

#### Student PRE- and POST-sampling Surveys\*—Spring 2014

Pre- and post-REP student evaluations, designed to reflect the program's impact, are distributed to each participating teacher and are written for different grade level groups: 4-6, and 7-12. Schools in the program that have numerous grade levels participating are given the appropriate mix so that each student has the ability to take the proper survey. Pre-REP surveys that do not have a matching post-REP survey (and vice-versa) are enumerated separately, but are not included in overall calculations. This ensures that the assessments are balanced and accurate, though it also can mean some schools' data reflect more/less students who actually participated in the program than in the surveys because they missed either the sampling day or the survey distribution. Below is the compiled assessment of the survey for each grade level participating in Spring 2014 monitoring.

#### KEY:

Increase (PRE → POST)	Decrease (PRE → POST)	No Change (PRE → POST)
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<sup>\*</sup>As of Fall 2013, REP PRE- and POST-sampling surveys have been modified and are adapted (with permission) from similar surveys created and distributed by the Friends of the Chicago River.

#### **Spring 2014 Participants:**

School	City
Achieve Charter Academy	Canton, MI
Birmingham Covington School	Bloomfield Hills, MI
Chandler Park Academy High School	Harper Woods, MI
Clawson Middle School	Clawson, MI
Clippert Academy	Detroit, MI
Crescent Academy International	Canton, MI
Crestwood High School	Dearborn Heights, MI
Detroit Academy of Arts & Sciences	Detroit, MI
Detroit Country Day Middle School	Beverly Hills, MI
Garden City High School	Garden City, MI
Huron Valley Lutheran High School	Westland, MI
Intercity Baptist High School	Allen Park, MI
Levey Middle School	Southfield, MI
Lincoln Street Alternative High School	Birmingham, MI
Mary Helen Guest Elementary School	Walled Lake, MI
Niles Community High School	Troy, MI
Oakland Schools Technical Campus, SE	Royal Oak, MI
Pierce Middle School	Redford, MI
Plymouth High School	Plymouth, MI
Ronald Brown Academy	Detroit, MI
Roosevelt High School	Wyandotte, MI
Salem Elementary School	Northville, MI
Smith Middle School	Troy, MI
St. Valentine Catholic School	Redford, MI
Steppingstone School	Farmington Hills, MI
Tonda Elementary School	Canton, MI
Troy High School	Troy, MI
West Maple Elementary School	Bloomfield Hills, MI

Grade:				Total number of students: 105			
Participating	schools: A	Achieve Cl	narter Academ	y; Ronald Brown Ad School			hool; Steppingstone
			Number of	times to Rouge Riv	ver (field trip)		
	0	1	2	3	4	5+	No Response
PRE	95	4	1	1	0	3	
POST	24	55	6	3	4	12	2 1
	1			Interest in science		T	
	Very into	erested	Interested	Moderately interested	Somewhat interested	Not interested	No Response
PRE	55	5	26	16	4	3	1
POST	53		33	7	4	5	3
% change	-49	%	27%	-56%	0%	67%	200%
	1			Interest in nature		T	
	Very into	erested	Interested	Moderately interested	Somewhat interested	Not interested	No Response
PRE	56	5	21	14	6	6	2
POST	53	3	29	14	4	1	4
% change	-59	%	38%	0%	-33%	-83%	100%
				Interest in schoo			
	Very into	erested	Interested	Moderately interested	Somewhat interested	Not interested	No Response
PRE	29	)	32	16	12	14	2
POST	30	)	30	17	12	11	5
% change	3%	6	-6%	6%	0%	-21%	150%
			Re	elationship with na	ture		
	(	Me A	Nature	B Nature	e e	Me	Nature
PRE		17		54		34	
POST		19		46		39	
% change		12%		-15%		15%	6
		Q: A		ebrates are equally	•		
			TRUE		FALSE (CORF	RECT)	No Response
PRE			27		77		1
POST			15		87		3
% change			-44%		13%		200%
Number of	students c	orrectly i	, ,	macroinvertebrate (snails, clams, etc.)	•	nsects, mamı	mals, <b>crustaceans</b> ,
PRE				2	1		
POST				3			
% change				62	2%		

	Number of students correctly listing a source of po	ollution to the Rouge River					
PRE	51						
POST	80						
% change	57%						
	Number of students correctly listing a corrective acti	on for Rouge River pollution					
PRE	79						
POST	POST 87						
% change	10%						
P	ercentage of students who know where to look to learn	more about Rouge River pollution					
PRE	78%						
POST	87%						
% change	9%						
	Students listing way in which participating in the P						
	Number of participants	Percentage of total					
	92	88%					
	"Agree" Statements						
	I learned something new about the	Rouge River					
Number	101						
% of total	96%						
	I plan to talk to friends and/or family about wh	nat I learned in the REP					
Number	91						
% of total	87%	Danna Dinan kasılıkian					
Ni. wala a w	I learned about things I can do to make the R	douge River nealthier					
Number % of total	92 <b>88%</b>						
% 01 t0tai	The REP helped me to understand things I learn	in my classroom hetter					
Number	70	mmy classroom better					
% of total	67%						
	The REP helped me to think like a	scientist					
Number	, 86						
% of total	82%						
	The REP made me feel that I can make a difference ir	protecting the environment					
Number	97						
% of total	92%						

	Grad	le:		Total number of students:			
	5				10	52	
Participatin	g schools:	Birmingh	am Covington :	School; Mary Heler	n Guest Elementa	ry School; St. V	alentine Catholic
		Sch	nool; Steppings	tone School; Tondo	a Elementary Sch	ool	
			Number of	times to Rouge Riv	ver (field trip)		
	•	4	2	2		_ No	
	0	1	2	3	4	5+	Response
PRE	134	27	0	0	0	1	0
POST	30	104	22	1	1	1	3
				Interest in science	e		
	Vory int	orostod	Interested	Moderately	Somewhat	Not	No Posnonso
	Very int	erestea	interestea	interested	interested	interested	No Response

PRE	57	61	37	6	1	0	
POST	59	55	34	12 2 0			
% change	4%	-10%	-8%	100%			
			Interest in nature				
	Very interested	Interested	Moderately interested	Somewhat interested	Not interested	No Response	
PRE	73	43	35	9	2	0	
POST	62	56	29	7	8	0	
% change	-15%	30%	-17%			0%	
			Interest in school				
	Very interested	Interested	Moderately interested	Somewhat interested	Not interested	No Response	
PRE	41	56	36	14	15	0	
POST	37	45	44	20	16	0	
% change	-10%	-20%	22%	43%	7%	0%	
		Re	lationship with na	ture			
	Me A	Nature	B Nature	è	C Me	Nature	
PRE	9		97		56		
POST	7		89		66		
% change	-22%		-8%		18%		
	Q: A	ll macroinverte	brates are equally	tolerant of pollut	tion		
		TRUE		FALSE (CORR	ECT)	No Response	
PRE		23		139		0	
POST		34		128		0	
% change		48%		-8%		0%	
Number of	students correctly i	dentifying ALL	macroinvertebrate	s from list (i.e., in	sects, mamm	nals, <b>crustaceans</b> ,	
		molluscs	(snails, clams, etc.)	, birds, fish)			
PRE			23	8			
POST			3	6			
% change			29				
	Number of st	udents correct	ly listing a source o	f pollution to the	Rouge River		
PRE			12				
POST			14				
% change			13				
	Number of stud	ents correctly	listing a corrective		River pollution	on	
PRE			14				
POST			15				
% change			59				
	ercentage of studer	its who know v			ouge River po	ollution	
PRE			84				
POST			87				
% change			39				
			h participating in t	he REP helps the			
	Number of	participants			Percentage	of total	

	150	93%					
	"Agree" Statements						
	I learned something new about the	Rouge River					
Number	157						
% of total	97%						
	I plan to talk to friends and/or family about wh	hat I learned in the REP					
Number	139						
% of total	86%						
	I learned about things I can do to make the F	Rouge River healthier					
Number	161						
% of total	99%						
	The REP helped me to understand things I learn	in my classroom better					
Number	101						
% of total	62%						
	The REP helped me to think like a	a scientist					
Number	134						
% of total	83%						
	The REP made me feel that I can make a difference in	n protecting the environment					
Number	156						
% of total	96%						

	Grad	de:		Total number of students:					
	6			187					
Participat	ing schools	: Birming	ham Covingto	n School; Clippert Ad	cademy; Crescen	nt Academy Inte	ernation	al; Detroit	
	Cour	ntry Day N	Middle School,	; St. Valentine Catho	lic School; Stepp	ingstone Schoo	ol		
			Number	of times to Rouge Ri	ver (field trip)				
	0	1	2	3	4	5+		No Response	
PRE	135	26	4	14	2	3		3	
POST	31	110	22	5	14	3		2	
. 001	31	110		Interest in science				_	
		_	_	Moderately	Somewhat	Not			
	Very inte	erested	Interested	interested	interested	interested	No Response		
PRE	58	3	65	43	19	2		0	
POST	42	<u>)</u>	72	50	16	7		0	
% change	-28	%	11%	16%	-16%	250%		0%	
				Interest in natur	e				
	Vory into	roctod	Interested	Moderately	Somewhat	Not	No B	locnonco	
	Very inte	eresteu	interested	interested	interested	interested	NO N	Response	
PRE	58	3	62	48	13	5		0	
POST	56	5	56	38	27	10		0	
% change	-3%	%	-10%	-21%	108%	100%		0%	
				Interest in school	ol				
	Very inte	arested	Interested	Moderately	Somewhat	Not	No P	Response	
	veryinte	Liesteu	interested	interested	interested	interested	NON	caponae	
PRE	41	L	60	34	34	18		0	

POST	29	54	51	30	23	0		
% change	-29%	-10%	50%	-12% 28% atture		0%		
			Relationship with na	iture				
	Me Nature B			C Me Nature				
PRE	20		138	29				
POST	26		123	38				
% change	30%		-11%		319	6		
	Q: All macroinvertebrates are equally tolerant of pollution							
DDE		TRUE		FALSE (COR	RECT)	No Response		
PRE POST		42 39		145 148		0		
% change		-7%		2%		0%		
	of students correctly		LL macroinvertebrate		insects, man			
	, , , , , , , , , , , , , , , , , , , ,		cs (snails, clams, etc.	•		, 6. 4004004,		
PRE			40					
POST			59					
% change			48%					
	Number of st	tudents corre	ectly listing a source	•	ne Rouge Riv	er		
PRE			145					
POST			167					
% change	Ni. mala an af atu.	danta aannaat	15%		o Divor polle	ution.		
PRE	Number of Stud	aents correct	ly listing a corrective		e River polit	ition		
POST			174					
% change			4%					
0:	Percentage of stude	nts who know			Rouge River	pollution		
PRE			83%	6				
POST			91%	6				
% change			8%					
			hich participating in	the REP helps th				
		participants			Percentage			
	1	77	"Agree" Statemer	<u> </u>	95%	0		
		I learned so	omething new about					
Number		ricurrieu sc	nnething new about	-				
% of total			94%					
	I plan to	talk to friend	s and/or family abou		in the REP			
Number			148					
% of total			79%					
	I learne	ed about thin	gs I can do to make t	_	healthier			
Number			176					
% of total	94% The REP helped me to understand things I learn in my classroom better							
Ni coo lo e o	The REP h	eiped me to i		•	room better			
Number			137	<u>'</u>				

% of total	73%
	The REP helped me to think like a scientist
Number	148
% of total	79%
	The REP made me feel that I can make a difference in protecting the environment
Number	172
% of total	92%

	Agree			Disagree	sagree ability to research problem			Siy Disagiee
	Strongly		Agree	Neither Agree no	nr .	sagree		gly Disagree
	Of those lis	sting pro	oblem above.	number of students wh		E with follow	ing statem	ents:
% change				79				
POST								
PRE	Percenta I	ige ot st	tudents correc	ctly listing a corrective a	•	llution source	e listed abo	ove
% change		<u> </u>		-39			11 1 1 1	
POST				78				
PRE				80				
	N	lumber	of students co	orrectly listing a source	of pollution	to the Rouge	River	
% change	-37%		26%	-14%	50%	-40%		0%
POST	12		34	24	18	3		0
PRE	19		27	28	12	5		0
	Very interes	-	Interested	Moderately interested	interested	interested	No	Response
	1/05	v		Interest in school	Somewhat	Not		
% change	-8%	0	11%	0%	10%	-30%		0%
POST	11	,	20	31	22	7		0
PRE	12		18	31	20	10		0
	interes	sted	Interested	interested	interested	interested	l No	Response
	Ver	· ·		Moderately	Somewhat	Not		
% change	11%	o .	-1/%	Interest in natur		-33%	_	U%
	11%	/	-17%	-3%	40%	-33%		0%
PRE POST	19 21		23 19	36 35	10 14	3 2		0
225	Very	sted	Interested	Moderately interested	Somewhat	interested	No.	Response
			, , , , , , , , , , , , , , , , , , , ,	Interest in scien	1			
POST	9	39	34	2	1	5		1
PRE	16	63	3	3	2	4		0
	0	1	2	3	4	5.	+	No Response
7 41	ticipating	30110013		per of times to Rouge R			ppingscom	3011001
Par		schools	: Detroit Cour	ntry Day Middle School;	Smith Mida		ppinastone	e School
	<b>Grade:</b> 7			Total number of students: 91				

PRE	11	27	20	7	6	
POST	17	24	25	9	3	
Relative %						
change	55%	-11%	25%	29%	-50%	
		I am sure that I co	uld explain to others w	hy this problem is impor	rtant	
PRE	22	20	18	7	4	
POST	21	30	13	12	2	
Relative %	-5%	50%	-28%	71%	-50%	
change						
				s to take action on this p		
PRE	12	17	25	10	7	
POST	11	23	29	9	6	
Relative % change	-8%	35%	16%	-10%	-14%	
Change			Relationship with r	nature		
			Relationship with	ideare		
			В		C	
		A		,		
	Me	Nature	Me Nature	Me	Nature	
				\		
	)					
PRE		22	60		9	
POST		24	56	11		
% change		9%	-7%	22%		
Q: When	testing for tl	he presence of diss	solved oxygen, doing th	ne test more than once w	will give the most accurate	
			result			
		TRUE (CO		FALSE	No response	
PRE		89		2	0	
POST		89 80		2 1	0 10	
		89 80 -109	%	2 1 -50%	0	
POST		89 80 -109 Q: All macroi	%	2 1 -50% Ily tolerant of pollution	0 10 1000%	
POST % change		89 80 -109 Q: All macroi	%	2 1 -50% Ily tolerant of pollution	0 10 1000%	
POST % change PRE		89 80 -109 Q: All macroi TRUE	%	2 1 -50% Ily tolerant of pollution	0 10 1000% E (CORRECT) 75	
POST % change PRE POST		89 80 -109 Q: All macroi TRUE 16 18	%	2 1 -50% Ily tolerant of pollution	0 10 1000% E (CORRECT) 75 63	
POST % change  PRE POST % change	of child sixt	89 80 -109 Q: All macroi TRUE 16 18 13%	% invertebrates are equa	2 1 -50%  Illy tolerant of pollution FALS	0 10 1000% EE (CORRECT) 75 63 -16%	
POST % change  PRE POST % change	of students	89 80 -109 Q: All macroi TRUE 16 18 13% correctly identifyin	invertebrates are equa	2 1 -50%  Illy tolerant of pollution  FALS  tes from list (i.e., insect	0 10 1000% E (CORRECT) 75 63	
POST % change  PRE POST % change Number	of students of	89 80 -109 Q: All macroi TRUE 16 18 13% correctly identifyin	% invertebrates are equa  g ALL macroinvertebra  lluscs (snails, clams, et	2 1 -50%  Ily tolerant of pollution  FALS  tes from list (i.e., insect c.), birds, fish)	0 10 1000% EE (CORRECT) 75 63 -16%	
POST % change  PRE POST % change Number  PRE	of students of	89 80 -109 Q: All macroi TRUE 16 18 13% correctly identifyin	invertebrates are equa	2 1 -50%  Illy tolerant of pollution FALS  tes from list (i.e., insect c.), birds, fish)	0 10 1000% EE (CORRECT) 75 63 -16%	
POST % change  PRE POST % change Number  PRE POST	of students (	89 80 -109 Q: All macroi TRUE 16 18 13% correctly identifyin	invertebrates are equa	1 -50%  Illy tolerant of pollution  FALS  tes from list (i.e., insect c.), birds, fish)  39 33	0 10 1000% EE (CORRECT) 75 63 -16%	
POST % change  PRE POST % change Number  PRE		89 80 -109 Q: All macroi TRUE 16 18 13% correctly identifyin	invertebrates are equangles of ALL macroinvertebrates are liuscs (snails, clams, et a sails).	1 -50%  Illy tolerant of pollution  FALS  tes from list (i.e., insect c.), birds, fish)  39 33	0 10 1000% E (CORRECT) 75 63 -16% s, mammals, crustaceans,	
POST % change  PRE POST % change Number  PRE POST % change		89 80 -109 Q: All macroi TRUE 16 18 13% correctly identifyin	invertebrates are equals  ag ALL macroinvertebra  illuscs (snails, clams, etc.)  3  -1  ts correctly listing a so	1 -50%  Illy tolerant of pollution  FALS  tes from list (i.e., insect c.), birds, fish)  39 33 5%  urce of nitrates to the R	0 10 1000% E (CORRECT) 75 63 -16% s, mammals, crustaceans,	
POST % change  PRE POST % change Number  PRE POST % change		89 80 -109 Q: All macroi TRUE 16 18 13% correctly identifyin	% invertebrates are equa  g ALL macroinvertebra  lluscs (snails, clams, etc	1 -50%  Illy tolerant of pollution  FALS  tes from list (i.e., insect c.), birds, fish)  39 33 5%  urce of nitrates to the R	0 10 1000% E (CORRECT) 75 63 -16% s, mammals, crustaceans,	
POST % change  PRE POST % change Number  PRE POST % change  PRE POST % change		89 80 -109 Q: All macroi TRUE 16 18 13% correctly identifyin	invertebrates are equal and all uscs (snails, clams, etc.)  Its correctly listing a social social and all uscs.	1 -50%  Illy tolerant of pollution  FALS  tes from list (i.e., insect c.), birds, fish)  39 33 5%  urce of nitrates to the R	0 10 1000% E (CORRECT) 75 63 -16% s, mammals, crustaceans,	
POST % change  PRE POST % change Number  PRE POST % change		Q: All macroi TRUE 16 18 13% correctly identifyin mo	invertebrates are equal and ALL macroinvertebrates are liuscs (snails, clams, etc.)  3 3 -1 ts correctly listing a soc.	2 1 -50%  Illy tolerant of pollution FALS  tes from list (i.e., insect c.), birds, fish) 39 33 5%  urce of nitrates to the R 2 13 0%	0 1000% EE (CORRECT) 75 63 -16% s, mammals, crustaceans,	
POST % change  PRE POST % change Number  PRE POST % change  PRE POST % change		Q: All macroi TRUE 16 18 13% correctly identifyin mo	invertebrates are equal graph of the state o	1 -50%  Illy tolerant of pollution  FALS  tes from list (i.e., insect c.), birds, fish)  39 33 5%  urce of nitrates to the Rice 2	0 1000% EE (CORRECT) 75 63 -16% s, mammals, crustaceans,	
POST % change  PRE POST % change Number  PRE POST % change  PRE POST % change		Q: All macroi TRUE 16 18 13% correctly identifyin mo	invertebrates are equal and alluscs (snails, clams, etc.)  Its correctly listing a socorrectly listing an action	1 -50%  Illy tolerant of pollution FALS  tes from list (i.e., insect c.), birds, fish)  39 33 5%  urce of nitrates to the R 2 .3 .0% on to limit nitrates in the	0 1000% EE (CORRECT) 75 63 -16% s, mammals, crustaceans,	
POST % change  PRE POST % change Number  PRE POST % change  PRE POST % change		Q: All macroi TRUE 16 18 13% correctly identifyin mo	invertebrates are equal and ALL macroinvertebrates are liuscs (snails, clams, etc.)  and and an action are equal and are equal are equal and are equal and are equal are	1 -50%  Illy tolerant of pollution FALS  tes from list (i.e., insect c.), birds, fish)  39 33 5%  urce of nitrates to the R 2 3 0% on to limit nitrates in the	0 1000% EE (CORRECT) 75 63 -16% s, mammals, crustaceans,	
POST % change  PRE POST % change Number  PRE POST % change  PRE POST % change  PRE POST % change	Nu	Q: All macroi TRUE 16 18 13% correctly identifyin mo	invertebrates are equal and all uscs (snails, clams, etc.)  as a correctly listing a socorrectly listing an action and action and action are all uscs.	1 -50%  Illy tolerant of pollution FALS  tes from list (i.e., insect c.), birds, fish) 39 33 5% urce of nitrates to the R 2 .3 .0% on to limit nitrates in the 6 .3	To 1000%  E (CORRECT)  75  63  -16%  s, mammals, crustaceans,  ouge	
POST % change  PRE POST % change Number  PRE POST % change  PRE POST % change  PRE POST % change	Nu	Q: All macroi TRUE 16 18 13% correctly identifyin mo	invertebrates are equal and alluscs (snails, clams, etc.)  Its correctly listing a socion and action action and action act	1 -50%  Illy tolerant of pollution FALS  tes from list (i.e., insect c.), birds, fish)  39 33 5%  urce of nitrates to the R 2 3 0% on to limit nitrates in the 6 13 7% on the REP helps the Rough	To 1000%  E (CORRECT)  75  63  -16%  s, mammals, crustaceans,  ouge	

		63			69%				
		Follow-up Que	estion: Extent of Experien	ice with the REP					
		I learned s	omething new about the	Rouge River					
	Strongly	Agree	Neither Agree nor	Disagree	Strongly	No			
	Agree	Agree	Disagree	Disagree	Disagree	Response			
Number	40	25	14	8	4	0			
% of total	44%	27%	15%	9%	4%	0%			
		I plan to talk to friend	ds and/or family about wh	nat I learned in the	REP				
	Strongly	Agree	Neither Agree nor	Disagree	Strongly	No			
	Agree	Agree	Disagree	Disagree	Disagree	Response			
Number	9	12	27	21	22	0			
% of total	10%	13%	30%	23%	24%	0%			
		I experienced a fe	eling of connectedness w	ith the Rouge River					
	Strongly	Agree	Neither Agree nor	Disagree	Strongly	No			
	Agree	_	Disagree		Disagree	Response			
Number	10	11	31	18	21	0			
% of total	11%	12%	34%	20%	23%	0%			
I reflected on new ideas about how my actions affect the river									
	Strongly	Agree	Neither Agree nor	Disagree	Strongly	No			
	Agree	_	Disagree		Disagree	Response			
Number	12	18	32	13	16	0			
% of total	13%	20%	35%	14%	18%	0%			
I learned what actions to take to make the Rouge healthier									
	Strongly	Agree	Neither Agree nor	Disagree	Strongly	No			
	Agree	_	Disagree		Disagree	Response			
Number	29	25	28	4	5	0			
% of total	32%	27%	31%	4%	5%	0%			
	T	I would choose to p	participate in more projec	ts to help the Roug		1			
	Strongly	Agree	Neither Agree nor	Disagree	Strongly	No			
	Agree	_	Disagree		Disagree	Response			
Number	16	18	26	18	13	0			
% of total	18%	20%	29%	20%	14%	0%			
		REP monitoring r	made a difference in the h	ealth of the Rouge	0. 1				
	Strongly	Agree	Neither Agree nor	Disagree	Strongly	No			
NIl	Agree	20	Disagree	0	Disagree	Response			
Number	28	20	33	9	1	0			
% of total	31%	22%	36%	10%	1%	0%			
	Chua:l:	KEP MONITORING INVO	Ived people/organizations	s from the commun	•	A! -			
	Strongly	Agree	Neither Agree nor	Disagree	Strongly	No			
Numahan	Agree	12	Disagree	1.4	Disagree	Response			
Number % of total	15 <b>16%</b>	12 <b>13%</b>	38 <b>42%</b>	14 <b>15%</b>	12	0 <b>0%</b>			
% OF LOCAL	10%		·		13%	U%			
	Strongly	— тне кст петреа то 	Provided that I could make a Neither Agree nor	 		No			
	Strongly Agree	Agree	Disagree nor	Disagree	Strongly Disagree	No Response			
Number	Agree 9	20	40	11	Disagree 11	nesponse 0			
% of total	<b>10%</b>	<b>20</b>	44%	12%	12%	0%			
70 OI LOLAI			44%       44%     1   1   1   1   1   1   1   1   1			U/6			
	Strongly	in the KLF, Thiet peop	Neither Agree nor	ormany wouldn't n	Strongly	No			
	Agree	Agree	Disagree	Disagree	Disagree	Response			
	Agree		Disagi ee		Disagi ee	veshouse			

Number	13	17	26	15	20	0				
% of total	14%	19%	29%	16%	22%	0%				
		The REP c	hallenged me to think like	e a scientist						
	Strongly Agree	Agree	Neither Agree nor Disagree	Disagree	Strongly Disagree	No Response				
Number	17	16	26	18	14	0				
% of total	19%	18%	29%	20%	15%	0%				
		The REP w	as directly related to class	sroom work						
	Strongly Agree	Agree	Neither Agree nor Disagree	Disagree	Strongly Disagree	No Response				
Number	24	13	32	15	7	0				
% of total	26%	14%	35%	16%	8%	0%				
The REP helped me understand classroom material better										
	Strongly Agree	Agree	Neither Agree nor Disagree	Disagree	Strongly Disagree	No Response				
Number	19	11	34	14	13	0				
% of total	21%	12%	37%	15%	14%	0%				
	I had the op	portunity to participa	te in river-related discussi	ions/activities BEFC	DRE our field tri	p				
	Strongly Agree	Agree	Neither Agree nor Disagree	Disagree	Strongly Disagree	No Response				
Number	28	21	25	10	7	0				
% of total	31%	23%	27%	11%	8%	0%				
	I had the op	oportunity to participo	ate in river-related discuss	sions/activities AFT	ER our field trip	)				
	Strongly Agree	Agree	Neither Agree nor Disagree	Disagree	Strongly Disagree	No Response				
Number	24	14	29	15	9	0				
% of total	26%	15%	32%	16%	10%	0%				

	Grade:			Total number of students:						
	8			106						
Participating sc	<b>hools:</b> Detroit	Academy of A	Arts & Sciend	ce; Detroit C	ountry Day M	iddle School;	Pierce Mide	dle School;		
		Smith N	Aiddle Schoo	ol; Stepping:	stone School					
Number of times to Rouge River (field trip)										
	_		•	_		_ No				
	0	1	2	3	4	54	5+ Re			
PRE	82	5	13	1	0	3		2		
POST	59	27	10	8	0	2		0		
Interest in science										
	Very	Interested	Mode	rately	Somewhat	Not	No Do			
	interested	Interested	inter	ested	interested	interested	No Ke	sponse		
PRE	34	40	2	3	8	1		0		
POST	44	31	2	4	5	2		0		
% change	29%	-23%	4	%	-38%	100%	C	1%		
			Intere	st in nature						
	Very	Interested	Mode	rately	Somewhat	Not	No Bo	cnonco		
	interested	Interested	inter	ested	interested	interested	No Response			
PRE	33	27	3	9	4	3	0			

POST	38	22	36	<u>;</u>	7	3	0				
% change	15%	-19%	-89	%	75%	0%	0%				
			Interes	t in school							
	Very interested	Interested	Moder intere	-	Somewhat interested		No Response				
PRE	41	33	19	)	8	5	0				
POST	44	29	23	3	8	2	0				
% change	7%	-12%	219	%	0%	-60% 0%					
	Number of	students cor	rectly listing	a source o	f pollution to	the Rouge Riv	er				
PRE				5	5						
POST				8							
% change											
Percentage of students correctly listing a corrective action for pollution source listed above											
PRE				91							
POST				89							
% change				-2							
Of those listing problem above, number of students who can AGREE with following statements:											
	Strongly Ag		Agree Neither A		agree	Disagree	Strongly Disagree				
	I am confident in my ability to research problem										
PRE	17		19	15		3	1				
POST	38		19	25	5	4	3				
Relative % change	124%		0%	67		33%	200%				
		re that I could		-	-	is important					
PRE	21		15	12		5	2				
POST	34		24	22	2	7	2				
Relative % change	62%		60%	83		40%	0%				
		ere I could fir				on this problei					
PRE	16		8	24		5	2				
POST	26		23	27	7	10	3				
Relative % change	63%		188%	13	%	100%	50%				
			Relationsh	ip with nat	ure						
	A		В			C					
	Me	Nature	Me	Nature		Me	Nature				
PRE	17	7	55			34					
POST	17	7	61			28					
% change											
Q: When testin	ng for the pres	ence of dissol		doing the fesult	test more th	an once will giv	ve the most accurate				
		TRUE	(CORRECT)				FALSE				
PRE	91					15					
POST			93				13				
% change			2%			-13%					

	Q: All m	acroinvertebrates a	re equally tolerant o	of pollution						
		TRUE		FALSE (CORRECT)						
PRE		28		78						
POST		26		80						
% change		-7%		3%						
Number of st	udents correctly iden			(i.e., insects, mamma	ls, <b>crustaceans</b> ,					
	1	<b>molluscs</b> (snails, c	lams, etc.), birds, fis	h)						
PRE			23							
POST			24							
% change	Ni. walan af at		4%	too to the Davis						
PRE	Number of st	udents correctly list	ing a source of nitra 7	tes to the Rouge						
POST										
% change			371%							
70 Change	Number of stude	ents correctly listing	g an action to limit ni	trates in the Rouge						
PRE	Number of stack	chies correctly listing	17	trates in the Rouge						
POST			24							
% change			41%							
	Students listing way in which participating in the REP helps the Rouge River									
	Number of participants Percentage of total									
	78 74%									
	Follow-up Question: Extent of Experience with the REP									
I learned something new about the Rouge River										
	Strongly Agree	Agree	Neither Agree	Disagree	Strongly					
	Strongly Agree	Agree	nor Disagree	Disagree	Disagree					
Number	64	20	13	3	6					
% of total	60%	19%	12%	3%	6%					
	I plan to talk	to friends and/or fa	mily about what I le	arned in the REP						
	Strongly Agree	Agree	Neither Agree	Disagree	Strongly					
NIl			nor Disagree		Disagree					
Number	33 <b>31%</b>	22 <b>21%</b>	29 <b>27%</b>	13 <b>12%</b>	9					
% of total			nectedness with the		8%					
	Техрепен	iced a jeeling of con	Neither Agree	houge hivei	Strongly					
	Strongly Agree	Agree	nor Disagree	Disagree	Disagree					
Number	28	26	30	12	10					
% of total	26%	25%	28%	11%	9%					
	I reflected	l on new ideas abou	it how my actions af	fect the river						
	Strongly Agree	A =====	Neither Agree	Disagras	Strongly					
	Strongly Agree	Agree	nor Disagree	Disagree	Disagree					
Number	39	22	27	9	9					
% of total	37%	21%	25%	8%	8%					
	I learne	d what actions to ta	ke to make the Roug	ge healthier						
	Strongly Agree	Agree	Neither Agree	Disagree	Strongly					
			nor Disagree		Disagree					
Number	46	28	19	7	6					
% of total	43%	26%	18%	7%	6%					
			n more projects to h	, ,	6:					
	Strongly Agree	Agree	Neither Agree	Disagree	Strongly					

			T		1			
			nor Disagree		Disagree			
Number	49	21	24	6	6			
% of total	46%	20%	23%	6%	6%			
	REP mon	itoring made a diffe	rence in the health o	of the Rouge				
	Strongly Agree	Agree	Neither Agree	Disagree	Strongly			
	Strongly Agree	Agree	nor Disagree	Disagree	Disagree			
Number	42	27	30	4	3			
% of total	40%	25%	28%	4%	3%			
	REP monitor	ing involved people,	organizations from	the community				
	Chuanalu Aavaa	A ====	Neither Agree	Diagram	Strongly			
	Strongly Agree	Agree	nor Disagree	Disagree	Disagree			
Number	38	22	34	3	9			
% of total	36%	21%	32%	3%	8%			
	The REP he	elped me feel that I	could make a differe	nce in society				
	Charact Assess		Neither Agree	<b>D</b> :	Strongly			
	Strongly Agree	Agree	nor Disagree	Disagree	Disagree			
Number	34	25	33	9	5			
% of total	32%	24%	31%	8%	5%			
	In the REP. I n	net people/encount	ered things I normal	lv wouldn't have				
		•	Neither Agree		Strongly			
	Strongly Agree	Agree	nor Disagree	Disagree	Disagree			
Number	41	25	24	8	8			
% of total	39%	24%	23%	8%	8%			
The REP challenged me to think like a scientist								
		ie ner enanengea n	Neither Agree		Strongly			
	Strongly Agree	Agree	nor Disagree	Disagree	Disagree			
Number	43	21	26	10	6			
% of total	41%	20%	25%	9%	6%			
70 01 10141			related to classroom		<b>3</b> /3			
		ener was an every r	Neither Agree		Strongly			
	Strongly Agree	Agree	nor Disagree	Disagree	Disagree			
Number	42	29	27	5	3			
% of total	40%	27%	25%	5%	3%			
70 01 10141			tand classroom mate		3,0			
	THE KEI	Therped The dilderst	Neither Agree	That Better	Strongly			
	Strongly Agree	Agree	nor Disagree	Disagree	Disagree			
Number	37	26	27	9	7			
% of total	35%	25%	25%	8%	7%			
				ctivities BEFORE our fie	l			
77100		urticipate in river-re	Neither Agree	Clivilles bei One our fie	Strongly			
	Strongly Agree	Agree	nor Disagree	Disagree	Disagree			
Number	34	28	24	6	14			
% of total	32%	26%	23%	6%	13%			
ına	The opportunity to j	ourticipate in river-i		nctivities AFTER our fiel				
	Strongly Agree	Agree	Neither Agree	Disagree	Strongly			
N			nor Disagree	_	Disagree			
Number	40	21	24	10	11			
% of total	38%	20%	23%	9%	10%			

No Response		Grade:		Total number of students: 18								
PRE	Part	icipating schoo			, ,	ool; Huron Va		ligh School				
PRE			Numbe	r of times to	o Rouge Rive	er (field trip)						
Very   Interested   Intereste		0	1	2	3	4	5+					
Very   Interest in science   Moderately   interested   Interest in nature	PRE	17	1	0	0	0	0		0			
No Response	POST	12	5	1	0	0	0		0			
Interested   Int				Intere	st in science							
POST   3   10   5   0   0   0   0   0   0   0   0			Interested		-		1	No Re	sponse			
No Response   No Response   No Response	PRE	7	3		8	0	0		0			
No Response   No Response   No Response	POST	3	10	5		0	0		0			
No Response   No Response	% change	-57%	233%	-3	8%	0%	0%	C	1%			
Interested   Interest   Interes				Intere	st in nature							
PRE		Very		Mode	rately	Somewhat	Not	N. D.				
POST   2   7   8   1   0   0   0			Interested	inter	ested	interested	interested	No Re	sponse			
Not   No Response   Not   No Response   Not   Interested   Intereste	PRE	3	7	5 2			1		0			
No Response   No Response   No Response   No Response   Interested	POST	2	7		8	1	0		0			
No Response   No Response   No Response   No Response   No Response   RE	% change	-33%	0%	60% -50% -1			-100%	C	1%			
Interested   Int		Interest in school										
PRE		Very		Mode	rately	Somewhat	Not	N. D.				
POST   3   7   6   2   0   0   0       % change   200%   -42%   50%   100%   0%   0%   0%     Number of students correctly listing a source of pollution to the Rouge River     PRE			Interested	interested		interested	interested	No Re	sponse			
Number of students correctly listing a source of pollution to the Rouge River	PRE	1	12	4	4	1	0		0			
Number of students correctly listing a source of pollution to the Rouge River  PRE 14  POST 17  % change 21%  Percentage of students correctly listing a corrective action for pollution source listed above  PRE 93%  POST 94%  % change 1 1%  Of those listing problem above, number of students who can AGREE with following statements:  Strongly Agree Agree Neither Agree nor Disagree Disagree Strongly Disagree  PRE 4 4 3 2 1  POST 5 6 5 1 0  Relative % change 25% 50% 67% -50% -100%  I am sure that I could explain to others why this problem is important  PRE 2 8 0 3 1  POST 6 7 4 0 0 0  Relative % change 200% -13% 400% -100% -100%	POST	3	7		6	2	0		0			
PRE	% change	200%	-42%	50	)%	100%	0%	C	)%			
PRE		Number of	students cor	rectly listing	g a source of	pollution to	the Rouge Riv	er				
Percentage of students correctly listing a corrective action for pollution source listed above	PRE				1	4						
Percentage of students correctly listing a corrective action for pollution source listed above  PRE 93%  POST 94%  % change 1%  Of those listing problem above, number of students who can AGREE with following statements:  Strongly Agree Agree Neither Agree nor Disagree Disagree Disagree  I am confident in my ability to research problem  PRE 4 4 4 3 2 1  POST 5 6 5 1 0  Relative % change 25% 50% 67% -50% -100%  I am sure that I could explain to others why this problem is important  PRE 2 8 0 3 1  POST 6 7 4 0 0 0  Relative % 200% -13% 400% -100% -100%	POST				1	7						
PRE         93%           POST         94%           % change         1%           Of those listing problem above, number of students who can AGREE with following statements:         Strongly Agree         Neither Agree nor Disagree         Disagree         Strongly Disagree           I am confident in my ability to research problem           PRE         4         4         3         2         1           POST         5         6         5         1         0           Relative % change         25%         50%         67%         -50%         -100%           I am sure that I could explain to others why this problem is important           PRE         2         8         0         3         1           POST         6         7         4         0         0           Relative % change         200%         -13%         400%         -100%         -100%	% change				21	%						
POST         94%           % change         1%           Of those listing problem above, number of students who can AGREE with following statements:           Strongly Agree         Agree         Neither Agree nor Disagree         Disagree         Strongly Disagree           PRE         4         4         3         2         1           POST         5         6         5         1         0           Relative % change         25%         50%         67%         -50%         -100%           I am sure that I could explain to others why this problem is important         PRE         2         8         0         3         1           POST         6         7         4         0         0           Relative % change         200%         -13%         400%         -100%         -100%	Per	rcentage of stud	dents correctl	y listing a co	orrective act	ion for pollut	ion source list	ed above				
% change1%Of those listing problem above, number of students who can AGREE with following statements:Strongly AgreeAgreeNeither Agree nor DisagreeDisagreeStrongly DisagreeI am confident in my ability to research problemPRE44321POST56510Relative % change25%50%67%-50%-100%I am sure that I could explain to others why this problem is importantPRE28031POST67400Relative % change200%-13%400%-100%-100%	PRE				93	%						
Of those listing problem above, number of students who can AGREE with following statements:    Strongly Agree   Agree   Neither Agree nor Disagree   Disagree   Disagree	POST				94	%						
Strongly Agree         Agree nor Disagree         Neither Agree nor Disagree         Disagree         Strongly Disagree           I am confident in my ability to research problem           PRE         4         4         3         2         1           POST         5         6         5         1         0           Relative % change         25%         50%         67%         -50%         -100%           I am sure that I could explain to others why this problem is important           PRE         2         8         0         3         1           POST         6         7         4         0         0           Relative % change         200%         -13%         400%         -100%         -100%	% change				19	%						
Strongly Agree   Agree   nor Disagree   Disagree   Disagree   Disagree	Of th	ose listing prob	lem above, n	umber of st	udents who	can AGREE w	ith following s	statements	:			
PRE		Strongly Ag	roo	Agree	Neither	Agree	Disagree	S	trongly			
PRE         4         4         4         3         2         1           POST         5         6         5         1         0           Relative % change         25%         50%         67%         -50%         -100%           I am sure that I could explain to others why this problem is important           PRE         2         8         0         3         1           POST         6         7         4         0         0           Relative % change         200%         -13%         400%         -100%         -100%		Strongly Ag	166	Agree	nor Dis	agree	Disagree	D	isagree			
POST         5         6         5         1         0           Relative % change         25%         50%         67%         -50%         -100%           I am sure that I could explain to others why this problem is important           PRE         2         8         0         3         1           POST         6         7         4         0         0           Relative % change         200%         -13%         400%         -100%         -100%			I am confi	ident in my	ability to res	search proble	m					
Relative % change         25%         50%         67%         -50%         -100%           I am sure that I could explain to others why this problem is important           PRE         2         8         0         3         1           POST         6         7         4         0         0           Relative % change         200%         -13%         400%         -100%         -100%	PRE						2		1			
change         25%         50%         67%         -50%         -100%           I am sure that I could explain to others why this problem is important           PRE         2         8         0         3         1           POST         6         7         4         0         0           Relative % change         200%         -13%         400%         -100%         -100%		5		6	5		1		0			
PRE         2         8         0         3         1           POST         6         7         4         0         0           Relative % change         200%         -13%         400%         -100%         -100%		25%		50%	679	%	-50%		-100%			
POST         6         7         4         0         0           Relative % change         200%         -13%         400%         -100%         -100%		I am su	re that I coul	d explain to	others why	this problem	is important					
Relative % change 200% -13% 400% -100% -100%	PRE	2		8	0		3		1_			
change 200% -13% 400% -100% -100%	POST	6		7	4		0		0			
		200%		-13%	400	%	-100%		-100%			
, , , , , , , , , , , , , , , , , , , ,		I know wh	ere I could fir	nd help and	resources to	take action (	on this probler	n				

PRE	1	1 3 5 5 0							
POST	2	5	8	2	0				
Relative % change	100%	67%	60%	-150%	0%				
		Relationsh	ip with nature						
	A Nature	) Me	Nature	C Me Natur	re				
PRE	6	11		1					
POST	3	12		3					
% change	-50%	9%		200%					
Q: When testin	Q: When testing for the presence of dissolved oxygen, doing the test more than once will give the most accurate result								
		TRUE (CORRECT)		FALS	E				
PRE		18		0					
POST		16		2					
% change		-11%		200%	6				
	Q: All macroinvertebrates are equally tolerant of pollution								
	TRUE FALSE (CORRECT)								
PRE	3 15								
POST		2		16					
% change		-33%		7%					
Number of stu	Number of students correctly identifying ALL macroinvertebrates from list (i.e., insects, mammals, crustaceans, molluscs (snails, clams, etc.), birds, fish)  PRE  9								
POST			4						
% change			-56%						
	Number of st	udents correctly list	ing a source of nitra	ites to the Rouge					
PRE			0						
POST			5						
% change			500%						
	Number of stude	ents correctly listing	an action to limit n	itrates in the Rouge					
PRE			0						
POST			7						
% change			700%						
	Students listing	way in which partici	pating in the REP he	elps the Rouge River					
	Number of parti	cipants		Percentage of to	tal				
	18			100%					
	Follow	-up Question: Exter	nt of Experience wi	th the REP					
	116	earned something n	ew about the Rouge	River					
	Strongly Agree	Agree	Neither Agree nor Disagree	Disagree	Strongly Disagree				
Number	12	3	3	0	0				
% of total	67%	17%	17%	17% 0% 0%					
	I plan to talk	to friends and/or fa	mily about what I le	arned in the REP					
	Strongly Agree	Agree	Neither Agree nor Disagree	Disagree	Strongly Disagree				

Number	5	2	8	1	2					
% of total	28%	11%	44%	6%	11%					
			nectedness with the							
		<u> </u>	Neither Agree		Strongly					
	Strongly Agree	Agree	nor Disagree	Disagree	Disagree					
Number	1	3	10	3	1					
% of total	6%	17%	56%	17%	6%					
75 01 0000			t how my actions af							
	Strongly Agree	Agree	Neither Agree nor Disagree	Disagree	Strongly Disagree					
Number	4	4	6	4	0					
% of total	22%	22%	33%	22%	0%					
70 01 10141			ke to make the Rou		070					
		a what actions to ta	Neither Agree	je neariner	Strongly					
	Strongly Agree	Agree	nor Disagree	Disagree	Disagree					
Number	11	5	2	0	0					
% of total	61%	28%	11%	0%	0%					
	I would choose to participate in more projects to help the Rouge									
	Strongly Agree	Agree	Neither Agree nor Disagree	Disagree	Strongly Disagree					
Number	4	5	5	4	0					
% of total	22%	28%	28%	22%	0%					
	REP monitoring made a difference in the health of the Rouge									
	Strongly Agree	Agree	Neither Agree nor Disagree	Disagree	Strongly Disagree					
Number	6	4	7	1	0					
% of total	33%	22%	39%	6%	0%					
	REP monitor	ing involved people,	organizations from	the community						
	Strongly Agree	Agree	Neither Agree nor Disagree	Disagree	Strongly Disagree					
Number	4	6	5	2	1					
% of total	22%	33%	28%	11%	6%					
	The REP he		could make a differe	nce in society						
	Strongly Agree	Agree	Neither Agree nor Disagree	Disagree	Strongly Disagree					
Number	4	4	8	2	0					
% of total	22%	22%	44%	11%	0%					
	In the REP, I n	net people/encount	ered things I normal	ly wouldn't have	•					
	Strongly Agree	Agree	Neither Agree nor Disagree	Disagree	Strongly Disagree					
Number	1	4	7	4	5					
% of total	6%	22%	39%	22%	28%					
			ne to think like a scie							
	Strongly Agree	Agree	Neither Agree nor Disagree	Disagree	Strongly Disagree					
Number	6	4	7	1	0					
% of total	33%	22%	39%	6%	0%					
			related to classroom							
	Strongly Agree	Agree	Neither Agree nor Disagree	Disagree	Strongly Disagree					

Number	5	6	6	1	0				
% of total	28%	33%	33%	6%	0%				
	The REA	helped me underst	and classroom mate	erial better					
	Strongly Agree	Agree	Neither Agree	Disagree	Strongly				
	Strollgly Agree	Agree	nor Disagree	Disagree	Disagree				
Number	4	6	7	1	0				
% of total	% of total 22% 33% 39% 6% 0%								
I had the opportunity to participate in river-related discussions/activities BEFORE our field trip									
	Strongly Agree	Agree	Neither Agree	Disagrae	Strongly				
	Strongly Agree	Agree	nor Disagree	Disagree	Disagree				
Number	7	4	1	4	2				
% of total	39%	22%	6%	22%	11%				
I had	d the opportunity to	participate in river-r	elated discussions/a	ctivities AFTER our field	d trip				
	Strongly Agree	A = = = =	Neither Agree	Diagrag	Strongly				
	Strongly Agree	Agree	nor Disagree	Disagree	Disagree				
Number	8	4	1	4	1				
% of total	44%	22%	6%	22%	6%				

	Grade:	Total number of students:							
	10				34				
	Participati	ng schools: C	handler Park Academy I	High School; G	arden City Hi	gh School			
		Nur	nber of times to Rouge	River (field tri	p)				
	0	1	2	3	4	5	N/A		
PRE	33	1	0	0	0	0	0		
POST	25	9	0	0	0	0	0		
Interest in science									
Very			Moderately	Somewhat	Not	No P	osnonso		
	interested	interested	interested	interested	interested	No Response			
PRE	9	11	9	3	2		0		
POST	14	7	10	1	2	0			
% change	56%	-36%	11%	-67% 0% 0%					
Interest in nature									
	Very	Interested	Moderately	Somewhat	Not	No P			
						No Response			
	interested	interested	interested	interested	interested	NON	esponse		
PRE	interested 8	9	interested 10	interested 6	interested 1	NO K	0		
PRE POST						NO N	•		
	8	9	10	6	1		0		
POST	8 8	9	10 9	6 4 -33%	1 2		0		
POST	8 8	9 11 22%	10 9 -10% Interest in sch Moderately	6 4 -33%	1 2		0 0 0%		
POST	8 8 0%	9	10 9 -10% Interest in sch	6 4 -33%	1 2 100%		0		
POST	8 8 0% Very interested 7	9 11 22% Interested 9	10 9 -10% Interest in sch Moderately	6 4 -33% ool Somewhat	1 2 100% Not		0 0 0%		
POST % change	8 8 0% Very interested	9 11 22%	10 9 -10% Interest in sch Moderately interested	6 4 -33% ool Somewhat interested	1 2 100% Not interested		0 0 0% esponse		
POST % change PRE	8 8 0% Very interested 7 6 -14%	9 11 22% Interested 9 9	10 9 -10% Interest in sch Moderately interested 10 12 20%	6 4 -33% ool Somewhat interested 7 4 -43%	1 2 100% Not interested 1 3 200%	No R	0 0 0% esponse		
POST % change PRE POST	8 8 0% Very interested 7 6 -14%	9 11 22% Interested 9 9	10 9 -10% Interest in sch Moderately interested 10 12	6 4 -33% ool Somewhat interested 7 4 -43%	1 2 100% Not interested 1 3 200%	No R	0 0 0% 0% esponse 0		
POST % change PRE POST	8 8 0% Very interested 7 6 -14%	9 11 22% Interested 9 9	10 9 -10% Interest in sch Moderately interested 10 12 20%	6 4 -33% ool Somewhat interested 7 4 -43%	1 2 100% Not interested 1 3 200%	No R	0 0 0% 0% esponse 0		
POST % change  PRE POST % change	8 8 0% Very interested 7 6 -14%	9 11 22% Interested 9 9	10 9 -10% Interest in sch Moderately interested 10 12 20%	6 4 -33% ool Somewhat interested 7 4 -43% e of pollution	1 2 100% Not interested 1 3 200%	No R	0 0 0% 0% esponse 0		

F	Percentage of stude	ents corr	ectly list	ing a corrective	action fo	or pollution so	urce	listed abov	re e	
PRE					96%					
POST				1	.00%					
% change					4%					
Of	those listing proble	em above	e, numb			AGREE with fol			1	
	Strongly Agree	Agr	ree	Neither Agro Disagre		Disagree		itrongly Disagree	No Response	
		I am c	onfident	t in my ability to		nrohlem		risagi ee	Кезропзе	
PRE	7	7 4777 6		7	researer	0		2	0	
POST	12	10		6		2		2	0	
Relative %										
change	71%	42	.%	-14%		200% 0% 0%				
	I am sur	e that I c	ould exp	plain to others v	vhy this p	roblem is imp	ortai		,	
PRE	4	8		7		3		1	0	
POST	14	8	3	6		3		1	0	
Relative % change	250%	0% -14%			0%		0%	0%		
change	I know where I could find help and resources to take action on this problem									
PRE	6	5	-	9		2	-	1	0	
POST	9		8 10			4		1	0	
Relative %	50%	60	10/	11%		100%		0%	0%	
change	30%					100%		0%	0%	
			Re	lationship with	nature					
	Me Natur	re	Me	B	Me Nature					
PRE	7			26		1				
POST	10			23			1			
% change	43%			-12%		0%				
Q: When te	sting for the prese	nce of di	ssolved	oxygen, doing t result	he test m	nore than once	e will	give the m	ost accurate	
		TRUE	(CORRE	CT <b>)</b>				FALSE		
PRE			33					1		
POST			30					4		
% change			-9%					300%		
	Q: .			brates are equa		•	1			
225		TRU	E		FAL	SE (CORRECT)		No R	Response	
PRE		13				21			0	
POST 0/ change		8	/			26			0	
% change	studonts sameth	-38%		macroinugatel	atoc franc	24%	oto c	nammala	0%	
Number of	students correctly		_	nacroinvertebri snails, clams, et		•	uis, r	nammais, <b>c</b>	rustaceans,	
PRE					5					
POST					5					
% change					0%					
	Number	of stude	nts corr	ectly listing a so		itrates to the	Roug	ge		
PRE					0					

POST			9			
% change			900%			
	Number of	students correct	ly listing an action to lim	nit nitrates in t	he Rouge	
PRE			0			
POST			3			
% change			300%			
	Students lis	ting way in whic	h participating in the RE	P helps the Ro	uge River	
	Number of pa		Ī		ntage of total	
	28	•			82%	
	Fo	ollow-up Questic	on: Extent of Experience	with the REP		
			ething new about the Ro			
		_	Neither Agree nor	Ι	Strongly	No
	Strongly Agree	Agree	Disagree	Disagree	Disagree	Response
Number	23	5	3 0		3	0
% of total	68%	15%	9%	0%	9%	0%
	I plan to	talk to friends a	nd/or family about wha	t I learned in ti	he REP	
	Church Acus		Neither Agree nor	D:	Strongly	No
	Strongly Agree	Agree	Disagree	Disagree	Disagree	Response
Number	9	8	14	1	2	0
% of total	26%	24%	41%	3%	6%	0%
	І ехр	erienced a feelin	g of connectedness with	the Rouge Riv	ver	
	Chuanalii Aanaa	A ====	Neither Agree nor	Diagram	Strongly	No
	Strongly Agree	Agree	Disagree	Disagree	Disagree	Response
Number	8	8	13	3	2	0
% of total	24%	24%	38%	9%	6%	0%
	I refl	ected on new ide	eas about how my action	is affect the ri	ver	
	Strongly Agree	Agroo	Neither Agree nor	Disagree	Strongly	No
	Strongly Agree	Agree	Disagree	Disagree	Disagree	Response
Number	13	8	11	0	2	0
% of total	38%	24%	32%	0%	6%	0%
	I le	arned what action	ons to take to make the	Rouge healthi	er	
	Strongly Agree	Agree	Neither Agree nor	Disagree	Strongly	No
	Strongly Agree	Agree	Disagree	Disagree	Disagree	Response
Number	14	9	9	0	2	0
% of total	41%	26%	26%	0%	6%	0%
	I wou	ld choose to part	ticipate in more projects	to help the Ro		
	Strongly Agree	Agree	Neither Agree nor	Disagree	Strongly	No
			Disagree		Disagree	Response
Number	16	5	7	4	2	0
% of total	47%	15%	21%	12%	6%	0%
	REP	monitoring mad	le a difference in the hea	ilth of the Rou	Ī	
	Strongly Agree	Agree	Neither Agree nor	Disagree	Strongly	No
			Disagree		Disagree	Response
Number	15	8	7	2	2	0
% of total	44%	24%	21%	6%	6%	0%
	REP mo	nitoring involved	d people/organizations f	rom the comm		
	Strongly Agree	gree Agree	Neither Agree nor	Disagree	Strongly	No
N			Disagree		Disagree	Response
Number	9	3	11	4	7	0
% of total	26%	9%	32%	12%	21%	0%

	The REP helped me feel that I could make a difference in society									
	Strongly Agree	Agree	Neither Agree nor Disagree	Disagree	Strongly Disagree	No Response				
Number	15	5	10	1	3	0				
% of total	44%	15%	29%	3%	9%	0%				
	In the REP, I met people/encountered things I normally wouldn't have									
	Strongly Agree	Agree	Neither Agree nor Disagree	Disagree	Strongly Disagree	No Response				
Number	9	8	8	4	5	0				
% of total	26%	24%	24%	12%	15%	0%				
		The REP chall	lenged me to think like a	scientist						
	Strongly Agree	Agree	Neither Agree nor Disagree	Disagree	Strongly Disagree	No Response				
Number	10	8	11	2	3	0				
% of total	29%	24%	32%	6%	9%	0%				
		The REP was o	directly related to classro	om work						
	Strongly Agree	Agree	Neither Agree nor Disagree	Disagree	Strongly Disagree	No Response				
Number	9	10	10	3	2	0				
% of total	26%	29%	29%	9%	6%	0%				
	Th	e REP helped me	understand classroom r	naterial bette	r					
	Strongly Agree	Agree	Neither Agree nor Disagree	Disagree	Strongly Disagree	No Response				
Number	9	7	15	1	2	0				
% of total	26%	21%	44%	3%	6%	0%				
11	nad the opportunity	to participate ii	n river-related discussion	s/activities BE	FORE our field t	rip				
	Strongly Agree	Agree	Neither Agree nor Disagree	Disagree	Strongly Disagree	No Response				
Number	13	6	7	3	5	0				
% of total	38%	18%	21%	9%	15%	0%				
1	had the opportunit	y to participate	in river-related discussion	ns/activities A	FTER our field tr	rip				
	Strongly Agree	Agree	Neither Agree nor Disagree	Disagree	Strongly Disagree	No Response				
Number	13	5	7	4	5	0				
% of total	38%	15%	21%	12%	15%	0%				

	Gr	ade:		Total number of students:					
	-	11		23					
Participating schools: Garden City High School; Lincoln Street Alternative High School; Niles Community High Sch							High School;		
	Oakland Schools Technical Campus SE; Plymouth High School								
			١	Number of times to Rouge	e River (field t	rip)			
	0	1	2	2	4		No		
	U	1	2	3	4		5+	Response	
PRE	14	7	2	0	0		0	0	
POST	10	8	5	0	0	0		0	
	Interest in science								
	V	ery	Interested	Moderately	Somewhat	Not	Not No Respons		

	interested		interested	interested	interested						
PRE	10	3	8	1	1	0	)				
POST	8	6	4	3	2	0	)				
% change	-20%	100%	-50%	200%	100%	09	%				
			Interest in na								
	Very interested	Interested	Moderately interested	Somewhat interested	Not interested	No Res	ponse				
PRE	11	5	3	3	1	0	)				
POST	11	2	5	3	2	0	)				
% change	0%	-60%	67%	0%	100%	09	%				
	Interest in school										
	Very	Interested	Moderately	Somewhat	Not	No Res	nonco				
	interested	interesteu	interested	interested	interested	NO Res	polise				
PRE	5	5	6	4	3	0					
POST	4	5	4	3	7	0	)				
% change	-20%	0%	-33%	-25%	133%	09	%				
	Num	ber of stude	nts correctly listing a sour	ce of pollution	n to the Roug	e River					
PRE				17							
POST				21							
% change				24%							
	Percentage of students correctly listing a corrective action for pollution source listed above										
PRE				94%							
POST				95%							
% change				1%							
C		g problem ab	ove, number of students	who can AGR	EE with follow	_					
	Strongly	Agree	Neither Agree	Disa	gree	Strongly No					
	Agree		nor Disagree			Disagree	Response				
			m confident in my ability t								
PRE	2	10	5	C		0	0				
DOCT			6	1		2	$\wedge$				
POST	5	7	6		100%		0				
Relative % change	150%	-30%	20%	100		200%	0%				
Relative % change	150% /	-30%	20% t I could explain to others	100		200% ant	0%				
Relative % change	150% /	-30% am sure that	20% t I could explain to others 5	100 why this prob	lem is import	200% ant 0	0%				
Relative % change  PRE POST	150% /	-30%	20% t I could explain to others	100 why this prob	lem is import	200% ant	0%				
Relative % change  PRE POST Relative %	150% /	-30% am sure that	20% t I could explain to others 5	100 why this prob	lem is import	200% ant 0	0%				
Relative % change  PRE POST	150%  7 7 0%	-30% am sure that 4 6 50%	20% t I could explain to others 5 5 0%	why this prob	lem is import	200% ant 0 2 200%	0%				
Relative % change  PRE POST  Relative % change	150%  7 7 0%  I kn	-30% am sure that 4 6 50% ow where I co	20%  t I could explain to others  5  5  0%  ould find help and resource	why this prob  1  1  09  ees to take act	lem is import ion on this pr	200% ant 0 2 200%	0% 0 0 0				
Relative % change  PRE POST Relative % change  PRE	150%  7 7 0%  I kn	-30% am sure that 4 6 50% ow where I co	20%  It I could explain to others  5  5  0%  ould find help and resource 11	why this prob  1  1  09  res to take act	lem is import  % ion on this pr	200%  ant  0 2 200%  oblem 0	0% 0 0 0%				
PRE POST Relative % change  PRE POST Repost	150%  7 7 0%  I kn	-30% am sure that 4 6 50% ow where I co	20%  It I could explain to others 5 5 0%  ould find help and resource 11 6	why this prob  1  1  0  res to take act	lem is import  ion on this pr	200%  ant  0 2 200%  oblem  0 2	0% 0 0 0%				
Relative % change  PRE POST Relative % change  PRE	150%  7 7 0%  I kn	-30% am sure that 4 6 50% ow where I co	20%  t I could explain to others  5  0%  ould find help and resource  11  6  -45%	why this prob  1  1  09  res to take act  3  300	lem is import  ion on this pr	200%  ant  0 2 200%  oblem 0	0% 0 0 0%				
Relative % change  PRE POST Relative % change  PRE POST Relative %	150%  7 7 0%  I kn	-30% am sure that 4 6 50% ow where I co	20%  It I could explain to others 5 5 0%  ould find help and resource 11 6	why this prob  1  1  09  res to take act  3  300	lem is import  ion on this pr	200%  ant  0 2 200%  oblem  0 2	0% 0 0 0%				
PRE POST Relative % change  PRE POST Relative % Change  PRE POST Relative %	150%  7 7 0%  I kn	-30%  am sure that 4 6 50%  ow where I co 4 6 50%	20%  t I could explain to others  5  0%  ould find help and resource  11  6  -45%	why this prob  1  1  09  res to take act  3  300	lem is import  ion on this pr	200%  ant  0 2 200%  oblem 0 2 200%	0% 0 0 0%				

POST	4		11	3	3				
% change	-33%	6	10%	14	1%				
Q: When	testing for the	presence of diss	solved oxygen, doin	g the test more than once w	vill give the mo	st accurate			
			result						
		TRUE (CORRE	ECT <b>)</b>	FALSE	N	o Response			
PRE		22		1		0			
POST		21		2		0			
% change		-5%		100%		0%			
		Q: All macroi	nvertebrates are e	qually tolerant of pollution					
		TRUE		FALSE (CORRECT	r) N	lo Response			
PRE		4		19		0			
POST		2		21		0			
% change		-50%		11%		0%			
Number	of students co		~	brates from list (i.e., insects	s, mammals, <b>cr</b>	ustaceans,			
25.7		mo	lluscs (snails, clams	, , ,					
PRE				5					
POST				6					
% change			to compate the	20%					
DDE	NU	imber of studen	ts correctly listing a	source of nitrates to the Ro	ouge				
PRE	3 6								
POST % shange				100%					
% change	Numl	per of students (	correctly listing an a		Pougo				
PRE	Number of students correctly listing an action to limit nitrates in the Rouge  PRE 6								
POST				3					
% change				-50%					
70 change	Stude	ents listing way i	n which participatir	ng in the REP helps the Roug	e River				
		of participants	www.pare.e.e.pare	Percentag					
		15		65					
		Follow-up (	Question: Extent of	Experience with the REP					
		•		bout the Rouge River					
	Strongly		Neither Agree	Diagram a	Strongly	No			
	Agree	Agree	nor Disagree	Disagree	Disagree	Response			
Number	8	4	5	5	1	0			
% of total	35%	17%	22%	22%	4%	0%			
		lan to talk to fri	. ,	about what I learned in the					
	Strongly	Agree	Neither Agree	Disagree	Strongly	No			
	Agree		nor Disagree	_	Disagree	Response			
Number	6	5	8	2	2	0			
% of total	26%	22%	35%	9%	9%	0%			
	- I	i experienced (		edness with the Rouge River					
	Strongly	Agree	Neither Agree	Disagree	Strongly	No			
Number	Agree	Δ.	nor Disagree	2	Disagree	Response			
Number % of total	6 <b>26%</b>	4 1 <b>7</b> %	30%	3 13%	3 <b>13%</b>	0 <b>0</b> %			
% 01 total	40%			w my actions affect the river	1	U%			
	Strongly	Trejlected on r	Neither Agree	withy actions affect the river		No			
	Strongly Agree	Agree	nor Disagree	Disagree	Strongly Disagree	Response			
Number	Agree 2	10	7	3	1	0			
Number	۷	10	/	) 3	<u> </u>	U			

% of total	9%	43%	30%	13%	4%	0%			
		I learned who	at actions to take to r	nake the Rouge healthier					
	Strongly	Agree	Neither Agree	Disagree	Strongly	No			
	Agree	Agree	nor Disagree	Disagree	Disagree	Response			
Number	5	6	8	3	1	0			
% of total	22%	26%	35%	13%	4%	0%			
I would choose to participate in more projects to help the Rouge									
	Strongly	Agree	Neither Agree	Disagree	Strongly	No			
	Agree	_	nor Disagree		Disagree	Response			
Number	7	8	5	2	1	0			
% of total	30%	35%	22%	9%	4%	0%			
		REP monitorin	g made a difference l	in the health of the Rouge					
	Strongly	Agree	Neither Agree	Disagree	Strongly	No			
	Agree	Agree	nor Disagree	Disagree	Disagree	Response			
Number	6	6	8	2	1	0			
% of total	26%	26%	35%	9%	4%	0%			
		EP monitoring ir		izations from the commun					
	Strongly	Agree	Neither Agree	Disagree	Strongly	No			
	Agree	_	nor Disagree	2.548.55	Disagree	Response			
Number	2	5	10	2	4	0			
% of total	9%	22%	43%	9%	17%	0%			
		The REP helped		nake a difference in society					
	Strongly	Agree	Neither Agree	Disagree	Strongly	No			
	Agree		nor Disagree	_	Disagree	Response			
Number	1	8	10	3	1	0			
% of total	4%	35%	43%	13%	4%	0%			
		the REP, I met p	•	nings I normally wouldn't h					
	Strongly	Agree	Neither Agree	Disagree	Strongly	No			
	Agree		nor Disagree	2.008.00	Disagree	Response			
Number	4	8	6	4	1	0			
% of total	17%	35%	26%	17%	4%	0%			
	-	The RE	P challenged me to th	nink like a scientist	-	ı			
	Strongly	Agree	Neither Agree	Disagree	Strongly	No			
	Agree		nor Disagree	_	Disagree	Response			
Number	3	8	8	3	1	0			
% of total	13%	35%	35%	13%	4%	0%			
		The REI	was directly related	to classroom work					
	Strongly	Agree	Neither Agree	Disagree	Strongly	No			
	Agree		nor Disagree		Disagree	Response			
Number	7	5	9	1	1	0			
% of total	30%	22%	39%	4%	4%	0%			
		The REP help		assroom material better					
	Strongly	Agree	Neither Agree	Disagree	Strongly	No			
NI I	Agree	_	nor Disagree	_	Disagree	Response			
Number	6	7	7	1	2	0			
% of total	26%	30%	30%	4%	9%	0%			
		rtunity to partici		discussions/activities BEFC					
	Strongly	Agree	Neither Agree	Disagree	Strongly	No			
	Agree	_	nor Disagree	_	Disagree	Response			
Number	5	6	9	1	2	0			

% of total	22%	26%	39%	4%	9%	0%				
	I had the opportunity to participate in river-related discussions/activities AFTER our field trip									
9	Strongly	Agroo	Neither Agree	Disagras	Strongly	No				
	Agree	Agree	nor Disagree	Disagree	Disagree	Response				
Number	7	6	7	1	2	0				
% of total	30%	26%	30%	4%	9%	0%				

	Grade: Total number of students:										
	12							76			
Participatin	ig schoo	o <b>ls:</b> Gai			ol; Lincoln Street A		_		es Comi	munity	High School;
					Technical Campus						
			Nu	ımber	of times to Rouge	e River (fie	eld t	rip)			
	0	1	2		3	4		5+		No Response	
PRE	56	12	4		2	1		0			1
POST	29	34	9		3	1		0			0
	Ī				Interest in sci	ence					
	Vei	-	Interested		Moderately	Somewh	nat	Not		No Res	snonse
	intere		merestea		interested	interest	ed	interested			, ponse
PRE	18	3	16		26	11		5		(	)
POST	17	7	20		24	13		2		(	)
% change	-69	%	25%		-8%	18%		-60%		0'	%
					Interest in na	ture					
	Vei	ry	Interested		Moderately	Somewh	nat	Not		No Boo	nonco
	intere	ested	mterestea		interested	interest	ed	interested	No Response		sponse
PRE	20	)	15		24	13		4		(	)
POST	18		17		22	13		6	0		)
% change	-10	)%	13%		-8%	0%		50%		0'	%
					Interest in sc						
	Vei	-	Interested		Moderately	Somewh		Not		No Res	sponse
	intere				interested	interest	ed	interested			
PRE	10	)	30		23	7		6		(	)
POST	5		21		29	15		6			)
% change	-50		-30%		26%	114%		0%		0'	%
		Numb	per of student	s corr	ectly listing a sour	•	utio	n to the Roug	e River		
PRE						64					
POST						74					
% change						16%					
	Percen	itage o	t students coi	rectly	listing a corrective		or p	ollution sour	ce listed	above	
PRE						94%					
POST						95%					
% change	5 . 1					1%		== ''.' 6 ''			
C			problem abo	ve, nu	mber of students		AGR	EE with follow			
	Strong Agre	<b>.</b>	Agree		Neither Agree Disagree			Disagree	Stro Disa	• .	No Response
	Agre				Disagree				DISA	BIEE	response

		I am	confident in my abilit	y to resear	ch problem			
PRE	13	24	15	<u>,                                      </u>	7	5	0	
POST	21	23	17		12	1	0	
Relative %	62%	-4%	13%		71%	-80%	0%	
change							076	
			could explain to othe	rs why this	problem is importo			
PRE	12	29	16		1	6	0	
POST	26	24	12		11	1	0	
Relative %	116%	-17%	-25%		1000%	-83%	0%	
change	l kr	ow where I cou	ıld find help and resou	irces to tak	l re action on this pro	oblem		
PRE	10	18	18	Trees to tan	9	9	0	
POST	20	17	26		10	1	0	
Relative %	1000/	69/	4.40/		110/	0.00/	00/	
change	100%	-6%	44%		11%	-88%	0%	
			Relationship w	ith nature				
			В		(			
	A B B							
	( )	$\bigvee_{i}$			Me	Nature		
	Me	Nature	Me Nature		IVIE	Nature		
PRE		9	53		14	4		
POST		8	52		10	6		
% change	-1	11%	-2%		14			
	testing for th	e presence of o	dissolved oxygen, doir	ng the test	more than once wi	II give the mo	st accurate	
			resul	t				
		TRUE	(CORRECT)			FALSE		
PRE			74			2		
POST			69			8		
% change			-7%			300%		
			croinvertebrates are e	qually tole				
225		TRU	<u>E</u>		FALSE (CORRECT)			
PRE		21				55		
POST % shange		14	/			52		
% change	of students o	-33%	ying ALL macroinvert	phrates fro		mammals eri	ustasoans	
Number (	or students c	•	nolluscs (snails, clams		• • •	mammais, <b>cr</b> t	ustateans,	
PRE			(**************************************	17				
POST				23				
% change				35%				
	1	Number of stud	lents correctly listing		nitrates to the Rou	ıge		
PRE				18				
POST				29				
% change				61%				
	Nur	nber of studen	ts correctly listing an	action to li	mit nitrates in the I	Rouge		
PRE				17				
POST 32								
F 0 3 1								
% change			ay in which participati	88%				

	Numb	Number of participants Percentage of total				
		70		92	%	
			stion: Extent of Experien			
		I learned s	omething new about the I	Rouge River		
	Strongly Agree	Agree	Neither Agree nor Disagree	Disagree	Strongly Disagree	No Response
Number	31	21	11	10	3	0
% of total	41%	28%	14%	13%	4%	0%
		I plan to talk to friend	ls and/or family about wh	at I learned in the R	REP	
	Strongly		Neither Agree nor		Strongly	No
	Agree	Agree	Disagree	Disagree	Disagree	Response
Number	11	18	25	10	12	0
% of total	14%	24%	33%	13%	16%	0%
		I experienced a fe	eling of connectedness wi	th the Rouge River		
	Strongly	A	Neither Agree nor	D:	Strongly	No
	Agree	Agree	Disagree	Disagree	Disagree	Response
Number	18	15	21	16	6	0
% of total	24%	20%	28%	21%	8%	0%
		I reflected on new	ideas about how my action	ons affect the river		
	Strongly	A =====	Neither Agree nor	Disagree	Strongly	No
	Agree	Agree	Disagree	Disagree	Disagree	Response
Number	15	19	26	12	4	0
% of total	20%	25%	34%	16%	5%	0%
		I learned what a	ictions to take to make the	e Rouge healthier		
	Strongly	A =====	Neither Agree nor	Disagree	Strongly	No
	Agree	Agree	Disagree	Disagree	Disagree	Response
Number	29	20	16	8	3	0
% of total	38%	26%	21%	11%	4%	0%
		I would choose to p	participate in more project	ts to help the Rouge	?	
	Strongly	Agroo	Neither Agree nor	Disagrae	Strongly	No
	Agree	Agree	Disagree	Disagree	Disagree	Response
Number	17	17	28	8	6	0
% of total	22%	22%	37%	11%	8%	0%
		REP monitoring n	nade a difference in the he	ealth of the Rouge		
	Strongly	Agree	Neither Agree nor	Disagree	Strongly	No
	Agree	Agree	Disagree	Disagree	Disagree	Response
Number	16	32	15	10	3	0
% of total	21%	42%	20%	13%	4%	0%
		REP monitoring invo	lved people/organizations	from the communi	1	
	Strongly	Agree	Neither Agree nor	Disagree	Strongly	No
	Agree	Agree	Disagree	Disagree	Disagree	Response
Number	20	20	18	11	7	0
% of total	26%	26%	24%	14%	9%	0%
		The REP helped me	e feel that I could make a c	difference in society		
	Strongly Agree Neither Agree nor Disag	Disagree	Strongly	No		
	Agree		Disagree	_	Disagree	Response
Number	14	26	21	10	5	0
% of total	18%	34%	28%	13%	7%	0%
	I	n the REP, I met peop	ple/encountered things I n	ormally wouldn't h	ave	
	Strongly	Agree	Neither Agree nor	Disagree	Strongly	No

	Agree		Disagree		Disagree	Response
Number	20	25	21	6	4	0
% of total	26%	33%	28%	8%	5%	0%
	Strongly	Agree	Neither Agree nor	Disagree	Strongly	No
	Agree	Agree	Disagree	Disagree	Disagree	Response
Number	13	27	20	15	1	0
% of total	17%	36%	26%	20%	1%	0%
		The REP w	as directly related to classi	room work		
	Strongly	Agree	Neither Agree nor	Disagroo	Strongly	No
	Agree	Agree	Disagree	Disagree	Disagree	Response
Number	26	24	16	7	3	0
% of total	34%	32%	21%	9%	4%	0%
		The REP helped	me understand classroom	material better		
	Strongly	Agree	Neither Agree nor	Disagree	Strongly	No
	Agree	Agree	Disagree	Disagree	Disagree	Response
Number	19	24	19	10	4	0
% of total	25%	32%	25%	13%	5%	0%
	I had the opp	portunity to participa	te in river-related discussio	ns/activities BEFO	RE our field tri	ip .
	Strongly	Agree	Neither Agree nor	Disagree	Strongly	No
	Agree	Agree	Disagree	Disagree	Disagree	Response
Number	22	14	24	8	8	0
% of total	29%	18%	32%	11%	11%	0%
	I had the op	portunity to participo	ate in river-related discussi	ons/activities AFTE	R our field trip	)
	Strongly	Agree	Neither Agree nor	Disagree	Strongly	No
	Agree	Agree	Disagree	Disagree	Disagree	Response
Number	20	16	20	8	12	0
% of total	26%	21%	26%	11%	16%	0%