

Sample ID: NAR071718Z01
ZOOPLANKTON SAMPLING DATA

Lake Name NAR Personnel _____ Date 7/17/18
 Gear: Wisc. net Clarke-Bumpus Other: _____ Mesh (μm): 153 Other _____
 Station Name N/A Station Number N/A Max Depth at Station m
 Comments Surface tow for species composition in SIA sample.

Field data		Counts by Aliquot	Zooplankton Taxa						
Sample no.	001		DST	✓	N	B02	con	✓	C
Stratum (m)	0-10								
Mil. time	16:12								
Final revs	N/A		Aliq. 1	192	3	795	34	2	
Start revs	N/A		Aliq. 2						
Total revs	N/A		Aliq. 3						
Liters sampled									
Dilution (ml)									
Conc. factor									

Field data		Counts by Aliquot	Zooplankton Taxa						
Sample no.									
Stratum (m)	0-10								
Mil. time									
Final revs	N/A		Aliq. 1						
Start revs	N/A		Aliq. 2						
Total revs	N/A		Aliq. 3						
Liters sampled									
Dilution (ml)									
Conc. factor									

Liters sampled assumes 10 m pull with Wisconsin zooplankton net.

Sample ID: NAR071718702

ZOOPLANKTON SAMPLING DATA

Lake Name NARPersonnel _____ Date 7/17/18Gear: Wisc. net Clarke-Bumpus Other: _____ Mesh (μm): 153 Other _____Station Name NAR LoggerStation Number N/A Max Depth at Station 5 m

Comments _____

Depth 5 meters.

Field data		Counts by Aliquot	Zooplankton Taxa					
Sample no.	002							
Stratum (m)	0-10							
Mil. time	1628							
Final revs	N/A		PET	CON	BOL	DAM	LEN	
Start revs	N/A							
Total revs	N/A							
Liters sampled			Aliq. 1	19	4	34	1	3
Dilution (ml)	40		Aliq. 2	22	5	31	1	2
Conc. factor			Aliq. 3	29	2	34	0	2

Field data		Counts by Aliquot	Zooplankton Taxa					
Sample no.								
Stratum (m)	0-10							
Mil. time								
Final revs	N/A							
Start revs	N/A							
Total revs	N/A							
Liters sampled			Aliq. 1					
Dilution (ml)			Aliq. 2					
Conc. factor			Aliq. 3					

Liters sampled assumes 10 m pull with Wisconsin zooplankton net.

Sample ID: NAR032319Z01

ZOOPLANKTON SAMPLING DATA

Lake Name NAR

Personnel _____

Date 3/23/19Gear: Wisc. net Clarke-Bumpus Other: _____ Mesh (μm): 153 Other _____Station Name NAR02Station Number N/AMax Depth at Station 10 m

Comments _____

Field data		Counts by Aliquot	Zooplankton Taxa						
Sample no.	001		DIT	CON	BOL	DPP	DAN	LEN	
Stratum (m)	0-10								
Mil. time	128								
Final revs	N/A								
Start revs	N/A								
Total revs	N/A								
Liters sampled			Aliq. 1	51	5	4	2	2	
Dilution (ml)			Aliq. 2	55	4	3	3	2	
Conc. factor			Aliq. 3	61	5	5	1	1	

Field data		Counts by Aliquot	Zooplankton Taxa						
Sample no.	0-10		DIT	CON	BOL	DPP	DAN	LEN	
Stratum (m)									
Mil. time									
Final revs	N/A								
Start revs	N/A								
Total revs	N/A								
Liters sampled			Aliq. 1						
Dilution (ml)			Aliq. 2						
Conc. factor			Aliq. 3						

Liters sampled assumes 10 m pull with Wisconsin zooplankton net.

Sample ID: NAR032319Z02
ZOOPLANKTON SAMPLING DATA

Lake Name NAR Personnel _____ Date 3/23/19
 Gear: Wisc. net Clarke-Bumpus Other: _____ Mesh (μm): 153 Other _____
 Station Name NAR03 Station Number N/A Max Depth at Station 10 m
 Comments _____

Field data		Counts by Aliquot	Zooplankton Taxa						
Sample no.	<u>003</u>		DFT	CON	DPP	BOL	LEN	DAN	
Stratum (m)	0-10								
Mil. time	<u>1723</u>								
Final revs	N/A								
Start revs	N/A								
Total revs	N/A								
Liters sampled		Aliq. 1	35	1	2	5	1	1	
Dilution (ml)	<u>40</u>	Aliq. 2	48	8	3	3	0	0	
Conc. factor		Aliq. 3	39	5	3	4	0	0	

Field data		Counts by Aliquot	Zooplankton Taxa						
Sample no.									
Stratum (m)	0-10								
Mil. time									
Final revs	N/A								
Start revs	N/A								
Total revs	N/A								
Liters sampled		Aliq. 1							
Dilution (ml)		Aliq. 2							
Conc. factor		Aliq. 3							

Liters sampled assumes 10 m pull with Wisconsin zooplankton net.

Sample ID: NAP032319Z03
ZOOPLANKTON SAMPLING DATA

Lake Name NAP Personnel _____ Date 3/23/19
 Gear: Wisc. net Clarke-Bumpus Other: _____ Mesh (μm): 153 Other 500
 Station Name N/A Station Number N/A Max Depth at Station 0 m
 Comments Bulk sample for SIA species composition

Field data		Counts by Aliquot	Zooplankton Taxa						
Sample no.	<u>N/A</u>		DJT	LEC	BOL	DAN	DAL	DPP	
Stratum (m)	<u>0-10</u>								
Mil. time	<u>N/A</u>								
Final revs	N/A								
Start revs	N/A								
Total revs	N/A								
Liters sampled			Aliq. 1	10	1	16	9	26	89
Dilution (ml)			Aliq. 2						
Conc. factor			Aliq. 3						

Field data		Counts by Aliquot	Zooplankton Taxa						
Sample no.									
Stratum (m)	0-10								
Mil. time									
Final revs	N/A								
Start revs	N/A								
Total revs	N/A								
Liters sampled			Aliq. 1						
Dilution (ml)			Aliq. 2						
Conc. factor			Aliq. 3						

Liters sampled assumes 10 m pull with Wisconsin zooplankton net.

Sample: NAR032319Z04
ZOOPLANKTON SAMPLING DATA

Lake Name NAR Personnel _____ Date 3/23/19
 Gear: Wisc. net Clarke-Bumpus Other: _____ Mesh (μm): 153 Other _____
 Station Name NAR01 Station Number N/A Max Depth at Station 10 m
 Comments _____

Field data		Counts by Aliquot	Zooplankton Taxa							
Sample no.	<u>001</u>		DFT	CON	BOL	OPP	DAN	LBN		
Stratum (m)	0-10									
Mil. time	<u>1711</u>									
Final revs	N/A									
Start revs	N/A									
Total revs	N/A									
Liters sampled			Aliq. 1	24	6	2	1	3	1	
Dilution (ml)	<u>45</u>		Aliq. 2	27	4	0	1	1	0	
Conc. factor			Aliq. 3	30	3	0	0	2	1	

Field data		Counts by Aliquot	Zooplankton Taxa							
Sample no.										
Stratum (m)	0-10									
Mil. time										
Final revs	N/A									
Start revs	N/A									
Total revs	N/A									
Liters sampled			Aliq. 1							
Dilution (ml)			Aliq. 2							
Conc. factor			Aliq. 3							

Liters sampled assumes 10 m pull with Wisconsin zooplankton net.

Sample ID NALOG61319701

ZOOPLANKTON SAMPLING DATA

Lake Name NAR Personnel _____ Date 6/13/19
 Gear: Wisc. net Clarke-Bumpus Other: _____ Mesh (μm): 153 Other 500
 Station Name _____ Station Number N/A Max Depth at Station 0 m
 Comments Bulk sample for species composition in SIA sample

Field data		Counts by Aliquot	Zooplankton Taxa							
Sample no.	---									
Stratum (m)	0-10									
Mil. time	17:07									
Final revs	N/A									
Start revs	N/A									
Total revs	N/A									
Liters sampled			Aliq. 1	121	112					
Dilution (ml)	----		Aliq. 2							
Conc. factor			Aliq. 3							

Field data		Counts by Aliquot	Zooplankton Taxa							
Sample no.										
Stratum (m)	0-10									
Mil. time										
Final revs	N/A									
Start revs	N/A									
Total revs	N/A									
Liters sampled			Aliq. 1							
Dilution (ml)			Aliq. 2							
Conc. factor			Aliq. 3							

Liters sampled assumes 10 m pull with Wisconsin zooplankton net.

Sample ID NAL061319Z02
ZOOPLANKTON SAMPLING DATA

Lake Name NAR Personnel _____ Date 6/13/19
 Gear: Wisc. net Clarke-Bumpus Other: _____ Mesh (μm): 153 Other _____
 Station Name Temp Bay Station Number N/A Max Depth at Station 10 m
 Comments _____

Field data		Counts by Aliquot	Zooplankton Taxa							
Sample no.	1		DST	Vel	Bd	VSN	DPP	con		
Stratum (m)	0-10									
Mil. time	16:47									
Final revs	N/A									
Start revs	N/A									
Total revs	N/A									
Liters sampled			Aliq. 1	11	1	1	2	8	0	
Dilution (ml)	100		Aliq. 2	12	1	3	4	13	1	
Conc. factor			Aliq. 3	13	2	1	3	14	0	

Field data		Counts by Aliquot	Zooplankton Taxa							
Sample no.										
Stratum (m)	0-10									
Mil. time										
Final revs	N/A									
Start revs	N/A									
Total revs	N/A									
Liters sampled			Aliq. 1							
Dilution (ml)			Aliq. 2							
Conc. factor			Aliq. 3							

Liters sampled assumes 10 m pull with Wisconsin zooplankton net.

Zooplankton Length Measurement Data Sheet

Processed By Bill Pate Date Processed / / Page 1 of 2

Reservoir NAR Sample Number NAR061319Z02 Station name Temp log

Net Type Wisconsin Mesh Size (um) 153 Revolutions N/A

Depth stratum 0 - 10 m Date Collected 6/13/19 Comments _____

Plankton Species: <u>DPP</u>			
Aliquot #	Length (ticks)	Burst (Y or N)	# eggs or neonates
1	61	N	0
1	46	N	0
1	31	Y	0
1	33	N	0
1	66	N	0
1	35	N	0
1	34	N	0
1	33	Y	0
2	40	N	2
2	48	Y	0
2	68	N	1
2	47	N	0
2	39	N	0
2	62	N	0
2	42	N	0
2	58	N	0
2	44	N	0
2	51	N	0
2	50	N	0
2	38	N	0
2	57	N	0
3	66	N	1
3	50	N	0
3	29	N	0
3	27	N	0

Plankton Species: <u>DAN</u>			
Aliquot #	Length (ticks)	Burst (Y or N)	# eggs or neonates
1	21	N	0
1	17	N	0
2	19	N	0
2	22	N	0
2	17	N	0
2	18	N	0
3	23	N	0
3	15	N	0
3	18	N	0

Notes: Individuals to be measured should be selected at random to insure a representative sample. In practice, assuming the plankters are randomly distributed in the aliquot, you can simply measure the first 25 individuals you encounter under the scope. Also, using the black Leitz at 25X magnification 1 mm = 34 ticks.

Sample ID: NAR061319Z03

ZOOPLANKTON SAMPLING DATA

Lake Name NAR Personnel _____ Date 6/13/19
 Gear: Wisc. net Clarke-Bumpus Other: _____ Mesh (μm): 153 Other _____
 Station Name Temp Log Station Number N/A Max Depth at Station _____ m
 Comments _____

Field data		Counts by Aliquot	Zooplankton Taxa					
Sample no.	<u>2</u>		DIT	LEG	DAL	DPP	BOK	CON
Stratum (m)	0-10							
Mil. time	<u>16:52</u>							
Final revs	N/A							
Start revs	N/A							
Total revs	N/A							
Liters sampled			Aliq. 1	11	2	1	3	0
Dilution (ml)	<u>100</u>		Aliq. 2	13	2	3	6	1
Conc. factor			Aliq. 3	10	1	4	4	1

Field data		Counts by Aliquot	Zooplankton Taxa					
Sample no.								
Stratum (m)	0-10							
Mil. time								
Final revs	N/A							
Start revs	N/A							
Total revs	N/A							
Liters sampled			Aliq. 1					
Dilution (ml)			Aliq. 2					
Conc. factor			Aliq. 3					

Liters sampled assumes 10 m pull with Wisconsin zooplankton net.

Sample ID: NAR061319Z04
ZOOPLANKTON SAMPLING DATA

Lake Name NAR Personnel _____ Date 6/13/19
 Gear: Wisc. net Clarke-Bumpus Other: _____ Mesh (μm): 153 Other _____
 Station Name Temp Log Station Number N/A Max Depth at Station _____ m
 Comments _____

Field data		Counts by Aliquot	Zooplankton Taxa						
Sample no.	<u>3</u>		DET	18C	DAN	DPP	BOL	CAN	
Stratum (m)	0-10								
Mil. time	<u>16:57</u>								
Final revs	N/A								
Start revs	N/A								
Total revs	N/A								
Liters sampled			Aliq. 1	11	3	2	6	0	0
Dilution (ml)	<u>100</u>		Aliq. 2	9	0	1	10	1	0
Conc. factor			Aliq. 3	15	1	1	9	1	2

Field data		Counts by Aliquot	Zooplankton Taxa						
Sample no.									
Stratum (m)	0-10								
Mil. time									
Final revs	N/A								
Start revs	N/A								
Total revs	N/A								
Liters sampled			Aliq. 1						
Dilution (ml)			Aliq. 2						
Conc. factor			Aliq. 3						

Liters sampled assumes 10 m pull with Wisconsin zooplankton net.

Sample ID NAR 112319 Z01

ZOOPLANKTON SAMPLING DATA

Lake Name NAR Personnel _____ Date 11/23/19
 Gear: Wisc. net Clarke-Bumpus Other: _____ Mesh (μm): 153 Other _____
 Station Name 19 Logger Station Number N/A Max Depth at Station _____ m
 Comments _____

Field data		Counts by Aliquot	Zooplankton Taxa							
Sample no.	1		DIT	CON	BOL	LEL	MCL	DPP	DPM	
Stratum (m)	0-10									
Mil. time	10:00									
Final revs	N/A									
Start revs	N/A									
Total revs	N/A									
Liters sampled			Aliq. 1	12	4	22	0	0	0	
Dilution (ml)	50		Aliq. 2	15	3	31	3	1	0	
Conc. factor			Aliq. 3	13	6	24	2	0	3	

Field data		Counts by Aliquot	Zooplankton Taxa							
Sample no.										
Stratum (m)	0-10									
Mil. time										
Final revs	N/A									
Start revs	N/A									
Total revs	N/A									
Liters sampled			Aliq. 1							
Dilution (ml)			Aliq. 2							
Conc. factor			Aliq. 3							

Liters sampled assumes 10 m pull with Wisconsin zooplankton net.

Sample ID NAR112319202

ZOOPLANKTON SAMPLING DATA

Lake Name NAR Personnel _____ Date 11/23/19
 Gear: Wisc. net Clarke-Bumpus Other: _____ Mesh (μm): 153 Other _____
 Station Name 19 Ledge Station Number N/A Max Depth at Station _____ m
 Comments _____

Field data		Counts by Aliquot	Zooplankton Taxa							
Sample no.	<u>2</u>		DIT	LEN	ZEC	CON	BOL	DAM		
Stratum (m)	0-10									
Mil. time	10:00									
Final revs	N/A									
Start revs	N/A									
Total revs	N/A									
Liters sampled			Aliq. 1	16	1	5	6	13	1	
Dilution (ml)	<u>50</u>		Aliq. 2	11	0	4	2	29	1	
Conc. factor			Aliq. 3	12	0	2	2	20	0	

Field data		Counts by Aliquot	Zooplankton Taxa							
Sample no.										
Stratum (m)	0-10									
Mil. time										
Final revs	N/A									
Start revs	N/A									
Total revs	N/A									
Liters sampled			Aliq. 1							
Dilution (ml)			Aliq. 2							
Conc. factor			Aliq. 3							

Liters sampled assumes 10 m pull with Wisconsin zooplankton net.

NAR 112319 Z03

ZOOPLANKTON SAMPLING DATA

Lake Name NAR Personnel _____ Date 11/23/19
 Gear: Wisc. net Clarke-Bumpus Other: _____ Mesh (μm): 153 Other _____
 Station Name 19 Layer Station Number N/A Max Depth at Station _____ m
 Comments _____

Field data		Counts by Aliquot	Zooplankton Taxa					
Sample no.	<u>3</u>		DET	286	mes	1302	CON	AGU
Stratum (m)	<u>0-10</u>							
Mil. time	<u>10:00</u>							
Final revs	N/A							
Start revs	N/A							
Total revs	N/A							
Liters sampled		Aliq. 1	11	3	2	37	6	0
Dilution (ml)	<u>50</u>	Aliq. 2	12	2	0	26	3	2
Conc. factor		Aliq. 3	15	1	0	27	6	0

Field data		Counts by Aliquot	Zooplankton Taxa					
Sample no.								
Stratum (m)	<u>0-10</u>							
Mil. time								
Final revs	N/A							
Start revs	N/A							
Total revs	N/A							
Liters sampled		Aliq. 1						
Dilution (ml)		Aliq. 2						
Conc. factor		Aliq. 3						

Liters sampled assumes 10 m pull with Wisconsin zooplankton net.