



**Carbondale Central Laboratory**  
**2401 S. McLafferty Road**  
**Carbondale, Illinois 62901**

Phone: 618-457-9613 Ext 223  
 Fax: 618-457-2999  
 Laboratory Superintendent: Kimberly A. Cole  
 IDPH Certified Laboratory 17502 NELAP EPA Illinois Number 00012

Sample number	Sample Description	Date/time collected	Date/time received	Composite	Grab	Date/Time Processed	Sample condition
1	060816015	NW CEDAR LAKE 06/08/2016 1045	06/08/2016 1210		X	06/06/2016 1300	ACCEPTABLE
2	060816016	NE CEDAR LAKE 06/08/2016 1100	06/08/2016 1210		X	06/08/2016 1300	ACCEPTABLE
3	060816017	INTAKE 06/08/2016 0734	06/08/2016 1210		X	06/08/2016 1300	ACCEPTABLE
4							
5							

Laboratory Report Serial Number:06222016004 Page 1 of 1  
 Electronic Signature: Kimberly A Cole Reviewed data Date: \_\_KAC06/22/2016\_\_  
 NELAP ACCREDITED NUMBER 100461 (Accredited test results\*)  
 Final Report: These test results relate only to the samples submitted. Interpretation and submission are the responsibility of the client.  
 \*m\* indicates method modifications per manufacturer



Sample acceptance Requirements	
Date and Time from bottle match	Y
Proper bottles rec'd in good condition	Y
Sample temperature take upon receipt	Y
Chill Process started prior to receipt	N/A
Samples Recv'd on ice	N/A
Bottles rec'd in good condition	Y
Bottles filled with adequate volume	Y
Samples rec'd within hold times	Y

CLIENT John Wallace, Cedar Lake Manager  
 Address City of Carbondale, Cedar Lake Office  
 City, State, Zip Carbondale, Illinois 62901

Sample No.	pH	Ammonia, mg/L	Turbidity, NTU	Alkalinity, mg/L	*Nitrite (NO <sub>2</sub> -N) IC SM 41108 <sup>m</sup> * LOQ 0.13 mg/L	*Nitrate (NO <sub>3</sub> -N) IC SM 41109 <sup>m</sup> * LOQ 0.06mg/L	Total Kjeldahl Nitrogen, mg/L	Total Nitrogen-N, mg/L	Total Phosphorus, mg/L
060816015	8.9	<0.1	3.2	36	<.13	<0.06	1.1	1.3	0.0
060816016	9.1	<0.1	2.8	38	<.13	<0.06	0.8	1.5	0.0
060816017	7.7	<0.1	3.5	36	<.13	<0.06	0.8	1.5	0.01

Sample No.	Total Suspended Solids, mg/L	Volatile Total Suspended Solids, mg/L	Volatile Total suspended solids, %	E. Coli <sup>o</sup> , col/100-mL	Fecal Coliform <sup>o</sup> , col/100-mL	Sample Collector	Weather	Lake Elevation, ft.	Rainfall within 48 hours, in.	Depth of sample	Field Temp, oF
060816015	2.0	2.0	100	<10	3.0	K. Hill	Sunny	432.8	0	1 foot	77.8
060816016	1.0	2.0	100	<10	7.0	K. Hill	Sunny	432.8	0	1 foot	77.8
060816017	3.0	3.0	100	18	2.0	Lab	Sunny	432.8	0	15 feet	77.8

Sample No.	Sample Location GPS Coordinates	Any Deviations from standard conditions, or failed QC comments
060816015	37o40'31.31N by 89o17'11.97W	
060816016	37o40'6.52N by 89o16'15.94W	
060816017	37o39'43.43N by 89o16'28.91W	



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 IDPH Certified Laboratory 17502 NELAP EPA Illinois Number 00012

Sample number	Sample Description	Date/Time collected	Date/Time received	Composite	Grab	Date/Time Processed	Sample condition
1	071316005 NW CEDAR LAKE	07/13/2016 1120	07/13/2016 1245		X	07/13/2016 1300	ACCEPTABLE
2	071316006 NE CEDAR LAKE	07/13/2016 1130	07/13/2016 1245		X	07/13/2016 1300	ACCEPTABLE
3	071316009 INTAKE	07/13/2016 0744	07/13/2016 1245		X	07/13/2016 1300	ACCEPTABLE
4							
5							

Laboratory Report Serial Number: 07152016001 Page 1 of 1  
 Electronic Signature: Kimberly A Cole Reviewed data Date: KAC07/15/2016  
**NELAP ACCREDITED NUMBER 100461 (Accredited test results\*)**  
 Final Report: These test results relate only to the samples submitted. Interpretation and submission are the responsibility of the client.  
 \*m\* indicates method modifications per manufacturer



Sample acceptance Requirements	
Date and Time from bottle match	Y
Proper bottles rec'd in good condition	Y
Sample temperature take upon receipt	Y
Chill Process started prior to receipt	N/A
Samples Rec'd on ice	N/A
Bottles rec'd in good condition	Y
Bottles filled with adequate volume	Y
Samples rec'd within hold times	Y

CLIENT John Wallace, Cedar Lake Manager  
 Address City of Carbondale, Cedar Lake Office  
 City, State, Zip Carbondale, Illinois 62901

Sample No.	pH	Ammonia, mg/L	Turbidity, NTU	Alkalinity, mg/L	*Nitrite (NO <sub>2</sub> -N) IC SM 4110B <sup>m</sup> LOQ 0.13 mg/L	*Nitrate (NO <sub>3</sub> -N) IC SM 4110B <sup>m</sup> LOQ 0.06mg/L	Total Kjeldahl Nitrogen, mg/L	Total Nitrogen-N, mg/L	Total Phosphorus, mg/L
071316005	8.9	<0.1	4.2	38	<0.13	<0.06	1.76	0.59	0.13
071316006	9.1	<0.1	3.9	38	<0.13	<0.06	1.24	0.98	0.16
071316009	7.8	<0.1	4.8	36	<0.13	<0.06	0.98	1.01	0.23

Sample No.	Total Suspended Solids, mg/L	Volatile Total Suspended Solids, mg/L	Volatile Total Suspended Solids, %	E. Coli*, col/100-mL	Fecal Coliform*, col/100-mL	Sample Collector	Weather	Lake Elevation, ft.	Rainfall within 48 hours, in.	Depth of Sample	Field Temp. of
071316005	2.0	2.0	100	<10	10.0	C. Kile	Sunny	432.7	0.2	1 foot	85.6
071316006	9.0	7.0	78	10	8.0	C. Kile	Sunny	432.7	0.2	1 foot	85.6
071316009	6.0	4.0	67	40	15.0	Lab	Sunny	432.7	0.2	15 feet	85.6

Sample No.	Sample Location GPS Coordinates	Any Deviations from standard conditions, or failed QC comments
071316005	37°40'31.31N by 89°17'11.97W	
071316006	37°40'6.52N by 89°16'15.94W	
071316009	37°39'43.43N by 89°16'28.91W	



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 IDPH Certified Laboratory 17502 NELAP EPA Illinois Number 00012

Sample number	Sample Description	Date/time collected	Date/time received	Composite	Grab	Date/Time Processed	Sample condition
1	080916011	NW CEDAR LAKE 08/09/2016 0936	08/09/2016 1300		X	08/09/2016 1330	ACCEPTABLE
2	080916012	NE CEDAR LAKE 08/09/2016 0949	08/09/2016 1300		X	08/09/2016 1330	ACCEPTABLE
3	080916013	INTAKE 08/09/2016 1215	08/09/2016 1300		X	08/09/2016 1330	ACCEPTABLE
4							
5							

Laboratory Report Serial Number:08112016001 Page 1 of 1  
 Electronic Signature: Kimberly A Cole Reviewed data Date: KAC08/11/2016  
 NELAP ACCREDITED NUMBER 100461 (Accredited test results\*)  
 Final Report: These test results relate only to the samples submitted. Interpretation and submission are the responsibility of the client.  
 \*m\* indicates method modifications per manufacturer



Sample acceptance Requirements	
Date and Time from bottle match	Y
Proper bottles rec'd in good condition	Y
Sample temperature take upon receipt	Y
Chill Process started prior to receipt	N/A
Samples Recv'd on ice	N/A
Bottles rec'd in good condition	Y
Bottles filled with adequate volume	Y
Samples rec'd within hold times	Y

CLIENT John Wallace, Cedar Lake Manager  
 Address City of Carbondale, Cedar Lake Office  
 City, State, Zip Carbondale, Illinois 62901

Sample No.	pH	Ammonia, mg/L	Turbidity, NTU	Alkalinity, mg/L	*Nitrite (NO <sub>2</sub> -N) IC SM 41108 <sup>m</sup> * LOQ 0.13 mg/L	*Nitrate (NO <sub>3</sub> -N) IC SM 41109 <sup>m</sup> * LOQ 0.06mg/L	Total Kjeldahl Nitrogen, mg/L	Total Nitrogen-N, mg/L	Total Phosphorus, mg/L		
080916011	8.5	<0.1	2.6	36	<0.13	<0.06	1.41	0.64	0.02		
080916012	8.5	<0.1	2.0	36	<0.13	<0.06	0.71	0.50	0.01		
080916013	7.5	<0.1	2.3	36	<0.13	0.07	0.52	0.70	0.02		

Sample No.	Total Suspended Solids, mg/L	Volatile Total Suspended Solids, mg/L	Volatile Total suspended solids, %	E. Coli <sup>1</sup> , col/100-mL	Fecal Coliform <sup>2</sup> , col/100-mL	Sample Collector	Weather	Lake Elevation, ft.	Rainfall within 48 hours, in.	Depth of sample	Field Temp, oF
080916011	5.0	3.0	60	<10	5.0	C. Kile	sunny, calm	432.2	0	1 foot	86.0
080916012	<1	<1	100	<10	2.0	C. Kile	sunny, calm	432.2	0	1 foot	85.8
080916013	3.0	3.0	100	<10	<2	Lab	sunny, calm	432.2	0	15 feet	85.8

Sample No.	Sample Location GPS Coordinates	Any Deviations from standard conditions, or failed QC comments
080916011	37o40'31.31N by 89o17'11.97W	
080916012	37o40'6.52N by 89o16'15.94W	
080916013	37o39'43.43N by 89o16'28.91W	



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 IDPH Certified Laboratory 17502 NELAP EPA Illinois Number 00012

Sample number	Sample Description	Date/time collected	Date/time received	Composite	Grab	Date/Time Processed	Sample condition
1	091316015	NW CEDAR LAKE 09/13/2016 1045	09/13/2016 1155		X	09/13/2016 1300	ACCEPTABLE
2	091316016	NE CEDAR LAKE 09/13/2016 1057	09/13/2016 1155		X	09/13/2016 1300	ACCEPTABLE
3	091316017	INTAKE 09/13/2016 0723	09/13/2016 1155		X	09/13/2016 1300	ACCEPTABLE
4							
5							

Laboratory Report Serial Number:09202016001 Page 1 of 1  
 Electronic Signature: Kimberly A Cole Reviewed data Date: KAC09/20/2016  
 NELAP ACCREDITED NUMBER 100461 (Accredited test results\*)  
 Final Report: These test results relate only to the samples submitted. Interpretation and submission are the responsibility of the client.  
 \*m\* indicates method modifications per manufacturer



Sample acceptance Requirements	
Date and Time from bottle match	Y
Proper bottles rec'd in good condition	Y
Sample temperature take upon receipt	Y
Chill Process started prior to receipt	N/A
Samples Recv'd on ice	N/A
Bottles rec'd in good condition	Y
Bottles filled with adequate volume	Y
Samples rec'd within hold times	Y

CLIENT John Wallace, Cedar Lake Manager  
 Address City of Carbondale, Cedar Lake Office  
 City, State, Zip Carbondale, Illinois 62901

Sample No.	pH	Ammonia, mg/L	Turbidity, NTU	Alkalinity, mg/L	*Nitrite (NO <sub>2</sub> -N) IC SM 4110B <sup>m</sup> LOQ 0.13 mg/L	*Nitrate (NO <sub>3</sub> -N) IC SM 4110B <sup>m</sup> LOQ 0.06mg/L	Total Kjeldahl Nitrogen, mg/L	Total Nitrogen-N, mg/L	Total Phosphorus, mg/L
091316015	8.2	<0.1	2.6	34	<0.13	0.07	1.06	1.05	0.02
091316016	8.1	<0.1	3.8	34	<0.13	<0.06	1.49	1.47	0.01
091316017	7.5	<0.1	5.0	32	<0.13	0.09	1.97	1.98	0.03

Sample No.	Total Suspended Solids, mg/L	Volatile Total Suspended Solids, mg/L	Volatile Total suspended solids, %	E. Coli <sup>m</sup> , col/100-mL	Fecal Coliform <sup>m</sup> , col/100-mL	Sample Collector	Weather	Lake Elevation, ft.	Rainfall within 48 hours, in.	Depth of sample	Field Temp, oF
091316015	2.0	1.0	50	<10	21	C. Kile	Mostly sunny	432.5	0	1 foot	81.1
091316016	1.0	1.0	100	<10	7	C. Kile	Mostly sunny	432.5	0	1 foot	80.6
091316017	7.0	4.0	57	45	34	Lab	Mostly sunny	432.5	0	15 feet	80.6

Sample No.	Sample Location GPS Coordinates	Any Deviations from standard conditions, or failed QC comments
091316015	37o40'31.31N by 89o17'11.97W	
091316016	37o40'6.52N by 89o16'15.94W	
091316017	37o39'43.43N by 89o16'28.91W	



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Phone: 618-457-9613 Ext 223  
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 Laboratory Superintendent: Kimberly A. Cole  
 IDPH Certified Laboratory 17592 NELAP EPA Illinois Number 00012

Sample number	Sample Description	Date/time collected	Date/time received	Composite	Grab	Date/Time Processed	Sample condition
1	102516029	NW CEDAR LAKE 10/25/2016 0840	10/25/2016 1000		X	10/25/2016 1300	ACCEPTABLE
2	102516030	NE CEDAR LAKE 10/25/2016 0850	10/25/2016 1000		X	10/25/2016 1300	ACCEPTABLE
3	102516031	INTAKE 10/25/2016 0744	10/25/2016 1000		X	10/25/2016 1300	ACCEPTABLE
4							
5							

Laboratory Report Serial Number: 11142016001 Page 1 of 1  
 Electronic Signature: Kimberly A Cole Reviewed data Date: KAC11/08/2016  
 NELAP ACCREDITED NUMBER 100461 (Accredited test results\*)  
 Final Report: These test results relate only to the samples submitted. Interpretation and submission are the responsibility of the client.  
 \*m\* indicates method modifications per manufacturer



Sample acceptance Requirements	
Date and Time from bottle match	Y
Proper bottles rec'd in good condition	Y
Sample temperature take upon receipt	Y
Chill Process started prior to receipt	N/A
Samples Recv'd on ice	N/A
Bottles rec'd in good condition	Y
Bottles filled with adequate volume	Y
Samples rec'd within hold times	Y

CLIENT John Wallace, Cedar Lake Manager  
 Address City of Carbondale, Cedar Lake Office  
 City, State, Zip Carbondale, Illinois 62901

Sample No.	pH	Ammonia, mg/L	Turbidity, NTU	Alkalinity, mg/L	*Nitrite (NO <sub>2</sub> -N) IC SM 4110B <sup>m</sup> LOQ 0.15 mg/L	*Nitrate (NO <sub>3</sub> -N) IC SM 4110B <sup>m</sup> LOQ 0.11 mg/L	Total Kjeldahl Nitrogen, mg/L	Total Nitrogen-N, mg/L	Total Phosphorus, mg/L
102516029	7.4	<0.1	2.8	40	<0.15	<0.11	0.39	0.36	none detected
102516030	7.4	<0.1	2.3	38	<0.15	<0.11	0.35	0.30	none detected
102516031	7.6	<0.1	2.6	38	<0.15	<0.11	0.45	0.34	none detected

Sample No.	Total Suspended Solids, mg/L	Volatile Total Suspended Solids, mg/L	Volatile Total suspended solids, %	E. Coli <sup>m</sup> , col/100-mL	Fecal Coliform <sup>m</sup> , col/100-mL	Sample Collector	Weather	Lake Elevation, ft.	Rainfall within 48 hours, in.	Depth of sample	Field Temp, oF
102516029	2.0	2.0	100	<10	<2	J. Wallace	sunny	431.9	0	1 foot	64.5
102516030	10.0	9.0	90	<10	5	J. Wallace	sunny	431.9	0	1 foot	64.5
102516031	8.0	1.0	12.5	<10	2	J. Wallace	sunny	431.9	0	15 feet	64.5

Sample No.	Sample Location GPS Coordinates	Any Deviations from standard conditions, or failed QC comments
102516029	37°40'31.31N by 89°17'11.97W	
102516030	37°40'6.52N by 89°16'15.94W	
102516031	37°39'43.43N by 89°16'28.91W	



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**Carbondale, Illinois 62901**

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 IDPH Certified Laboratory 17502 NELAP EPA Illinois Number 00012

Sample number	Sample Description	Date/time collected	Date/time received	Composite	Grab	Date/Time Processed	Sample condition	
1	111616002	NW CEDAR LAKE	11/16/2016 1030	11/16/2016 1135		X	11/16/2016 1300	ACCEPTABLE
2	111616003	NE CEDAR LAKE	11/16/2016 1050	11/16/2016 1135		X	11/16/2016 1300	ACCEPTABLE
3	111616004	INTAKE	11/16/2016 1050	11/16/2016 1135		X	11/16/2016 1300	ACCEPTABLE
4								
5								

Laboratory Report Serial Number:12052016003 Page 1 of 1  
 Electronic Signature: Kimberly A Cole Reviewed data Date: KAC12/05/2016  
 NELAP ACCREDITED NUMBER 100461 (Accredited test results\*)  
 Final Report: These test results relate only to the samples submitted. Interpretation and submission are the responsibility of the client.  
 \*m\* indicates method modifications per manufacturer



\* denotes NELAP certified method

Sample acceptance Requirements	
Date and Time from bottle match	Y
Proper bottles rec'd in good condition	Y
Sample temperature take upon receipt	Y
Chill Process started prior to receipt	N/A
Samples Recv'd on ice	N/A
Bottles rec'd in good condition	Y
Bottles filled with adequate volume	Y
Samples rec'd within hold times	Y

CLIENT John Wallace, Cedar Lake Manager  
 Address City of Carbondale, Cedar Lake Office  
 City, State, Zip Carbondale, Illinois 62901

Sample No.	pH	Ammonia, mg/L	Turbidity, NTU	Alkalinity, mg/L	*Nitrite (NO <sub>2</sub> -N) IC SM 4110B <sup>m</sup> LOQ 0.15 mg/L	*Nitrate (NO <sub>3</sub> -N) IC SM 4110B <sup>m</sup> LOQ 0.11 mg/L	Total Kjeldahl Nitrogen, mg/L	Total Nitrogen-N, mg/L	Total Phosphorus, mg/L
111616002	7.2	0.15	2.6	42	<0.15	<0.11	0.90	0.94	none detected
111616003	7.2	0.15	2.5	42	<0.15	<0.11	1.17	1.19	none detected
111616004	7.2	0.14	2.8	42	<0.15	<0.11	1.43	1.49	none detected

Sample No.	Total Suspended Solids, mg/L	Volatile Total Suspended Solids, mg/L	Volatile Total suspended solids, %	E. Coli <sup>o</sup> , col/100-mL	Fecal Coliform <sup>o</sup> , col/100-mL	Sample Collector	Weather	Lake Elevation, ft.	Rainfall within 48 hours, in.	Depth of sample	Field Temp, oF
111616002	4.0	4.0	100	0	0	J. Wallace	sunny	431.7	0	1 foot	60.2
111616003	7.0	7.0	100	0	0	J. Wallace	sunny	431.7	0	1 foot	60.3
111616004	4.0	3.0	75	6	0	J. Wallace	sunny	431.7	0	15 feet	60.3

Sample No.	Sample Location GPS Coordinates	Any Deviations from standard conditions, or failed QC comments
111616002	37°40'31.31N by 89°17'11.97W	
111616003	37°40'6.52N by 89°16'15.94W	
111616004	37°39'43.43N by 89°16'28.91W	



**Carbondale Central Laboratory**  
**2401 S. McLafferty Road**  
**Carbondale, Illinois 62901**

Phone: 618-457-9613 Ext 223  
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 Laboratory Superintendent: Kimberly A. Cole  
 IDPH Certified Laboratory 17502 NELAP EPA Illinois Number 00012

Sample number	Sample Description	Date/time collected	Date/time received	Composite	Grab	Date/Time Processed	Sample condition
1	121516009	NW CEDAR LAKE 12/14/2016 1610	12/15/2016 0855		X	12/15/2016 1300	ACCEPTABLE
2	121516010	NE CEDAR LAKE 12/14/2016 1620	12/15/2016 0855		X	12/15/2016 1300	ACCEPTABLE
3	121516011	INTAKE 12/15/16 0735	12/15/2016 0855		X	12/15/2016 1300	ACCEPTABLE
4							
5							

Laboratory Report Serial Number: 12052016003 Page 1 of 1  
 Electronic Signature: Kimberly A Cole Reviewed data Date: KAC12/05/2016  
 NELAP ACCREDITED NUMBER 100461 (Accredited test results\*)  
 Final Report: These test results relate only to the samples submitted. Interpretation and submission are the responsibility of the client.  
 \*m\* indicates method modifications per manufacturer



\* denotes NELAP certified method

Sample acceptance Requirements	
Date and Time from bottle match	Y
Proper bottles rec'd in good condition	Y
Sample temperature take upon receipt	Y
Chill Process started prior to receipt	N/A
Samples Recv'd on ice	N/A
Bottles rec'd in good condition	Y
Bottles filled with adequate volume	Y
Samples rec'd within hold times	Y

CLIENT John Wallace, Cedar Lake Manager  
 Address City of Carbondale, Cedar Lake Office  
 City, State, Zip Carbondale, Illinois 62901

Sample No.	pH	Ammonia, mg/L	Turbidity, NTU	Alkalinity, mg/L	*Nitrite (NO <sub>2</sub> -N) IC SM 4110B* m* LOQ 0.15 mg/L	*Nitrate (NO <sub>3</sub> -N) IC SM 4110B* m* LOQ 0.11 mg/L	Total Kjeldahl Nitrogen, mg/L	Total Nitrogen-N, mg/L	Total Phosphorus, mg/L
121516009	7.5	0.26	2.0	40	<0.15	0.26	2.51	2.77	none detected
121516010	7.5	0.28	2.2	40	<0.15	0.23	1.54	1.71	none detected
121516011	7.7	0.28	3.0	40	<0.15	0.22	1.39	1.44	none detected

Sample No.	Total Suspended Solids, mg/L	Volatile Total Suspended Solids, mg/L	Volatile Total suspended solids, %	E. Coli*, col/100-mL	Fecal Coliform*, col/100-mL	Sample Collector	Weather	Lake Elevation, ft.	Rainfall within 48 hours, in.	Depth of sample	Field Temp, oF
121516009	1.0	1.0	100	3	10	J. Wallace	partly cloudy, breezy	432.2	0.4	1 foot	44.5
121516010	<1	<1	100	9	2	J. Wallace	partly cloudy, breezy	432.2	0.4	1 foot	44.5
121516011	3.0	1.0	33	6	3	J. Wallace	partly cloudy, breezy	432.2	0.4	15 feet	44.5

Sample No.	Sample Location GPS Coordinates	Any Deviations from standard conditions, or failed QC comments
121516009	37°40'31.31N by 89°17'11.97W	
121516010	37°40'6.52N by 89°16'15.94W	
121516011	37°39'43.43N by 89°16'28.91W	