	n/a	<	1.5	µg/L	EPA 625	1.5	10	WKL	D
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/6/2013 9:48:00 PM	Dimethyl phthalate	n/a	<	1.8	µg/L	EPA 625	1.8	10	WKL	D
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/6/2013 9:48:00 PM	Di-n-butylphthalate	n/a	<	2.4	µg/L	EPA 625	2.4	10	WKL	D
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/6/2013 9:48:00 PM	Di-n-octylphthalate	n/a	<	1.9	µg/L	EPA 625	1.9	10	WKL	D
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/21/2013 8:10:00 AM	Fluoranthene	n/a	<	2	µg/L	EPA 8270Cm	2	2	WKL	D, RE
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/21/2013 8:10:00 AM	Fluorene	n/a	<	2	µg/L	EPA 8270Cm	2	2	WKL	D, RE
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/6/2013 9:48:00 PM	Hexachlorobenzene	n/a	<	4.9	µg/L	EPA 625	4.9	10	WKL	D
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/6/2013 9:48:00 PM	Hexachlorobutadiene	n/a	<	4.7	µg/L	EPA 625	4.7	10	WKL	D
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/6/2013 9:48:00 PM	Hexachlorocyclopentadiene	n/a	<	15	µg/L	EPA 625	15	50	WKL	D
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/6/2013 9:48:00 PM	Hexachloroethane	n/a	<	5.2	µg/L	EPA 625	5.2	10	WKL	D
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/21/2013 8:10:00 AM	Indeno(1,2,3-cd)pyrene	n/a	=	3.7	µg/L	EPA 8270Cm	2	2	WKL	D, RE
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/6/2013 9:48:00 PM	Isophorone	n/a	<	2.1	µg/L	EPA 625	2.1	10	WKL	D
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/21/2013 8:10:00 AM	Naphthalene	n/a	<	2	µg/L	EPA 8270Cm	2	2	WKL	D, RE
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/6/2013 9:48:00 PM	Nitrobenzene	n/a	<	3.6	µg/L	EPA 625	3.6	10	WKL	D
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/6/2013 9:48:00 PM	N-Nitrosodimethylamine	n/a	<	1.4	µg/L	EPA 625	1.4	10	WKL	D
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/6/2013 9:48:00 PM	N-Nitrosodi-N-propylamine	n/a	<	2.6	µg/L	EPA 625	2.6	10	WKL	D
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/6/2013 9:48:00 PM	N-Nitrosodiphenylamine	n/a	<	1.9	µg/L	EPA 625	1.9	10	WKL	D
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/21/2013 8:10:00 AM	Phenanthrene	n/a	<	2	µg/L	EPA 8270Cm	2	2	WKL	D, RE
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/20/2013 11:29:00 PM	Phenol	n/a	<	7	µg/L	EPA 8270Cm	7	20	WKL	D, RE
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/21/2013 8:10:00 AM	Pyrene	n/a	<	2	µg/L	EPA 8270Cm	2	2	WKL	D, RE
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/14/2013 2:04:00 AM	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/14/2013 2:04:00 AM	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/14/2013 2:04:00 AM	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/14/2013 2:04:00 AM	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/14/2013 2:04:00 AM	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/14/2013 2:04:00 AM	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/14/2013 2:04:00 AM	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	2/26/2013 5:57:00 PM	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	2/26/2013 5:57:00 PM	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	2/26/2013 5:57:00 PM	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	2/26/2013 5:57:00 PM	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	2/26/2013 5:57:00 PM	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/14/2013 2:04:00 AM	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/14/2013 2:04:00 AM	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/14/2013 2:04:00 AM	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	2/26/2013 5:57:00 PM	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/15/2013 2:47:00 AM	Alachlor	n/a	<	0.026	µg/L	EPA 525.2	0.026	0.12	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/14/2013 2:04:00 AM	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/14/2013 2:04:00 AM	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/14/2013 2:04:00 AM	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/15/2013 2:47:00 AM	Atrazine	n/a	<	0.04	µg/L	EPA 525.2	0.04	0.12	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	2/26/2013 5:57:00 PM	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/14/2013 2:04:00 AM	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/15/2013 2:47:00 AM	Bromacil	n/a	<	0.045	µg/L	EPA 525.2	0.045	1.2	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/15/2013 2:47:00 AM	Butachlor	n/a	<	0.02	µg/L	EPA 525.2	0.02	0.24	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/15/2013 2:47:00 AM	Captan	n/a	<	1	µg/L	EPA 525.2	1	1.2	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/14/2013 2:04:00 AM	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/15/2013 2:47:00 AM	Chloropropham	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.12	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/15/2013 2:47:00 AM	Cyanazine	n/a	<	0.028	µg/L	EPA 525.2	0.028	0.12	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	2/26/2013 5:57:00 PM	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	2/26/2013 5:57:00 PM	DCPA (Dacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/14/2013 2:04:00 AM	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	2/26/2013 5:57:00 PM	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	2/26/2013 5:57:00 PM	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/14/2013 2:04:00 AM	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	2/26/2013 5:57:00 PM	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/15/2013 2:47:00 AM	Diphenamid	n/a	<	0.028	µg/L	EPA 525.2	0.028	0.12	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/14/2013 2:04:00 AM	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/14/2013 2:04:00 AM	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/14/2013 2:04:00 AM	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/14/2013 2:04:00 AM	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/14/2013 2:04:00 AM	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/15/2013 2:47:00 AM	EPTC	n/a	<	0.02	µg/L	EPA 525.2	0.02	1.2	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/14/2013 2:04:00 AM	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/14/2013 2:04:00 AM	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	2/25/2013 5:50:00 PM	Glyphosate	n/a	=	57	µg/L	EPA 547	3.6	10	WKL	D
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/14/2013 2:04:00 AM	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/14/2013 2:04:00 AM	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/14/2013 2:04:00 AM	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/15/2013 2:47:00 AM	Metolachlor	n/a	<	0.014	µg/L	EPA 525.2	0.014	0.12	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/15/2013 2:47:00 AM	Metribuzin	n/a	<	0.018	µg/L	EPA 525.2	0.018	0.12	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/15/2013 2:47:00 AM	Molinate	n/a	<	0.046	µg/L	EPA 525.2	0.046	0.12	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	2/26/2013 5:57:00 PM	Pentachlorophenol	n/a	=	0.55	µg/L	EPA 515.3	0.04	0.2	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	2/26/2013 5:57:00 PM	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/15/2013 2:47:00 AM	Prometon	n/a	<	0.028	µg/L	EPA 525.2	0.028	0.24	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/15/2013 2:47:00 AM	Prometryn	n/a	<	0.042	µg/L	EPA 525.2	0.042	0.12	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/15/2013 2:47:00 AM	Simazine	n/a	<	0.018	µg/L	EPA 525.2	0.018	0.12	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/15/2013 2:47:00 AM	Terbacil	n/a	<	0.65	µg/L	EPA 525.2	0.65	2.4	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/15/2013 2:47:00 AM	Thiobencarb	n/a	<	0.029	µg/L	EPA 525.2	0.029	0.24	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/14/2013 2:04:00 AM	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-SPA	2012/13-3	Wet	2/20/2013 12:25:00 PM	3/15/2013 2:47:00 AM	Trithion	n/a	<	0.014	µg/L	EPA 525.2	0.014	0.12	WKL	
MO-SPA	2012/13-4	Wet	3/7/2013 11:15:00 PM	3/8/2013 10:20:00 PM	E. Coli	n/a	=	12033	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-SPA	2012/13-4	Wet	3/7/2013 11:15:00 PM	3/12/2013 1:20:00 AM	Fecal Coliform	n/a	=	16000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-SPA	2012/13-4	Wet	3/7/2013 11:15:00 PM	3/8/2013 10:20:00 PM	Total Coliform	n/a	=	307600	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	
MO-SPA	2012/13-4	Wet	3/7/2013 11:15:00 PM	3/7/2013 11:15:00 PM	Conductivity	n/a	=	51.7	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-SPA	2012/13-4	Wet	3/7/2013 11:15:00 PM	3/22/2013 2:01:00 PM	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-SPA	2012/13-4	Wet	3/7/2013 11:15:00 PM	3/7/2013 11:15:00 PM	DO	n/a	=	89.3	%	Field Meter	-88	0.1	Field Crew	
MO-SPA	2012/13-4	Wet	3/7/2013 11:15:00 PM	3/7/2013 11:15:00 PM	DO	n/a	=	9.41	mg/L	Field Meter	-88	0.3	Field Crew	
MO-SPA	2012/13-4	Wet	3/7/2013 11:15:00 PM	3/7/2013 11:15:00 PM	pH	n/a	=	7.24	pH Units	Field Meter	-88	0.01	Field Crew	
MO-SPA	2012/13-4	Wet	3/7/2013 11:15:00 PM	3/7/2013 11:15:00 PM	Salinity	n/a	<	100	mg/L	Field Meter	-88	100	Field Crew	
MO-SPA	2012/13-4	Wet	3/7/2013 11:15:00 PM	3/7/2013 11:15:00 PM	Specific Conductance	n/a	=	72.7	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-SPA	2012/13-4	Wet	3/7/2013 11:15:00 PM	3/7/2013 11:15:00 PM	Temperature	n/a	=	14.8	°C	Field Meter	-88	0.1	Field Crew	
MO-SPA	2012/13-4	Wet	3/7/2013 11:15:00 PM	3/14/2013 3:00:00 PM	Oil and Grease	n/a	DNQ	2.7	mg/L	EPA 1664A	1.3	5	WKL	
MO-SPA	2012/13-4	Wet	3/7/2013 11:15:00 PM	3/14/2013 3:00:00 PM	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SPA	2012/13-4	Wet	3/7/2013 11:15:00 PM	3/11/2013 7:15:00 PM	2-Chloroethyl vinyl ether	n/a	<	0.61	µg/L	EPA 524.2	0.61	1	WKL	
MO-SPA	2012/13-4	Wet	3/7/2013 11:15:00 PM	3/11/2013 7:15:00 PM	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/19/2013 8:50:00 PM	Chloride	n/a	=	8.1	mg/L	EPA 300.0	0.1	0.5	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/19/2013 8:50:00 PM	Fluoride	n/a	=	0.18	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/19/2013 5:42:00 PM	Perchlorate	n/a	=	2.8	µg/L	EPA 314.0	0.95	2	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/14/2013 11:51:00 AM	Calcium	Total	=	21	mg/L	EPA 200.7	0.0156	0.1	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/14/2013 11:51:00 AM	Magnesium	Total	=	5.37	mg/L	EPA 200.7	0.0121	0.1	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/22/2013 10:05:00 AM	Alkalinity as CaCO3	n/a	=	52	mg/L	SM 2320 B	0.56	10	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/14/2013 2:00:00 PM	BOD	n/a	=	39	mg/L	SM 5210 B	0.1	2	WKL	EST
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/20/2013 10:56:00 PM	COD	n/a	=	220	mg/L	EPA 410.4	0.73	5	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/14/2013 11:51:00 AM	Hardness as CaCO3	Total	=	74.4	mg/L	EPA 200.7	0.0885	0.662	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/9/2013 8:43:00 PM	MBAS	n/a	=	1.1	mg/L	SM 5540 C	0.076	0.2	WKL	D
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/26/2013 12:04:00 PM	Phenolics	n/a	=	0.072	mg/L	EPA 420.4	0.0042	0.01	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/18/2013 3:18:00 PM	Specific Conductance	n/a	=	200	µmhos/cm	SM 2510 B	0.23	2	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/12/2013 9:45:00 PM	Total Dissolved Solids	n/a	=	160	mg/L	SM 2540 C	4	10	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/14/2013 2:56:00 PM	Total Organic Carbon	n/a	=	32	mg/L	SM 5310 C	0.18	6	WKL	D
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/12/2013 8:00:00 PM	Total Suspended Solids	n/a	=	200	mg/L	SM 2540 D	5	5	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/9/2013 6:55:00 PM	Turbidity	n/a	=	70	NTU	EPA 180.1	0.024	0.1	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/12/2013 8:00:00 PM	Volatile Suspended Solids	n/a	=	61	mg/L	EPA 160.4	3.1	5	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	4/1/2013 7:06:00 PM	Aluminum	Dissolved	=	34	µg/L	EPA 200.8	0.61	5	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	4/1/2013 9:15:00 PM	Aluminum	Total	=	3500	µg/L	EPA 200.8	2.1	5	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	4/1/2013 7:06:00 PM	Antimony	Dissolved	=	1.4	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	4/1/2013 9:15:00 PM	Antimony	Total	=	2.3	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	4/1/2013 7:06:00 PM	Arsenic	Dissolved	=	1.1	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	4/1/2013 9:15:00 PM	Arsenic	Total	=	2.2	µg/L	EPA 200.8	0.13	0.4	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	4/2/2013 1:22:00 PM	Beryllium	Dissolved	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	4/2/2013 2:13:00 PM	Beryllium	Total	=	0.13	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	4/1/2013 7:06:00 PM	Cadmium	Dissolved	DNQ	0.08	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	4/1/2013 9:15:00 PM	Cadmium	Total	=	0.62	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	4/1/2013 7:06:00 PM	Chromium	Dissolved	=	1.2	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	4/1/2013 9:15:00 PM	Chromium	Total	=	7.8	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/13/2013 3:51:00 PM	Chromium VI	n/a	=	0.59	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	4/1/2013 7:06:00 PM	Copper	Dissolved	=	11	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	4/1/2013 9:15:00 PM	Copper	Total	=	41	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/14/2013 11:48:00 AM	Iron	Dissolved	=	160	µg/L	EPA 200.7	1.1	10	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/14/2013 11:51:00 AM	Iron	Total	=	5300	µg/L	EPA 200.7	1.1	10	WKL	LB-MSR
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	4/2/2013 1:22:00 PM	Lead	Dissolved	=	1.6	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	4/2/2013 2:13:00 PM	Lead	Total	=	19	µg/L	EPA 200.8	0.035	0.2	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/27/2013 4:49:00 PM	Mercury	Dissolved	<	3.9	ng/L	EPA 245.1	3.9	50	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	4/3/2013 2:38:00 PM	Mercury	Total	=	85	ng/L	EPA 245.1	3.9	50	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	4/1/2013 7:06:00 PM	Nickel	Dissolved	=	5.7	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	4/1/2013 9:15:00 PM	Nickel	Total	=	12	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	4/1/2013 7:06:00 PM	Selenium	Dissolved	=	0.4	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	4/1/2013 9:15:00 PM	Selenium	Total	=	0.6	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	4/1/2013 7:06:00 PM	Silver	Dissolved	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	4/1/2013 9:15:00 PM	Silver	Total	DNQ	0.08	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	4/1/2013 7:06:00 PM	Thallium	Dissolved	DNQ	0.01	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	4/1/2013 9:15:00 PM	Thallium	Total	DNQ	0.09	µg/L	EPA 200.8	0.034	0.2	WKL	

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	4/1/2013 7:06:00 PM	Zinc	Dissolved	=	93	µg/L	EPA 200.8	1.1	5	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	4/1/2013 9:15:00 PM	Zinc	Total	=	250	µg/L	EPA 200.8	1.1	5	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/26/2013 1:57:00 PM	Ammonia as N	n/a	=	0.76	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/11/2013 5:24:00 PM	Nitrate + Nitrite as N	n/a	=	0.81	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	4/4/2013 7:44:00 PM	Phosphorus as P	Dissolved	=	0.33	mg/L	EPA 365.1	0.0028	0.02	WKL	D
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/15/2013 2:42:00 PM	Phosphorus as P	Total	=	0.78	mg/L	EPA 365.1	0.007	0.05	WKL	D
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/21/2013 1:34:00 PM	TKN	n/a	=	4.1	mg/L	EPA 351.2	0.15	0.2	WKL	D
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/19/2013 2:14:00 AM	1,2,4-Trichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/19/2013 2:14:00 AM	1,2-Dichlorobenzene	n/a	<	0.57	µg/L	EPA 625	0.57	1	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/19/2013 2:14:00 AM	1,2-Diphenylhydrazine	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/19/2013 2:14:00 AM	1,3-Dichlorobenzene	n/a	<	0.53	µg/L	EPA 625	0.53	1	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/19/2013 2:14:00 AM	1,4-Dichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	4/9/2013 11:09:00 PM	1-Methylnaphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	4/11/2013 5:07:00 AM	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	4/11/2013 5:07:00 AM	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	4/11/2013 5:07:00 AM	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	4/11/2013 5:07:00 AM	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	4/11/2013 5:07:00 AM	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/19/2013 2:14:00 AM	2,4-Dinitrotoluene	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/19/2013 2:14:00 AM	2,6-Dinitrotoluene	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/19/2013 2:14:00 AM	2-Chloronaphthalene	n/a	<	0.45	µg/L	EPA 625	0.45	1	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	4/11/2013 5:07:00 AM	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	4/9/2013 11:09:00 PM	2-Methylnaphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	4/11/2013 5:07:00 AM	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	4/11/2013 5:07:00 AM	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/19/2013 2:14:00 AM	3,3'-Dichlorobenzidine	n/a	<	1.2	µg/L	EPA 625	1.2	5	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	4/11/2013 5:07:00 AM	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	4/11/2013 5:07:00 AM	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/19/2013 2:14:00 AM	4-Bromophenyl phenyl ether	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	4/11/2013 5:07:00 AM	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/19/2013 2:14:00 AM	4-Chlorophenyl phenyl ether	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	4/11/2013 5:07:00 AM	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	4/9/2013 11:09:00 PM	Acenaphthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	4/9/2013 11:09:00 PM	Acenaphthylene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	4/9/2013 11:09:00 PM	Anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	4/9/2013 11:09:00 PM	Benz(a)anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/19/2013 2:14:00 AM	Benzidine	n/a	<	3.7	µg/L	EPA 625	3.7	10	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/26/2013 8:19:00 PM	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	4/9/2013 11:09:00 PM	Benzo(b)fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	4/9/2013 11:09:00 PM	Benzo(g,h,i)perylene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	4/9/2013 11:09:00 PM	Benzo(k)fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/19/2013 2:14:00 AM	Bis(2-chloroethoxy)methane	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/19/2013 2:14:00 AM	Bis(2-chloroethyl)ether	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/19/2013 2:14:00 AM	Bis(2-chloroisopropyl)ether	n/a	<	0.38	µg/L	EPA 625	0.38	1	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/26/2013 8:19:00 PM	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/26/2013 8:19:00 PM	Bis(2-ethylhexyl)phthalate	n/a	=	5.8	µg/L	EPA 525.2	1.1	3	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/19/2013 2:14:00 AM	Butyl benzyl phthalate	n/a	DNQ	0.72	µg/L	EPA 625	0.18	1	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	4/9/2013 11:09:00 PM	Chrysene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	4/9/2013 11:09:00 PM	Dibenz(a,h)anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/19/2013 2:14:00 AM	Diethyl phthalate	n/a	=	1.1	µg/L	EPA 625	0.15	1	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/19/2013 2:14:00 AM	Dimethyl phthalate	n/a	DNQ	0.86	µg/L	EPA 625	0.18	1	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/19/2013 2:14:00 AM	Di-n-butylphthalate	n/a	DNQ	0.54	µg/L	EPA 625	0.24	1	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/19/2013 2:14:00 AM	Di-n-octylphthalate	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	4/9/2013 11:09:00 PM	Fluoranthene	n/a	=	0.13	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	4/9/2013 11:09:00 PM	Fluorene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/19/2013 2:14:00 AM	Hexachlorobenzene	n/a	<	0.49	µg/L	EPA 625	0.49	1	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/19/2013 2:14:00 AM	Hexachlorobutadiene	n/a	<	0.47	µg/L	EPA 625	0.47	1	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/19/2013 2:14:00 AM	Hexachlorocyclopentadiene	n/a	<	1.5	µg/L	EPA 625	1.5	5	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/19/2013 2:14:00 AM	Hexachloroethane	n/a	<	0.52	µg/L	EPA 625	0.52	1	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	4/9/2013 11:09:00 PM	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/19/2013 2:14:00 AM	Isophorone	n/a	<	0.21	µg/L	EPA 625	0.21	1	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	4/9/2013 11:09:00 PM	Naphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/19/2013 2:14:00 AM	Nitrobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/19/2013 2:14:00 AM	N-Nitrosodimethylamine	n/a	<	0.14	µg/L	EPA 625	0.14	1	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/19/2013 2:14:00 AM	N-Nitrosodi-N-propylamine	n/a	<	0.26	µg/L	EPA 625	0.26	1	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/19/2013 2:14:00 AM	N-Nitrosodiphenylamine	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	4/9/2013 11:09:00 PM	Phenanthrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	4/11/2013 5:07:00 AM	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	4/9/2013 11:09:00 PM	Pyrene	n/a	=	0.12	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/24/2013 8:03:00 AM	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/24/2013 8:03:00 AM	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/24/2013 8:03:00 AM	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/24/2013 8:03:00 AM	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/24/2013 8:03:00 AM	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/24/2013 8:03:00 AM	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/24/2013 8:03:00 AM	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/21/2013 10:51:00 PM	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/21/2013 10:51:00 PM	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/21/2013 10:51:00 PM	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/21/2013 10:51:00 PM	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/21/2013 10:51:00 PM	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/24/2013 8:03:00 AM	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/24/2013 8:03:00 AM	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/24/2013 8:03:00 AM	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/21/2013 10:51:00 PM	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/26/2013 8:19:00 PM	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/24/2013 8:03:00 AM	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/24/2013 8:03:00 AM	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/24/2013 8:03:00 AM	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/26/2013 8:19:00 PM	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/22/2013 9:08:00 PM	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	LB-LCSR
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/21/2013 10:51:00 PM	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/24/2013 8:03:00 AM	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/22/2013 9:08:00 PM	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/26/2013 8:19:00 PM	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/26/2013 8:19:00 PM	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/26/2013 8:19:00 PM	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/24/2013 8:03:00 AM	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/26/2013 8:19:00 PM	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/22/2013 9:08:00 PM	Chlorpyrifos	n/a	=	0.019	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/22/2013 9:08:00 PM	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/26/2013 8:19:00 PM	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/21/2013 10:51:00 PM	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/21/2013 10:51:00 PM	DCPA (Dacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/24/2013 8:03:00 AM	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/22/2013 9:08:00 PM	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/22/2013 9:08:00 PM	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/22/2013 9:08:00 PM	Diazinon	n/a	DNQ	0.0078	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/21/2013 10:51:00 PM	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/21/2013 10:51:00 PM	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/22/2013 9:08:00 PM	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/24/2013 8:03:00 AM	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/22/2013 9:08:00 PM	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/21/2013 10:51:00 PM	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/26/2013 8:19:00 PM	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/22/2013 9:08:00 PM	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/24/2013 8:03:00 AM	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/24/2013 8:03:00 AM	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/24/2013 8:03:00 AM	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/24/2013 8:03:00 AM	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/24/2013 8:03:00 AM	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/26/2013 8:19:00 PM	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/22/2013 9:08:00 PM	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/22/2013 9:08:00 PM	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/22/2013 9:08:00 PM	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/22/2013 9:08:00 PM	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/24/2013 8:03:00 AM	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/24/2013 8:03:00 AM	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/12/2013 4:53:00 PM	Glyphosate	n/a	=	42	µg/L	EPA 547	1.8	5	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/24/2013 8:03:00 AM	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/24/2013 8:03:00 AM	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/22/2013 9:08:00 PM	Malathion	n/a	=	0.034	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/22/2013 9:08:00 PM	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/24/2013 8:03:00 AM	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/22/2013 9:08:00 PM	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/26/2013 8:19:00 PM	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/26/2013 8:19:00 PM	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/22/2013 9:08:00 PM	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/26/2013 8:19:00 PM	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/22/2013 9:08:00 PM	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/21/2013 10:51:00 PM	Pentachlorophenol	n/a	=	0.62	µg/L	EPA 515.3	0.04	0.2	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/22/2013 9:08:00 PM	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/21/2013 10:51:00 PM	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/26/2013 8:19:00 PM	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/26/2013 8:19:00 PM	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/22/2013 9:08:00 PM	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/26/2013 8:19:00 PM	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/22/2013 9:08:00 PM	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	LB-LCSR
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/26/2013 8:19:00 PM	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/26/2013 8:19:00 PM	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/22/2013 9:08:00 PM	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/24/2013 8:03:00 AM	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/22/2013 9:08:00 PM	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-SPA	2012/13-4	Wet	3/8/2013 9:17:00 AM	3/26/2013 8:19:00 PM	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-SPA	2013-DRY	Dry	8/13/2013 9:05:00 AM	8/14/2013 9:00:00 AM	E. Coli	n/a	=	31	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-SPA	2013-DRY	Dry	8/13/2013 9:05:00 AM	8/14/2013 9:00:00 AM	Total Coliform	n/a	=	6131	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-SPA	2013-DRY	Dry	8/13/2013 9:05:00 AM	8/22/2013 12:11:00 PM	Calcium	Total	=	141	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-SPA	2013-DRY	Dry	8/13/2013 9:05:00 AM	8/22/2013 12:11:00 PM	Magnesium	Total	=	45.1	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-SPA	2013-DRY	Dry	8/13/2013 9:05:00 AM	8/13/2013 9:05:00 AM	Conductivity	n/a	=	1181	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-SPA	2013-DRY	Dry	8/13/2013 9:05:00 AM	8/13/2013 9:05:00 AM	Discharge	n/a	=	0.005	cfs	Field Estimate	-88	-88	Field Crew	
MO-SPA	2013-DRY	Dry	8/13/2013 9:05:00 AM	8/13/2013 9:05:00 AM	DO	n/a	=	8.88	mg/L	Field Meter	-88	0.3	Field Crew	
MO-SPA	2013-DRY	Dry	8/13/2013 9:05:00 AM	8/13/2013 9:05:00 AM	DO	n/a	=	96.1	%	Field Meter	-88	0.1	Field Crew	
MO-SPA	2013-DRY	Dry	8/13/2013 9:05:00 AM	8/22/2013 12:11:00 PM	Hardness as CaCO3	Total	=	537	mg/L	EPA 200.7	0.0894	0.662	WKL	
MO-SPA	2013-DRY	Dry	8/13/2013 9:05:00 AM	8/13/2013 9:05:00 AM	pH	n/a	=	8.2	pH Units	Field Meter	-88	0.01	Field Crew	
MO-SPA	2013-DRY	Dry	8/13/2013 9:05:00 AM	8/13/2013 9:05:00 AM	Salinity	n/a	=	700	mg/L	Field Meter	-88	100	Field Crew	
MO-SPA	2013-DRY	Dry	8/13/2013 9:05:00 AM	8/13/2013 9:05:00 AM	Specific Conductance	n/a	=	1338	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-SPA	2013-DRY	Dry	8/13/2013 9:05:00 AM	8/13/2013 9:05:00 AM	Temperature	n/a	=	18.9	°C	Field Meter	-88	0.1	Field Crew	
MO-SPA	2013-DRY	Dry	8/13/2013 9:05:00 AM	8/19/2013 7:05:00 PM	Total Organic Carbon	n/a	=	1.2	mg/L	SM 5310 C	0.009	0.3	WKL	
MO-SPA	2013-DRY	Dry	8/13/2013 9:05:00 AM	8/13/2013 9:05:00 AM	Turbidity	n/a	=	1.03	NTU	Field Meter	-88	0.01	Field Crew	
MO-SPA	2013-DRY	Dry	8/13/2013 9:05:00 AM	8/23/2013 11:53:00 PM	Copper	Dissolved	=	5.1	µg/L	EPA 200.8	0.036	0.5	WKL	
MO-SPA	2013-DRY	Dry	8/13/2013 9:05:00 AM	8/23/2013 11:53:00 PM	Lead	Dissolved	DNQ	0.04	µg/L	EPA 200.8	0.024	0.2	WKL	
MO-SPA	2013-DRY	Dry	8/13/2013 9:05:00 AM	8/23/2013 11:53:00 PM	Zinc	Dissolved	=	7.3	µg/L	EPA 200.8	0.5	5	WKL	
MO-THO	2012/13-2	Wet	11/17/2012 12:45:00 PM	11/18/2012 9:10:00 AM	E. Coli	n/a	=	14600	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	
MO-THO	2012/13-2	Wet	11/17/2012 12:45:00 PM	11/21/2012 3:00:00 PM	Fecal Coliform	n/a	=	28000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-THO	2012/13-2	Wet	11/17/2012 12:45:00 PM	11/18/2012 9:10:00 AM	Total Coliform	n/a	=	307600	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	
MO-THO	2012/13-2	Wet	11/17/2012 12:45:00 PM	11/17/2012 12:45:00 PM	Conductivity	n/a	=	834	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-THO	2012/13-2	Wet	11/17/2012 12:45:00 PM	12/7/2012 2:05:00 PM	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-THO	2012/13-2	Wet	11/17/2012 12:45:00 PM	11/17/2012 12:45:00 PM	DO	n/a	=	8.82	mg/L	Field Meter	-88	0.3	Field Crew	
MO-THO	2012/13-2	Wet	11/17/2012 12:45:00 PM	11/17/2012 12:45:00 PM	DO	n/a	=	94.4	%	Field Meter	-88	0.1	Field Crew	
MO-THO	2012/13-2	Wet	11/17/2012 12:45:00 PM	11/17/2012 12:45:00 PM	pH	n/a	=	8.16	pH Units	Field Meter	-88	0.01	Field Crew	
MO-THO	2012/13-2	Wet	11/17/2012 12:45:00 PM	11/17/2012 12:45:00 PM	Salinity	n/a	=	500	mg/L	Field Meter	-88	100	Field Crew	
MO-THO	2012/13-2	Wet	11/17/2012 12:45:00 PM	11/17/2012 12:45:00 PM	Specific Conductance	n/a	=	1021	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-THO	2012/13-2	Wet	11/17/2012 12:45:00 PM	11/17/2012 12:45:00 PM	Temperature	n/a	=	15.5	°C	Field Meter	-88	0.1	Field Crew	
MO-THO	2012/13-2	Wet	11/17/2012 12:45:00 PM	11/30/2012 3:45:00 PM	Oil and Grease	n/a	<	1.3	mg/L	EPA 1664A	1.3	5	WKL	
MO-THO	2012/13-2	Wet	11/17/2012 12:45:00 PM	11/30/2012 3:45:00 PM	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-THO	2012/13-2	Wet	11/17/2012 12:45:00 PM	11/27/2012 11:13:00 PM	2-Chloroethyl vinyl ether	n/a	<	0.61	µg/L	EPA 524.2	0.61	1	WKL	
MO-THO	2012/13-2	Wet	11/17/2012 12:45:00 PM	11/27/2012 11:13:00 PM	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/28/2012 12:29:00 PM	Chloride	n/a	=	190	mg/L	EPA 300.0	1	5	WKL	D
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/28/2012 12:29:00 PM	Fluoride	n/a	=	0.38	mg/L	EPA 300.0	0.04	0.2	WKL	D
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/28/2012 3:43:00 AM	Perchlorate	n/a	<	0.95	µg/L	EPA 314.0	0.95	2	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/28/2012 12:48:00 PM	Calcium	Total	=	120	mg/L	EPA 200.7	0.0156	0.1	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/28/2012 12:48:00 PM	Magnesium	Total	=	85.3	mg/L	EPA 200.7	0.0121	0.1	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/30/2012 4:45:00 PM	Alkalinity as CaCO3	n/a	=	130	mg/L	SM 2320 B	0.56	2	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/24/2012 12:30:00 PM	BOD	n/a	=	24	mg/L	SM 5210 B	0.1	2	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/27/2012 9:06:00 AM	COD	n/a	=	130	mg/L	EPA 410.4	0.73	5	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/28/2012 12:48:00 PM	Hardness as CaCO3	Total	=	651	mg/L	EPA 200.7	0.0885	0.662	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/19/2012 9:46:00 PM	MBAS	n/a	=	0.1	mg/L	SM 5540 C	0.038	0.1	WKL	D
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/30/2012 3:02:00 PM	Phenolics	n/a	DNQ	0.0084	mg/L	EPA 420.4	0.0042	0.01	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/30/2012 11:00:00 AM	Specific Conductance	n/a	=	1600	µmhos/cm	SM 2510 B	0.47	4	WKL	D
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/21/2012 11:58:00 AM	Total Dissolved Solids	n/a	=	980	mg/L	SM 2540 C	4	10	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/26/2012 10:48:00 AM	Total Organic Carbon	n/a	=	17	mg/L	SM 5310 C	0.09	3	WKL	D
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/20/2012 7:20:00 PM	Total Suspended Solids	n/a	=	230	mg/L	SM 2540 D	5	5	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/19/2012 10:13:00 PM	Turbidity	n/a	=	21	NTU	EPA 180.1	0.024	0.1	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/20/2012 7:20:00 PM	Volatile Suspended Solids	n/a	=	59	mg/L	EPA 160.4	3.1	5	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	12/3/2012 7:35:00 PM	Aluminum	Dissolved	DNQ	3.4	µg/L	EPA 200.8	0.61	5	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	12/3/2012 7:43:00 PM	Aluminum	Total	=	4800	µg/L	EPA 200.8	0.61	5	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	12/3/2012 7:35:00 PM	Antimony	Dissolved	=	0.62	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	12/3/2012 7:43:00 PM	Antimony	Total	=	0.74	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	12/3/2012 7:35:00 PM	Arsenic	Dissolved	=	3.1	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	12/3/2012 7:43:00 PM	Arsenic	Total	=	4.9	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	12/3/2012 7:35:00 PM	Beryllium	Dissolved	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	12/3/2012 7:43:00 PM	Beryllium	Total	=	0.17	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	12/3/2012 7:35:00 PM	Cadmium	Dissolved	DNQ	0.03	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	12/3/2012 7:43:00 PM	Cadmium	Total	=	0.6	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	12/3/2012 7:35:00 PM	Chromium	Dissolved	DNQ	0.15	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	12/3/2012 7:43:00 PM	Chromium	Total	=	16	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	12/3/2012 7:33:00 PM	Chromium VI	n/a	DNQ	0.15	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	12/3/2012 7:35:00 PM	Copper	Dissolved	=	2.8	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	12/3/2012 7:43:00 PM	Copper	Total	=	30	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/28/2012 12:46:00 PM	Iron	Dissolved	=	64	µg/L	EPA 200.7	1.1	10	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/28/2012 12:48:00 PM	Iron	Total	=	8300	µg/L	EPA 200.7	1.1	10	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	12/3/2012 7:35:00 PM	Lead	Dissolved	DNQ	0.12	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	12/3/2012 7:43:00 PM	Lead	Total	=	5.6	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	12/5/2012 4:54:00 PM	Mercury	Dissolved	DNQ	9	ng/L	EPA 245.1	3.9	50	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	12/5/2012 4:54:00 PM	Mercury	Total	DNQ	45	ng/L	EPA 245.1	3.9	50	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	12/3/2012 7:35:00 PM	Nickel	Dissolved	=	3.2	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	12/3/2012 7:43:00 PM	Nickel	Total	=	20	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	12/3/2012 7:35:00 PM	Selenium	Dissolved	=	1.5	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	12/3/2012 7:43:00 PM	Selenium	Total	=	3.6	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	12/3/2012 7:35:00 PM	Silver	Dissolved	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	12/3/2012 7:43:00 PM	Silver	Total	DNQ	0.13	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	12/3/2012 7:35:00 PM	Thallium	Dissolved	<	0.009	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	12/3/2012 7:43:00 PM	Thallium	Total	DNQ	0.03	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	12/3/2012 7:35:00 PM	Zinc	Dissolved	DNQ	4.3	µg/L	EPA 200.8	1.1	5	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	12/3/2012 7:43:00 PM	Zinc	Total	=	79	µg/L	EPA 200.8	1.1	5	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	12/5/2012 5:47:00 PM	Ammonia as N	n/a	=	0.68	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/19/2012 7:10:00 PM	Nitrate + Nitrite as N	n/a	=	1.6	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	12/14/2012 12:45:00 PM	Phosphorus as P	Dissolved	=	0.18	mg/L	EPA 365.1	0.0014	0.01	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	12/14/2012 12:13:00 PM	Phosphorus as P	Total	=	0.71	mg/L	EPA 365.1	0.014	0.1	WKL	D, DG
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/28/2012 4:24:00 PM	TKN	n/a	=	5.2	mg/L	EPA 351.2	0.15	0.2	WKL	D

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/28/2012 4:06:00 AM	1,2,4-Trichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/28/2012 4:06:00 AM	1,2-Dichlorobenzene	n/a	<	0.57	µg/L	EPA 625	0.57	1	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/28/2012 4:06:00 AM	1,2-Diphenylhydrazine	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/28/2012 4:06:00 AM	1,3-Dichlorobenzene	n/a	<	0.53	µg/L	EPA 625	0.53	1	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/28/2012 4:06:00 AM	1,4-Dichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/29/2012 5:53:00 AM	1-Methylnaphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/29/2012 9:57:00 PM	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/29/2012 9:57:00 PM	2,4,6-Trichlorophenol	n/a	DNQ	0.32	µg/L	EPA 8270Cm	0.3	1	WKL	EUM
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/29/2012 9:57:00 PM	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/29/2012 9:57:00 PM	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/29/2012 9:57:00 PM	2,4-Dinitrophenol	n/a	DNQ	1.1	µg/L	EPA 8270Cm	1	2	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/28/2012 4:06:00 AM	2,4-Dinitrotoluene	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/28/2012 4:06:00 AM	2,6-Dinitrotoluene	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/28/2012 4:06:00 AM	2-Chloronaphthalene	n/a	<	0.45	µg/L	EPA 625	0.45	1	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/29/2012 9:57:00 PM	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	EUM, GB
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/29/2012 5:53:00 AM	2-Methylnaphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/29/2012 9:57:00 PM	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/29/2012 9:57:00 PM	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/28/2012 4:06:00 AM	3,3'-Dichlorobenzidine	n/a	<	1.2	µg/L	EPA 625	1.2	5	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/29/2012 9:57:00 PM	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/29/2012 9:57:00 PM	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/28/2012 4:06:00 AM	4-Bromophenyl phenyl ether	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/29/2012 9:57:00 PM	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/28/2012 4:06:00 AM	4-Chlorophenyl phenyl ether	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/29/2012 9:57:00 PM	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/29/2012 5:53:00 AM	Acenaphthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	EUM, GB
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/29/2012 5:53:00 AM	Acenaphthylene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/29/2012 5:53:00 AM	Anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/29/2012 5:53:00 AM	Benz(a)anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	GB, IL
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/28/2012 4:06:00 AM	Benzidine	n/a	<	3.7	µg/L	EPA 625	3.7	10	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	12/4/2012 3:28:00 PM	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/29/2012 5:53:00 AM	Benzo(b)fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/29/2012 5:53:00 AM	Benzo(g,h,i)perylene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/29/2012 5:53:00 AM	Benzo(k)fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/28/2012 4:06:00 AM	Bis(2-chloroethoxy)methane	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/28/2012 4:06:00 AM	Bis(2-chloroethyl)ether	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/28/2012 4:06:00 AM	Bis(2-chloroisopropyl)ether	n/a	<	0.38	µg/L	EPA 625	0.38	1	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	12/4/2012 3:28:00 PM	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	12/4/2012 3:28:00 PM	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/28/2012 4:06:00 AM	Butyl benzyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/29/2012 5:53:00 AM	Chrysene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/29/2012 5:53:00 AM	Dibenz(a,h)anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/28/2012 4:06:00 AM	Diethyl phthalate	n/a	<	0.15	µg/L	EPA 625	0.15	1	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/28/2012 4:06:00 AM	Dimethyl phthalate	n/a	=	10	µg/L	EPA 625	0.18	1	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/28/2012 4:06:00 AM	Di-n-butylphthalate	n/a	<	0.24	µg/L	EPA 625	0.24	1	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/28/2012 4:06:00 AM	Di-n-octylphthalate	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/29/2012 5:53:00 AM	Fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/29/2012 5:53:00 AM	Fluorene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	EUM, GB

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/28/2012 4:06:00 AM	Hexachlorobenzene	n/a	<	0.49	µg/L	EPA 625	0.49	1	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/28/2012 4:06:00 AM	Hexachlorobutadiene	n/a	<	0.47	µg/L	EPA 625	0.47	1	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/28/2012 4:06:00 AM	Hexachlorocyclopentadiene	n/a	<	1.5	µg/L	EPA 625	1.5	5	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/28/2012 4:06:00 AM	Hexachloroethane	n/a	<	0.52	µg/L	EPA 625	0.52	1	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/29/2012 5:53:00 AM	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/28/2012 4:06:00 AM	Isophorone	n/a	<	0.21	µg/L	EPA 625	0.21	1	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/29/2012 5:53:00 AM	Naphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/28/2012 4:06:00 AM	Nitrobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/28/2012 4:06:00 AM	N-Nitrosodimethylamine	n/a	<	0.14	µg/L	EPA 625	0.14	1	WKL	EUM
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/28/2012 4:06:00 AM	N-Nitrosodi-N-propylamine	n/a	<	0.26	µg/L	EPA 625	0.26	1	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/28/2012 4:06:00 AM	N-Nitrosodiphenylamine	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/29/2012 5:53:00 AM	Phenanthrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	EUM, GB
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/29/2012 9:57:00 PM	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/29/2012 5:53:00 AM	Pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	EUM, GB
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/28/2012 6:03:00 AM	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/28/2012 6:03:00 AM	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/28/2012 6:03:00 AM	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/28/2012 6:03:00 AM	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/28/2012 6:03:00 AM	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/28/2012 6:03:00 AM	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/28/2012 6:03:00 AM	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	12/2/2012 3:32:00 AM	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	12/2/2012 3:32:00 AM	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	12/2/2012 3:32:00 AM	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	12/2/2012 3:32:00 AM	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	12/2/2012 3:32:00 AM	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/28/2012 6:03:00 AM	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/28/2012 6:03:00 AM	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/28/2012 6:03:00 AM	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	12/2/2012 3:32:00 AM	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	12/4/2012 3:28:00 PM	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/28/2012 6:03:00 AM	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/28/2012 6:03:00 AM	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/28/2012 6:03:00 AM	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	12/4/2012 3:28:00 PM	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	12/13/2012 2:49:00 PM	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	EUM
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	12/2/2012 3:32:00 AM	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/28/2012 6:03:00 AM	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	12/13/2012 2:49:00 PM	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	12/4/2012 3:28:00 PM	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	12/4/2012 3:28:00 PM	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	12/4/2012 3:28:00 PM	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/28/2012 6:03:00 AM	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	12/4/2012 3:28:00 PM	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	12/13/2012 2:49:00 PM	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	12/13/2012 2:49:00 PM	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	12/4/2012 3:28:00 PM	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	12/2/2012 3:32:00 AM	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	12/2/2012 3:32:00 AM	DCPA (Dacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/28/2012 6:03:00 AM	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	12/13/2012 2:49:00 PM	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	12/13/2012 2:49:00 PM	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	12/13/2012 2:49:00 PM	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	12/2/2012 3:32:00 AM	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	12/2/2012 3:32:00 AM	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	12/13/2012 2:49:00 PM	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/28/2012 6:03:00 AM	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	12/13/2012 2:49:00 PM	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	12/2/2012 3:32:00 AM	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	12/4/2012 3:28:00 PM	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	12/13/2012 2:49:00 PM	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/28/2012 6:03:00 AM	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/28/2012 6:03:00 AM	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/28/2012 6:03:00 AM	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/28/2012 6:03:00 AM	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/28/2012 6:03:00 AM	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	12/4/2012 3:28:00 PM	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	12/13/2012 2:49:00 PM	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	12/13/2012 2:49:00 PM	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	12/13/2012 2:49:00 PM	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	12/13/2012 2:49:00 PM	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/28/2012 6:03:00 AM	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/28/2012 6:03:00 AM	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/28/2012 6:40:00 PM	Glyphosate	n/a	=	6.5	µg/L	EPA 547	1.8	5	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/28/2012 6:03:00 AM	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/28/2012 6:03:00 AM	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	12/13/2012 2:49:00 PM	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	12/13/2012 2:49:00 PM	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/28/2012 6:03:00 AM	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	12/13/2012 2:49:00 PM	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	12/4/2012 3:28:00 PM	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	12/4/2012 3:28:00 PM	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	12/13/2012 2:49:00 PM	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	12/4/2012 3:28:00 PM	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	12/13/2012 2:49:00 PM	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.1	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	12/2/2012 3:32:00 AM	Pentachlorophenol	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.2	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	12/13/2012 2:49:00 PM	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	12/2/2012 3:32:00 AM	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	12/4/2012 3:28:00 PM	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	12/4/2012 3:28:00 PM	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	12/13/2012 2:49:00 PM	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	12/4/2012 3:28:00 PM	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	12/13/2012 2:49:00 PM	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	12/4/2012 3:28:00 PM	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	12/4/2012 3:28:00 PM	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	12/13/2012 2:49:00 PM	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	11/28/2012 6:03:00 AM	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	12/13/2012 2:49:00 PM	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-THO	2012/13-2	Wet	11/18/2012 9:30:00 AM	12/4/2012 3:28:00 PM	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-THO	2012/13-3	Wet	2/19/2013 9:40:00 PM	2/20/2013 6:30:00 PM	E. Coli	n/a	=	3654	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-THO	2012/13-3	Wet	2/19/2013 9:40:00 PM	2/23/2013 11:01:00 PM	Fecal Coliform	n/a	=	3000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-THO	2012/13-3	Wet	2/19/2013 9:40:00 PM	2/20/2013 6:30:00 PM	Total Coliform	n/a	=	60900	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	
MO-THO	2012/13-3	Wet	2/19/2013 9:40:00 PM	2/19/2013 9:40:00 PM	Conductivity	n/a	=	1079	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-THO	2012/13-3	Wet	2/19/2013 9:40:00 PM	3/8/2013 9:39:00 PM	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-THO	2012/13-3	Wet	2/19/2013 9:40:00 PM	2/19/2013 9:40:00 PM	DO	n/a	=	9.83	mg/L	Field Meter	-88	0.3	Field Crew	
MO-THO	2012/13-3	Wet	2/19/2013 9:40:00 PM	2/19/2013 9:40:00 PM	DO	n/a	=	90.1	%	Field Meter	-88	0.1	Field Crew	
MO-THO	2012/13-3	Wet	2/19/2013 9:40:00 PM	2/19/2013 9:40:00 PM	pH	n/a	=	8.42	pH Units	Field Meter	-88	0.01	Field Crew	
MO-THO	2012/13-3	Wet	2/19/2013 9:40:00 PM	2/19/2013 9:40:00 PM	Salinity	n/a	=	700	mg/L	Field Meter	-88	100	Field Crew	
MO-THO	2012/13-3	Wet	2/19/2013 9:40:00 PM	2/19/2013 9:40:00 PM	Specific Conductance	n/a	=	1457	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-THO	2012/13-3	Wet	2/19/2013 9:40:00 PM	2/19/2013 9:40:00 PM	Temperature	n/a	=	11.3	°C	Field Meter	-88	0.1	Field Crew	
MO-THO	2012/13-3	Wet	2/19/2013 9:40:00 PM	3/4/2013 6:09:00 PM	Oil and Grease	n/a	DNQ	2.3	mg/L	EPA 1664A	1.3	5	WKL	
MO-THO	2012/13-3	Wet	2/19/2013 9:40:00 PM	3/4/2013 6:09:00 PM	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-THO	2012/13-3	Wet	2/19/2013 9:40:00 PM	2/28/2013 7:43:00 AM	2-Chloroethyl vinyl ether	n/a	<	0.61	µg/L	EPA 524.2	0.61	1	WKL	
MO-THO	2012/13-3	Wet	2/19/2013 9:40:00 PM	2/28/2013 7:43:00 AM	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	2/28/2013 12:03:00 PM	Chloride	n/a	=	190	mg/L	EPA 300.0	1	5	WKL	D
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	2/28/2013 12:03:00 PM	Fluoride	n/a	=	0.28	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/1/2013 7:35:00 AM	Perchlorate	n/a	<	0.95	µg/L	EPA 314.0	0.95	2	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	2/25/2013 2:22:00 PM	Calcium	Total	=	111	mg/L	EPA 200.7	0.0156	0.1	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	2/25/2013 2:22:00 PM	Magnesium	Total	=	83.4	mg/L	EPA 200.7	0.0121	0.1	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	2/25/2013 10:23:00 PM	Alkalinity as CaCO3	n/a	=	250	mg/L	SM 2320 B	0.56	2	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	2/27/2013 11:44:00 AM	BOD	n/a	=	13	mg/L	SM 5210 B	0.1	2	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/2/2013 4:05:00 PM	COD	n/a	=	110	mg/L	EPA 410.4	0.73	5	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	2/25/2013 2:22:00 PM	Hardness as CaCO3	Total	=	620	mg/L	EPA 200.7	0.0885	0.662	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	2/21/2013 9:38:00 PM	MBAS	n/a	=	0.079	mg/L	SM 5540 C	0.019	0.05	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/4/2013 1:32:00 PM	Phenolics	n/a	=	0.031	mg/L	EPA 420.4	0.0042	0.01	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/4/2013 7:13:00 PM	Specific Conductance	n/a	=	1700	µmhos/cm	SM 2510 B	0.47	4	WKL	D
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	2/26/2013 4:20:00 PM	Total Dissolved Solids	n/a	=	980	mg/L	SM 2540 C	4	10	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/4/2013 10:20:00 AM	Total Organic Carbon	n/a	=	8.4	mg/L	SM 5310 C	0.036	1.2	WKL	D
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	2/26/2013 8:27:00 PM	Total Suspended Solids	n/a	=	370	mg/L	SM 2540 D	5	5	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	2/21/2013 7:26:00 PM	Turbidity	n/a	=	14	NTU	EPA 180.1	0.024	0.1	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	2/26/2013 8:27:00 PM	Volatile Suspended Solids	n/a	=	65	mg/L	EPA 160.4	3.1	5	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/5/2013 5:08:00 PM	Aluminum	Dissolved	DNQ	4.9	µg/L	EPA 200.8	0.61	5	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/5/2013 5:16:00 PM	Aluminum	Total	=	4300	µg/L	EPA 200.8	2.1	5	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/5/2013 5:08:00 PM	Antimony	Dissolved	DNQ	0.3	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/5/2013 5:16:00 PM	Antimony	Total	=	0.57	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/5/2013 5:08:00 PM	Arsenic	Dissolved	=	2.4	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/5/2013 5:16:00 PM	Arsenic	Total	=	4	µg/L	EPA 200.8	0.13	0.4	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/5/2013 5:08:00 PM	Beryllium	Dissolved	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/5/2013 5:16:00 PM	Beryllium	Total	=	0.12	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/5/2013 5:08:00 PM	Cadmium	Dissolved	DNQ	0.03	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/5/2013 5:16:00 PM	Cadmium	Total	=	0.47	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/5/2013 5:08:00 PM	Chromium	Dissolved	=	0.37	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/5/2013 5:16:00 PM	Chromium	Total	=	13	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/4/2013 9:56:00 AM	Chromium VI	n/a	DNQ	0.25	µg/L	EPA 218.6	0.0059	0.3	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/5/2013 5:08:00 PM	Copper	Dissolved	=	1.8	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/5/2013 5:16:00 PM	Copper	Total	=	19	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	2/25/2013 2:19:00 PM	Iron	Dissolved	=	25	µg/L	EPA 200.7	1.1	10	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	2/25/2013 2:22:00 PM	Iron	Total	=	6100	µg/L	EPA 200.7	1.1	10	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/5/2013 5:08:00 PM	Lead	Dissolved	<	0.011	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/5/2013 5:16:00 PM	Lead	Total	=	4.9	µg/L	EPA 200.8	0.035	0.2	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/5/2013 7:28:00 PM	Mercury	Dissolved	DNQ	8	ng/L	EPA 245.1	3.9	50	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/5/2013 7:28:00 PM	Mercury	Total	DNQ	34	ng/L	EPA 245.1	3.9	50	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/5/2013 5:08:00 PM	Nickel	Dissolved	=	1.7	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/5/2013 5:16:00 PM	Nickel	Total	=	14	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/5/2013 5:08:00 PM	Selenium	Dissolved	=	2.3	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/5/2013 5:16:00 PM	Selenium	Total	=	3.4	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/5/2013 5:08:00 PM	Silver	Dissolved	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/5/2013 5:16:00 PM	Silver	Total	DNQ	0.05	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/5/2013 5:08:00 PM	Thallium	Dissolved	<	0.009	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/5/2013 5:16:00 PM	Thallium	Total	DNQ	0.06	µg/L	EPA 200.8	0.034	0.2	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/5/2013 5:08:00 PM	Zinc	Dissolved	DNQ	4.2	µg/L	EPA 200.8	1.1	5	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/5/2013 5:16:00 PM	Zinc	Total	=	77	µg/L	EPA 200.8	1.1	5	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/12/2013 6:51:00 PM	Ammonia as N	n/a	=	0.24	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	2/21/2013 8:46:00 PM	Nitrate + Nitrite as N	n/a	=	1	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/14/2013 4:09:00 PM	Phosphorus as P	Dissolved	=	0.12	mg/L	EPA 365.1	0.0014	0.01	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/14/2013 1:46:00 PM	Phosphorus as P	Total	=	0.57	mg/L	EPA 365.1	0.014	0.1	WKL	D
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/12/2013 10:15:00 PM	TKN	n/a	=	3.5	mg/L	EPA 351.2	0.074	0.1	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/6/2013 11:20:00 PM	1,2,4-Trichlorobenzene	n/a	<	5.5	µg/L	EPA 625	5.5	10	WKL	D
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/6/2013 11:20:00 PM	1,2-Dichlorobenzene	n/a	<	5.7	µg/L	EPA 625	5.7	10	WKL	D
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/6/2013 11:20:00 PM	1,2-Diphenylhydrazine	n/a	<	2.5	µg/L	EPA 625	2.5	10	WKL	D
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/6/2013 11:20:00 PM	1,3-Dichlorobenzene	n/a	<	5.3	µg/L	EPA 625	5.3	10	WKL	D
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/6/2013 11:20:00 PM	1,4-Dichlorobenzene	n/a	<	5.5	µg/L	EPA 625	5.5	10	WKL	D
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/21/2013 9:55:00 AM	1-Methylnaphthalene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/21/2013 12:56:00 AM	2,4,5-Trichlorophenol	n/a	<	2.9	µg/L	EPA 8270Cm	2.9	10	WKL	D
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/21/2013 12:56:00 AM	2,4,6-Trichlorophenol	n/a	<	3	µg/L	EPA 8270Cm	3	10	WKL	D
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/21/2013 12:56:00 AM	2,4-Dichlorophenol	n/a	<	5.1	µg/L	EPA 8270Cm	5.1	10	WKL	D
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/21/2013 12:56:00 AM	2,4-Dimethylphenol	n/a	<	10	µg/L	EPA 8270Cm	10	20	WKL	D
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/21/2013 12:56:00 AM	2,4-Dinitrophenol	n/a	<	10	µg/L	EPA 8270Cm	10	20	WKL	D
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/6/2013 11:20:00 PM	2,4-Dinitrotoluene	n/a	<	1.8	µg/L	EPA 625	1.8	10	WKL	D
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/6/2013 11:20:00 PM	2,6-Dinitrotoluene	n/a	<	2.7	µg/L	EPA 625	2.7	10	WKL	D
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/6/2013 11:20:00 PM	2-Chloronaphthalene	n/a	<	4.5	µg/L	EPA 625	4.5	10	WKL	D
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/21/2013 12:56:00 AM	2-Chlorophenol	n/a	<	6.5	µg/L	EPA 8270Cm	6.5	10	WKL	D
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/21/2013 9:55:00 AM	2-Methylnaphthalene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/21/2013 12:56:00 AM	2-Methylphenol	n/a	<	3.4	µg/L	EPA 8270Cm	3.4	10	WKL	D
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/21/2013 12:56:00 AM	2-Nitrophenol	n/a	<	7.1	µg/L	EPA 8270Cm	7.1	10	WKL	D
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/6/2013 11:20:00 PM	3,3'-Dichlorobenzidine	n/a	<	12	µg/L	EPA 625	12	50	WKL	D
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/21/2013 12:56:00 AM	3-/4-Methylphenol	n/a	<	3	µg/L	EPA 8270Cm	3	10	WKL	D
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/21/2013 12:56:00 AM	4,6-Dinitro-2-methylphenol	n/a	<	1.4	µg/L	EPA 8270Cm	1.4	10	WKL	D
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/6/2013 11:20:00 PM	4-Bromophenyl phenyl ether	n/a	<	3.6	µg/L	EPA 625	3.6	10	WKL	D
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/21/2013 12:56:00 AM	4-Chloro-3-methylphenol	n/a	<	3.7	µg/L	EPA 8270Cm	3.7	10	WKL	D
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/6/2013 11:20:00 PM	4-Chlorophenyl phenyl ether	n/a	<	4.1	µg/L	EPA 625	4.1	10	WKL	D
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/21/2013 12:56:00 AM	4-Nitrophenol	n/a	<	10	µg/L	EPA 8270Cm	10	20	WKL	D

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/21/2013 9:55:00 AM	Acenaphthene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/21/2013 9:55:00 AM	Acenaphthylene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/21/2013 9:55:00 AM	Anthracene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/21/2013 9:55:00 AM	Benz(a)anthracene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/6/2013 11:20:00 PM	Benzidine	n/a	<	37	µg/L	EPA 625	37	100	WKL	D
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/15/2013 4:10:00 AM	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/21/2013 9:55:00 AM	Benzo(b)fluoranthene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/21/2013 9:55:00 AM	Benzo(g,h,i)perylene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/21/2013 9:55:00 AM	Benzo(k)fluoranthene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/6/2013 11:20:00 PM	Bis(2-chloroethoxy)methane	n/a	<	2.5	µg/L	EPA 625	2.5	10	WKL	D
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/6/2013 11:20:00 PM	Bis(2-chloroethyl)ether	n/a	<	2.7	µg/L	EPA 625	2.7	10	WKL	D
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/6/2013 11:20:00 PM	Bis(2-chloroisopropyl)ether	n/a	<	3.8	µg/L	EPA 625	3.8	10	WKL	D
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/15/2013 4:10:00 AM	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/15/2013 4:10:00 AM	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/6/2013 11:20:00 PM	Butyl benzyl phthalate	n/a	<	1.8	µg/L	EPA 625	1.8	10	WKL	D
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/21/2013 9:55:00 AM	Chrysene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/21/2013 9:55:00 AM	Dibenz(a,h)anthracene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/6/2013 11:20:00 PM	Diethyl phthalate	n/a	<	1.5	µg/L	EPA 625	1.5	10	WKL	D
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/6/2013 11:20:00 PM	Dimethyl phthalate	n/a	=	10	µg/L	EPA 625	1.8	10	WKL	D
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/6/2013 11:20:00 PM	Di-n-butylphthalate	n/a	<	2.4	µg/L	EPA 625	2.4	10	WKL	D
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/6/2013 11:20:00 PM	Di-n-octylphthalate	n/a	<	1.9	µg/L	EPA 625	1.9	10	WKL	D
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/21/2013 9:55:00 AM	Fluoranthene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/21/2013 9:55:00 AM	Fluorene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/6/2013 11:20:00 PM	Hexachlorobenzene	n/a	<	4.9	µg/L	EPA 625	4.9	10	WKL	D
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/6/2013 11:20:00 PM	Hexachlorobutadiene	n/a	<	4.7	µg/L	EPA 625	4.7	10	WKL	D
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/6/2013 11:20:00 PM	Hexachlorocyclopentadiene	n/a	<	15	µg/L	EPA 625	15	50	WKL	D
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/6/2013 11:20:00 PM	Hexachloroethane	n/a	<	5.2	µg/L	EPA 625	5.2	10	WKL	D
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/21/2013 9:55:00 AM	Indeno(1,2,3-cd)pyrene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/6/2013 11:20:00 PM	Isophorone	n/a	<	2.1	µg/L	EPA 625	2.1	10	WKL	D
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/21/2013 9:55:00 AM	Naphthalene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/6/2013 11:20:00 PM	Nitrobenzene	n/a	<	3.6	µg/L	EPA 625	3.6	10	WKL	D
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/6/2013 11:20:00 PM	N-Nitrosodimethylamine	n/a	<	1.4	µg/L	EPA 625	1.4	10	WKL	D
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/6/2013 11:20:00 PM	N-Nitrosodi-N-propylamine	n/a	<	2.6	µg/L	EPA 625	2.6	10	WKL	D
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/6/2013 11:20:00 PM	N-Nitrosodiphenylamine	n/a	<	1.9	µg/L	EPA 625	1.9	10	WKL	D
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/21/2013 9:55:00 AM	Phenanthrene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/21/2013 12:56:00 AM	Phenol	n/a	<	3.5	µg/L	EPA 8270Cm	3.5	10	WKL	D
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/21/2013 9:55:00 AM	Pyrene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/14/2013 3:29:00 AM	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/14/2013 3:29:00 AM	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/14/2013 3:29:00 AM	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/14/2013 3:29:00 AM	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/14/2013 3:29:00 AM	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/14/2013 3:29:00 AM	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/14/2013 3:29:00 AM	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	2/26/2013 7:30:00 PM	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	2/26/2013 7:30:00 PM	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	2/26/2013 7:30:00 PM	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	2/26/2013 7:30:00 PM	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	2/26/2013 7:30:00 PM	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/14/2013 3:29:00 AM	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/14/2013 3:29:00 AM	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/14/2013 3:29:00 AM	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	2/26/2013 7:30:00 PM	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/15/2013 4:10:00 AM	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/14/2013 3:29:00 AM	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/14/2013 3:29:00 AM	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/14/2013 3:29:00 AM	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/15/2013 4:10:00 AM	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/13/2013 8:00:00 PM	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	EUM
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	2/26/2013 7:30:00 PM	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/14/2013 3:29:00 AM	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/13/2013 8:00:00 PM	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/15/2013 4:10:00 AM	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/15/2013 4:10:00 AM	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/15/2013 4:10:00 AM	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/14/2013 3:29:00 AM	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/15/2013 4:10:00 AM	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/13/2013 8:00:00 PM	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/13/2013 8:00:00 PM	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/15/2013 4:10:00 AM	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	2/26/2013 7:30:00 PM	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	2/26/2013 7:30:00 PM	DCPA (Dacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/14/2013 3:29:00 AM	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/13/2013 8:00:00 PM	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/13/2013 8:00:00 PM	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/13/2013 8:00:00 PM	Diazinon	n/a	=	0.011	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	2/26/2013 7:30:00 PM	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	2/26/2013 7:30:00 PM	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/13/2013 8:00:00 PM	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/14/2013 3:29:00 AM	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/13/2013 8:00:00 PM	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	2/26/2013 7:30:00 PM	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/15/2013 4:10:00 AM	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/13/2013 8:00:00 PM	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/14/2013 3:29:00 AM	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/14/2013 3:29:00 AM	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/14/2013 3:29:00 AM	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/14/2013 3:29:00 AM	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/14/2013 3:29:00 AM	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/15/2013 4:10:00 AM	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/13/2013 8:00:00 PM	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/13/2013 8:00:00 PM	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/13/2013 8:00:00 PM	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/13/2013 8:00:00 PM	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/14/2013 3:29:00 AM	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/14/2013 3:29:00 AM	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	2/25/2013 5:50:00 PM	Glyphosate	n/a	=	9	µg/L	EPA 547	1.8	5	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/14/2013 3:29:00 AM	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/14/2013 3:29:00 AM	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/13/2013 8:00:00 PM	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/13/2013 8:00:00 PM	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/14/2013 3:29:00 AM	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/13/2013 8:00:00 PM	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/15/2013 4:10:00 AM	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/15/2013 4:10:00 AM	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/13/2013 8:00:00 PM	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/15/2013 4:10:00 AM	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/13/2013 8:00:00 PM	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	2/26/2013 7:30:00 PM	Pentachlorophenol	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.2	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/13/2013 8:00:00 PM	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	2/26/2013 7:30:00 PM	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/15/2013 4:10:00 AM	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/15/2013 4:10:00 AM	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/13/2013 8:00:00 PM	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/15/2013 4:10:00 AM	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/13/2013 8:00:00 PM	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/15/2013 4:10:00 AM	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/15/2013 4:10:00 AM	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/13/2013 8:00:00 PM	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/14/2013 3:29:00 AM	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/13/2013 8:00:00 PM	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-THO	2012/13-3	Wet	2/20/2013 11:40:00 AM	3/15/2013 4:10:00 AM	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-THO	2012/13-4	Wet	3/7/2013 10:27:00 PM	3/8/2013 11:02:00 PM	E. Coli	n/a	=	408	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-THO	2012/13-4	Wet	3/7/2013 10:27:00 PM	3/12/2013 3:15:00 AM	Fecal Coliform	n/a	=	460	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-THO	2012/13-4	Wet	3/7/2013 10:27:00 PM	3/8/2013 11:02:00 PM	Total Coliform	n/a	=	4884	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-THO	2012/13-4	Wet	3/7/2013 10:27:00 PM	3/7/2013 10:27:00 PM	Conductivity	n/a	=	1343	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-THO	2012/13-4	Wet	3/7/2013 10:27:00 PM	3/22/2013 2:06:00 PM	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-THO	2012/13-4	Wet	3/7/2013 10:27:00 PM	3/7/2013 10:27:00 PM	DO	n/a	=	64.5	%	Field Meter	-88	0.1	Field Crew	
MO-THO	2012/13-4	Wet	3/7/2013 10:27:00 PM	3/7/2013 10:27:00 PM	DO	n/a	=	6.89	mg/L	Field Meter	-88	0.3	Field Crew	
MO-THO	2012/13-4	Wet	3/7/2013 10:27:00 PM	3/7/2013 10:27:00 PM	pH	n/a	=	8.45	pH Units	Field Meter	-88	0.01	Field Crew	
MO-THO	2012/13-4	Wet	3/7/2013 10:27:00 PM	3/7/2013 10:27:00 PM	Salinity	n/a	=	900	mg/L	Field Meter	-88	100	Field Crew	
MO-THO	2012/13-4	Wet	3/7/2013 10:27:00 PM	3/7/2013 10:27:00 PM	Specific Conductance	n/a	=	1775	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-THO	2012/13-4	Wet	3/7/2013 10:27:00 PM	3/7/2013 10:27:00 PM	Temperature	n/a	=	12.2	°C	Field Meter	-88	0.1	Field Crew	
MO-THO	2012/13-4	Wet	3/7/2013 10:27:00 PM	3/14/2013 3:00:00 PM	Oil and Grease	n/a	<	1.3	mg/L	EPA 1664A	1.3	5	WKL	
MO-THO	2012/13-4	Wet	3/7/2013 10:27:00 PM	3/14/2013 3:00:00 PM	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-THO	2012/13-4	Wet	3/7/2013 10:27:00 PM	3/11/2013 9:27:00 PM	2-Chloroethyl vinyl ether	n/a	<	0.61	µg/L	EPA 524.2	0.61	1	WKL	
MO-THO	2012/13-4	Wet	3/7/2013 10:27:00 PM	3/11/2013 9:27:00 PM	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/19/2013 8:50:00 PM	Chloride	n/a	=	81	mg/L	EPA 300.0	1	5	WKL	D
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/19/2013 8:50:00 PM	Fluoride	n/a	=	0.19	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/19/2013 5:42:00 PM	Perchlorate	n/a	<	0.95	µg/L	EPA 314.0	0.95	2	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/14/2013 2:35:00 PM	Calcium	Total	=	61.9	mg/L	EPA 200.7	0.0156	0.1	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/14/2013 2:35:00 PM	Magnesium	Total	=	40.5	mg/L	EPA 200.7	0.0121	0.1	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/22/2013 10:05:00 AM	Alkalinity as CaCO3	n/a	=	160	mg/L	SM 2320 B	0.56	10	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/14/2013 2:00:00 PM	BOD	n/a	=	15	mg/L	SM 5210 B	0.1	2	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/20/2013 10:56:00 PM	COD	n/a	=	100	mg/L	EPA 410.4	0.73	5	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/14/2013 2:35:00 PM	Hardness as CaCO3	Total	=	321	mg/L	EPA 200.7	0.0885	0.662	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/9/2013 8:43:00 PM	MBAS	n/a	DNQ	0.099	mg/L	SM 5540 C	0.038	0.1	WKL	D
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	4/3/2013 4:41:00 PM	Phenolics	n/a	=	0.051	mg/L	EPA 420.4	0.0042	0.01	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/18/2013 3:18:00 PM	Specific Conductance	n/a	=	780	µmhos/cm	SM 2510 B	0.23	2	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/12/2013 9:45:00 PM	Total Dissolved Solids	n/a	=	470	mg/L	SM 2540 C	4	10	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/14/2013 2:56:00 PM	Total Organic Carbon	n/a	=	7.6	mg/L	SM 5310 C	0.036	1.2	WKL	D
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/12/2013 8:00:00 PM	Total Suspended Solids	n/a	=	340	mg/L	SM 2540 D	5	5	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/9/2013 6:55:00 PM	Turbidity	n/a	=	27	NTU	EPA 180.1	0.024	0.1	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/12/2013 8:00:00 PM	Volatile Suspended Solids	n/a	=	68	mg/L	EPA 160.4	3.1	5	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/22/2013 8:22:00 AM	Aluminum	Dissolved	=	7.2	µg/L	EPA 200.8	0.61	5	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/22/2013 8:30:00 AM	Aluminum	Total	=	5000	µg/L	EPA 200.8	2.1	5	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/22/2013 8:22:00 AM	Antimony	Dissolved	=	0.51	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/22/2013 8:30:00 AM	Antimony	Total	=	0.85	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/22/2013 8:22:00 AM	Arsenic	Dissolved	=	1.6	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/22/2013 8:30:00 AM	Arsenic	Total	=	3.1	µg/L	EPA 200.8	0.13	0.4	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/22/2013 8:22:00 AM	Beryllium	Dissolved	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/22/2013 8:30:00 AM	Beryllium	Total	=	0.14	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/22/2013 8:22:00 AM	Cadmium	Dissolved	DNQ	0.03	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/22/2013 8:30:00 AM	Cadmium	Total	=	0.49	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/22/2013 8:22:00 AM	Chromium	Dissolved	=	0.32	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/22/2013 8:30:00 AM	Chromium	Total	=	14	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/13/2013 3:51:00 PM	Chromium VI	n/a	DNQ	0.23	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/22/2013 8:22:00 AM	Copper	Dissolved	=	2.9	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/22/2013 8:30:00 AM	Copper	Total	=	22	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/14/2013 2:32:00 PM	Iron	Dissolved	=	31	µg/L	EPA 200.7	1.1	10	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/14/2013 2:35:00 PM	Iron	Total	=	7600	µg/L	EPA 200.7	1.1	10	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/22/2013 8:22:00 AM	Lead	Dissolved	<	0.011	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/22/2013 8:30:00 AM	Lead	Total	=	5.3	µg/L	EPA 200.8	0.035	0.2	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/27/2013 4:49:00 PM	Mercury	Dissolved	<	3.9	ng/L	EPA 245.1	3.9	50	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	4/3/2013 2:38:00 PM	Mercury	Total	=	74	ng/L	EPA 245.1	3.9	50	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/22/2013 8:22:00 AM	Nickel	Dissolved	=	1.7	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/22/2013 8:30:00 AM	Nickel	Total	=	14	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/22/2013 8:22:00 AM	Selenium	Dissolved	=	0.99	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/22/2013 8:30:00 AM	Selenium	Total	=	1.7	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/22/2013 8:22:00 AM	Silver	Dissolved	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/22/2013 8:30:00 AM	Silver	Total	DNQ	0.06	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/22/2013 8:22:00 AM	Thallium	Dissolved	<	0.009	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/22/2013 8:30:00 AM	Thallium	Total	DNQ	0.06	µg/L	EPA 200.8	0.034	0.2	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/22/2013 8:22:00 AM	Zinc	Dissolved	=	5.4	µg/L	EPA 200.8	1.1	5	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/22/2013 8:30:00 AM	Zinc	Total	=	87	µg/L	EPA 200.8	1.1	5	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/26/2013 2:02:00 PM	Ammonia as N	n/a	=	0.21	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/11/2013 5:37:00 PM	Nitrate + Nitrite as N	n/a	=	0.52	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	4/4/2013 7:52:00 PM	Phosphorus as P	Dissolved	=	0.12	mg/L	EPA 365.1	0.0014	0.01	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	4/4/2013 8:08:00 PM	Phosphorus as P	Total	=	0.6	mg/L	EPA 365.1	0.007	0.05	WKL	D
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/21/2013 1:24:00 PM	TKN	n/a	=	2.8	mg/L	EPA 351.2	0.074	0.1	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/19/2013 4:16:00 AM	1,2,4-Trichlorobenzene	n/a	<	5.5	µg/L	EPA 625	5.5	10	WKL	D
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/19/2013 4:16:00 AM	1,2-Dichlorobenzene	n/a	<	5.7	µg/L	EPA 625	5.7	10	WKL	D

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/19/2013 4:16:00 AM	1,2-Diphenylhydrazine	n/a	<	2.5	µg/L	EPA 625	2.5	10	WKL	D
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/19/2013 4:16:00 AM	1,3-Dichlorobenzene	n/a	<	5.3	µg/L	EPA 625	5.3	10	WKL	D
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/19/2013 4:16:00 AM	1,4-Dichlorobenzene	n/a	<	5.5	µg/L	EPA 625	5.5	10	WKL	D
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	4/10/2013 5:10:00 PM	1-Methylnaphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	4/11/2013 7:09:00 AM	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	4/11/2013 7:09:00 AM	2,4,6-Trichlorophenol	n/a	DNQ	0.35	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	4/11/2013 7:09:00 AM	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	4/11/2013 7:09:00 AM	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	4/11/2013 7:09:00 AM	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/19/2013 4:16:00 AM	2,4-Dinitrotoluene	n/a	<	1.8	µg/L	EPA 625	1.8	10	WKL	D
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/19/2013 4:16:00 AM	2,6-Dinitrotoluene	n/a	<	2.7	µg/L	EPA 625	2.7	10	WKL	D
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/19/2013 4:16:00 AM	2-Chloronaphthalene	n/a	<	4.5	µg/L	EPA 625	4.5	10	WKL	D
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	4/11/2013 7:09:00 AM	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	4/10/2013 5:10:00 PM	2-Methylnaphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	4/11/2013 7:09:00 AM	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	4/11/2013 7:09:00 AM	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/19/2013 4:16:00 AM	3,3'-Dichlorobenzidine	n/a	<	12	µg/L	EPA 625	12	50	WKL	D
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	4/11/2013 7:09:00 AM	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	4/11/2013 7:09:00 AM	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/19/2013 4:16:00 AM	4-Bromophenyl phenyl ether	n/a	<	3.6	µg/L	EPA 625	3.6	10	WKL	D
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	4/11/2013 7:09:00 AM	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/19/2013 4:16:00 AM	4-Chlorophenyl phenyl ether	n/a	<	4.1	µg/L	EPA 625	4.1	10	WKL	D
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	4/11/2013 7:09:00 AM	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	4/10/2013 5:10:00 PM	Acenaphthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	4/10/2013 5:10:00 PM	Acenaphthylene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	4/10/2013 5:10:00 PM	Anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	4/10/2013 5:10:00 PM	Benz(a)anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/19/2013 4:16:00 AM	Benzidine	n/a	<	37	µg/L	EPA 625	37	100	WKL	D
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	4/6/2013 12:32:00 AM	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	4/10/2013 5:10:00 PM	Benzo(b)fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	4/10/2013 5:10:00 PM	Benzo(g,h,i)perylene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	4/10/2013 5:10:00 PM	Benzo(k)fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/19/2013 4:16:00 AM	Bis(2-chloroethoxy)methane	n/a	<	2.5	µg/L	EPA 625	2.5	10	WKL	D
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/19/2013 4:16:00 AM	Bis(2-chloroethyl)ether	n/a	<	2.7	µg/L	EPA 625	2.7	10	WKL	D
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/19/2013 4:16:00 AM	Bis(2-chloroisopropyl)ether	n/a	<	3.8	µg/L	EPA 625	3.8	10	WKL	D
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	4/6/2013 12:32:00 AM	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	4/6/2013 12:32:00 AM	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/19/2013 4:16:00 AM	Butyl benzyl phthalate	n/a	<	1.8	µg/L	EPA 625	1.8	10	WKL	D
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	4/10/2013 5:10:00 PM	Chrysene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	4/10/2013 5:10:00 PM	Dibenz(a,h)anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/19/2013 4:16:00 AM	Diethyl phthalate	n/a	<	1.5	µg/L	EPA 625	1.5	10	WKL	D
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/19/2013 4:16:00 AM	Dimethyl phthalate	n/a	DNQ	7.8	µg/L	EPA 625	1.8	10	WKL	D
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/19/2013 4:16:00 AM	Di-n-butylphthalate	n/a	<	2.4	µg/L	EPA 625	2.4	10	WKL	D
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/19/2013 4:16:00 AM	Di-n-octylphthalate	n/a	<	1.9	µg/L	EPA 625	1.9	10	WKL	D
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	4/10/2013 5:10:00 PM	Fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	4/10/2013 5:10:00 PM	Fluorene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/19/2013 4:16:00 AM	Hexachlorobenzene	n/a	<	4.9	µg/L	EPA 625	4.9	10	WKL	D
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/19/2013 4:16:00 AM	Hexachlorobutadiene	n/a	<	4.7	µg/L	EPA 625	4.7	10	WKL	D

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/19/2013 4:16:00 AM	Hexachlorocyclopentadiene	n/a	<	15	µg/L	EPA 625	15	50	WKL	D
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/19/2013 4:16:00 AM	Hexachloroethane	n/a	<	5.2	µg/L	EPA 625	5.2	10	WKL	D
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	4/10/2013 5:10:00 PM	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/19/2013 4:16:00 AM	Isophorone	n/a	<	2.1	µg/L	EPA 625	2.1	10	WKL	D
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	4/10/2013 5:10:00 PM	Naphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/19/2013 4:16:00 AM	Nitrobenzene	n/a	<	3.6	µg/L	EPA 625	3.6	10	WKL	D
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/19/2013 4:16:00 AM	N-Nitrosodimethylamine	n/a	<	1.4	µg/L	EPA 625	1.4	10	WKL	D
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/19/2013 4:16:00 AM	N-Nitrosodi-N-propylamine	n/a	<	2.6	µg/L	EPA 625	2.6	10	WKL	D
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/19/2013 4:16:00 AM	N-Nitrosodiphenylamine	n/a	<	1.9	µg/L	EPA 625	1.9	10	WKL	D
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	4/10/2013 5:10:00 PM	Phenanthrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	4/11/2013 7:09:00 AM	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	4/10/2013 5:10:00 PM	Pyrene	n/a	=	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/24/2013 12:19:00 PM	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/24/2013 12:19:00 PM	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/24/2013 12:19:00 PM	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/24/2013 12:19:00 PM	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/24/2013 12:19:00 PM	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/24/2013 12:19:00 PM	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/24/2013 12:19:00 PM	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/22/2013 12:53:00 AM	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/22/2013 12:53:00 AM	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/22/2013 12:53:00 AM	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/22/2013 12:53:00 AM	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/22/2013 12:53:00 AM	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/24/2013 12:19:00 PM	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/24/2013 12:19:00 PM	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/24/2013 12:19:00 PM	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/22/2013 12:53:00 AM	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	4/6/2013 12:32:00 AM	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/24/2013 12:19:00 PM	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/24/2013 12:19:00 PM	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/24/2013 12:19:00 PM	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	4/6/2013 12:32:00 AM	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/22/2013 11:30:00 PM	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	LB-LCSR
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/22/2013 12:53:00 AM	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/24/2013 12:19:00 PM	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/22/2013 11:30:00 PM	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	4/6/2013 12:32:00 AM	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	4/6/2013 12:32:00 AM	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	4/6/2013 12:32:00 AM	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/24/2013 12:19:00 PM	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	4/6/2013 12:32:00 AM	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/22/2013 11:30:00 PM	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/22/2013 11:30:00 PM	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	4/6/2013 12:32:00 AM	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/22/2013 12:53:00 AM	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/22/2013 12:53:00 AM	DCPA (Dacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/24/2013 12:19:00 PM	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/22/2013 11:30:00 PM	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/22/2013 11:30:00 PM	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/22/2013 11:30:00 PM	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/22/2013 12:53:00 AM	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/22/2013 12:53:00 AM	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/22/2013 11:30:00 PM	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/24/2013 12:19:00 PM	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/22/2013 11:30:00 PM	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/22/2013 12:53:00 AM	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	4/6/2013 12:32:00 AM	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/22/2013 11:30:00 PM	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/24/2013 12:19:00 PM	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/24/2013 12:19:00 PM	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/24/2013 12:19:00 PM	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/24/2013 12:19:00 PM	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/24/2013 12:19:00 PM	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	4/6/2013 12:32:00 AM	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/22/2013 11:30:00 PM	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/22/2013 11:30:00 PM	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/22/2013 11:30:00 PM	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/22/2013 11:30:00 PM	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/24/2013 12:19:00 PM	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/24/2013 12:19:00 PM	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/12/2013 4:53:00 PM	Glyphosate	n/a	=	8	µg/L	EPA 547	1.8	5	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/24/2013 12:19:00 PM	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/24/2013 12:19:00 PM	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/22/2013 11:30:00 PM	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/22/2013 11:30:00 PM	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/24/2013 12:19:00 PM	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/22/2013 11:30:00 PM	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	4/6/2013 12:32:00 AM	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	4/6/2013 12:32:00 AM	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/22/2013 11:30:00 PM	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	4/6/2013 12:32:00 AM	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/22/2013 11:30:00 PM	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/22/2013 12:53:00 AM	Pentachlorophenol	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.2	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/22/2013 11:30:00 PM	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/22/2013 12:53:00 AM	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	4/6/2013 12:32:00 AM	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	4/6/2013 12:32:00 AM	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/22/2013 11:30:00 PM	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	4/6/2013 12:32:00 AM	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/22/2013 11:30:00 PM	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	LB-LCSR
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	4/6/2013 12:32:00 AM	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	4/6/2013 12:32:00 AM	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/22/2013 11:30:00 PM	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/24/2013 12:19:00 PM	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	3/22/2013 11:30:00 PM	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-THO	2012/13-4	Wet	3/8/2013 10:18:00 AM	4/6/2013 12:32:00 AM	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/4/2013 11:51:00 PM	Chloride	n/a	=	280	mg/L	EPA 300.0	1	5	WKL	D
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/4/2013 11:51:00 PM	Fluoride	n/a	=	0.4	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/4/2013 4:54:00 PM	Perchlorate	n/a	<	0.95	µg/L	EPA 314.0	0.95	2	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	5/24/2013 8:30:00 AM	E. Coli	n/a	=	246	MPN/100 mL	MMO-MUG	10	10	VCHCA	D
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	5/27/2013 11:29:00 AM	Fecal Coliform	n/a	=	240	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	5/24/2013 8:30:00 AM	Total Coliform	n/a	=	11199	MPN/100 mL	MMO-MUG	10	10	VCHCA	D
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/19/2013 4:04:00 PM	Calcium	Total	=	110	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/19/2013 4:04:00 PM	Magnesium	Total	=	99.7	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/4/2013 1:05:00 PM	Alkalinity as CaCO3	n/a	=	350	mg/L	SM 2320 B	0.56	2	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	5/28/2013 5:35:00 PM	BOD	n/a	DNQ	1.1	mg/L	SM 5210 B	0.1	2	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	5/31/2013 2:44:00 PM	COD	n/a	=	10	mg/L	EPA 410.4	0.73	5	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	5/23/2013 9:40:00 AM	Conductivity	n/a	=	1638	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/12/2013 11:25:00 AM	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	5/23/2013 9:40:00 AM	DO	n/a	=	91.9	%	Field Meter	-88	0.1	Field Crew	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	5/23/2013 9:40:00 AM	DO	n/a	=	8.79	mg/L	Field Meter	-88	0.3	Field Crew	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/19/2013 4:04:00 PM	Hardness as CaCO3	Total	=	685	mg/L	EPA 200.7	0.0894	0.662	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	5/24/2013 11:27:00 AM	MBAS	n/a	DNQ	0.042	mg/L	SM 5540 C	0.019	0.05	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	5/23/2013 9:40:00 AM	pH	n/a	=	8.23	pH Units	Field Meter	-88	0.01	Field Crew	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/10/2013 4:42:00 PM	Phenolics	n/a	DNQ	0.0076	mg/L	EPA 420.4	0.0042	0.01	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	5/23/2013 9:40:00 AM	Salinity	n/a	=	1000	mg/L	Field Meter	-88	100	Field Crew	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	5/23/2013 9:40:00 AM	Specific Conductance	n/a	=	1941	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	5/29/2013 10:15:00 AM	Specific Conductance	n/a	=	2100	µmhos/cm	SM 2510 B	0.47	4	WKL	D
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	5/23/2013 9:40:00 AM	Temperature	n/a	=	16.8	°C	Field Meter	-88	0.1	Field Crew	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	5/28/2013 6:05:00 PM	Total Dissolved Solids	n/a	=	1300	mg/L	SM 2540 C	4	10	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/5/2013 12:37:00 PM	Total Organic Carbon	n/a	=	2.7	mg/L	SM 5310 C	0.009	0.3	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	5/28/2013 1:25:00 PM	Total Suspended Solids	n/a	<	5	mg/L	SM 2540 D	5	5	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	5/24/2013 5:47:00 PM	Turbidity	n/a	=	1.4	NTU	EPA 180.1	0.024	0.1	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	5/28/2013 1:25:00 PM	Volatile Suspended Solids	n/a	<	3.1	mg/L	EPA 160.4	3.1	5	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	5/31/2013 6:36:00 PM	Oil and Grease	n/a	<	1.3	mg/L	EPA 1664A	1.3	5	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	5/31/2013 6:36:00 PM	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/15/2013 4:17:00 AM	Aluminum	Dissolved	DNQ	2.4	µg/L	EPA 200.8	2.1	5	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/15/2013 4:25:00 AM	Aluminum	Total	=	57	µg/L	EPA 200.8	2.1	5	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/15/2013 4:17:00 AM	Antimony	Dissolved	DNQ	0.18	µg/L	EPA 200.8	0.034	0.5	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/15/2013 4:25:00 AM	Antimony	Total	DNQ	0.18	µg/L	EPA 200.8	0.034	0.5	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/15/2013 4:17:00 AM	Arsenic	Dissolved	=	2.4	µg/L	EPA 200.8	0.13	0.4	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/15/2013 4:25:00 AM	Arsenic	Total	=	2.5	µg/L	EPA 200.8	0.13	0.4	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/15/2013 4:17:00 AM	Beryllium	Dissolved	<	0.015	µg/L	EPA 200.8	0.015	0.1	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/15/2013 4:25:00 AM	Beryllium	Total	<	0.015	µg/L	EPA 200.8	0.015	0.1	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/15/2013 4:17:00 AM	Cadmium	Dissolved	DNQ	0.03	µg/L	EPA 200.8	0.017	0.1	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/15/2013 4:25:00 AM	Cadmium	Total	DNQ	0.04	µg/L	EPA 200.8	0.017	0.1	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/15/2013 4:17:00 AM	Chromium	Dissolved	=	0.2	µg/L	EPA 200.8	0.024	0.2	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/15/2013 4:25:00 AM	Chromium	Total	=	0.35	µg/L	EPA 200.8	0.024	0.2	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	5/29/2013	Chromium VI	n/a	DNQ	0.15	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/15/2013 4:17:00 AM	Copper	Dissolved	=	1.1	µg/L	EPA 200.8	0.036	0.5	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/15/2013 4:25:00 AM	Copper	Total	=	0.98	µg/L	EPA 200.8	0.036	0.5	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/19/2013 4:02:00 PM	Iron	Dissolved	<	1.1	µg/L	EPA 200.7	1.1	10	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/19/2013 4:04:00 PM	Iron	Total	=	75	µg/L	EPA 200.7	1.1	10	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/15/2013 4:17:00 AM	Lead	Dissolved	DNQ	0.05	µg/L	EPA 200.8	0.024	0.2	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/15/2013 4:25:00 AM	Lead	Total	DNQ	0.05	µg/L	EPA 200.8	0.024	0.2	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/6/2013 5:53:00 PM	Mercury	Dissolved	<	3.9	ng/L	EPA 245.1	3.9	50	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/6/2013 5:53:00 PM	Mercury	Total	<	3.9	ng/L	EPA 245.1	3.9	50	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/15/2013 4:17:00 AM	Nickel	Dissolved	=	1.3	µg/L	EPA 200.8	0.091	0.8	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/15/2013 4:25:00 AM	Nickel	Total	=	1.5	µg/L	EPA 200.8	0.091	0.8	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/15/2013 4:17:00 AM	Selenium	Dissolved	=	1.2	µg/L	EPA 200.8	0.081	0.4	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/15/2013 4:25:00 AM	Selenium	Total	=	1.2	µg/L	EPA 200.8	0.081	0.4	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/15/2013 4:17:00 AM	Silver	Dissolved	<	0.012	µg/L	EPA 200.8	0.012	0.2	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/15/2013 4:25:00 AM	Silver	Total	<	0.012	µg/L	EPA 200.8	0.012	0.2	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/15/2013 4:17:00 AM	Thallium	Dissolved	<	0.034	µg/L	EPA 200.8	0.034	0.2	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/15/2013 4:25:00 AM	Thallium	Total	<	0.034	µg/L	EPA 200.8	0.034	0.2	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/15/2013 4:17:00 AM	Zinc	Dissolved	DNQ	3.2	µg/L	EPA 200.8	0.5	5	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/15/2013 4:25:00 AM	Zinc	Total	DNQ	1.4	µg/L	EPA 200.8	0.5	5	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/10/2013 6:08:00 PM	Ammonia as N	n/a	<	0.048	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	5/24/2013 9:49:00 PM	Nitrate + Nitrite as N	n/a	=	0.44	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/12/2013 9:15:00 PM	Phosphorus as P	Dissolved	=	0.029	mg/L	EPA 365.1	0.0014	0.01	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/12/2013 8:33:00 PM	Phosphorus as P	Total	=	0.038	mg/L	EPA 365.1	0.0014	0.01	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/11/2013 2:47:00 PM	TKN	n/a	=	1.3	mg/L	EPA 351.2	0.05	0.1	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/12/2013 7:19:00 PM	1,2,4-Trichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/12/2013 7:19:00 PM	1,2-Dichlorobenzene	n/a	<	0.57	µg/L	EPA 625	0.57	1	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/12/2013 7:19:00 PM	1,2-Diphenylhydrazine	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/12/2013 7:19:00 PM	1,3-Dichlorobenzene	n/a	<	0.53	µg/L	EPA 625	0.53	1	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/12/2013 7:19:00 PM	1,4-Dichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/18/2013 8:52:00 AM	1-Methylnaphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/16/2013 6:22:00 AM	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/16/2013 6:22:00 AM	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	LB-LCSR
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/16/2013 6:22:00 AM	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	LB-LCSR
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/16/2013 6:22:00 AM	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/16/2013 6:22:00 AM	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/12/2013 7:19:00 PM	2,4-Dinitrotoluene	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/12/2013 7:19:00 PM	2,6-Dinitrotoluene	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/12/2013 7:19:00 PM	2-Chloronaphthalene	n/a	<	0.45	µg/L	EPA 625	0.45	1	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/16/2013 6:22:00 AM	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	LB-LCSR
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/18/2013 8:52:00 AM	2-Methylnaphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/16/2013 6:22:00 AM	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/16/2013 6:22:00 AM	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/12/2013 7:19:00 PM	3,3'-Dichlorobenzidine	n/a	<	1.2	µg/L	EPA 625	1.2	5	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/16/2013 6:22:00 AM	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/16/2013 6:22:00 AM	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	LB-LCSR
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/12/2013 7:19:00 PM	4-Bromophenyl phenyl ether	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/16/2013 6:22:00 AM	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	LB-LCSR
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/12/2013 7:19:00 PM	4-Chlorophenyl phenyl ether	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/16/2013 6:22:00 AM	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/18/2013 8:52:00 AM	Acenaphthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/18/2013 8:52:00 AM	Acenaphthylene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/18/2013 8:52:00 AM	Anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/18/2013 8:52:00 AM	Benz(a)anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/12/2013 7:19:00 PM	Benzidine	n/a	<	3.7	µg/L	EPA 625	3.7	10	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/11/2013 8:39:00 PM	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/18/2013 8:52:00 AM	Benzo(b)fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/18/2013 8:52:00 AM	Benzo(g,h,i)perylene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/18/2013 8:52:00 AM	Benzo(k)fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/12/2013 7:19:00 PM	Bis(2-chloroethoxy)methane	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/12/2013 7:19:00 PM	Bis(2-chloroethyl)ether	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/12/2013 7:19:00 PM	Bis(2-chloroisopropyl)ether	n/a	<	0.38	µg/L	EPA 625	0.38	1	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/11/2013 8:39:00 PM	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/11/2013 8:39:00 PM	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/12/2013 7:19:00 PM	Butyl benzyl phthalate	n/a	DNQ	0.54	µg/L	EPA 625	0.18	1	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/18/2013 8:52:00 AM	Chrysene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/18/2013 8:52:00 AM	Dibenz(a,h)anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/12/2013 7:19:00 PM	Diethyl phthalate	n/a	<	0.15	µg/L	EPA 625	0.15	1	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/12/2013 7:19:00 PM	Dimethyl phthalate	n/a	=	9.7	µg/L	EPA 625	0.18	1	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/12/2013 7:19:00 PM	Di-n-butylphthalate	n/a	<	0.24	µg/L	EPA 625	0.24	1	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/12/2013 7:19:00 PM	Di-n-octylphthalate	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/18/2013 8:52:00 AM	Fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/18/2013 8:52:00 AM	Fluorene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/12/2013 7:19:00 PM	Hexachlorobenzene	n/a	<	0.49	µg/L	EPA 625	0.49	1	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/12/2013 7:19:00 PM	Hexachlorobutadiene	n/a	<	0.47	µg/L	EPA 625	0.47	1	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/12/2013 7:19:00 PM	Hexachlorocyclopentadiene	n/a	<	1.5	µg/L	EPA 625	1.5	5	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/12/2013 7:19:00 PM	Hexachloroethane	n/a	<	0.52	µg/L	EPA 625	0.52	1	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/18/2013 8:52:00 AM	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/12/2013 7:19:00 PM	Isophorone	n/a	<	0.21	µg/L	EPA 625	0.21	1	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	5/25/2013 2:33:00 AM	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/18/2013 8:52:00 AM	Naphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/12/2013 7:19:00 PM	Nitrobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/12/2013 7:19:00 PM	N-Nitrosodimethylamine	n/a	<	0.14	µg/L	EPA 625	0.14	1	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/12/2013 7:19:00 PM	N-Nitrosodi-N-propylamine	n/a	<	0.26	µg/L	EPA 625	0.26	1	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/12/2013 7:19:00 PM	N-Nitrosodiphenylamine	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/18/2013 8:52:00 AM	Phenanthrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/16/2013 6:22:00 AM	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/18/2013 8:52:00 AM	Pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/16/2013 4:12:00 AM	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/16/2013 4:12:00 AM	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/16/2013 4:12:00 AM	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/16/2013 4:12:00 AM	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/16/2013 4:12:00 AM	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/16/2013 4:12:00 AM	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/16/2013 4:12:00 AM	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/7/2013 1:51:00 AM	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/7/2013 1:51:00 AM	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/7/2013 1:51:00 AM	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/7/2013 1:51:00 AM	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/7/2013 1:51:00 AM	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/16/2013 4:12:00 AM	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/16/2013 4:12:00 AM	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/16/2013 4:12:00 AM	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/7/2013 1:51:00 AM	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/11/2013 8:39:00 PM	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/16/2013 4:12:00 AM	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/16/2013 4:12:00 AM	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/16/2013 4:12:00 AM	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/11/2013 8:39:00 PM	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/13/2013 5:54:00 PM	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/7/2013 1:51:00 AM	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/16/2013 4:12:00 AM	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/13/2013 5:54:00 PM	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/11/2013 8:39:00 PM	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/11/2013 8:39:00 PM	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/11/2013 8:39:00 PM	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/16/2013 4:12:00 AM	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/11/2013 8:39:00 PM	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/13/2013 5:54:00 PM	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/13/2013 5:54:00 PM	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/11/2013 8:39:00 PM	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/7/2013 1:51:00 AM	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/7/2013 1:51:00 AM	DCPA (Dacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/16/2013 4:12:00 AM	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/13/2013 5:54:00 PM	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/13/2013 5:54:00 PM	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/13/2013 5:54:00 PM	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/7/2013 1:51:00 AM	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/7/2013 1:51:00 AM	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/13/2013 5:54:00 PM	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/16/2013 4:12:00 AM	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/13/2013 5:54:00 PM	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/7/2013 1:51:00 AM	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/11/2013 8:39:00 PM	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/13/2013 5:54:00 PM	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/16/2013 4:12:00 AM	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/16/2013 4:12:00 AM	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/16/2013 4:12:00 AM	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/16/2013 4:12:00 AM	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/16/2013 4:12:00 AM	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/11/2013 8:39:00 PM	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/13/2013 5:54:00 PM	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/13/2013 5:54:00 PM	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/13/2013 5:54:00 PM	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/13/2013 5:54:00 PM	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/16/2013 4:12:00 AM	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/16/2013 4:12:00 AM	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	5/31/2013 2:44:00 PM	Glyphosate	n/a	<	1.8	µg/L	EPA 547	1.8	5	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/16/2013 4:12:00 AM	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/16/2013 4:12:00 AM	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/13/2013 5:54:00 PM	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/13/2013 5:54:00 PM	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/16/2013 4:12:00 AM	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/13/2013 5:54:00 PM	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/11/2013 8:39:00 PM	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/11/2013 8:39:00 PM	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/13/2013 5:54:00 PM	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/11/2013 8:39:00 PM	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/13/2013 5:54:00 PM	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/7/2013 1:51:00 AM	Pentachlorophenol	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.2	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/13/2013 5:54:00 PM	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/7/2013 1:51:00 AM	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/11/2013 8:39:00 PM	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/11/2013 8:39:00 PM	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/13/2013 5:54:00 PM	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/11/2013 8:39:00 PM	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/13/2013 5:54:00 PM	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/11/2013 8:39:00 PM	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/11/2013 8:39:00 PM	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/13/2013 5:54:00 PM	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/16/2013 4:12:00 AM	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/13/2013 5:54:00 PM	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-THO	2012/13-5	Dry	5/23/2013 9:40:00 AM	6/11/2013 8:39:00 PM	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-THO	2013-DRY	Dry	8/13/2013 11:25:00 AM	8/14/2013 9:00:00 AM	E. Coli	n/a	=	309	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-THO	2013-DRY	Dry	8/13/2013 11:25:00 AM	8/14/2013 9:00:00 AM	Total Coliform	n/a	=	15531	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-THO	2013-DRY	Dry	8/13/2013 11:25:00 AM	8/22/2013 12:16:00 PM	Calcium	Total	=	105	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-THO	2013-DRY	Dry	8/13/2013 11:25:00 AM	8/22/2013 12:16:00 PM	Magnesium	Total	=	106	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-THO	2013-DRY	Dry	8/13/2013 11:25:00 AM	8/13/2013 11:25:00 AM	Conductivity	n/a	=	1725	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-THO	2013-DRY	Dry	8/13/2013 11:25:00 AM	8/13/2013 11:25:00 AM	Discharge	n/a	=	0.96	cfs	Field Estimate	-88	-88	Field Crew	
MO-THO	2013-DRY	Dry	8/13/2013 11:25:00 AM	8/13/2013 11:25:00 AM	DO	n/a	=	121.3	%	Field Meter	-88	0.1	Field Crew	
MO-THO	2013-DRY	Dry	8/13/2013 11:25:00 AM	8/13/2013 11:25:00 AM	DO	n/a	=	11.23	mg/L	Field Meter	-88	0.3	Field Crew	
MO-THO	2013-DRY	Dry	8/13/2013 11:25:00 AM	8/22/2013 12:16:00 PM	Hardness as CaCO3	Total	=	699	mg/L	EPA 200.7	0.0894	0.662	WKL	
MO-THO	2013-DRY	Dry	8/13/2013 11:25:00 AM	8/13/2013 11:25:00 AM	pH	n/a	=	8.01	pH Units	Field Meter	-88	0.01	Field Crew	
MO-THO	2013-DRY	Dry	8/13/2013 11:25:00 AM	8/13/2013 11:25:00 AM	Salinity	n/a	=	1000	mg/L	Field Meter	-88	100	Field Crew	
MO-THO	2013-DRY	Dry	8/13/2013 11:25:00 AM	8/13/2013 11:25:00 AM	Specific Conductance	n/a	=	1960	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-THO	2013-DRY	Dry	8/13/2013 11:25:00 AM	8/13/2013 11:25:00 AM	Temperature	n/a	=	18.8	°C	Field Meter	-88	0.1	Field Crew	
MO-THO	2013-DRY	Dry	8/13/2013 11:25:00 AM	8/19/2013 7:05:00 PM	Total Organic Carbon	n/a	=	3	mg/L	SM 5310 C	0.009	0.3	WKL	
MO-THO	2013-DRY	Dry	8/13/2013 11:25:00 AM	8/13/2013 11:25:00 AM	Turbidity	n/a	=	2.12	NTU	Field Meter	-88	0.01	Field Crew	
MO-THO	2013-DRY	Dry	8/13/2013 11:25:00 AM	8/24/2013 12:34:00 AM	Copper	Dissolved	=	0.6	µg/L	EPA 200.8	0.036	0.5	WKL	
MO-THO	2013-DRY	Dry	8/13/2013 11:25:00 AM	8/24/2013 12:34:00 AM	Lead	Dissolved	<	0.024	µg/L	EPA 200.8	0.024	0.2	WKL	
MO-THO	2013-DRY	Dry	8/13/2013 11:25:00 AM	8/24/2013 12:34:00 AM	Zinc	Dissolved	DNQ	2.4	µg/L	EPA 200.8	0.5	5	WKL	
MO-VEN	2012/13-2	Wet	11/17/2012 7:45:00 AM	11/18/2012 7:15:00 AM	E. Coli	n/a	=	24192	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-VEN	2012/13-2	Wet	11/17/2012 7:45:00 AM	11/19/2012 2:00:00 PM	Fecal Coliform	n/a	=	24000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-VEN	2012/13-2	Wet	11/17/2012 7:45:00 AM	11/18/2012 7:15:00 AM	Total Coliform	n/a	=	770100	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	
MO-VEN	2012/13-2	Wet	11/17/2012 7:45:00 AM	11/17/2012 7:45:00 AM	Conductivity	n/a	=	216.4	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-VEN	2012/13-2	Wet	11/17/2012 7:45:00 AM	12/6/2012 9:31:00 PM	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-VEN	2012/13-2	Wet	11/17/2012 7:45:00 AM	11/17/2012 7:45:00 AM	DO	n/a	=	101.6	%	Field Meter	-88	0.1	Field Crew	
MO-VEN	2012/13-2	Wet	11/17/2012 7:45:00 AM	11/17/2012 7:45:00 AM	DO	n/a	=	9.98	mg/L	Field Meter	-88	0.3	Field Crew	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-VEN	2012/13-2	Wet	11/17/2012 7:45:00 AM	11/17/2012 7:45:00 AM	pH	n/a	=	7.67	pH Units	Field Meter	-88	0.01	Field Crew	
MO-VEN	2012/13-2	Wet	11/17/2012 7:45:00 AM	11/17/2012 7:45:00 AM	Salinity	n/a	=	100	mg/L	Field Meter	-88	100	Field Crew	
MO-VEN	2012/13-2	Wet	11/17/2012 7:45:00 AM	11/17/2012 7:45:00 AM	Specific Conductance	n/a	=	263	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-VEN	2012/13-2	Wet	11/17/2012 7:45:00 AM	11/17/2012 7:45:00 AM	Temperature	n/a	=	15.7	°C	Field Meter	-88	0.1	Field Crew	
MO-VEN	2012/13-2	Wet	11/17/2012 7:45:00 AM	11/30/2012 3:45:00 PM	Oil and Grease	n/a	DNQ	2	mg/L	EPA 1664A	1.3	5	WKL	
MO-VEN	2012/13-2	Wet	11/17/2012 7:45:00 AM	11/30/2012 3:45:00 PM	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-VEN	2012/13-2	Wet	11/17/2012 7:45:00 AM	11/27/2012 7:20:00 PM	2-Chloroethyl vinyl ether	n/a	<	0.61	µg/L	EPA 524.2	0.61	1	WKL	
MO-VEN	2012/13-2	Wet	11/17/2012 7:45:00 AM	11/27/2012 7:20:00 PM	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/28/2012 12:29:00 PM	Chloride	n/a	=	22	mg/L	EPA 300.0	0.2	1	WKL	D
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/28/2012 12:29:00 PM	Fluoride	n/a	=	0.33	mg/L	EPA 300.0	0.04	0.2	WKL	D
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/26/2012 7:47:00 PM	Perchlorate	n/a	<	0.95	µg/L	EPA 314.0	0.95	2	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/28/2012 12:18:00 PM	Calcium	Total	=	75	mg/L	EPA 200.7	0.0156	0.1	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/28/2012 12:18:00 PM	Magnesium	Total	=	14.6	mg/L	EPA 200.7	0.0121	0.1	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/30/2012 4:45:00 PM	Alkalinity as CaCO3	n/a	=	120	mg/L	SM 2320 B	0.56	2	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/24/2012 12:30:00 PM	BOD	n/a	=	26	mg/L	SM 5210 B	0.1	2	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/27/2012 9:06:00 AM	COD	n/a	=	230	mg/L	EPA 410.4	0.73	5	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/28/2012 12:18:00 PM	Hardness as CaCO3	Total	=	247	mg/L	EPA 200.7	0.0885	0.662	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/19/2012 9:46:00 PM	MBAS	n/a	=	0.63	mg/L	SM 5540 C	0.076	0.2	WKL	D
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/30/2012 2:55:00 PM	Phenolics	n/a	=	0.022	mg/L	EPA 420.4	0.0042	0.01	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/30/2012 11:00:00 AM	Specific Conductance	n/a	=	530	µmhos/cm	SM 2510 B	0.23	2	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/21/2012 11:58:00 AM	Total Dissolved Solids	n/a	=	300	mg/L	SM 2540 C	4	10	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/26/2012 10:48:00 AM	Total Organic Carbon	n/a	=	28	mg/L	SM 5310 C	0.18	6	WKL	D
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/20/2012 7:20:00 PM	Total Suspended Solids	n/a	=	380	mg/L	SM 2540 D	5	5	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/19/2012 10:13:00 PM	Turbidity	n/a	=	74	NTU	EPA 180.1	0.024	0.1	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/20/2012 7:20:00 PM	Volatile Suspended Solids	n/a	=	100	mg/L	EPA 160.4	3.1	5	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	12/3/2012 5:43:00 PM	Aluminum	Dissolved	=	11	µg/L	EPA 200.8	0.61	5	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	12/3/2012 5:51:00 PM	Aluminum	Total	=	4400	µg/L	EPA 200.8	0.61	5	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	12/3/2012 5:43:00 PM	Antimony	Dissolved	=	1.4	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	12/3/2012 5:51:00 PM	Antimony	Total	=	2.5	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	12/3/2012 5:43:00 PM	Arsenic	Dissolved	=	2.4	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	12/3/2012 5:51:00 PM	Arsenic	Total	=	6.6	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	12/3/2012 5:43:00 PM	Beryllium	Dissolved	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	12/3/2012 5:51:00 PM	Beryllium	Total	=	0.2	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	12/3/2012 5:43:00 PM	Cadmium	Dissolved	DNQ	0.04	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	12/3/2012 5:51:00 PM	Cadmium	Total	=	0.98	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	12/3/2012 5:43:00 PM	Chromium	Dissolved	=	0.47	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	12/3/2012 5:51:00 PM	Chromium	Total	=	11	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	12/3/2012 7:33:00 PM	Chromium VI	n/a	=	0.34	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	12/3/2012 5:43:00 PM	Copper	Dissolved	=	7.5	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	12/3/2012 5:51:00 PM	Copper	Total	=	280	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/28/2012 12:16:00 PM	Iron	Dissolved	=	200	µg/L	EPA 200.7	1.1	10	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/28/2012 12:18:00 PM	Iron	Total	=	9000	µg/L	EPA 200.7	1.1	10	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	12/3/2012 5:43:00 PM	Lead	Dissolved	=	0.29	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	12/3/2012 5:51:00 PM	Lead	Total	=	22	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	12/11/2012 3:45:00 PM	Mercury	Dissolved	DNQ	25	ng/L	EPA 245.1	3.9	50	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	12/11/2012 3:45:00 PM	Mercury	Total	=	85	ng/L	EPA 245.1	3.9	50	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	12/3/2012 5:43:00 PM	Nickel	Dissolved	=	5.3	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	12/3/2012 5:51:00 PM	Nickel	Total	=	20	µg/L	EPA 200.8	0.13	0.8	WKL	

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	12/3/2012 5:43:00 PM	Selenium	Dissolved	=	0.99	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	12/3/2012 5:51:00 PM	Selenium	Total	=	2.3	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	12/3/2012 5:43:00 PM	Silver	Dissolved	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	12/3/2012 5:51:00 PM	Silver	Total	=	0.2	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	12/3/2012 5:43:00 PM	Thallium	Dissolved	<	0.009	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	12/3/2012 5:51:00 PM	Thallium	Total	DNQ	0.11	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	12/3/2012 5:43:00 PM	Zinc	Dissolved	=	17	µg/L	EPA 200.8	1.1	5	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	12/3/2012 5:51:00 PM	Zinc	Total	=	600	µg/L	EPA 200.8	1.1	5	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	12/5/2012 5:41:00 PM	Ammonia as N	n/a	=	0.88	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/19/2012 6:55:00 PM	Nitrate + Nitrite as N	n/a	=	1.2	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	12/14/2012 12:58:00 PM	Phosphorus as P	Dissolved	=	0.39	mg/L	EPA 365.1	0.007	0.05	WKL	D
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	12/14/2012 11:32:00 AM	Phosphorus as P	Total	=	1.6	mg/L	EPA 365.1	0.035	0.25	WKL	DG
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/28/2012 4:19:00 PM	TKN	n/a	=	6.4	mg/L	EPA 351.2	0.15	0.2	WKL	D
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/28/2012 1:36:00 AM	1,2,4-Trichlorobenzene	n/a	<	2.2	µg/L	EPA 625	2.2	4	WKL	D, DF
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/28/2012 1:36:00 AM	1,2-Dichlorobenzene	n/a	<	2.3	µg/L	EPA 625	2.3	4	WKL	D, DF
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/28/2012 1:36:00 AM	1,2-Diphenylhydrazine	n/a	<	1	µg/L	EPA 625	1	4	WKL	D, DF
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/28/2012 1:36:00 AM	1,3-Dichlorobenzene	n/a	<	2.1	µg/L	EPA 625	2.1	4	WKL	D, DF
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/28/2012 1:36:00 AM	1,4-Dichlorobenzene	n/a	<	2.2	µg/L	EPA 625	2.2	4	WKL	D, DF
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/29/2012 3:00:00 AM	1-Methylnaphthalene	n/a	<	0.4	µg/L	EPA 8270Cm	0.4	0.4	WKL	D, DF
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/29/2012 7:33:00 PM	2,4,5-Trichlorophenol	n/a	<	1.2	µg/L	EPA 8270Cm	1.2	4	WKL	D, DF
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/29/2012 7:33:00 PM	2,4,6-Trichlorophenol	n/a	<	1.2	µg/L	EPA 8270Cm	1.2	4	WKL	D, DF, EUM
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/29/2012 7:33:00 PM	2,4-Dichlorophenol	n/a	<	2	µg/L	EPA 8270Cm	2	4	WKL	D, DF
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/29/2012 7:33:00 PM	2,4-Dimethylphenol	n/a	<	4	µg/L	EPA 8270Cm	4	8	WKL	D, DF
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/29/2012 7:33:00 PM	2,4-Dinitrophenol	n/a	<	4	µg/L	EPA 8270Cm	4	8	WKL	D, DF
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/28/2012 1:36:00 AM	2,4-Dinitrotoluene	n/a	<	0.72	µg/L	EPA 625	0.72	4	WKL	D, DF
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/28/2012 1:36:00 AM	2,6-Dinitrotoluene	n/a	<	1.1	µg/L	EPA 625	1.1	4	WKL	D, DF
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/28/2012 1:36:00 AM	2-Chloronaphthalene	n/a	<	1.8	µg/L	EPA 625	1.8	4	WKL	D, DF
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/29/2012 7:33:00 PM	2-Chlorophenol	n/a	<	2.6	µg/L	EPA 8270Cm	2.6	4	WKL	D, DF, EUM
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/29/2012 3:00:00 AM	2-Methylnaphthalene	n/a	<	0.4	µg/L	EPA 8270Cm	0.4	0.4	WKL	D, DF
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/29/2012 7:33:00 PM	2-Methylphenol	n/a	<	1.4	µg/L	EPA 8270Cm	1.4	4	WKL	D, DF
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/29/2012 7:33:00 PM	2-Nitrophenol	n/a	<	2.8	µg/L	EPA 8270Cm	2.8	4	WKL	D, DF
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/28/2012 1:36:00 AM	3,3'-Dichlorobenzidine	n/a	<	4.8	µg/L	EPA 625	4.8	20	WKL	D, DF
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/29/2012 7:33:00 PM	3-/4-Methylphenol	n/a	<	1.2	µg/L	EPA 8270Cm	1.2	4	WKL	D, DF
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/29/2012 7:33:00 PM	4,6-Dinitro-2-methylphenol	n/a	<	0.56	µg/L	EPA 8270Cm	0.56	4	WKL	D, DF
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/28/2012 1:36:00 AM	4-Bromophenyl phenyl ether	n/a	<	1.4	µg/L	EPA 625	1.4	4	WKL	D, DF
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/29/2012 7:33:00 PM	4-Chloro-3-methylphenol	n/a	<	1.5	µg/L	EPA 8270Cm	1.5	4	WKL	D, DF
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/28/2012 1:36:00 AM	4-Chlorophenyl phenyl ether	n/a	<	1.6	µg/L	EPA 625	1.6	4	WKL	D, DF
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/29/2012 7:33:00 PM	4-Nitrophenol	n/a	<	4	µg/L	EPA 8270Cm	4	8	WKL	D, DF
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/29/2012 3:00:00 AM	Acenaphthene	n/a	<	0.4	µg/L	EPA 8270Cm	0.4	0.4	WKL	D, DF, EUM
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/29/2012 3:00:00 AM	Acenaphthylene	n/a	<	0.4	µg/L	EPA 8270Cm	0.4	0.4	WKL	D, DF
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/29/2012 3:00:00 AM	Anthracene	n/a	<	0.4	µg/L	EPA 8270Cm	0.4	0.4	WKL	D, DF
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/29/2012 3:00:00 AM	Benz(a)anthracene	n/a	<	0.4	µg/L	EPA 8270Cm	0.4	0.4	WKL	D, DF
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/28/2012 1:36:00 AM	Benzidine	n/a	<	15	µg/L	EPA 625	15	40	WKL	D, DF
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	12/4/2012 5:54:00 AM	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/29/2012 3:00:00 AM	Benzo(b)fluoranthene	n/a	<	0.4	µg/L	EPA 8270Cm	0.4	0.4	WKL	D, DF
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/29/2012 3:00:00 AM	Benzo(g,h,i)perylene	n/a	<	0.4	µg/L	EPA 8270Cm	0.4	0.4	WKL	D, DF
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/29/2012 3:00:00 AM	Benzo(k)fluoranthene	n/a	<	0.4	µg/L	EPA 8270Cm	0.4	0.4	WKL	D, DF
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/28/2012 1:36:00 AM	Bis(2-chloroethoxy)methane	n/a	<	1	µg/L	EPA 625	1	4	WKL	D, DF

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/28/2012 1:36:00 AM	Bis(2-chloroethyl)ether	n/a	<	1.1	µg/L	EPA 625	1.1	4	WKL	D, DF
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/28/2012 1:36:00 AM	Bis(2-chloroisopropyl)ether	n/a	<	1.5	µg/L	EPA 625	1.5	4	WKL	D, DF
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	12/4/2012 5:54:00 AM	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	12/4/2012 5:54:00 AM	Bis(2-ethylhexyl)phthalate	n/a	DNQ	1.9	µg/L	EPA 525.2	1.1	3	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/28/2012 1:36:00 AM	Butyl benzyl phthalate	n/a	<	0.72	µg/L	EPA 625	0.72	4	WKL	D, DF
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/29/2012 3:00:00 AM	Chrysene	n/a	<	0.4	µg/L	EPA 8270Cm	0.4	0.4	WKL	D, DF
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/29/2012 3:00:00 AM	Dibenz(a,h)anthracene	n/a	<	0.4	µg/L	EPA 8270Cm	0.4	0.4	WKL	D, DF
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/28/2012 1:36:00 AM	Diethyl phthalate	n/a	DNQ	0.64	µg/L	EPA 625	0.6	4	WKL	D, DF
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/28/2012 1:36:00 AM	Dimethyl phthalate	n/a	<	0.72	µg/L	EPA 625	0.72	4	WKL	D, DF
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/28/2012 1:36:00 AM	Di-n-butylphthalate	n/a	<	0.96	µg/L	EPA 625	0.96	4	WKL	D, DF
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/28/2012 1:36:00 AM	Di-n-octylphthalate	n/a	<	0.76	µg/L	EPA 625	0.76	4	WKL	D, DF
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/29/2012 3:00:00 AM	Fluoranthene	n/a	<	0.4	µg/L	EPA 8270Cm	0.4	0.4	WKL	D, DF
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/29/2012 3:00:00 AM	Fluorene	n/a	<	0.4	µg/L	EPA 8270Cm	0.4	0.4	WKL	D, DF, EUM
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/28/2012 1:36:00 AM	Hexachlorobenzene	n/a	<	2	µg/L	EPA 625	2	4	WKL	D, DF
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/28/2012 1:36:00 AM	Hexachlorobutadiene	n/a	<	1.9	µg/L	EPA 625	1.9	4	WKL	D, DF
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/28/2012 1:36:00 AM	Hexachlorocyclopentadiene	n/a	<	5.8	µg/L	EPA 625	5.8	20	WKL	D, DF
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/28/2012 1:36:00 AM	Hexachloroethane	n/a	<	2.1	µg/L	EPA 625	2.1	4	WKL	D, DF
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/29/2012 3:00:00 AM	Indeno(1,2,3-cd)pyrene	n/a	<	0.4	µg/L	EPA 8270Cm	0.4	0.4	WKL	D, DF
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/28/2012 1:36:00 AM	Isophorone	n/a	<	0.84	µg/L	EPA 625	0.84	4	WKL	D, DF
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/29/2012 3:00:00 AM	Naphthalene	n/a	<	0.4	µg/L	EPA 8270Cm	0.4	0.4	WKL	D, DF
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/28/2012 1:36:00 AM	Nitrobenzene	n/a	<	1.4	µg/L	EPA 625	1.4	4	WKL	D, DF
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/28/2012 1:36:00 AM	N-Nitrosodimethylamine	n/a	<	0.56	µg/L	EPA 625	0.56	4	WKL	D, DF, EUM
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/28/2012 1:36:00 AM	N-Nitrosodi-N-propylamine	n/a	<	1	µg/L	EPA 625	1	4	WKL	D, DF
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/28/2012 1:36:00 AM	N-Nitrosodiphenylamine	n/a	<	0.76	µg/L	EPA 625	0.76	4	WKL	D, DF
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/29/2012 3:00:00 AM	Phenanthrene	n/a	<	0.4	µg/L	EPA 8270Cm	0.4	0.4	WKL	D, DF, EUM
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/29/2012 7:33:00 PM	Phenol	n/a	<	1.4	µg/L	EPA 8270Cm	1.4	4	WKL	D, DF
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/29/2012 3:00:00 AM	Pyrene	n/a	<	0.4	µg/L	EPA 8270Cm	0.4	0.4	WKL	D, DF, EUM
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/28/2012 3:41:00 AM	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/28/2012 3:41:00 AM	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/28/2012 3:41:00 AM	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/28/2012 3:41:00 AM	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/28/2012 3:41:00 AM	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/28/2012 3:41:00 AM	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/28/2012 3:41:00 AM	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	12/1/2012 11:57:00 PM	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	12/1/2012 11:57:00 PM	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	12/1/2012 11:57:00 PM	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	12/1/2012 11:57:00 PM	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	12/1/2012 11:57:00 PM	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/28/2012 3:41:00 AM	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/28/2012 3:41:00 AM	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/28/2012 3:41:00 AM	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	12/1/2012 11:57:00 PM	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	12/4/2012 5:54:00 AM	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/28/2012 3:41:00 AM	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/28/2012 3:41:00 AM	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/28/2012 3:41:00 AM	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	12/4/2012 5:54:00 AM	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	12/13/2012 2:49:00 PM	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	EUM
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	12/1/2012 11:57:00 PM	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/28/2012 3:41:00 AM	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	12/13/2012 2:49:00 PM	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	12/4/2012 5:54:00 AM	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	12/4/2012 5:54:00 AM	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	12/4/2012 5:54:00 AM	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/28/2012 3:41:00 AM	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	12/4/2012 5:54:00 AM	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	12/13/2012 2:49:00 PM	Chlorpyrifos	n/a	=	0.047	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	12/13/2012 2:49:00 PM	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	12/4/2012 5:54:00 AM	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	12/1/2012 11:57:00 PM	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	12/1/2012 11:57:00 PM	DCPA (Dacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/28/2012 3:41:00 AM	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	12/13/2012 2:49:00 PM	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	12/13/2012 2:49:00 PM	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	12/13/2012 2:49:00 PM	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	12/1/2012 11:57:00 PM	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	12/1/2012 11:57:00 PM	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	12/13/2012 2:49:00 PM	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/28/2012 3:41:00 AM	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	12/13/2012 2:49:00 PM	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	12/1/2012 11:57:00 PM	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	12/4/2012 5:54:00 AM	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	12/13/2012 2:49:00 PM	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/28/2012 3:41:00 AM	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/28/2012 3:41:00 AM	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/28/2012 3:41:00 AM	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/28/2012 3:41:00 AM	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/28/2012 3:41:00 AM	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	12/4/2012 5:54:00 AM	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	12/13/2012 2:49:00 PM	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	12/13/2012 2:49:00 PM	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	12/13/2012 2:49:00 PM	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	12/13/2012 2:49:00 PM	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/28/2012 3:41:00 AM	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/28/2012 3:41:00 AM	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/28/2012 6:40:00 PM	Glyphosate	n/a	=	94	µg/L	EPA 547	9	25	WKL	D
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/28/2012 3:41:00 AM	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/28/2012 3:41:00 AM	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	12/13/2012 2:49:00 PM	Malathion	n/a	=	0.065	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	12/13/2012 2:49:00 PM	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/28/2012 3:41:00 AM	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	12/13/2012 2:49:00 PM	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	12/4/2012 5:54:00 AM	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	12/4/2012 5:54:00 AM	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	12/13/2012 2:49:00 PM	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	12/4/2012 5:54:00 AM	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	12/13/2012 2:49:00 PM	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.1	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	12/1/2012 11:57:00 PM	Pentachlorophenol	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.2	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	12/13/2012 2:49:00 PM	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	12/1/2012 11:57:00 PM	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	12/4/2012 5:54:00 AM	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	12/4/2012 5:54:00 AM	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	12/13/2012 2:49:00 PM	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	12/4/2012 5:54:00 AM	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	12/13/2012 2:49:00 PM	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	12/4/2012 5:54:00 AM	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	12/4/2012 5:54:00 AM	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	12/13/2012 2:49:00 PM	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	11/28/2012 3:41:00 AM	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	12/13/2012 2:49:00 PM	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-VEN	2012/13-2	Wet	11/18/2012 10:05:00 AM	12/4/2012 5:54:00 AM	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-VEN	2012/13-3	Wet	2/19/2013 7:40:00 PM	2/20/2013 6:30:00 PM	E. Coli	n/a	=	9208	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-VEN	2012/13-3	Wet	2/19/2013 7:40:00 PM	2/22/2013 10:26:00 PM	Fecal Coliform	n/a	=	22000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-VEN	2012/13-3	Wet	2/19/2013 7:40:00 PM	2/20/2013 6:30:00 PM	Total Coliform	n/a	=	648800	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	
MO-VEN	2012/13-3	Wet	2/19/2013 7:40:00 PM	2/19/2013 7:40:00 PM	Conductivity	n/a	=	128.5	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-VEN	2012/13-3	Wet	2/19/2013 7:40:00 PM	3/2/2013 4:15:00 PM	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-VEN	2012/13-3	Wet	2/19/2013 7:40:00 PM	2/19/2013 7:40:00 PM	DO	n/a	=	84.4	%	Field Meter	-88	0.1	Field Crew	
MO-VEN	2012/13-3	Wet	2/19/2013 7:40:00 PM	2/19/2013 7:40:00 PM	DO	n/a	=	8.85	mg/L	Field Meter	-88	0.3	Field Crew	
MO-VEN	2012/13-3	Wet	2/19/2013 7:40:00 PM	2/19/2013 7:40:00 PM	pH	n/a	=	7.1	pH Units	Field Meter	-88	0.01	Field Crew	
MO-VEN	2012/13-3	Wet	2/19/2013 7:40:00 PM	2/19/2013 7:40:00 PM	Salinity	n/a	=	100	mg/L	Field Meter	-88	100	Field Crew	
MO-VEN	2012/13-3	Wet	2/19/2013 7:40:00 PM	2/19/2013 7:40:00 PM	Specific Conductance	n/a	=	170.4	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-VEN	2012/13-3	Wet	2/19/2013 7:40:00 PM	2/19/2013 7:40:00 PM	Temperature	n/a	=	12.2	°C	Field Meter	-88	0.1	Field Crew	
MO-VEN	2012/13-3	Wet	2/19/2013 7:40:00 PM	3/4/2013 6:09:00 PM	Oil and Grease	n/a	DNQ	2.2	mg/L	EPA 1664A	1.3	5	WKL	
MO-VEN	2012/13-3	Wet	2/19/2013 7:40:00 PM	3/4/2013 6:09:00 PM	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-VEN	2012/13-3	Wet	2/19/2013 7:40:00 PM	2/28/2013 2:42:00 AM	2-Chloroethyl vinyl ether	n/a	<	0.61	µg/L	EPA 524.2	0.61	1	WKL	
MO-VEN	2012/13-3	Wet	2/19/2013 7:40:00 PM	2/28/2013 2:42:00 AM	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	2/28/2013 12:03:00 PM	Chloride	n/a	=	20	mg/L	EPA 300.0	0.1	0.5	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	2/28/2013 12:03:00 PM	Fluoride	n/a	=	0.17	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/1/2013 7:35:00 AM	Perchlorate	n/a	<	0.95	µg/L	EPA 314.0	0.95	2	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	2/25/2013 1:55:00 PM	Calcium	Total	=	32.8	mg/L	EPA 200.7	0.0156	0.1	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	2/25/2013 1:55:00 PM	Magnesium	Total	=	7.93	mg/L	EPA 200.7	0.0121	0.1	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	2/25/2013 10:23:00 PM	Alkalinity as CaCO3	n/a	=	60	mg/L	SM 2320 B	0.56	2	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	2/26/2013 5:11:00 PM	BOD	n/a	=	19	mg/L	SM 5210 B	0.1	2	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/2/2013 4:05:00 PM	COD	n/a	=	270	mg/L	EPA 410.4	0.73	5	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	2/25/2013 1:55:00 PM	Hardness as CaCO3	Total	=	115	mg/L	EPA 200.7	0.0885	0.662	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	2/21/2013 9:38:00 PM	MBAS	n/a	=	0.7	mg/L	SM 5540 C	0.076	0.2	WKL	D
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	2/25/2013 6:24:00 PM	Phenolics	n/a	=	0.1	mg/L	EPA 420.4	0.0042	0.01	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/4/2013 7:13:00 PM	Specific Conductance	n/a	=	360	µmhos/cm	SM 2510 B	0.23	2	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	2/22/2013 3:37:00 PM	Total Dissolved Solids	n/a	=	200	mg/L	SM 2540 C	4	10	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/4/2013 10:20:00 AM	Total Organic Carbon	n/a	=	26	mg/L	SM 5310 C	0.09	3	WKL	D
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	2/26/2013 8:27:00 PM	Total Suspended Solids	n/a	=	270	mg/L	SM 2540 D	5	5	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	2/21/2013 7:26:00 PM	Turbidity	n/a	=	41	NTU	EPA 180.1	0.024	0.1	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	2/26/2013 8:27:00 PM	Volatile Suspended Solids	n/a	=	70	mg/L	EPA 160.4	3.1	5	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/5/2013 2:36:00 PM	Aluminum	Dissolved	=	24	µg/L	EPA 200.8	0.61	5	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/5/2013 3:08:00 PM	Aluminum	Total	=	4000	µg/L	EPA 200.8	2.1	5	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/5/2013 2:36:00 PM	Antimony	Dissolved	=	1.2	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/5/2013 3:08:00 PM	Antimony	Total	=	2.7	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/5/2013 2:36:00 PM	Arsenic	Dissolved	=	1.4	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/5/2013 3:08:00 PM	Arsenic	Total	=	3.8	µg/L	EPA 200.8	0.13	0.4	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/5/2013 2:36:00 PM	Beryllium	Dissolved	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/5/2013 3:08:00 PM	Beryllium	Total	=	0.14	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/5/2013 2:36:00 PM	Cadmium	Dissolved	DNQ	0.06	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/5/2013 3:08:00 PM	Cadmium	Total	=	0.67	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/5/2013 2:36:00 PM	Chromium	Dissolved	=	1	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/5/2013 3:08:00 PM	Chromium	Total	=	8.8	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/4/2013 9:56:00 AM	Chromium VI	n/a	DNQ	0.28	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/5/2013 2:36:00 PM	Copper	Dissolved	=	14	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/5/2013 3:08:00 PM	Copper	Total	=	70	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	2/25/2013 1:53:00 PM	Iron	Dissolved	=	79	µg/L	EPA 200.7	1.1	10	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	2/25/2013 1:55:00 PM	Iron	Total	=	6100	µg/L	EPA 200.7	1.1	10	WKL	GB
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/5/2013 2:36:00 PM	Lead	Dissolved	=	0.43	µg/L	EPA 200.8	0.011	0.2	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/5/2013 3:08:00 PM	Lead	Total	=	20	µg/L	EPA 200.8	0.035	0.2	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	2/25/2013 6:28:00 PM	Mercury	Dissolved	DNQ	15	ng/L	EPA 245.1	3.9	50	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	2/25/2013 6:28:00 PM	Mercury	Total	DNQ	42	ng/L	EPA 245.1	3.9	50	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/5/2013 2:36:00 PM	Nickel	Dissolved	=	4.4	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/5/2013 3:08:00 PM	Nickel	Total	=	14	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/5/2013 2:36:00 PM	Selenium	Dissolved	=	0.57	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/5/2013 3:08:00 PM	Selenium	Total	=	0.93	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/5/2013 2:36:00 PM	Silver	Dissolved	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/5/2013 3:08:00 PM	Silver	Total	DNQ	0.16	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/5/2013 2:36:00 PM	Thallium	Dissolved	<	0.009	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/5/2013 3:08:00 PM	Thallium	Total	DNQ	0.07	µg/L	EPA 200.8	0.034	0.2	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/5/2013 2:36:00 PM	Zinc	Dissolved	=	66	µg/L	EPA 200.8	1.1	5	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/5/2013 3:08:00 PM	Zinc	Total	=	440	µg/L	EPA 200.8	1.1	5	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/12/2013 6:43:00 PM	Ammonia as N	n/a	=	0.83	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	2/21/2013 7:54:00 PM	Nitrate + Nitrite as N	n/a	=	0.94	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/14/2013 4:03:00 PM	Phosphorus as P	Dissolved	=	0.17	mg/L	EPA 365.1	0.0014	0.01	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/5/2013 3:26:00 PM	Phosphorus as P	Total	=	1.1	mg/L	EPA 365.1	0.014	0.1	WKL	D
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/12/2013 10:34:00 PM	TKN	n/a	=	5.4	mg/L	EPA 351.2	0.15	0.2	WKL	D
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/6/2013 9:18:00 PM	1,2,4-Trichlorobenzene	n/a	<	5.5	µg/L	EPA 625	5.5	10	WKL	D
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/6/2013 9:18:00 PM	1,2-Dichlorobenzene	n/a	<	5.7	µg/L	EPA 625	5.7	10	WKL	D
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/6/2013 9:18:00 PM	1,2-Diphenylhydrazine	n/a	<	2.5	µg/L	EPA 625	2.5	10	WKL	D
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/6/2013 9:18:00 PM	1,3-Dichlorobenzene	n/a	<	5.3	µg/L	EPA 625	5.3	10	WKL	D
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/6/2013 9:18:00 PM	1,4-Dichlorobenzene	n/a	<	5.5	µg/L	EPA 625	5.5	10	WKL	D
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/21/2013 7:35:00 AM	1-Methylnaphthalene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/20/2013 11:00:00 PM	2,4,5-Trichlorophenol	n/a	<	2.9	µg/L	EPA 8270Cm	2.9	10	WKL	D
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/20/2013 11:00:00 PM	2,4,6-Trichlorophenol	n/a	<	3	µg/L	EPA 8270Cm	3	10	WKL	D
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/20/2013 11:00:00 PM	2,4-Dichlorophenol	n/a	<	5.1	µg/L	EPA 8270Cm	5.1	10	WKL	D
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/20/2013 11:00:00 PM	2,4-Dimethylphenol	n/a	<	10	µg/L	EPA 8270Cm	10	20	WKL	D
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/20/2013 11:00:00 PM	2,4-Dinitrophenol	n/a	<	10	µg/L	EPA 8270Cm	10	20	WKL	D
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/6/2013 9:18:00 PM	2,4-Dinitrotoluene	n/a	<	1.8	µg/L	EPA 625	1.8	10	WKL	D

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/6/2013 9:18:00 PM	2,6-Dinitrotoluene	n/a	<	2.7	µg/L	EPA 625	2.7	10	WKL	D
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/6/2013 9:18:00 PM	2-Chloronaphthalene	n/a	<	4.5	µg/L	EPA 625	4.5	10	WKL	D
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/20/2013 11:00:00 PM	2-Chlorophenol	n/a	<	6.5	µg/L	EPA 8270Cm	6.5	10	WKL	D
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/21/2013 7:35:00 AM	2-Methylnaphthalene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/20/2013 11:00:00 PM	2-Methylphenol	n/a	<	3.4	µg/L	EPA 8270Cm	3.4	10	WKL	D
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/20/2013 11:00:00 PM	2-Nitrophenol	n/a	<	7.1	µg/L	EPA 8270Cm	7.1	10	WKL	D
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/6/2013 9:18:00 PM	3,3'-Dichlorobenzidine	n/a	<	12	µg/L	EPA 625	12	50	WKL	D
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/20/2013 11:00:00 PM	3-/4-Methylphenol	n/a	<	3	µg/L	EPA 8270Cm	3	10	WKL	D
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/20/2013 11:00:00 PM	4,6-Dinitro-2-methylphenol	n/a	<	1.4	µg/L	EPA 8270Cm	1.4	10	WKL	D
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/6/2013 9:18:00 PM	4-Bromophenyl phenyl ether	n/a	<	3.6	µg/L	EPA 625	3.6	10	WKL	D
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/20/2013 11:00:00 PM	4-Chloro-3-methylphenol	n/a	<	3.7	µg/L	EPA 8270Cm	3.7	10	WKL	D
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/6/2013 9:18:00 PM	4-Chlorophenyl phenyl ether	n/a	<	4.1	µg/L	EPA 625	4.1	10	WKL	D
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/20/2013 11:00:00 PM	4-Nitrophenol	n/a	<	10	µg/L	EPA 8270Cm	10	20	WKL	D
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/21/2013 7:35:00 AM	Acenaphthene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/21/2013 7:35:00 AM	Acenaphthylene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/21/2013 7:35:00 AM	Anthracene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/21/2013 7:35:00 AM	Benz(a)anthracene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/6/2013 9:18:00 PM	Benzidine	n/a	<	37	µg/L	EPA 625	37	100	WKL	D
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/15/2013 2:19:00 AM	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/21/2013 7:35:00 AM	Benzo(b)fluoranthene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/21/2013 7:35:00 AM	Benzo(g,h,i)perylene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/21/2013 7:35:00 AM	Benzo(k)fluoranthene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/6/2013 9:18:00 PM	Bis(2-chloroethoxy)methane	n/a	<	2.5	µg/L	EPA 625	2.5	10	WKL	D
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/6/2013 9:18:00 PM	Bis(2-chloroethyl)ether	n/a	<	2.7	µg/L	EPA 625	2.7	10	WKL	D
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/6/2013 9:18:00 PM	Bis(2-chloroisopropyl)ether	n/a	<	3.8	µg/L	EPA 625	3.8	10	WKL	D
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/15/2013 2:19:00 AM	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/15/2013 2:19:00 AM	Bis(2-ethylhexyl)phthalate	n/a	DNQ	1.1	µg/L	EPA 525.2	1.1	3	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/6/2013 9:18:00 PM	Butyl benzyl phthalate	n/a	<	1.8	µg/L	EPA 625	1.8	10	WKL	D
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/21/2013 7:35:00 AM	Chrysene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/21/2013 7:35:00 AM	Dibenz(a,h)anthracene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/6/2013 9:18:00 PM	Diethyl phthalate	n/a	<	1.5	µg/L	EPA 625	1.5	10	WKL	D
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/6/2013 9:18:00 PM	Dimethyl phthalate	n/a	<	1.8	µg/L	EPA 625	1.8	10	WKL	D
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/6/2013 9:18:00 PM	Di-n-butylphthalate	n/a	<	2.4	µg/L	EPA 625	2.4	10	WKL	D
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/6/2013 9:18:00 PM	Di-n-octylphthalate	n/a	<	1.9	µg/L	EPA 625	1.9	10	WKL	D
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/21/2013 7:35:00 AM	Fluoranthene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/21/2013 7:35:00 AM	Fluorene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/6/2013 9:18:00 PM	Hexachlorobenzene	n/a	<	4.9	µg/L	EPA 625	4.9	10	WKL	D
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/6/2013 9:18:00 PM	Hexachlorobutadiene	n/a	<	4.7	µg/L	EPA 625	4.7	10	WKL	D
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/6/2013 9:18:00 PM	Hexachlorocyclopentadiene	n/a	<	15	µg/L	EPA 625	15	50	WKL	D
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/6/2013 9:18:00 PM	Hexachloroethane	n/a	<	5.2	µg/L	EPA 625	5.2	10	WKL	D
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/21/2013 7:35:00 AM	Indeno(1,2,3-cd)pyrene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/6/2013 9:18:00 PM	Isophorone	n/a	<	2.1	µg/L	EPA 625	2.1	10	WKL	D
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/21/2013 7:35:00 AM	Naphthalene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/6/2013 9:18:00 PM	Nitrobenzene	n/a	<	3.6	µg/L	EPA 625	3.6	10	WKL	D
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/6/2013 9:18:00 PM	N-Nitrosodimethylamine	n/a	<	1.4	µg/L	EPA 625	1.4	10	WKL	D
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/6/2013 9:18:00 PM	N-Nitrosodi-N-propylamine	n/a	<	2.6	µg/L	EPA 625	2.6	10	WKL	D
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/6/2013 9:18:00 PM	N-Nitrosodiphenylamine	n/a	<	1.9	µg/L	EPA 625	1.9	10	WKL	D
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/21/2013 7:35:00 AM	Phenanthrene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/20/2013 11:00:00 PM	Phenol	n/a	<	3.5	µg/L	EPA 8270Cm	3.5	10	WKL	D
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/21/2013 7:35:00 AM	Pyrene	n/a	<	1	µg/L	EPA 8270Cm	1	1	WKL	D
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/14/2013 1:36:00 AM	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/14/2013 1:36:00 AM	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/14/2013 1:36:00 AM	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/14/2013 1:36:00 AM	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/14/2013 1:36:00 AM	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/14/2013 1:36:00 AM	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/14/2013 1:36:00 AM	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	2/26/2013 5:26:00 PM	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	2/26/2013 5:26:00 PM	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	2/26/2013 5:26:00 PM	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	2/26/2013 5:26:00 PM	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	2/26/2013 5:26:00 PM	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/14/2013 1:36:00 AM	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/14/2013 1:36:00 AM	4,4'-DDE	n/a	DNQ	0.027	µg/L	EPA 608	0.0025	0.05	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/14/2013 1:36:00 AM	4,4'-DDT	n/a	=	0.012	µg/L	EPA 608	0.0031	0.01	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	2/26/2013 5:26:00 PM	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/15/2013 2:19:00 AM	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/14/2013 1:36:00 AM	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/14/2013 1:36:00 AM	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/14/2013 1:36:00 AM	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/15/2013 2:19:00 AM	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/15/2013 7:57:00 AM	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	2/26/2013 5:26:00 PM	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/14/2013 1:36:00 AM	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/15/2013 7:57:00 AM	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/15/2013 2:19:00 AM	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/15/2013 2:19:00 AM	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/15/2013 2:19:00 AM	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/14/2013 1:36:00 AM	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/15/2013 2:19:00 AM	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/15/2013 7:57:00 AM	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/15/2013 7:57:00 AM	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/15/2013 2:19:00 AM	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	2/26/2013 5:26:00 PM	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	2/26/2013 5:26:00 PM	DCPA (Dacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/14/2013 1:36:00 AM	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/15/2013 7:57:00 AM	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/15/2013 7:57:00 AM	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/15/2013 7:57:00 AM	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	2/26/2013 5:26:00 PM	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	2/26/2013 5:26:00 PM	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/15/2013 7:57:00 AM	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/14/2013 1:36:00 AM	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/15/2013 7:57:00 AM	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	2/26/2013 5:26:00 PM	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/15/2013 2:19:00 AM	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/15/2013 7:57:00 AM	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/14/2013 1:36:00 AM	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/14/2013 1:36:00 AM	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/14/2013 1:36:00 AM	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/14/2013 1:36:00 AM	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/14/2013 1:36:00 AM	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/15/2013 2:19:00 AM	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/15/2013 7:57:00 AM	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/15/2013 7:57:00 AM	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/15/2013 7:57:00 AM	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/15/2013 7:57:00 AM	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/14/2013 1:36:00 AM	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/14/2013 1:36:00 AM	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	2/25/2013 5:50:00 PM	Glyphosate	n/a	=	31	µg/L	EPA 547	1.8	5	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/14/2013 1:36:00 AM	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/14/2013 1:36:00 AM	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/15/2013 7:57:00 AM	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/15/2013 7:57:00 AM	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/14/2013 1:36:00 AM	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/15/2013 7:57:00 AM	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/15/2013 2:19:00 AM	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/15/2013 2:19:00 AM	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/15/2013 7:57:00 AM	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/15/2013 2:19:00 AM	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/15/2013 7:57:00 AM	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	2/26/2013 5:26:00 PM	Pentachlorophenol	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.2	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/15/2013 7:57:00 AM	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	2/26/2013 5:26:00 PM	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/15/2013 2:19:00 AM	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/15/2013 2:19:00 AM	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/15/2013 7:57:00 AM	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/15/2013 2:19:00 AM	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/15/2013 7:57:00 AM	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/15/2013 2:19:00 AM	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/15/2013 2:19:00 AM	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/15/2013 7:57:00 AM	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/14/2013 1:36:00 AM	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/15/2013 7:57:00 AM	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-VEN	2012/13-3	Wet	2/20/2013 9:25:00 AM	3/15/2013 2:19:00 AM	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-VEN	2012/13-4	Wet	3/7/2013 9:35:00 PM	3/8/2013 11:02:00 PM	E. Coli	n/a	=	3448	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-VEN	2012/13-4	Wet	3/7/2013 9:35:00 PM	3/12/2013 3:13:00 AM	Fecal Coliform	n/a	=	9000	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-VEN	2012/13-4	Wet	3/7/2013 9:35:00 PM	3/8/2013 11:02:00 PM	Total Coliform	n/a	=	157600	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	
MO-VEN	2012/13-4	Wet	3/7/2013 9:35:00 PM	3/7/2013 9:35:00 PM	Conductivity	n/a	=	239	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-VEN	2012/13-4	Wet	3/7/2013 9:35:00 PM	3/22/2013 2:00:00 PM	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-VEN	2012/13-4	Wet	3/7/2013 9:35:00 PM	3/7/2013 9:35:00 PM	DO	n/a	=	82	%	Field Meter	-88	0.1	Field Crew	
MO-VEN	2012/13-4	Wet	3/7/2013 9:35:00 PM	3/7/2013 9:35:00 PM	DO	n/a	=	8.35	mg/L	Field Meter	-88	0.3	Field Crew	
MO-VEN	2012/13-4	Wet	3/7/2013 9:35:00 PM	3/7/2013 9:35:00 PM	pH	n/a	=	7.77	pH Units	Field Meter	-88	0.01	Field Crew	
MO-VEN	2012/13-4	Wet	3/7/2013 9:35:00 PM	3/7/2013 9:35:00 PM	Salinity	n/a	=	100	mg/L	Field Meter	-88	100	Field Crew	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-VEN	2012/13-4	Wet	3/7/2013 9:35:00 PM	3/7/2013 9:35:00 PM	Specific Conductance	n/a	=	302.8	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-VEN	2012/13-4	Wet	3/7/2013 9:35:00 PM	3/7/2013 9:35:00 PM	Temperature	n/a	=	13.9	°C	Field Meter	-88	0.1	Field Crew	
MO-VEN	2012/13-4	Wet	3/7/2013 9:35:00 PM	3/14/2013 3:00:00 PM	Oil and Grease	n/a	DNQ	3.4	mg/L	EPA 1664A	1.3	5	WKL	
MO-VEN	2012/13-4	Wet	3/7/2013 9:35:00 PM	3/14/2013 3:00:00 PM	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-VEN	2012/13-4	Wet	3/7/2013 9:35:00 PM	3/11/2013 6:09:00 PM	2-Chloroethyl vinyl ether	n/a	<	0.61	µg/L	EPA 524.2	0.61	1	WKL	
MO-VEN	2012/13-4	Wet	3/7/2013 9:35:00 PM	3/11/2013 6:09:00 PM	Methyl tert-butyl ether (MTBE)	n/a	<	0.19	µg/L	EPA 524.2	0.19	2	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/19/2013 8:50:00 PM	Chloride	n/a	=	37	mg/L	EPA 300.0	0.1	0.5	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/19/2013 8:50:00 PM	Fluoride	n/a	=	0.41	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/19/2013 5:42:00 PM	Perchlorate	n/a	=	5.7	µg/L	EPA 314.0	1.9	4	WKL	D
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/14/2013 11:46:00 AM	Calcium	Total	=	42.9	mg/L	EPA 200.7	0.0156	0.1	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/14/2013 11:46:00 AM	Magnesium	Total	=	15.4	mg/L	EPA 200.7	0.0121	0.1	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/22/2013 10:05:00 AM	Alkalinity as CaCO3	n/a	=	76	mg/L	SM 2320 B	0.56	10	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/14/2013 2:00:00 PM	BOD	n/a	=	40	mg/L	SM 5210 B	0.1	2	WKL	EST
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/20/2013 10:56:00 PM	COD	n/a	=	250	mg/L	EPA 410.4	0.73	5	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/14/2013 11:46:00 AM	Hardness as CaCO3	Total	=	171	mg/L	EPA 200.7	0.0885	0.662	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/9/2013 8:43:00 PM	MBAS	n/a	=	1.1	mg/L	SM 5540 C	0.076	0.2	WKL	D
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/26/2013 12:03:00 PM	Phenolics	n/a	=	0.083	mg/L	EPA 420.4	0.0042	0.01	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/18/2013 3:18:00 PM	Specific Conductance	n/a	=	630	µmhos/cm	SM 2510 B	0.23	2	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/12/2013 9:45:00 PM	Total Dissolved Solids	n/a	=	450	mg/L	SM 2540 C	4	10	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/14/2013 2:56:00 PM	Total Organic Carbon	n/a	=	48	mg/L	SM 5310 C	0.36	12	WKL	D
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/12/2013 8:00:00 PM	Total Suspended Solids	n/a	=	140	mg/L	SM 2540 D	5	5	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/9/2013 6:55:00 PM	Turbidity	n/a	=	51	NTU	EPA 180.1	0.024	0.1	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/12/2013 8:00:00 PM	Volatile Suspended Solids	n/a	=	60	mg/L	EPA 160.4	3.1	5	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	4/1/2013 6:33:00 PM	Aluminum	Dissolved	=	46	µg/L	EPA 200.8	0.61	5	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	4/1/2013 9:07:00 PM	Aluminum	Total	=	1700	µg/L	EPA 200.8	2.1	5	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	4/1/2013 6:33:00 PM	Antimony	Dissolved	=	2	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	4/1/2013 9:07:00 PM	Antimony	Total	=	2.8	µg/L	EPA 200.8	0.04	0.5	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	4/1/2013 6:33:00 PM	Arsenic	Dissolved	=	2.1	µg/L	EPA 200.8	0.036	0.4	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	4/1/2013 9:07:00 PM	Arsenic	Total	=	2.9	µg/L	EPA 200.8	0.13	0.4	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	4/2/2013 1:19:00 PM	Beryllium	Dissolved	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	4/2/2013 2:09:00 PM	Beryllium	Total	<	0.088	µg/L	EPA 200.8	0.088	0.1	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	4/1/2013 6:33:00 PM	Cadmium	Dissolved	=	0.11	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	4/1/2013 9:07:00 PM	Cadmium	Total	=	0.35	µg/L	EPA 200.8	0.02	0.1	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	4/1/2013 6:33:00 PM	Chromium	Dissolved	=	1.6	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	4/1/2013 9:07:00 PM	Chromium	Total	=	4.9	µg/L	EPA 200.8	0.074	0.2	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/13/2013 3:51:00 PM	Chromium VI	n/a	=	0.82	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	4/1/2013 6:33:00 PM	Copper	Dissolved	=	25	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	4/1/2013 9:07:00 PM	Copper	Total	=	57	µg/L	EPA 200.8	0.27	0.5	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/14/2013 11:44:00 AM	Iron	Dissolved	=	160	µg/L	EPA 200.7	1.1	10	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/14/2013 11:46:00 AM	Iron	Total	=	2700	µg/L	EPA 200.7	1.1	10	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	4/2/2013 1:19:00 PM	Lead	Dissolved	=	0.76	µg/L	EPA 200.8	0.011	0.2	WKL	UL-MB
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	4/2/2013 2:09:00 PM	Lead	Total	=	7.1	µg/L	EPA 200.8	0.035	0.2	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/27/2013 4:49:00 PM	Mercury	Dissolved	DNQ	13	ng/L	EPA 245.1	3.9	50	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	4/3/2013 2:38:00 PM	Mercury	Total	=	73	ng/L	EPA 245.1	3.9	50	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	4/1/2013 6:33:00 PM	Nickel	Dissolved	=	8.6	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	4/1/2013 9:07:00 PM	Nickel	Total	=	12	µg/L	EPA 200.8	0.13	0.8	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	4/1/2013 6:33:00 PM	Selenium	Dissolved	=	1.3	µg/L	EPA 200.8	0.28	0.4	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	4/1/2013 9:07:00 PM	Selenium	Total	=	1.6	µg/L	EPA 200.8	0.28	0.4	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	4/1/2013 6:33:00 PM	Silver	Dissolved	<	0.027	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	4/1/2013 9:07:00 PM	Silver	Total	DNQ	0.04	µg/L	EPA 200.8	0.027	0.2	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	4/1/2013 6:33:00 PM	Thallium	Dissolved	<	0.009	µg/L	EPA 200.8	0.009	0.2	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	4/1/2013 9:07:00 PM	Thallium	Total	DNQ	0.05	µg/L	EPA 200.8	0.034	0.2	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	4/1/2013 6:33:00 PM	Zinc	Dissolved	=	140	µg/L	EPA 200.8	1.1	5	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	4/1/2013 9:07:00 PM	Zinc	Total	=	270	µg/L	EPA 200.8	1.1	5	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/26/2013 1:56:00 PM	Ammonia as N	n/a	=	1	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/11/2013 5:00:00 PM	Nitrate + Nitrite as N	n/a	=	1.3	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	4/4/2013 8:03:00 PM	Phosphorus as P	Dissolved	=	0.3	mg/L	EPA 365.1	0.007	0.05	WKL	D
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/15/2013 2:41:00 PM	Phosphorus as P	Total	=	0.7	mg/L	EPA 365.1	0.007	0.05	WKL	D
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/21/2013 1:33:00 PM	TKN	n/a	=	5.9	mg/L	EPA 351.2	0.15	0.2	WKL	D
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/19/2013 1:43:00 AM	1,2,4-Trichlorobenzene	n/a	<	5.5	µg/L	EPA 625	5.5	10	WKL	D
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/19/2013 1:43:00 AM	1,2-Dichlorobenzene	n/a	<	5.7	µg/L	EPA 625	5.7	10	WKL	D
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/19/2013 1:43:00 AM	1,2-Diphenylhydrazine	n/a	<	2.5	µg/L	EPA 625	2.5	10	WKL	D
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/19/2013 1:43:00 AM	1,3-Dichlorobenzene	n/a	<	5.3	µg/L	EPA 625	5.3	10	WKL	D
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/19/2013 1:43:00 AM	1,4-Dichlorobenzene	n/a	<	5.5	µg/L	EPA 625	5.5	10	WKL	D
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	4/9/2013 10:33:00 PM	1-Methylnaphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	4/11/2013 4:37:00 AM	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	4/11/2013 4:37:00 AM	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	4/11/2013 4:37:00 AM	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	4/11/2013 4:37:00 AM	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	4/11/2013 4:37:00 AM	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/19/2013 1:43:00 AM	2,4-Dinitrotoluene	n/a	<	1.8	µg/L	EPA 625	1.8	10	WKL	D
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/19/2013 1:43:00 AM	2,6-Dinitrotoluene	n/a	<	2.7	µg/L	EPA 625	2.7	10	WKL	D
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/19/2013 1:43:00 AM	2-Chloronaphthalene	n/a	<	4.5	µg/L	EPA 625	4.5	10	WKL	D
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	4/11/2013 4:37:00 AM	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	4/9/2013 10:33:00 PM	2-Methylnaphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	4/11/2013 4:37:00 AM	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	4/11/2013 4:37:00 AM	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/19/2013 1:43:00 AM	3,3'-Dichlorobenzidine	n/a	<	12	µg/L	EPA 625	12	50	WKL	D
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	4/11/2013 4:37:00 AM	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	4/11/2013 4:37:00 AM	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/19/2013 1:43:00 AM	4-Bromophenyl phenyl ether	n/a	<	3.6	µg/L	EPA 625	3.6	10	WKL	D
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	4/11/2013 4:37:00 AM	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/19/2013 1:43:00 AM	4-Chlorophenyl phenyl ether	n/a	<	4.1	µg/L	EPA 625	4.1	10	WKL	D
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	4/11/2013 4:37:00 AM	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	4/9/2013 10:33:00 PM	Acenaphthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	4/9/2013 10:33:00 PM	Acenaphthylene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	4/9/2013 10:33:00 PM	Anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	4/9/2013 10:33:00 PM	Benz(a)anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/19/2013 1:43:00 AM	Benzidine	n/a	<	37	µg/L	EPA 625	37	100	WKL	D
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/26/2013 7:51:00 PM	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	4/9/2013 10:33:00 PM	Benzo(b)fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	4/9/2013 10:33:00 PM	Benzo(g,h,i)perylene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	4/9/2013 10:33:00 PM	Benzo(k)fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/19/2013 1:43:00 AM	Bis(2-chloroethoxy)methane	n/a	<	2.5	µg/L	EPA 625	2.5	10	WKL	D
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/19/2013 1:43:00 AM	Bis(2-chloroethyl)ether	n/a	<	2.7	µg/L	EPA 625	2.7	10	WKL	D
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/19/2013 1:43:00 AM	Bis(2-chloroisopropyl)ether	n/a	<	3.8	µg/L	EPA 625	3.8	10	WKL	D

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/26/2013 7:51:00 PM	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/26/2013 7:51:00 PM	Bis(2-ethylhexyl)phthalate	n/a	=	5.5	µg/L	EPA 525.2	1.1	3	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/19/2013 1:43:00 AM	Butyl benzyl phthalate	n/a	<	1.8	µg/L	EPA 625	1.8	10	WKL	D
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	4/9/2013 10:33:00 PM	Chrysene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	4/9/2013 10:33:00 PM	Dibenz(a,h)anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/19/2013 1:43:00 AM	Diethyl phthalate	n/a	<	1.5	µg/L	EPA 625	1.5	10	WKL	D
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/19/2013 1:43:00 AM	Dimethyl phthalate	n/a	<	1.8	µg/L	EPA 625	1.8	10	WKL	D
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/19/2013 1:43:00 AM	Di-n-butylphthalate	n/a	<	2.4	µg/L	EPA 625	2.4	10	WKL	D
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/19/2013 1:43:00 AM	Di-n-octylphthalate	n/a	<	1.9	µg/L	EPA 625	1.9	10	WKL	D
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	4/9/2013 10:33:00 PM	Fluoranthene	n/a	=	0.11	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	4/9/2013 10:33:00 PM	Fluorene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/19/2013 1:43:00 AM	Hexachlorobenzene	n/a	<	4.9	µg/L	EPA 625	4.9	10	WKL	D
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/19/2013 1:43:00 AM	Hexachlorobutadiene	n/a	<	4.7	µg/L	EPA 625	4.7	10	WKL	D
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/19/2013 1:43:00 AM	Hexachlorocyclopentadiene	n/a	<	15	µg/L	EPA 625	15	50	WKL	D
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/19/2013 1:43:00 AM	Hexachloroethane	n/a	<	5.2	µg/L	EPA 625	5.2	10	WKL	D
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	4/9/2013 10:33:00 PM	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/19/2013 1:43:00 AM	Isophorone	n/a	<	2.1	µg/L	EPA 625	2.1	10	WKL	D
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	4/9/2013 10:33:00 PM	Naphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/19/2013 1:43:00 AM	Nitrobenzene	n/a	<	3.6	µg/L	EPA 625	3.6	10	WKL	D
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/19/2013 1:43:00 AM	N-Nitrosodimethylamine	n/a	<	1.4	µg/L	EPA 625	1.4	10	WKL	D
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/19/2013 1:43:00 AM	N-Nitrosodi-N-propylamine	n/a	<	2.6	µg/L	EPA 625	2.6	10	WKL	D
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/19/2013 1:43:00 AM	N-Nitrosodiphenylamine	n/a	<	1.9	µg/L	EPA 625	1.9	10	WKL	D
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	4/9/2013 10:33:00 PM	Phenanthrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	4/11/2013 4:37:00 AM	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	4/9/2013 10:33:00 PM	Pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/24/2013 7:34:00 AM	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/24/2013 7:34:00 AM	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/24/2013 7:34:00 AM	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/24/2013 7:34:00 AM	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/24/2013 7:34:00 AM	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/24/2013 7:34:00 AM	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/24/2013 7:34:00 AM	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/21/2013 10:20:00 PM	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/21/2013 10:20:00 PM	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/21/2013 10:20:00 PM	2,4-D	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.4	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/21/2013 10:20:00 PM	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/21/2013 10:20:00 PM	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/24/2013 7:34:00 AM	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/24/2013 7:34:00 AM	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/24/2013 7:34:00 AM	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/21/2013 10:20:00 PM	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/26/2013 7:51:00 PM	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/24/2013 7:34:00 AM	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/24/2013 7:34:00 AM	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/24/2013 7:34:00 AM	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/26/2013 7:51:00 PM	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/22/2013 8:33:00 PM	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	LB-LCSR
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/21/2013 10:20:00 PM	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/24/2013 7:34:00 AM	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/22/2013 8:33:00 PM	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/26/2013 7:51:00 PM	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/26/2013 7:51:00 PM	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/26/2013 7:51:00 PM	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/24/2013 7:34:00 AM	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/26/2013 7:51:00 PM	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/22/2013 8:33:00 PM	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/22/2013 8:33:00 PM	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/26/2013 7:51:00 PM	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/21/2013 10:20:00 PM	Dalapon	n/a	<	0.1	µg/L	EPA 515.3	0.1	0.4	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/21/2013 10:20:00 PM	DCPA (Dacthal)	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.1	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/24/2013 7:34:00 AM	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/22/2013 8:33:00 PM	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/22/2013 8:33:00 PM	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/22/2013 8:33:00 PM	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/21/2013 10:20:00 PM	Dicamba	n/a	<	0.12	µg/L	EPA 515.3	0.12	0.6	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/21/2013 10:20:00 PM	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/22/2013 8:33:00 PM	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/24/2013 7:34:00 AM	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/22/2013 8:33:00 PM	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/21/2013 10:20:00 PM	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/26/2013 7:51:00 PM	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/22/2013 8:33:00 PM	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/24/2013 7:34:00 AM	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/24/2013 7:34:00 AM	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/24/2013 7:34:00 AM	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/24/2013 7:34:00 AM	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/24/2013 7:34:00 AM	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/26/2013 7:51:00 PM	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/22/2013 8:33:00 PM	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/22/2013 8:33:00 PM	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/22/2013 8:33:00 PM	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/22/2013 8:33:00 PM	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/24/2013 7:34:00 AM	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/24/2013 7:34:00 AM	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/12/2013 4:53:00 PM	Glyphosate	n/a	=	130	µg/L	EPA 547	9	25	WKL	D
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/24/2013 7:34:00 AM	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/24/2013 7:34:00 AM	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/22/2013 8:33:00 PM	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/22/2013 8:33:00 PM	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/24/2013 7:34:00 AM	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/22/2013 8:33:00 PM	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/26/2013 7:51:00 PM	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/26/2013 7:51:00 PM	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/22/2013 8:33:00 PM	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/26/2013 7:51:00 PM	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/22/2013 8:33:00 PM	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/21/2013 10:20:00 PM	Pentachlorophenol	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.2	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/22/2013 8:33:00 PM	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/21/2013 10:20:00 PM	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/26/2013 7:51:00 PM	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/26/2013 7:51:00 PM	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/22/2013 8:33:00 PM	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/26/2013 7:51:00 PM	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/22/2013 8:33:00 PM	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	LB-LCSR
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/26/2013 7:51:00 PM	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/26/2013 7:51:00 PM	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/22/2013 8:33:00 PM	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/24/2013 7:34:00 AM	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/22/2013 8:33:00 PM	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-VEN	2012/13-4	Wet	3/8/2013 11:33:00 AM	3/26/2013 7:51:00 PM	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/7/2013 9:07:00 PM	Chloride	n/a	=	680	mg/L	EPA 300.0	5	25	WKL	D
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/7/2013 7:06:00 AM	Fluoride	n/a	=	0.73	mg/L	EPA 300.0	0.02	0.1	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/2/2013 5:38:00 PM	Perchlorate	n/a	<	4.8	µg/L	EPA 314.0	4.8	10	WKL	D
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	4/24/2013 9:58:00 AM	E. Coli	n/a	=	51	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	4/27/2013 1:16:00 PM	Fecal Coliform	n/a	=	80	MPN/100 mL	SM 9221 E	2	2	VCHCA	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	4/24/2013 9:58:00 AM	Total Coliform	n/a	=	75400	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/6/2013 5:24:00 PM	Calcium	Total	=	395	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/6/2013 5:24:00 PM	Magnesium	Total	=	326	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/1/2013 4:26:00 PM	Alkalinity as CaCO3	n/a	=	190	mg/L	SM 2320 B	0.56	10	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	4/29/2013 5:45:00 PM	BOD	n/a	=	28	mg/L	SM 5210 B	0.1	2	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	4/27/2013 1:07:00 PM	COD	n/a	=	190	mg/L	EPA 410.4	0.73	5	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	4/23/2013 9:15:00 AM	Conductivity	n/a	=	7510	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/7/2013 10:44:00 AM	Cyanide	Total	<	0.0027	mg/L	EPA 335.4	0.0027	0.005	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	4/23/2013 9:15:00 AM	DO	n/a	=	91	%	Field Meter	-88	0.1	Field Crew	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	4/23/2013 9:15:00 AM	DO	n/a	=	8.18	mg/L	Field Meter	-88	0.3	Field Crew	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/6/2013 5:24:00 PM	Hardness as CaCO3	Total	=	2330	mg/L	EPA 200.7	0.0894	0.662	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	4/24/2013 8:29:00 PM	MBAS	n/a	=	0.21	mg/L	SM 5540 C	0.019	0.05	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	4/23/2013 9:15:00 AM	pH	n/a	=	8.29	pH Units	Field Meter	-88	0.01	Field Crew	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	4/26/2013 12:38:00 PM	Phenolics	n/a	=	0.018	mg/L	EPA 420.4	0.0042	0.01	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	4/23/2013 9:15:00 AM	Salinity	n/a	=	4800	mg/L	Field Meter	-88	100	Field Crew	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	4/23/2013 9:15:00 AM	Specific Conductance	n/a	=	8560	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/3/2013 11:25:00 AM	Specific Conductance	n/a	=	13000	µmhos/cm	SM 2510 B	2.3	20	WKL	D
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	4/23/2013 9:15:00 AM	Temperature	n/a	=	18.5	°C	Field Meter	-88	0.1	Field Crew	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	4/26/2013 2:23:00 PM	Total Dissolved Solids	n/a	=	8400	mg/L	SM 2540 C	4	10	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	4/29/2013 1:45:00 PM	Total Organic Carbon	n/a	=	64	mg/L	SM 5310 C	0.36	12	WKL	D
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	4/29/2013 8:30:00 PM	Total Suspended Solids	n/a	=	7	mg/L	SM 2540 D	5	5	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	4/24/2013 5:52:00 PM	Turbidity	n/a	=	1.8	NTU	EPA 180.1	0.024	0.1	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	4/29/2013 8:30:00 PM	Volatile Suspended Solids	n/a	=	6	mg/L	EPA 160.4	3.1	5	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	4/25/2013 5:01:00 PM	Oil and Grease	n/a	<	1.3	mg/L	EPA 1664A	1.3	5	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	4/25/2013 5:01:00 PM	TPH	n/a	<	1.9	mg/L	EPA 1664A	1.9	5	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/7/2013 5:13:00 AM	Aluminum	Dissolved	DNQ	2.1	µg/L	EPA 200.8	2.1	5	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/7/2013 5:21:00 AM	Aluminum	Total	=	6.4	µg/L	EPA 200.8	2.1	5	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/7/2013 5:13:00 AM	Antimony	Dissolved	=	2.1	µg/L	EPA 200.8	0.034	0.5	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/7/2013 5:21:00 AM	Antimony	Total	=	2	µg/L	EPA 200.8	0.034	0.5	WKL	

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/7/2013 5:13:00 AM	Arsenic	Dissolved	=	13	µg/L	EPA 200.8	0.13	0.4	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/7/2013 5:21:00 AM	Arsenic	Total	=	13	µg/L	EPA 200.8	0.13	0.4	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/7/2013 4:33:00 PM	Beryllium	Dissolved	<	0.075	µg/L	EPA 200.8	0.075	0.5	WKL	D
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/7/2013 4:37:00 PM	Beryllium	Total	<	0.075	µg/L	EPA 200.8	0.075	0.5	WKL	D
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/7/2013 5:13:00 AM	Cadmium	Dissolved	=	0.22	µg/L	EPA 200.8	0.017	0.1	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/7/2013 5:21:00 AM	Cadmium	Total	=	0.24	µg/L	EPA 200.8	0.017	0.1	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/7/2013 5:13:00 AM	Chromium	Dissolved	=	0.2	µg/L	EPA 200.8	0.024	0.2	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/7/2013 5:21:00 AM	Chromium	Total	=	0.22	µg/L	EPA 200.8	0.024	0.2	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	4/25/2013 12:19:00 PM	Chromium VI	n/a	DNQ	0.016	µg/L	EPA 218.6	0.0059	0.3	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/7/2013 5:13:00 AM	Copper	Dissolved	=	56	µg/L	EPA 200.8	0.036	0.5	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/7/2013 5:21:00 AM	Copper	Total	=	57	µg/L	EPA 200.8	0.036	0.5	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/6/2013 5:21:00 PM	Iron	Dissolved	=	20	µg/L	EPA 200.7	1.1	10	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/6/2013 5:24:00 PM	Iron	Total	=	36	µg/L	EPA 200.7	1.1	10	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/7/2013 5:13:00 AM	Lead	Dissolved	=	0.7	µg/L	EPA 200.8	0.024	0.2	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/7/2013 5:21:00 AM	Lead	Total	=	0.76	µg/L	EPA 200.8	0.024	0.2	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/1/2013 4:22:00 PM	Mercury	Dissolved	DNQ	25	ng/L	EPA 245.1	3.9	50	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/1/2013 4:22:00 PM	Mercury	Total	DNQ	18	ng/L	EPA 245.1	3.9	50	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/7/2013 5:13:00 AM	Nickel	Dissolved	=	4.8	µg/L	EPA 200.8	0.091	0.8	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/7/2013 5:21:00 AM	Nickel	Total	=	4.9	µg/L	EPA 200.8	0.091	0.8	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/7/2013 4:33:00 PM	Selenium	Dissolved	=	18	µg/L	EPA 200.8	0.4	2	WKL	D
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/7/2013 4:37:00 PM	Selenium	Total	=	18	µg/L	EPA 200.8	0.4	2	WKL	D
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/7/2013 5:13:00 AM	Silver	Dissolved	DNQ	0.02	µg/L	EPA 200.8	0.012	0.2	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/7/2013 5:21:00 AM	Silver	Total	DNQ	0.02	µg/L	EPA 200.8	0.012	0.2	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/7/2013 5:13:00 AM	Thallium	Dissolved	<	0.034	µg/L	EPA 200.8	0.034	0.2	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/7/2013 5:21:00 AM	Thallium	Total	<	0.034	µg/L	EPA 200.8	0.034	0.2	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/7/2013 5:13:00 AM	Zinc	Dissolved	=	11	µg/L	EPA 200.8	0.5	5	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/7/2013 5:21:00 AM	Zinc	Total	=	11	µg/L	EPA 200.8	0.5	5	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/9/2013 4:11:00 PM	Ammonia as N	n/a	=	0.19	mg/L	EPA 350.1	0.048	0.1	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	4/24/2013 12:27:00 PM	Nitrate + Nitrite as N	n/a	DNQ	0.032	mg/L	EPA 353.2	0.01	0.1	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/20/2013 7:34:00 PM	Phosphorus as P	Dissolved	=	0.021	mg/L	EPA 365.1	0.0014	0.01	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/8/2013 11:33:00 PM	Phosphorus as P	Total	=	0.12	mg/L	EPA 365.1	0.0014	0.01	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/6/2013 12:42:00 PM	TKN	n/a	=	5.3	mg/L	EPA 351.2	0.25	0.5	WKL	D
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/7/2013 1:24:00 AM	1,2,4-Trichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/7/2013 1:24:00 AM	1,2-Dichlorobenzene	n/a	<	0.57	µg/L	EPA 625	0.57	1	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/7/2013 1:24:00 AM	1,2-Diphenylhydrazine	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/7/2013 1:24:00 AM	1,3-Dichlorobenzene	n/a	<	0.53	µg/L	EPA 625	0.53	1	WKL	EST-LCSRPD
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/7/2013 1:24:00 AM	1,4-Dichlorobenzene	n/a	<	0.55	µg/L	EPA 625	0.55	1	WKL	EST-LCSRPD
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/11/2013 7:50:00 AM	1-Methylnaphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/10/2013 6:44:00 PM	2,4,5-Trichlorophenol	n/a	<	0.29	µg/L	EPA 8270Cm	0.29	1	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/10/2013 6:44:00 PM	2,4,6-Trichlorophenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/10/2013 6:44:00 PM	2,4-Dichlorophenol	n/a	<	0.51	µg/L	EPA 8270Cm	0.51	1	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/10/2013 6:44:00 PM	2,4-Dimethylphenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/10/2013 6:44:00 PM	2,4-Dinitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	EST-LCSRPD
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/7/2013 1:24:00 AM	2,4-Dinitrotoluene	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/7/2013 1:24:00 AM	2,6-Dinitrotoluene	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	4/25/2013 9:35:00 AM	2-Chloroethyl vinyl ether	n/a	<	0.28	µg/L	EPA 624	0.28	1	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/7/2013 1:24:00 AM	2-Chloronaphthalene	n/a	<	0.45	µg/L	EPA 625	0.45	1	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/10/2013 6:44:00 PM	2-Chlorophenol	n/a	<	0.65	µg/L	EPA 8270Cm	0.65	1	WKL	

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/11/2013 7:50:00 AM	2-Methylnaphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/10/2013 6:44:00 PM	2-Methylphenol	n/a	<	0.34	µg/L	EPA 8270Cm	0.34	1	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/10/2013 6:44:00 PM	2-Nitrophenol	n/a	<	0.71	µg/L	EPA 8270Cm	0.71	1	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/7/2013 1:24:00 AM	3,3'-Dichlorobenzidine	n/a	<	1.2	µg/L	EPA 625	1.2	5	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/10/2013 6:44:00 PM	3-/4-Methylphenol	n/a	<	0.3	µg/L	EPA 8270Cm	0.3	1	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/10/2013 6:44:00 PM	4,6-Dinitro-2-methylphenol	n/a	<	0.14	µg/L	EPA 8270Cm	0.14	1	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/7/2013 1:24:00 AM	4-Bromophenyl phenyl ether	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/10/2013 6:44:00 PM	4-Chloro-3-methylphenol	n/a	<	0.37	µg/L	EPA 8270Cm	0.37	1	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/7/2013 1:24:00 AM	4-Chlorophenyl phenyl ether	n/a	<	0.41	µg/L	EPA 625	0.41	1	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/10/2013 6:44:00 PM	4-Nitrophenol	n/a	<	1	µg/L	EPA 8270Cm	1	2	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/11/2013 7:50:00 AM	Acenaphthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/11/2013 7:50:00 AM	Acenaphthylene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/11/2013 7:50:00 AM	Anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/11/2013 7:50:00 AM	Benz(a)anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/7/2013 1:24:00 AM	Benzidine	n/a	<	3.7	µg/L	EPA 625	3.7	10	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/1/2013 8:31:00 PM	Benzo(a)pyrene	n/a	<	0.07	µg/L	EPA 525.2	0.07	0.1	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/11/2013 7:50:00 AM	Benzo(b)fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/11/2013 7:50:00 AM	Benzo(g,h,i)perylene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/11/2013 7:50:00 AM	Benzo(k)fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/7/2013 1:24:00 AM	Bis(2-chloroethoxy)methane	n/a	<	0.25	µg/L	EPA 625	0.25	1	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/7/2013 1:24:00 AM	Bis(2-chloroethyl)ether	n/a	<	0.27	µg/L	EPA 625	0.27	1	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/7/2013 1:24:00 AM	Bis(2-chloroisopropyl)ether	n/a	<	0.38	µg/L	EPA 625	0.38	1	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/1/2013 8:31:00 PM	Bis(2-ethylhexyl)adipate	n/a	<	0.1	µg/L	EPA 525.2	0.1	5	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/1/2013 8:31:00 PM	Bis(2-ethylhexyl)phthalate	n/a	<	1.1	µg/L	EPA 525.2	1.1	3	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/7/2013 1:24:00 AM	Butyl benzyl phthalate	n/a	DNQ	0.6	µg/L	EPA 625	0.18	1	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/11/2013 7:50:00 AM	Chrysene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/11/2013 7:50:00 AM	Dibenz(a,h)anthracene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/7/2013 1:24:00 AM	Diethyl phthalate	n/a	=	1.6	µg/L	EPA 625	0.15	1	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/7/2013 1:24:00 AM	Dimethyl phthalate	n/a	<	0.18	µg/L	EPA 625	0.18	1	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/7/2013 1:24:00 AM	Di-n-butylphthalate	n/a	DNQ	0.44	µg/L	EPA 625	0.24	1	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/7/2013 1:24:00 AM	Di-n-octylphthalate	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/11/2013 7:50:00 AM	Fluoranthene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/11/2013 7:50:00 AM	Fluorene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/7/2013 1:24:00 AM	Hexachlorobenzene	n/a	<	0.49	µg/L	EPA 625	0.49	1	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/7/2013 1:24:00 AM	Hexachlorobutadiene	n/a	<	0.47	µg/L	EPA 625	0.47	1	WKL	EST-LCSRPD
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/7/2013 1:24:00 AM	Hexachlorocyclopentadiene	n/a	<	1.5	µg/L	EPA 625	1.5	5	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/7/2013 1:24:00 AM	Hexachloroethane	n/a	<	0.52	µg/L	EPA 625	0.52	1	WKL	EST-LCSRPD
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/11/2013 7:50:00 AM	Indeno(1,2,3-cd)pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/7/2013 1:24:00 AM	Isophorone	n/a	<	0.21	µg/L	EPA 625	0.21	1	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	4/25/2013 9:35:00 AM	Methyl tert-butyl ether (MTBE)	n/a	<	0.25	µg/L	EPA 624	0.25	1	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/11/2013 7:50:00 AM	Naphthalene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/7/2013 1:24:00 AM	Nitrobenzene	n/a	<	0.36	µg/L	EPA 625	0.36	1	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/7/2013 1:24:00 AM	N-Nitrosodimethylamine	n/a	<	0.14	µg/L	EPA 625	0.14	1	WKL	EST-LCSRPD
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/7/2013 1:24:00 AM	N-Nitrosodi-N-propylamine	n/a	<	0.26	µg/L	EPA 625	0.26	1	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/7/2013 1:24:00 AM	N-Nitrosodiphenylamine	n/a	<	0.19	µg/L	EPA 625	0.19	1	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/11/2013 7:50:00 AM	Phenanthrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/10/2013 6:44:00 PM	Phenol	n/a	<	0.35	µg/L	EPA 8270Cm	0.35	1	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/11/2013 7:50:00 AM	Pyrene	n/a	<	0.1	µg/L	EPA 8270Cm	0.1	0.1	WKL	

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/8/2013 3:01:00 AM	PCB Aroclor 1016	n/a	<	0.05	µg/L	EPA 608	0.05	0.5	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/8/2013 3:01:00 AM	PCB Aroclor 1221	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/8/2013 3:01:00 AM	PCB Aroclor 1232	n/a	<	0.15	µg/L	EPA 608	0.15	0.5	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/8/2013 3:01:00 AM	PCB Aroclor 1242	n/a	<	0.07	µg/L	EPA 608	0.07	0.5	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/8/2013 3:01:00 AM	PCB Aroclor 1248	n/a	<	0.06	µg/L	EPA 608	0.06	0.5	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/8/2013 3:01:00 AM	PCB Aroclor 1254	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/8/2013 3:01:00 AM	PCB Aroclor 1260	n/a	<	0.04	µg/L	EPA 608	0.04	0.5	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	4/26/2013 4:12:00 PM	2,4,5-T	n/a	<	0.07	µg/L	EPA 515.3	0.07	0.2	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	4/26/2013 4:12:00 PM	2,4,5-TP	n/a	<	0.09	µg/L	EPA 515.3	0.09	0.2	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	4/26/2013 4:12:00 PM	2,4-D	n/a	=	13	µg/L	EPA 515.3	0.07	0.4	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	4/26/2013 4:12:00 PM	2,4-DB	n/a	<	0.07	µg/L	EPA 515.3	0.07	2	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	4/26/2013 4:12:00 PM	3,5-Dichlorobenzoic acid	n/a	<	0.09	µg/L	EPA 515.3	0.09	1	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/8/2013 3:01:00 AM	4,4'-DDD	n/a	<	0.003	µg/L	EPA 608	0.003	0.05	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/8/2013 3:01:00 AM	4,4'-DDE	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.05	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/8/2013 3:01:00 AM	4,4'-DDT	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.01	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	4/26/2013 4:12:00 PM	Acifluorfen	n/a	<	0.06	µg/L	EPA 515.3	0.06	0.4	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/1/2013 8:31:00 PM	Alachlor	n/a	<	0.022	µg/L	EPA 525.2	0.022	0.1	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/8/2013 3:01:00 AM	Aldrin	n/a	<	0.0015	µg/L	EPA 608	0.0015	0.005	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/8/2013 3:01:00 AM	alpha-BHC	n/a	<	0.0018	µg/L	EPA 608	0.0018	0.01	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/8/2013 3:01:00 AM	alpha-Chlordane	n/a	<	0.0041	µg/L	EPA 608	0.0041	0.01	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/1/2013 8:31:00 PM	Atrazine	n/a	<	0.034	µg/L	EPA 525.2	0.034	0.1	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	4/29/2013 9:15:00 PM	Azinphos methyl	n/a	<	0.0055	µg/L	EPA 525.2	0.0055	0.01	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	4/26/2013 4:12:00 PM	Bentazon	n/a	<	0.11	µg/L	EPA 515.3	0.11	2	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/8/2013 3:01:00 AM	beta-BHC	n/a	<	0.0031	µg/L	EPA 608	0.0031	0.005	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	4/29/2013 9:15:00 PM	Bolstar	n/a	<	0.0046	µg/L	EPA 525.2	0.0046	0.01	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/1/2013 8:31:00 PM	Bromacil	n/a	<	0.038	µg/L	EPA 525.2	0.038	1	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/1/2013 8:31:00 PM	Butachlor	n/a	<	0.017	µg/L	EPA 525.2	0.017	0.2	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/1/2013 8:31:00 PM	Captan	n/a	<	0.86	µg/L	EPA 525.2	0.86	1	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/8/2013 3:01:00 AM	Chlordane (technical)	n/a	<	0.08	µg/L	EPA 608	0.08	0.1	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/1/2013 8:31:00 PM	Chloropropham	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.1	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	4/29/2013 9:15:00 PM	Chlorpyrifos	n/a	<	0.0069	µg/L	EPA 525.2	0.0069	0.01	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	4/29/2013 9:15:00 PM	Coumaphos	n/a	<	0.0051	µg/L	EPA 525.2	0.0051	0.01	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/1/2013 8:31:00 PM	Cyanazine	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	4/26/2013 4:12:00 PM	Dalapon	n/a	=	0.51	µg/L	EPA 515.3	0.1	0.4	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	4/26/2013 4:12:00 PM	DCPA (Dacthal)	n/a	=	0.43	µg/L	EPA 515.3	0.07	0.1	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/8/2013 3:01:00 AM	delta-BHC	n/a	<	0.0025	µg/L	EPA 608	0.0025	0.005	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	4/29/2013 9:15:00 PM	Demeton-O	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	4/29/2013 9:15:00 PM	Demeton-S	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	4/29/2013 9:15:00 PM	Diazinon	n/a	<	0.0052	µg/L	EPA 525.2	0.0052	0.01	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	4/26/2013 4:12:00 PM	Dicamba	n/a	=	1.3	µg/L	EPA 515.3	0.12	0.6	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	4/26/2013 4:12:00 PM	Dichlorprop	n/a	<	0.08	µg/L	EPA 515.3	0.08	0.3	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	4/29/2013 9:15:00 PM	Dichlorvos	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/8/2013 3:01:00 AM	Dieldrin	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.01	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	4/29/2013 9:15:00 PM	Dimethoate	n/a	<	0.0062	µg/L	EPA 525.2	0.0062	0.01	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	4/26/2013 4:12:00 PM	Dinoseb	n/a	<	0.14	µg/L	EPA 515.3	0.14	0.4	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/1/2013 8:31:00 PM	Diphenamid	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.1	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	4/29/2013 9:15:00 PM	Disulfoton	n/a	<	0.01	µg/L	EPA 525.2	0.01	0.01	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/8/2013 3:01:00 AM	Endosulfan I	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.02	WKL	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/8/2013 3:01:00 AM	Endosulfan II	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/8/2013 3:01:00 AM	Endosulfan sulfate	n/a	<	0.008	µg/L	EPA 608	0.008	0.05	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/8/2013 3:01:00 AM	Endrin	n/a	<	0.0028	µg/L	EPA 608	0.0028	0.01	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/8/2013 3:01:00 AM	Endrin aldehyde	n/a	<	0.003	µg/L	EPA 608	0.003	0.01	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/1/2013 8:31:00 PM	EPTC	n/a	<	0.017	µg/L	EPA 525.2	0.017	1	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	4/29/2013 9:15:00 PM	Ethoprop	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	4/29/2013 9:15:00 PM	Ethyl parathion	n/a	<	0.0054	µg/L	EPA 525.2	0.0054	0.01	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	4/29/2013 9:15:00 PM	Fensulfothion	n/a	<	0.0029	µg/L	EPA 525.2	0.0029	0.01	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	4/29/2013 9:15:00 PM	Fenthion	n/a	<	0.0038	µg/L	EPA 525.2	0.0038	0.01	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/8/2013 3:01:00 AM	gamma-BHC (Lindane)	n/a	<	0.0021	µg/L	EPA 608	0.0021	0.02	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/8/2013 3:01:00 AM	gamma-Chlordane	n/a	<	0.0044	µg/L	EPA 608	0.0044	0.01	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	4/24/2013 12:52:00 PM	Glyphosate	n/a	=	8	µg/L	EPA 547	1.8	5	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/8/2013 3:01:00 AM	Heptachlor	n/a	<	0.0017	µg/L	EPA 608	0.0017	0.01	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/8/2013 3:01:00 AM	Heptachlor epoxide	n/a	<	0.0019	µg/L	EPA 608	0.0019	0.01	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	4/29/2013 9:15:00 PM	Malathion	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	4/29/2013 9:15:00 PM	Merphos	n/a	<	0.0058	µg/L	EPA 525.2	0.0058	0.01	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/8/2013 3:01:00 AM	Methoxychlor	n/a	<	0.0054	µg/L	EPA 608	0.0054	0.02	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	4/29/2013 9:15:00 PM	Methyl parathion	n/a	<	0.0063	µg/L	EPA 525.2	0.0063	0.01	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/1/2013 8:31:00 PM	Metolachlor	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/1/2013 8:31:00 PM	Metribuzin	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	4/29/2013 9:15:00 PM	Mevinphos	n/a	<	0.0042	µg/L	EPA 525.2	0.0042	0.01	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/1/2013 8:31:00 PM	Molinate	n/a	<	0.039	µg/L	EPA 525.2	0.039	0.1	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	4/29/2013 9:15:00 PM	Naled	n/a	<	0.0076	µg/L	EPA 525.2	0.0076	0.01	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	4/26/2013 4:12:00 PM	Pentachlorophenol	n/a	<	0.04	µg/L	EPA 515.3	0.04	0.2	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	4/29/2013 9:15:00 PM	Phorate	n/a	<	0.003	µg/L	EPA 525.2	0.003	0.01	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	4/26/2013 4:12:00 PM	Picloram	n/a	<	0.05	µg/L	EPA 515.3	0.05	0.6	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/1/2013 8:31:00 PM	Prometon	n/a	<	0.024	µg/L	EPA 525.2	0.024	0.2	WKL	EST-LCSRPD
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/1/2013 8:31:00 PM	Prometryn	n/a	<	0.036	µg/L	EPA 525.2	0.036	0.1	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	4/29/2013 9:15:00 PM	Ronnel (Fenchlorphos)	n/a	<	0.0041	µg/L	EPA 525.2	0.0041	0.01	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/1/2013 8:31:00 PM	Simazine	n/a	<	0.015	µg/L	EPA 525.2	0.015	0.1	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	4/29/2013 9:15:00 PM	Stirophos (Tetrachlorvinphos)	n/a	<	0.0031	µg/L	EPA 525.2	0.0031	0.01	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/1/2013 8:31:00 PM	Terbacil	n/a	<	0.55	µg/L	EPA 525.2	0.55	2	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/1/2013 8:31:00 PM	Thiobencarb	n/a	<	0.025	µg/L	EPA 525.2	0.025	0.2	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	4/29/2013 9:15:00 PM	Tokuthion	n/a	<	0.0078	µg/L	EPA 525.2	0.0078	0.01	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/8/2013 3:01:00 AM	Toxaphene	n/a	<	0.12	µg/L	EPA 608	0.12	0.5	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	4/29/2013 9:15:00 PM	Trichloronate	n/a	<	0.0067	µg/L	EPA 525.2	0.0067	0.01	WKL	
MO-VEN	2012/13-5	Dry	4/23/2013 9:15:00 AM	5/1/2013 8:31:00 PM	Trithion	n/a	<	0.012	µg/L	EPA 525.2	0.012	0.1	WKL	
MO-VEN	2013-DRY	Dry	8/12/2013 8:55:00 AM	8/13/2013 9:30:00 AM	E. Coli	n/a	=	364	MPN/100 mL	MMO-MUG	10	10	VCHCA	
MO-VEN	2013-DRY	Dry	8/12/2013 8:55:00 AM	8/13/2013 9:30:00 AM	Total Coliform	n/a	=	770100	MPN/100 mL	MMO-MUG	1000	1000	VCHCA	
MO-VEN	2013-DRY	Dry	8/12/2013 8:55:00 AM	8/22/2013 12:29:00 PM	Calcium	Total	=	362	mg/L	EPA 200.7	0.016	0.1	WKL	
MO-VEN	2013-DRY	Dry	8/12/2013 8:55:00 AM	8/22/2013 12:29:00 PM	Magnesium	Total	=	296	mg/L	EPA 200.7	0.012	0.1	WKL	
MO-VEN	2013-DRY	Dry	8/12/2013 8:55:00 AM	8/12/2013 8:55:00 AM	Conductivity	n/a	=	6360	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-VEN	2013-DRY	Dry	8/12/2013 8:55:00 AM	8/12/2013 8:55:00 AM	Discharge	n/a	=	0.027	cfs	Field Estimate	-88	-88	Field Crew	
MO-VEN	2013-DRY	Dry	8/12/2013 8:55:00 AM	8/12/2013 8:55:00 AM	DO	n/a	=	117.3	%	Field Meter	-88	0.1	Field Crew	
MO-VEN	2013-DRY	Dry	8/12/2013 8:55:00 AM	8/12/2013 8:55:00 AM	DO	n/a	=	9.99	mg/L	Field Meter	-88	0.3	Field Crew	
MO-VEN	2013-DRY	Dry	8/12/2013 8:55:00 AM	8/22/2013 12:29:00 PM	Hardness as CaCO3	Total	=	2120	mg/L	EPA 200.7	0.0894	0.662	WKL	
MO-VEN	2013-DRY	Dry	8/12/2013 8:55:00 AM	8/12/2013 8:55:00 AM	pH	n/a	=	8.51	pH Units	Field Meter	-88	0.01	Field Crew	
MO-VEN	2013-DRY	Dry	8/12/2013 8:55:00 AM	8/12/2013 8:55:00 AM	Salinity	n/a	=	3700	mg/L	Field Meter	-88	100	Field Crew	

Appendix G
Laboratory Environmental Analysis Results

Site ID	Event	Event Type	Sample Date	Analysis Date	Constituent	Fraction	Sign	Result	Units	Method	MDL	Reporting Limit	Analyzing Laboratory	Qualifier
MO-VEN	2013-DRY	Dry	8/12/2013 8:55:00 AM	8/12/2013 8:55:00 AM	Specific Conductance	n/a	=	6700	µmhos/cm	Field Meter	-88	1	Field Crew	
MO-VEN	2013-DRY	Dry	8/12/2013 8:55:00 AM	8/12/2013 8:55:00 AM	Temperature	n/a	=	22.4	°C	Field Meter	-88	0.1	Field Crew	
MO-VEN	2013-DRY	Dry	8/12/2013 8:55:00 AM	8/28/2013 1:42:00 PM	Total Organic Carbon	n/a	=	54	mg/L	SM 5310 C	0.36	12	WKL	D
MO-VEN	2013-DRY	Dry	8/12/2013 8:55:00 AM	8/12/2013 8:55:00 AM	Turbidity	n/a	=	4.48	NTU	Field Meter	-88	0.01	Field Crew	
MO-VEN	2013-DRY	Dry	8/12/2013 8:55:00 AM	8/24/2013 12:50:00 AM	Copper	Dissolved	=	74	µg/L	EPA 200.8	0.036	0.5	WKL	
MO-VEN	2013-DRY	Dry	8/12/2013 8:55:00 AM	8/24/2013 12:50:00 AM	Lead	Dissolved	=	0.51	µg/L	EPA 200.8	0.024	0.2	WKL	
MO-VEN	2013-DRY	Dry	8/12/2013 8:55:00 AM	8/24/2013 12:50:00 AM	Zinc	Dissolved	=	11	µg/L	EPA 200.8	0.5	5	WKL	

Appendix K. Formulas for WQO determination

BASIN PLAN and CALIFORNIA TOXICS RULE OBJECTIVES: FORMULAS

AMMONIA (BASIN PLAN)

Basin Plan Ammonia Objective formula selection is based on wet or dry event, COLD/MIGR designation status, early life stages (ELS) status, and salinity.
See the flow charts below to determine which formula to use:

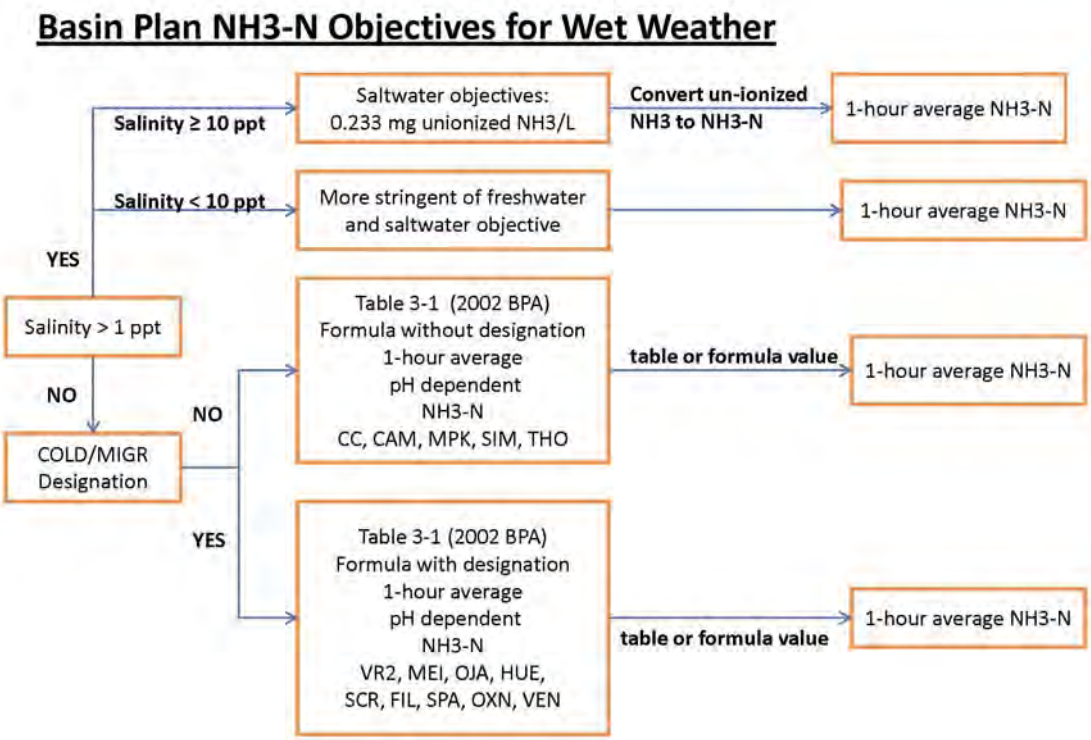

Table 3-1: One hour Average Objective for Ammonia-N for Freshwaters (mg N/L)

COLD and/or MIGR:

$$= \frac{0.275}{1 + 10^{7.204-pH}} + \frac{39.0}{1 + 10^{pH-7.204}}$$

NOT COLD and/or MIGR:

$$= \frac{0.411}{1 + 10^{7.204-pH}} + \frac{58.4}{1 + 10^{pH-7.204}}$$

Saltwater 1-hour objective for Ammonia-N

$$= 0.233 * (1 + 10^{\left[\left(9.245+0.116*\frac{19.9273*S}{1000-1.005109*S}\right)+0.0324(298-T)+\frac{(0.0415)P}{T}-pH\right]})$$

Where T= temperature expressed in °K (Note: Kelvin = Celsius + 273)
S = salinity (ppt)
P = pressure (assumed to be 1 atm)

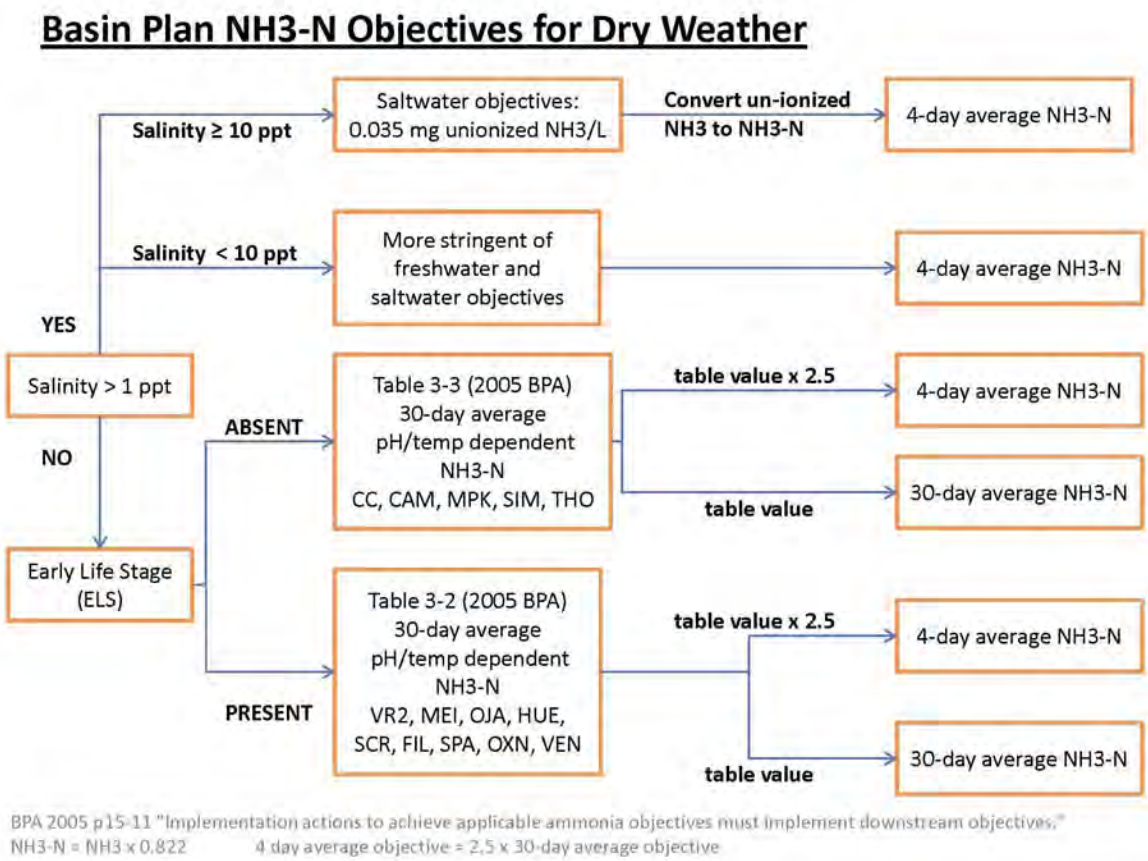

Table 3-2: 30-Day Average Objective for Ammonia-N for Freshwaters Applicable to Waters Subject to the "Early Life Stage Present" Condition (mg N/L)

$$= \left(\frac{0.0577}{1+10^{7.688-pH}} + \frac{2.487}{1+\ 10^{pH-7.688}}\right) * MIN\left(2.85, 1.45 * 10^{0.028*(25-T)}\right)$$

Where T= temperature expressed in °C.
Highest four-day average within the 30-day period shall not exceed 2.5 times the 30-day average objective as calculated above.

Table 3-3: 30-Day Average Objective for Ammonia-N for Freshwaters Applicable to Waters Subject to the "Early Life Stage Absent" Condition (mg N/L)

$$= \left(\frac{0.0577}{1+10^{7.688-pH}} + \frac{2.487}{1+\ 10^{pH-7.688}}\right) * 1.45 * 10^{0.028*(25-MAX(T,7))}$$

Where T= temperature expressed in °C.
Highest four-day average within the 30-day period shall not exceed 2.5 times the 30-day average objective as calculated above.

Saltwater 4-day objective for Ammonia-N

$$= 0.035 * (1 + 10^{\left[\left(9.245+0.116*\frac{19.9273*S}{1000-1.005109*S}\right)+0.0324(298-T)+\frac{(0.0415)P}{T}-pH\right]})$$

Where T= temperature expressed in °K (Note: Kelvin = Celsius + 273)
S = salinity (ppt)
P = pressure (assumed to be 1 atm)

PENTACHLOROPHENOL (CTR)

$$CMC = \exp(1.005(pH) - 4.869)$$
$$CCC = \exp(1.005(pH) - 5.134)$$

METALS (CTR)

[cadmium, chromium, copper, lead, nickel, silver, zinc]

$$CMC = WER * (Acute\ Conversion\ Factor) * (\exp\{m_A[1n(hardness)] + b_A\})$$
$$CCC = WER * (Chronic\ Conversion\ Factor) * (\exp\{m_C[1n(hardness)] + b_C\})$$

Note1: CCC formula contains error in CTR (says "Acute" not "Chronic" for Conversion Factor).
Note2: see note to Table 2 of Paragraph (b)(2) in the CTR, "The term conversion factor represents the recommended conversion factor for converting a metal criterion expressed as the total recoverable fraction in the water column to a criterion expressed as the dissolved fraction in the water column."
Note3: Conversion factors (CF) are provided as values in a table for chromium, copper, nickel, silver, and zinc. CF for cadmium and lead are calculated based on hardness, i.e.

$$Cadmium\ Acute\ CF = 1.136672 - [(\ln\{hardness\})\ (0.041838)]$$
$$Cadmium\ Chronic\ CF = 1.101672 - [(\ln\{hardness\})\ (0.041838)]$$
$$Lead\ Acute\ and\ Chronic\ CF = 1.46203 - [(\ln\{hardness\})\ (0.145712)]$$

Note4: Only two WER in Ventura County and no stations discharge within the applicable reaches - Lower Calleguas Creek (Reach 2 which is Portrero Rd south to Mugu Lagoon) has a WER for copper of 3.69 and Mugu Lagoon copper WER is 1.51.