		<u>B</u>	MP Site Info	ormation			
Site I.D.:	1-01					Date:	4/22/2014
Town:	Meredith				]	Watershed:	Waukewan
Location(ro	ad) Across	from 72 Water	St.				
GPS Coordii	nates Ea	sting: 2976	580	Ν	lorthing:	4836308	
Property O	wner Contacte	d: No		Relate	ed Waterboo	ly: Waukewa	in
Land Use:	Town R	bad	Direct	Flow to:	Lake		
Issues:	shoulder erosi soil drains to c	ace erosion, mo on, bare soil. Lo catch basin and e across the st.	ots of bare	Images			
Area Dime		)' x 60' Vegetate Shou shoulder		ted to site: ention basin,	stabilize clea	red lot and road	
Impact Rating:	Medium	Cost Mate	erials: Mediu	um	Labor Co	Mediun	n
Overall Co	s Medium	Co		Catch basin c hrough basir		sediment and lear	ves, lots of flow
Sediment	(t/yr)	0.9	TP (kg/yr):	C	0.363		
BMP Cost	Est: \$5	,000.00	BMP Annual C		\$250.00	10 yr cost:	\$7,500.00
10 yr Cost	for TP removed	(\$/kg):	\$20,668.35				
Cost Deter			road shoulder ( 500, Redirecting				Add Record

BMP Site Information		
Site I.D.: 1-02 A	Date:	4/22/2014
Town: Meredith	Watershee	d: Waukewan
Location(road) Next to 110 Water St- culvert/crossing upstream		
GPS Coordinates Easting: 297604	Northing: 4836	5794
Property Owner Contacted: No Relate	ed Waterbody: Wat	ukewan
Land Use: Town Road Direct Flow to:	Lake, Stream	
Issues: Moderate surface erosion, moderate road shoulder erosion, bare soil, streambank erosion, winter sand. Stormwater from Rd has created gullies toward crossing/stream, small stream flows to Waukewan- lots of inputs from winter sand and road shoulder Area Dimensions: Connected to site:		
Recommendations: Vegetate shoulder, armor ditch with stone from stream into woods, reseed bare soil &		rnouts away
Impact High Cost Materials: High Rating:	Labor Cost:	igh
Overall Cos High Comments: Culvert looks	new, black HDPE materi	al
Sediment (t/yr) 0.7 TP (kg/yr):	0.318	
BMP Cost Est: \$2,075.00 BMP Annual C	\$250.00 10 yr cost:	\$4,575.00
10 yr Cost for TP removed (\$/kg): \$14,408.80		
Cost Determination: Reshape and armor ditch with stone (~50') = \$1,200, Vegetating shoulder/re-seeding remai		Add Record

BMP Site Information		
Site I.D.: 1-02 B	Date:	4/22/2014
Town: Meredith	Watershed:	Waukewan
Location(road) Next to 110 Water St. (downstream side)		
GPS Coordinates Easting: 297604 Northing:	4836794	
Property Owner Contacted: No Related Waterboo	dy: Waukewa	n
Land Use: Town Road Direct Flow to: Lake, Street	eam	
Issues: Moderate surface erosion, moderate road shoulder erosion, lots of winter sand, streambank erosion		
Area Dimensions:		
Recommendations: Vegetate ditch, armor ditch with stone, reshape ditch, in from stream, reseed bare soil &thinning grass	nstall turnouts aw	ау
Impact   High   Cost Materials:   High   Labor C	ost: Medium	1
Overall Cos High Comments:		
Sediment (t/yr) 0.7 TP (kg/yr): 0.272		
BMP Cost Est:       \$1,475.00       BMP Annual C       \$250.00	10 yr cost:	\$3,975.00
10 yr Cost for TP removed (\$/kg): \$14,605.64		
Cost Determination: Reshape and armor ditch with stone (~50') = \$375, Turnou \$600, Vegetating shoulder/re-seeding remaining bare areas		Add Record

	BMP Site Info	<u>rmation</u>		
Site I.D.: 1-02 C			Date:	4/22/2014
Town: Meredith			Watershed:	Waukewan
Location(road) Next to	108 + 110 Water St.			
GPS Coordinates East	ing: 297659	Northing:	4836319	
Property Owner Contacted:	No	Related Waterbo	dy: Waukewa	าก
Land Use: Residentia	Direct F	low to:	eam	
	ine, lack of shoreline lequate shoreline reline erosion	Images		
Area Dimensions:	Connecte Aulch/erosion control mix, esta	ed to site:	ēr	
Impact Medium Rating:	Cost Materials: Mediu	m Labor C	Cost: Low	
Overall Cos	Comments:			
Sediment (t/yr)	0.5 TP (kg/yr):	0.181		
BMP Cost Est: \$2,3	BMP Annual C	\$50.00	10 yr cost:	\$2,890.00
10 yr Cost for TP removed (	\$/kg): \$15,928.41			
vege	to Buffer (~80') = \$1,920 (CC tative buffers), Mulch remainir nate for ECM for 30'x30'x4' are	ng bare areas = \$470 (C		Add Record

BMP Site Information		
Site I.D.: 1-03 A	Date:	4/22/2014
Town: Meredith	Watershed:	Waukewan
Location(road) Next to 87/88 Pike Island Rd (culvert)		
GPS CoordinatesEasting:297362Northing:	4837080	
Property Owner Contacted: No Related Waterb	waukewa	an
Land Use: Private Road Direct Flow to: Stream	, ditch	
Sever surface erosion, unstable inlet, crushed/broken inlet, severe ditch erosion, severe road shoulder erosion, winter sand, gravel Rd - poor surface material and no crown		
Area Dimensions:     Connected to site:     1-04       Recommendations:     Remove culvert clog, vegetate ditch, armor ditch with install turnouts, install check dams or sediment pools, material (gravel) to road or pave, reshape crown, gravely to road or pavely to road or pavely constrained to the constra	, Build up/add new	surface
Impact High Cost Materials: Medium/High Labor	Cost: Mediur	n/High
Overall Cos High Comments:		
Sediment (t/yr) 0.8 TP (kg/yr): 0.272		
BMP Cost Est: \$5,970.00 BMP Annual C \$250.00	10 yr cost:	\$8,470.00
10 yr Cost for TP removed (\$/kg): \$31,121.95		
Cost Determination: Replace culvert and armor inlet/outlet with stone = \$1,50 up/elevate roadway and resurface with new gravel resha crown=\$2,720, Install armored ditch with turnouts = \$1,	ped to a	Add Record

		BMP Site Info	rmation		
Site I.D.:	1-03 B			Date:	4/22/2014
Town: Meree	dith			Watershed:	Waukewan
Location(road)	88 Pike Island I	Rd			
GPS Coordinates	Easting:	297315	Northing:	4837047	
Property Owner (	Contacted: No		Related Waterbo	ody: Waukewa	n
Land Use:	Driveway	Direct F	low to: Stream,	Ditch, Lake	
Issues: Sligh	nt surface erosion,	bare soil	Images		
Area Dimensions Recommendation		nlet/outlet, install runof	ed to site:	f away from strean	n and
Impact Low Rating:	Cos	t Materials:	Labor	Cost: Low	
Overall Cos	Low	Comments: S	ee Site Sketch		
Sediment (t/yr)	0	2 TP (kg/yr):	0.091		
BMP Cost Est:	\$1,160.00	BMP Annual C	\$25.00	10 yr cost:	\$1,410.00
10 yr Cost for TF	P removed (\$/kg):	\$15,542.60	Ī		
Cost Determinati	and geotext diverters (ru	ile fabric - small drivew	00 (rough estimate for vay culvert)Install two v CCSWCD estimate of \$3	vater	Add Record

BMP Site Information		
Site I.D.: 1-03 C	Date:	4/22/2014
Town: Meredith	Watershed:	Waukewan
Location(road) 84 Pike Island Rd?		
GPS Coordinates Easting: 297313 Northing:	4837040	
Property Owner Contacted: NO Related Waterbo	dy: Waukewa	n
Land Use: Driveway Direct Flow to: Stream,	Ditch	
Issues: Slight surface erosion, bare soil Images		
Area Dimensions: Connected to site:		
Recommendations: Armor inlet/outlet, install runoff diverters		
Impact Low Cost Materials: Low Labor C	Cost: Low	
Overall Cos Low Comments: See Site Sketch		
Sediment (t/yr) 0.2 TP (kg/yr): 0.091		
BMP Cost Est: \$1,160.00 BMP Annual C \$25.00	10 yr cost:	\$1,410.00
10 yr Cost for TP removed (\$/kg): \$15,542.60		
Cost Determination: Armor culvert inlet and outlet = \$400 (rough estimate for and geotextile fabric)Install two water diverters (rubber razor)TOTAL (CCSWCD estimate of \$380 for a 16 ft rubber razor)TOTAL	zors) = \$760	Add Record

BMP Site Information		
Site I.D.: 1-04	Date:	4/22/2014
Town: Meredith	Watershed:	Waukewan
Location(road) 84 Pike Island Rd.		
GPS Coordinates Easting: 297364 Northing:	4837033	
Property Owner Contacted: No Related Waterboo	dy: Waukewa	n
Land Use: Private Road Direct Flow to: Lake		
Issues: Severe surface erosion, severe ditch erosion, severe road shoulder erosion, bare soil, lots of winter sand		1:014
Area Dimensions:     Connected to site:       Recommendations:     Armor inlet/outlet, vegetate ditch, armor ditch with stor turnouts, install check dams, vegetate shoulder, install water retention swales? Pave road?		
Impact   High   Cost Materials:   Medium/High   Labor C	Cost: Medium	n/High
Overall Cos High Comments:		
Sediment (t/yr) 1.6 TP (kg/yr): 0.726		
BMP Cost Est: \$3,150.00 BMP Annual C \$250.00	10 yr cost:	\$5,650.00
10 yr Cost for TP removed (\$/kg): \$7,785.08		
Cost Determination: Armor culvert inlet and outlet = \$600, Reshape and armor stone (~100') = \$750, Turnouts (2) = \$1,200, Vegetate rou near culvert = \$600		Add Record

BMP Site Information		
Site I.D.: 1-05	Date:	4/22/2014
Town: Meredith	Watershed:	Waukewan
Location(road) 74 Pike Island Rd		
GPS Coordinates Easting: 297429 Northing:	4836959	
Property Owner Contacted: No Related Waterboo	dy: Waukewar	١
Land Use: Private Road Direct Flow to: Lake		
Issues: Moderate surface erosion, unstable outlet, partially buried/clogged culvert, moderate ditch erosion, moderate road shoulder erosion, bare soil		
Area Dimensions:     Connected to site:       Recommendations:     Armor outlet, remove clog and clean out culvert, vegeta stone, reshape ditch, install check dams or sediment po shoulder, install runoff diverters, install plunge pool to stop	ols, vegetate road	
Impact Rating:   High   Cost Materials:   Medium   Labor C	ost: Medium	/High
Overall Cos High Comments:		
Sediment (t/yr) 0.3 TP (kg/yr): 0.136		
BMP Cost Est: \$5,470.00 BMP Annual C \$250.00	10 yr cost:	\$7,970.00
10 yr Cost for TP removed (\$/kg): \$58,569.52		
Cost Determination: Armor culvert inlet/outlet with stone = \$500, Build-up/eleva and resurface with new gravel reshaped to a crown = \$2,7 armored ditch with turnouts = \$1,750, Vegetate road shou culvert = \$500	720 , Install	Add Record

		BMP Site Infor	<u>mation</u>		
Site I.D.:	1-06			Date:	4/22/2014
Town:	eredith			Watershed:	Waukewan
Location(road)	) Waukewan St.				
GPS Coordinat	Easting:	297919	Northing:	4835863	
Property Own	er Contacted: No		Related Waterbo	ody: Waukewa	าก
Land Use:	Town Road	Direct Flo	bw to: Lake		
e ic a	light surface erosion, sli rosion, bare soil, shoreli e action, road sediment nd ditch along railroad t utfalls directly to the lak	ne erosion from into catch basin racks that	Images		
Area Dimensi	ons:	Connected	to site:		
Recommenda	tions: Vegetates	shoulder, install detent	ion basin		
Impact Rating:	w Cost I	Materials: Medium	/Low Labor	Cost: Mediur	n/Low
Overall Cos	Medium		e site Sketch. Catch ba ter goes directly to lal		
Sediment (t/y	rr) 6.3	TP (kg/yr):	2.5		
BMP Cost Est	: \$3,000.00	BMP Annual C	\$250.00	10 yr cost:	\$5,500.00
10 yr Cost for	TP removed (\$/kg):	\$2,245.45			
Cost Determin	outlet= \$500	ilize road shoulder = \$ , Redirecting CB outlet in adjacent wooded bu	away from lake (insta	alling new storm	Add Record

BMP Site Information		
Site I.D.: 1-07	Date:	4/22/2014
Town: Meredith	Watershed:	Waukewan
Location(road) Waukewan St. next to beach area (south end)		
GPS Coordinates Easting: 297766 Northing:	4835760	
Property Owner Contacted: Related Waterbod	ly: Waukewa	n
Land Use: Town Road Direct Flow to: Lake		
Issues: Moderate surface erosion, shoreline erosion Images		
Area Dimensions:     10' x 15'     Connected to site:       Recommendations:     Install runoff diverter (waterbar), establish buffer, add t soil and thinning grass	o buffer, reseed b	bare
Impact   Medium   Cost Materials:   Medium/Low   Labor Co	ost: Medium	I/Low
Overall Cos Medium Comments:		
Sediment (t/yr)       0.6       TP (kg/yr):       0.227		
BMP Cost Est:       \$1,100.00       BMP Annual C       \$100.00	10 yr cost:	\$2,100.00
10 yr Cost for TP removed (\$/kg): \$9,259.42		
Cost Determination: Riprap and geotextile for stone swale = \$500, Vegetate road and add to buffer = \$60, TOTAL = \$1,100"	d shoulder	Add Record

BMP Site Information		
Site I.D.: 1-08 A	Date:	4/22/2014
Town: Meredith	Watershed:	Waukewan
Location(road) Waukewan Swimming Bath House Parking Lot		
GPS Coordinates Easting: 297758	4835734	
Property Owner Contacted: No, Town owned Related Waterbo	ody: Waukewa	n
Land Use: Municipal/Public Direct Flow to: Lake		
Issues: Slight to moderate surface erosion, slight road shoulder erosion, bare soil in parking area, winter sand- snow dump area with lots of snow and winter sand adjacent to catchbasin	1-08	
Area Dimensions: Connected to site:		
Recommendations:     Add new surface material to parking area (crushed stomovement of sand, vegetate shoulder	one?) to prevent	
Impact   Medium   Cost Materials:   Medium   Labor	Cost: Medium	1
Overall Cos Medium Comments: See site Sketch		
Sediment (t/yr) 10.5 TP (kg/yr): 4.037		
BMP Cost Est:       \$1,260.00       BMP Annual C       \$300.00	10 yr cost:	\$4,260.00
10 yr Cost for TP removed (\$/kg): \$1,055.25		
Cost Determination: Cover parking area with crushed stone to prevent movem catchbasin and encourage infiltration (~50' x 20' area) = road shoulder and bare areas near catchbasin = \$500, An outlet and install plunge pool = \$500	\$260, Vegetate	Add Record

BMP Site Information		
Site I.D.: 1-08 B	Date:	4/22/2014
Town: Meredith	Watershed:	Waukewan
Catchbasin at corner of RR tracks and Waukewan St.		
GPS Coordinates Easting: 297732	4835710	
Property Owner Contacted: No Related Waterbo	dy: Waukewa	n
Land Use: Town Road Direct Flow to: Catchbas	in draining	
Issues: Slight surface erosion, slight to moderate ditch erosion, lots of winter sand, slight road shoulder erosion	108	
Area Dimensions:     Connected to site:     flows to       Recommendations:     Vegetate ditch, armor ditch with stone, vegetate should	o site 1-08 A der	
Impact Low Cost Materials: Low Labor C	Cost: Low	
Overall Cos		
Sediment (t/yr)       0.2       TP (kg/yr):       0.091		
BMP Cost Est: \$875.00 BMP Annual C \$125.00	10 yr cost:	\$2,125.00
10 yr Cost for TP removed (\$/kg): \$23,424.13		
Cost Determination: Armor ditch with stone (~50') = \$375 (CCSWCD estimate f ditches)Vegetate road shoulder = \$500TOTAL: \$875"	or rock-lined	Add Record

BMP Site Information
Site I.D.: Date: 4/22/2014
Town: Meredith Watershed: Waukewan
RR tracks behind beach bath house on Waukewan St.
GPS Coordinates Easting: 297750 Northing: 4835714
Property Owner Contacted: No Related Waterbody: Waukewan
Land Use: RR ROW Direct Flow to: Ditch
Issues: Slight to moderate ditch erosion, unknown pipes draining to ditch, lots of water in ditches
Area Dimensions:     Connected to site:       Recommendations:     Armor inlet/outlet, armor ditch with stone, investigate pipes from adjacent residence
Impact Rating:   Low   Cost Materials:   Low/Medium   Labor Cost:   Low/Medium     Overall Cos   Medium   Comments:   Ducks observed congregating in ditches
Sediment (t/yr)       0.4       TP (kg/yr):       0.181
BMP Cost Est:       \$850.00       BMP Annual C       \$100.00       10 yr cost:       \$1,850.00
10 yr Cost for TP removed (\$/kg): \$10,196.39
Cost Determination:     Armor ditch with stone (~100') = \$750 (CCSWCD estimate for rock-lined ditches)Armor pipe outlets to prevent erosion on slope above = \$300 (rough estimate)TOTAL: \$850"       Add Record

BMP Site Information	
Site I.D.: 1-09 A	Date: 4/22/2014
Town: Meredith	Watershed: Waukewan
Location(road) Stream Crossing West of Beach area, Waukewan St.	
GPS Coordinates Easting: 297676 Northi	ing: 4835645
Property Owner Contacted: No Related Wa	aterbody: Waukewan
	ream (near shore
Unstable inlet, severe ditch erosion, moderate to severe road shoulder erosion, bare soil, winter sand, severe undercut streambank with lack of vegetation and erosion	109
Area Dimensions:     Connected to site:       Recommendations:     Armor inlet, vegetate ditch, armor ditch with sto wooded adjacent areas, install check dams, vegetate ditch, armor ditch with sto wooded adjacent areas, install check dams, vegetate ditch, armor ditch with sto wooded adjacent areas, install check dams, vegetate ditch, armor ditch with sto wooded adjacent areas, install check dams, vegetate ditch, armor ditch with sto wooded adjacent areas, install check dams, vegetate ditch, armor ditch with sto wooded adjacent areas, install check dams, vegetate ditch, armor ditch with sto wooded adjacent areas, install check dams, vegetate ditch, armor ditch with sto wooded adjacent areas, install check dams, vegetate ditch, armor ditch with sto wooded adjacent areas, install check dams, vegetate ditch, armor ditch with sto wooded adjacent areas, install check dams, vegetate ditch, armor ditch with sto wooded adjacent areas, install check dams, vegetate ditch, armor ditch with sto wooded adjacent areas, install check dams, vegetate ditch, armor ditch with sto wooded adjacent areas, install check dams, vegetate ditch, armor ditch with sto wooded adjacent areas, install check dams, vegetate ditch, armor ditch with sto wooded adjacent areas, install check dams, vegetate ditch, armor ditch with sto wooded adjacent areas, install check dams, vegetate ditch, armor ditch with sto wooded adjacent areas, install check dams, vegetate ditch, armor ditch with sto wooded adjacent areas, install check dams, vegetate ditch, armor ditch with sto wooded adjacent areas, install check dams, vegetate ditch, armor ditch with sto wooded adjacent areas, install check dams, vegetate ditch, armor ditch with sto wooded adjacent areas, install check dams, vegetate ditch, armor ditch with sto wooded adjacent areas, install check dams, vegetate ditch, armor ditch with sto wooded adjacent areas, install check dams, vegetate ditch, armor ditch with sto wooded a	
Impact Medium Cost Materials: Medium L	Labor Cost: High
Overall Cos High Comments:	
Sediment (t/yr)       1.2       TP (kg/yr):       0.544	
BMP Cost Est: \$3,280.00 BMP Annual C \$200.	00 10 yr cost: \$5,280.00
10 yr Cost for TP removed (\$/kg): \$9,700.35	
Cost Determination: Armor large culvert inlet (extend headwalls to stabili shoulder around culvert inlet) = \$2,500 Vegetate road shoulder upstream = \$300 Add to buffer downstream = \$480	ize slumping road

		BMP Site	e Informatio	<u>n</u>		
Site I.D.:	1-09 B				Date:	4/22/2014
Town: Me	eredith				Watershed:	Waukewan
Location(road)	Culvert Wes	t of Site 1-09 A nea	ar driveway of #8	2 Waukewan S	it.	
GPS Coordinate	Easting	297614		Northing:	4835629	
Property Owne	r Contacted:	No	Rela	ated Waterboo	dy: Waukewa	าก
Land Use:	Town Road, E	)riv	Direct Flow to:	Ditch and	l Wetland	
sli		on, unstable inlet, ditch erosion, slight on, bare soil, winte				
Area Dimensio Recommendat	tions: Armo	or inlet, vegetate d blish buffer	Connected to site itch, armor ditch		jetate shoulder,	
Impact Rating: Overall Cos	Medium	Cost Materials: Comments:	Medium	Labor C	ost: Low/M	edium
Sediment (t/yr		0.1 TP (kg/y	r):	0.045		
BMP Cost Est:	\$1,680.	00 BMP Ann	ual C	\$250.00	10 yr cost:	\$4,180.00
10 yr Cost for	TP removed (\$/k	g): \$92, <sup>-</sup>	153.30			
Cost Determin		ulvert inlet (extend culvert inlet) = \$1,6		bilize slumping	road shoulder	Add Record

BMP Site Information	
Site I.D.: 1-09 C	Date: 4/22/2014
Town: Meredith	Watershed: Waukewan
Location(road) Waukewan St. (W of site 1-09 B)	
GPS Coordinates Easting: 297522 Northing:	4835598
Property Owner Contacted: No Related Water	waukewan
	nbasin to and/lake
Issues: Bare soil- adjacent parking lot, winter sand	
Area Dimensions:     Connected to site:       Recommendations:     Remove winter sand early spring, reseed bare soil a adjacent property	and thinning grass on
Impact Low Cost Materials: Low Labo	oor Cost:
Overall Cos Low Comments: Res.w/ dirt parking U0	04-1-B
Sediment (t/yr) 15.8 TP (kg/yr): 6.078	
BMP Cost Est: \$575.00 BMP Annual C \$75.00	10 yr cost: \$1,325.00
10 yr Cost for TP removed (\$/kg): \$217.99	
Cost Determination: Seeding ~100' x 30' area on property adjacent to catche labor TOTAL: \$575 (does not include labor)"	Add Record

BMP Site Information		
Site I.D.: 1-10 A	Date:	4/22/2014
Town: Meredith Wa	tershed:	Waukewan
Location(road)       Waukewan St. next to Carder Lane (see photo for utility pole)		
GPS Coordinates Easting: 297475 Northing:	4835592	
Property Owner Contacted: Related Waterbody:	Waukewa	n
Land Use: Town Road Direct Flow to: Wetland, Lak	9	
Issues: Unstable inlet/outlet, slight road shoulder erosion, bare soil, winter sand	110	
Area Dimensions:     Connected to site:       Recommendations:     Armor inlet/outlet, vegetate shoulder, reseed bare soil and	thinning grass	<u> </u>
Impact Low Cost Materials: Low Labor Cost:	Medium	1
Overall Cos Medium Comments:		
Sediment (t/yr) 0.1 TP (kg/yr):		
BMP Cost Est:       \$700.00       BMP Annual C       \$75.00       10	yr cost:	\$1,450.00
10 yr Cost for TP removed (\$/kg):		
Cost Determination: Armor culvert inlet = \$500, Vegetate road Shoulder = \$200		Add Record

BMP Site Information
Site I.D.:       1-10 B         Date:       4/22/2014
Town: Meredith Watershed: Waukewan
Location(road) House next to Carder Ln on Waukewan St.
GPS Coordinates Easting: 297473 Northing: 4835570
Property Owner Contacted: No Related Waterbody: Waukewan
Land Use: Residential Direct Flow to: Wetland, Lake
Issues: Lack of streambank vegetation, inadequate vegetation, mowed close to streambanks
Area Dimensions:     Connected to site:       Recommendations:     Establish buffer, add to buffer
Impact   Low   Labor Cost:   Low
Overall Cos
Sediment (t/yr) 0 TP (kg/yr):
BMP Cost Est:       \$960.00       BMP Annual C       \$25.00       10 yr cost:       \$1,210.00
10 yr Cost for TP removed (\$/kg):
Cost Determination:     Add to Buffer (~40') = \$960 (CCSWCD estimate of \$480/20' length for vegetative buffers), TOTAL: \$960       Add Record

BMP Site Information
Site I.D.: Date: 4/22/1014
Town: Meredith Watershed: Waukewan
At bend of Waukewan St. near Wall St. (un-named stream crossing)
GPS Coordinates Easting: 296742 Northing: 4835665
Property Owner Contacted: No, town owned Related Waterbody: Waukewan
Land Use: Town Road Direct Flow to: Stream
Issues: Moderate surface erosion, slight road shoulder erosion, undercut streambank (upstream), lots of road sediment from sanding, pipe (green pvc) outlet in down- stream side from yard across st.
Area Dimensions:     Connected to site:       Recommendations:     Vegetate ditch, install turnouts, install sediment pools, vegetate/stabilize shoulder
Impact Rating:       Medium       Labor Cost:       Medium
Overall Cos Medium Comments:
Sediment (t/yr)       0.2       TP (kg/yr):       0.091
BMP Cost Est:       \$1,675.00       BMP Annual C       \$250.00       10 yr cost:       \$4,175.00
10 yr Cost for TP removed (\$/kg): \$46,021.53
Cost Determination:     Install ditch and armor with stone (~50') = \$375, Turnouts (2) = \$1,000, Vegetating shoulder/re-seeding remaining bare areas = \$300       Image: Market of the state of the

BMP Site Information	
Site I.D.: Date:	4/22/2014
Town: Meredith Watershed	: Waukewan
Catch basin outlet to Waukewan at bend in waukewan St.(at Wall St corner	)
GPS Coordinates Easting: 296714 Northing: 4835	654
Property Owner Contacted: No Related Waterbody: Wau	kewan
Land Use: Town Road Direct Flow to: Ditch, Lake	
Issues: Slight surface erosion, slight road shoulder erosion, lots of sediment into drainage ditch	HI2
Area Dimensions: Connected to site:	
Recommendations: Vegetate ditch, vegetate shoulder	
Impact Rating:   Low   Labor Cost:   Low	W
Overall Cos Medium Comments:	
Sediment (t/yr)       0.1       TP (kg/yr):       0.045	
BMP Cost Est:\$675.00BMP Annual C\$50.0010 yr cost:	\$1,175.00
10 yr Cost for TP removed (\$/kg): \$25,904.34	
Cost Determination: Install ditch and armor with stone (~50') = \$375 (CCSWCD estimate for rock-lined ditches), Vegetating shoulder/re-seeding remaining bare area = \$300	

			BMP Site	e Informatio	<u>n</u>		
Site I.D.:	1-13					Date:	4/22/2014
Town:	Meredith					Watershed:	Waukewan
Location(roa	id) Wa	all Street culve	ert				
GPS Coordina	ates	Easting:	296334		Northing:	4835914	
Property Ow	ner Conta	cted: No,	Town owned	Rela	ated Waterboo	dy: Waukew	an
Land Use:	Tow	n Road		Direct Flow to:	Stream		
Issues:	shoulder e of sedimer stormwate	rosion, grave nt into stream	ewan Street flo	lots			
Area Dimen			e shoulder, wat	Connected to site er retention swale ulder and ditch,		bays to trap sedi	ment
Impact Rating:	High	Cost	t Materials:	High	Labor C	ost: High	
Overall Cos	High		Comments:	significant.		osits /delta w way	osits in stream are ys downstream- lots
Sediment (t	t/yr)	1.	2 TP (kg/y	r):	0.544		
BMP Cost E	st:	\$2,900.00	BMP Ann	ual C	\$500.00	10 yr cost:	\$12,900.00
10 yr Cost f	for TP remo	oved (\$/kg):	\$23,0	699.71			
Cost Detern	mination:	prevent sedi estimate)	ment moveme	ention basins adja nt down slope int \$400 (rough estir	o stream = \$2,		Add Record

BMP Site Information		
Site I.D.: 1-14	Date:	4/22/2014
Town: Meredith	Watershed:	Waukewan
Wall Street culvert # 2		
GPS Coordinates Easting: 296409 Northing:	4835833	
Property Owner Contacted: No, Town owned Related Waterbook	dy: Waukewa	n
Land Use: Town Road Direct Flow to: Stream		
Issues: Moderate surface erosion, moderate road shoulder erosion, road sediment into stream from gravel road		
Area Dimensions:     Connected to site:       Recommendations:     Vegetate ditch, vegetate shoulder, install detention bas swales to capture sediment	in and water reter	ntion
Impact       Medium       Cost Materials:       Medium/High       Labor C	Cost: Medium	ı/High
Overall Cos High Comments: New culvert looks good be	ut need sediment o	capturing device
Sediment (t/yr) 0.4 TP (kg/yr): 0.181		
BMP Cost Est: \$2,900.00 BMP Annual C \$500.00	10 yr cost:	\$7,900.00
10 yr Cost for TP removed (\$/kg): \$43,541.33		
Cost Determination: Create riprap forebays/detention basins adjacent to culvert prevent sediment movement down slope into stream = \$2, estimate) Vegetate Road shoulder = \$400 (rough estimate)		Add Record

BMP Site Information		
Site I.D.: 1-15	Date:	4/22/2014
Town: Meredith	Watershed:	Waukewan
Location(road) 23 Wall Street on Road		
GPS Coordinates Easting: 296439 Northing:	4835793	
Property Owner Contacted: No Related Waterboo	dy: Waukewa	n
Land Use: Town Road Direct Flow to: Stream		
Issues: Moderate surface erosion, unstable inlet/outlet, culvert slightly crushed, moderate road shoulder erosion, sediment from road into stream ditch		
Area Dimensions:     Connected to site:       Recommendations:     armor inlet/outlet, replace/enlarge/lengthen culvert, ve with stone, install turnouts into woods, vegetate should		nor
Impact       High       Cost Materials:       Medium/High       Labor C         Rating:	Cost: High	
Overall Cos High Comments:		
Sediment (t/yr) 0.5 TP (kg/yr): 0.227		
BMP Cost Est: \$5,720.00 BMP Annual C \$250.00	10 yr cost:	\$8,220.00
10 yr Cost for TP removed (\$/kg): \$36,244.03		
Cost Determination: Replace culvert and armor inlet/outlet with stone = \$1,500 up/elevate roadway and resurface with new gravel reshape = \$2,720, Install armored ditch (~200') = \$1,500		Add Record

		BMP S	Site Informatio	<u>on</u>		
Site I.D.:	1-16				Date:	4/22/2014
Town:	Meredith				Watershed:	Waukewan
Location(roa	d) Wall Stre	eet culvert				
GPS Coordina	ates East	ing: 296590		Northing:	4835740	
Property Ow	ner Contacted:	No	Rel	ated Waterboo	dy: Waukewa	an
Land Use:	Town Roa	d	Direct Flow to:	Stream		
	severe ditch ero	e erosion, moderat sion, moderate roa n, road sediment in puts	d			
Area Dimen Recommend	dations:		Connected to site enlarge culvert, vege ention swales, establ	etate ditch, pave	e road, vegetate	
Impact F Rating:	ligh	Cost Materials:	Medium/High	Labor C	ost: Mediur	n/High
Overall Cos	High	Commen	its:			
Sediment (t	/yr)	0.2 TP (k	g/yr):	0.091		
BMP Cost Es	st: \$2,7	50.00 BMP /	Annual C	\$250.00	10 yr cost:	\$5,250.00
10 yr Cost f	or TP removed (	\$/kg): \$	57,871.39			
Cost Detern			et with stone = \$500 etate road shoulder			Add Record

BMP Site Information		
Site I.D.: 1-17	Date:	4/22/2014
Town: Meredith	Watershed:	Waukewan
Rt. 104 stream crossing, Reservoir Brook, upstream		
GPS Coordinates Easting: 297838 Northing:	4835157	
Property Owner Contacted: No Related Waterbod	ly: Waukewa	n
Land Use: State Road Direct Flow to: Stream, La	ake	
Issues: slight surface erosion, unstable inlet/outlet (top erosion headwall), moderate ditch erosion		
Area Dimensions: Connected to site:		
Recommendations: armor inlet/outlet, vegetate ditch, armor ditch with ston	e, reshape ditch	
Impact       Low       Cost Materials:       Medium       Labor Co         Rating:	ost: Mediun	1
Overall Cos High Comments:		
Sediment (t/yr)       0.4       TP (kg/yr):       0.181		
BMP Cost Est:       \$1,300.00       BMP Annual C       \$100.00	10 yr cost:	\$1,000.00
10 yr Cost for TP removed (\$/kg): \$5,511.56		
Cost Determination: Repair/ patch crumbling headwall portion = \$1,000 (rough e place riprap and fabric along eroding ditch down slope from (~20 riprap swale) = \$300		Add Record

BMP Site Information		
Site I.D.: 1-18	Date:	4/22/2014
Town: Meredith	Watershed:	Waukewan
Rt. 104 Reservoir Brook crossing		
GPS Coordinates Easting: 297815	4835204	
Property Owner Contacted: No Related Waterboo	dy: Waukewa	an
Land Use: State Road Direct Flow to: Lake		
Issues: Unstable outlet, broken culvert, undersized culvert, delta in stream		
Area Dimensions:     Connected to site:       Recommendations:     Armor outlet, enlarge culvert		
Impact High Cost Materials: High Labor C	Cost: High	
Overall Cos High Comments: large pool blow out		
Sediment (t/yr) 0.6 TP (kg/yr): 0.181		
BMP Cost Est: \$4,500.00 BMP Annual C \$0.00	10 yr cost:	\$4,500.00
10 yr Cost for TP removed (\$/kg): \$24,802.02		
Cost Determination: Repair crumbling headwalls and stabilize disturbed soil with \$4,500	n stone =	Add Record

BMP Site Information		
Site I.D.: 1-19 A	Date:	4/22/2014
Town: Meredith	Watershed:	Waukewan
Location(road) Reservoir St between 20 and 22		
GPS Coordinates Easting: 298068 Northing:	4834872	
Property Owner Contacted: No Related Waterbo	ody: Waukewa	in
Land Use: Town Road Direct Flow to: Lake		
Issues: Moderate to severe surface erosion, unstable outlet, clogged culvert, slight to moderate road shoulder erosion, bare soil, winter sand	119	
Area Dimensions:     Connected to site:       Recommendations:     Armor outlet, vegetate ditch, reshape ditch, vegetate sowner to clean/vegetate bank	shoulder, work with	
Impact High Cost Materials: High Labor	Cost: Mediun	n/High
Overall Cos High Comments:		
Sediment (t/yr) 0.4 TP (kg/yr): 0.181		
BMP Cost Est: \$2,550.00 BMP Annual C \$100.00	10 yr cost:	\$3,550.00
10 yr Cost for TP removed (\$/kg): \$19,566.04		
Cost Determination: Armor culvert inlet and outlet with stone = \$600, Install a with turnout = \$1,750, Vegetate road shoulder near culve		Add Record

			BMP Sit	e Informatio	<u>on</u>		
Site I.D.:	1- 19	В				Date:	4/22/2014
Town:	Meredith					Watershed:	Waukewan
Location(ro	ad)	eservoir Rd St	ream Crossing				
GPS Coordir	nates	Easting:	298084		Northing:	4834847	
Property Ow	wner Cont	acted: No		Rel	ated Waterbo	waukewa	an
Land Use:	Res	sidential		Direct Flow to:	Stream		
Issues:	soil, unde	moderate surf ercut shore line juate shoreline		are Images			
Area Dime Recommer			rosion control		ion swales (lots	s of parked vehicle r, reseed bare soil	
Impact Rating:	Medium	Cos	t Materials:	Medium	Labor	Cost: Low/M	edium
Overall Cos	s Medi	um	Comments				
Sediment (	(t/yr)	0	7 TP (kg/)	/r):	0.318		
BMP Cost I	Est:	\$4,800.00	BMP An	nual C	\$50.00	10 yr cost:	\$5,300.00
10 yr Cost	for TP rem	oved (\$/kg):	\$16	.692.16			
Cost Deter	mination:			property (~200) etative buffers)	= \$4,800 (CC	SWCD estimate	Add Record

BMP Site Information		
Site I.D.: 1-20	Date:	4/22/2014
Town: Meredith	Watershed:	Waukewan
Right branch of Sawmill Shores		
GPS Coordinates Easting: 297074 Northing:	4837627	
Property Owner Contacted: No Related Waterbo	ody: Waukewa	n
Land Use: Town Road Direct Flow to: Lake		
Issues: Slight road shoulder erosion Images		
Area Dimensions: Connected to site:		
Recommendations: Vegetate shoulder		
Impact Low Cost Materials: Medium Labor (	Cost: Mediun	1
Overall Cos Medium Comments: young trout spotted near	culvert inlet/outle	t
Sediment (t/yr) 0.1 TP (kg/yr): 0.045		
BMP Cost Est: \$1,200.00 BMP Annual C \$50.00	10 yr cost:	\$1,700.00
10 yr Cost for TP removed (\$/kg): \$37,478.62		
Cost Determination: Vegetate / stabilize road shoulders = \$1,200 (rough estim	ate)	Add Record

BMP Site Information
Site I.D.: 1-21 Date: 4/22/2014
Meredith   Watershed:
Location(road) Waukewan ditches from Rt. 104 to bottom of hill at Wall Street
GPS Coordinates Easting: 296439 Northing: 4835408
Property Owner Contacted: No Related Waterbody: Waukewan
Land Use: Town Road Direct Flow to: Lake
Moderate to severe ditch erosion, moderate road shoulder erosion, winter sand
Area Dimensions:     Connected to site:       Recommendations:     Vegetate ditch, reshape ditch, install sediment pools, vegetation mats or riprap
Impact   Cost Materials:     Rating:   Labor Cost:
Overall Cos       Medium       Comments:       included all ditches as single site in survey- many ditches along rd need to be stabilized. Installing structures to slow flow will help with areas
Sediment (t/yr)       12.6       TP (kg/yr):       4.853
BMP Cost Est:       \$2,000.00       BMP Annual C       \$250.00       10 yr cost:       \$4,500.00
10 yr Cost for TP removed (\$/kg): \$927.18
Cost Determination:     Vegetate ditches with erosion control matting and seed (in areas with bar soil), and stone in high velocity areas (~2,000 ft) = \$2,000 (rough estimate)       Add Record

		BMP Site Inf	ormation			
Site I.D.:	1-22				Date:	4/23/2014
Town: Me	redith			Wat	ershed:	Waukewan
Location(road)	Red Gate Lane	2				
GPS Coordinate	Easting:	297578	Nort	thing:	4836937	
Property Owne	r Contacted:	0	Related \	Waterbody:	Waukewa	n
Land Use:	Town Road	Direct	Flow to:	Lake		
di ro	oderate surface ero: tches on either side ad shoulder erosion ad that slopes towa	of road, moderate , winter sand, gravel	Images		-22	
Area Dimensic Recommendat	ions: install	turnouts, install ditch, i runoff diverters, install		pools, buildup r	oad with gra	vel,
Impact High Rating:	h Co	ost Materials: Med	ium	Labor Cost:	High	
Overall Cos	High	Comments:				
Sediment (t/yr	)	2.5 TP (kg/yr):	1.13	4		
BMP Cost Est:	\$13,720.00	BMP Annual C	\$50	00.00 10 y	r cost:	\$18,720.00
10 yr Cost for	TP removed (\$/kg)	\$16,508.23	1			
Cost Determin	\$9,520, Cr	with correct gravel, res eate stone-lined ditchin e toward lake = \$3,00,	ng with check da	ms to collect ru		Add Record

BMP Site Information		
Site I.D.: 1-23	Date:	4/23/2014
Town: Meredith	Watershed:	Waukewan
Location(road) Bonney Shore Road		
GPS Coordinates Easting: 297254 Northing:	4837520	
Property Owner Contacted: Related Waterbo	dy: Waukewa	n
Land Use: Private Road Direct Flow to: Ditch		
Issues: Moderate surface erosion, moderate ditch erosion, slight road shoulder erosion, winter sand		
Area Dimensions:     Connected to site:       Recommendations:     Vegetate and/or armor ditches, line turnouts/ sediment they can be cleaned out	t capturing basins s	50
Impact Medium Cost Materials: High Labor C	Cost: High	
Overall Cos High Comments: Looks like newly shaped of quite a bit of sediment. R working		
Sediment (t/yr) 1.8 TP (kg/yr): 0.816		
BMP Cost Est:       \$4,000.00       BMP Annual C       \$1,000.00	10 yr cost:	\$14,000.00
10 yr Cost for TP removed (\$/kg): \$17,147.08		
Cost Determination: Line existing turnouts with geotextile fabric and stone ripra (rough estimate for 4 large turnouts)	ap = 1,000	Add Record

	BMP Site Inf	ormation		
Site I.D.: 1-24 A			Date:	4/23/2014
Town: Meredith			Watershed:	Waukewan
Location(road) Waukev	van Street next to 107 (strear	n crossing)		
GPS Coordinates Eas	ting: 297261	Northing:	4835561	
Property Owner Contacted	: No	Related Waterbo	dy: Waukewa	n
Land Use: Town Roa	ad Direct	Flow to:		
	ce erosion, unstable derate road shoulder	Images		
	Connect Armor inlet/outlet, vegetate s residential yards mowing very		nk, establish buffe	r near
Impact Medium Rating:	Cost Materials:	Labor	Cost:	edium
Overall Cos Medium	Comments:			
Sediment (t/yr)	0.3 TP (kg/yr):	0.136		
BMP Cost Est: \$1,	000.00 BMP Annual C	\$50.00	10 yr cost:	\$1,500.00
10 yr Cost for TP removed	(\$/kg): \$11,023.12			
	or culvert inlet and outlet = \$ etate road shoulder = \$300	700 (rough estiate given	size of crossing	Add Record

		BMP Site	Information	<u>1</u>		
Site I.D.:	1-24 B				Date:	4/23/2014
Town:	redith			]	Watershed:	Waukewan
Location(road)	Stream Cross	ing near 107 Wauk	ewan St			
GPS Coordinate	Easting:	297270		Northing:	4835580	
Property Owner	r Contacted:	No	Rela	ted Waterboo	ly: Waukewa	in
Land Use:	Residential	Di	irect Flow to:	Stream, L	ake	
	ndercut shoreline w /inadequate vegeta		Images		1124	
Area Dimensio Recommendati		Lish buffer, add to k	onnected to site: ouffer			
Impact Low Rating:	C	ost Materials:	Low	Labor Co	Low	
Overall Cos	Low	Comments:				
Sediment (t/yr	)	0.1 TP (kg/yr)	:	0.045		
BMP Cost Est:	\$1,920.0	0 BMP Annu	al C	\$50.00	10 yr cost:	\$2,420.00
10 yr Cost for	TP removed (\$/kg)	\$53,35	51.91			
Cost Determina	ation: Add to bu vegetative	Iffer (~80') = \$1,9 e buffers)	20 (CCSWCD est	imate of \$480/	'20' length for	Add Record

BMP Site Information		
Site I.D.: 2-01	Date:	4/22/2014
Town: Meredith	Watershed:	Waukewan
Location(road) 9 Winona Shores (on rd)		
GPS CoordinatesEasting:295758Northing:	4835503	
Property Owner Contacted: No Related Waterbo	dy: Waukewa	n
Land Use: Private Road Direct Flow to: Ditch		
Issues: Slight surface erosion, slight road shoulder erosion, bare soil, road drainage intermittent, culvert under road, erosion of both shoulders		
Area Dimensions: 25'x 10', 25' x 4' Connected to site:		
Recommendations: Vegetate shoulder (downstream and upstream)		
Impact Low Cost Materials: Low Labor C	Cost: Low	
Overall Cos		
Sediment (t/yr) 0.4 TP (kg/yr): 0.181		
BMP Cost Est: \$1,000.00 BMP Annual C \$50.00	10 yr cost:	\$1,500.00
10 yr Cost for TP removed (\$/kg): \$8,267.34		
Cost Determination: Vegetate road shoulder (~50 ft) = \$700 Better armor culvert with riprap = \$300		Add Record

	BMP Site Information		
Site I.D.:	2-02	Date:	4/22/2014
Town:	leredith	Watershed:	Waukewan
Location(road	Robin Way		
GPS Coordina	tes Easting: 295944 Northing:	4835809	
Property Own	er Contacted: Related Water	body: Waukewa	n
Land Use:	Private dirt road Direct Flow to: Ditch		
e	Moderate surface erosion, moderate ditch erosion, moderate road shoulder erosion, pare soil		
Area Dimens		ailroad ties and direc	t to a
Impact Me Rating:	edium Cost Materials: Medium Labo	r Cost: Mediun	1
Overall Cos	High Comments:		
Sediment (t/	yr) 5.2 TP (kg/yr): 2.359		
BMP Cost Es	t: \$3,600.00 BMP Annual C \$150.00	10 yr cost:	\$5,100.00
10 yr Cost fo	r TP removed (\$/kg): \$2,162.23		
Cost Determ	Armor ditch with stone (~200 ft) = \$1,500, Vegetate ro \$600, Create turnouts to vegetated or rock lined swales		Add Record

BMP Site Information							
Site I.D.: 2-03 A	Date:	4/22/2014					
Town: Meredith	Watershed:	Waukewan					
Location(road) 28 Forest Hill Road (driveway)							
GPS Coordinates Easting: 295593 Northing:	4836405						
Property Owner Contacted: No Related Waterbody: Waukewan							
Land Use: Driveway (paved Direct Flow to: Ditch							
Issues: Moderate surface erosion, bare soil, winter sand build-up in riprap ditch along driveway							
Area Dimensions:     Connected to site:       Recommendations:     Install turnouts, clean out sediment from riprap ditch (a vegetate shoulder, reseed bare soil and thinning grass	and other debris),						
Impact   Medium   Cost Materials:   Medium     Rating:   Medium   Labor C	Cost: Low						
Overall Cos Medium Comments:							
Sediment (t/yr) 0.1 TP (kg/yr): 0.045							
BMP Cost Est: \$1,500.00 BMP Annual C \$50.00	10 yr cost:	\$2,000.00					
10 yr Cost for TP removed (\$/kg): \$44,092.49							
Cost Determination: Reshape existing riprap ditch and create turnouts = \$1,20 road shoulder = \$300	0, Vegetate	Add Record					

		BMP Site	Informatior	<u>1</u>			
Site I.D.:	2-03 B				Date:	4/22/2014	
Town:	eredith				Watershed:	Waukewan	
Location(road)	Rd ditch ne	ar 28 Forest Hill Rd					
GPS Coordinate	es <u>Easting</u>	295572		Northing:	4836424		
Property Owner Contacted: No Related Waterbody: Waukewan							
Land Use:	Private Rd	Dir	ect Flow to:	Ditch			
er		erosion, moderate ditch road shoulder erosion, ind					
Area Dimensio	ons: 157' x	3' Cor	nnected to site:				
Recommenda	tions: Arn	nor ditch with stone, in	stall check dam	s, vegetate sh	noulder		
Impact Mer Rating:	dium	Cost Materials:	ledium	Labor C	ost: Mediun	ı	
Overall Cos	High	Comments:					
Sediment (t/y	rr)	8.9 TP (kg/yr):		4.037			
BMP Cost Est:	\$2,400	.00 BMP Annual		\$500.00	10 yr cost:	\$7,400.00	
10 yr Cost for	TP removed (\$/	xg): \$1,833	3.06				
Cost Determin	for rock	ditch with stone (~200 :-lined ditches) plus ad te road shoulder = \$50	ditional materia			Add Record	

	BMP Site Information		
Site I.D.:	2-04	Date:	4/22/2014
Town:	eredith	Watershed:	Waukewan
Location(road	36 Forest Hill		
GPS Coordinat	Easting: 295507 Northing:	4836509	
Property Own	er Contacted: No Related Waterb	ody: Waukewa	in
Land Use:	Private road Direct Flow to: Stream		
	Instable inlet/outlet, hanging culvert into olunge pool with eroded bank, bare soil		
Area Dimensi Recommenda			
Impact Lo Rating:	w Cost Materials: Low Labor	Cost: Low	
Overall Cos	Low Comments:		
Sediment (t/y	/r) 0 TP (kg/yr): 0		
BMP Cost Est	: \$1,875.00 BMP Annual C \$100.00	10 yr cost:	\$2,875.00
10 yr Cost fo	r TP removed (\$/kg):		
Cost Determi	Armor culvert inlet and outlet = \$700 (rough estimate), C pool at outlet = \$875, Vegetate road shoulder around cul		Add Record

	BMP Site Information	<u>ation</u>		
Site I.D.: 2-05			Date:	4/22/2014
Town: Meredith		V	Vatershed:	Waukewan
Location(road) Other	side of 36 Forest Hill			
GPS Coordinates Ea	sting: 295466	Northing:	4836579	
Property Owner Contacted	d: No	Related Waterbody	/: Waukewa	n
Land Use: Private F	Road Direct Flow	to: Ditch		
erosion, mode bare soil, wint	erate road shoulder erosion,	b site:	205	
Recommendations:	Armor ditch with stone, install check divert to level spreader	k dams, add another o	cross culvert and	1
Impact Rating:	Cost Materials: Medium	Labor Cos	st: Medium	1
Overall Cos	Comments: Poten	tial UNH design site		
Sediment (t/yr)	8 TP (kg/yr):	3.629		
BMP Cost Est: \$4	BMP Annual C	\$300.00	10 yr cost:	\$7,100.00
10 yr Cost for TP removed	l (\$/kg): \$1,956.60			
\$75	stall armored ditch (~200') = \$2,000 50 for 100' rock-lined ditch and addit stall cross culvert = \$1,500, install plu 00	tional \$500 for check of	dams),	Add Record

BMP Site Information		
Site I.D.: 2-06	Date:	4/22/2014
Town: Meredith	Watershed:	Waukewan
Location(road) Indian Trail Rd & Chapman Point		
GPS Coordinates Easting: 295543 Northing:	4837134	
Property Owner Contacted: No Related Waterbo	dy: Waukewa	n
Land Use: Private Road Direct Flow to:		
General gravel road maintenance, poor crown, bare soil, moderate surface erosion, winter sand, wrong aggregate mix?		
Area Dimensions:     Connected to site:       Recommendations:     Build-up road/add new surface material, reshape crown	n, vegetate should	er
Impact Medium Cost Materials: High Labor C	Cost: High	
Overall Cos High Comments:		
Sediment (t/yr)       18       TP (kg/yr):       8.165		
BMP Cost Est: \$8,300.00 BMP Annual C \$2,500.00	10 yr cost:	\$33,300.00
10 yr Cost for TP removed (\$/kg): \$4,078.56		
Cost Determination: Resurface with correct gravel, reshape to crown (~1,000' c \$6,800 (CCSWCD estimate for gravel and grading of 200' c (\$1,360), Vegetate Road Shoulder = \$1500		Add Record

	<u>BMF</u>	<u> Site Informatio</u>	n		
Site I.D.: 2-0	)7			Date:	4/22/2014
Town: Meredit	h		W	atershed:	Waukewan
Location(road)	100 Forest Hill road				
GPS Coordinates	Easting: 295801		Northing:	4836588	
Property Owner Co	ontacted: No	Rela	ated Waterbody:	Waukewa	n
Land Use:	Private paved roa	Direct Flow to:	Ditch		
worse	to moderate ditch erosion with big storms), slight roa ler erosion, lots of winter s	ad		207	
Area Dimensions: Recommendations	100' x 3' : Vegetate ditch or	Connected to site armor with stone, veg			
Impact Rating:	Cost Material	s: Low/Medium	Labor Cost	: Low/Me	edium
Overall Cos	edium	ents:			
Sediment (t/yr)	13.8 TP	(kg/yr):	6.26		
BMP Cost Est:	\$1,150.00 BM	P Annual C	\$50.00	0 yr cost:	\$1,650.00
10 yr Cost for TP r	emoved (\$/kg):	\$263.60			
Cost Determination		e = \$750 (CCSWCD es ate road shoulder = \$4		rock-lined	Add Record

BMP Site Information		
Site I.D.: 2-08	Date:	4/22/2014
Town: New Hampton	Watershed:	Waukewan
Location(road) Picket fence & Winona (across from cemetery)		
GPS Coordinates Easting: 294615 Northing:	4836392	
Property Owner Contacted: No Related Waterb	ody:	
Land Use: State and Private Direct Flow to: Ditch		
Issues: Severe ditch erosion at one point along road, ditch turnout is plugged- will take out road at some point, moderate surface erosion, bare soil	205	
Area Dimensions: 150' x 2' Connected to site:		
Recommendations: Change ditch cross-section & remove plug and/or stal detention pond?	bilize new ditch, ins	tall
Impact       Medium       Cost Materials:       Medium       Labor	Cost: Mediur	n
Overall Cos High Comments: Need a willing land own	er	
Sediment (t/yr)       17.9       TP (kg/yr):       8.119		
BMP Cost Est:       \$3,625.00       BMP Annual C       \$250.00	10 yr cost:	\$6,125.00
10 yr Cost for TP removed (\$/kg): \$754.38		
Cost Determination: Install armored ditch = \$1,125 (CCSWCD estimate for 10 ditch is \$750) Turnout to detention pond feature= 2,000 (rough estimate Vegetate road shoulder = \$500)		Add Record

BMP Site Information	
Site I.D.: 2-09 Dat	e: 4/22/2014
Town: New Hampton Watersh	Waukewan
Location(road) Saywood brook on Seminole Road (culvert under RR tracks where it goe	s under the road)
GPS Coordinates Easting: 294928 Northing: 48	337293
Property Owner Contacted: No Related Waterbody: V	Vaukewan
Land Use: RR ROW? Direct Flow to: Lake, Stream	
Issues: Undersized culvert on the downstream side, probably more water than used to be there and eroding downstream bank, large amount of eroded debris	
Area Dimensions: Connected to site:	
Recommendations: Either replace culvert or armor bank	
Impact       Medium       Cost Materials:       High or Low       Labor Cost:	High or Low
Overall Cos Medium Comments: Upstream side is ok so probably no depends on solution	need to replace, price
Sediment (t/yr)       0.2       TP (kg/yr):       0.091	
BMP Cost Est: \$6,000.00 BMP Annual C 10 yr cc	st: \$6,000.00
10 yr Cost for TP removed (\$/kg): \$66,138.73	
Cost Determination: Armor culvert inlet and outlet and extend headwalls to prevent slum with boulders= \$6,000	ping
	Add Record

BMP Site Information		
Site I.D.: 2-10	Date:	4/22/2014
Town: New Hampton	Watershed:	Waukewan
Location(road) On RR tracks off Winona on Snake River by sign C41		
GPS CoordinatesEasting:293935Northing:	4837907	
Property Owner Contacted: No Related Waterbo	dy: Snake Riv	/er
Land Use: RR ROW Direct Flow to: Stream (	Snake River)	
Issues: Continued historic sand movement, monitor in the future, lots of sand in channel, moderate surface erosion (deposition in stream at crossing), delta in stream		
Area Dimensions:     Connected to site:       Recommendations:     Armor inlet/outlet? Stabilize bare/eroding soils at crossing s	ing, vegetate slope	es
Impact       Medium       Cost Materials:       Low/Medium       Labor C         Rating:	Cost: Low	
Overall Cos Medium Comments:		
Sediment (t/yr)       1.2       TP (kg/yr):       0.544		
BMP Cost Est:       \$5,000.00       BMP Annual C       \$100.00	10 yr cost:	\$6,000.00
10 yr Cost for TP removed (\$/kg): \$11,023.12		
Cost Determination: Slope stabilization = \$5,000 (rough average/estimate. Stab vary between seeding slope and/or using a geoweb base s system for a more long term solution)		Add Record

BMP Site Information		
Site I.D.: 2-11	Date:	4/22/2014
Town: New Hampton	Watershed:	Waukewan
Location(road) Purdy property- Bay View		
GPS Coordinates Easting: 292925 North	hing: 4838729	
Property Owner Contacted: Related W	Vaterbody: Winona	
Land Use: Residential Direct Flow to: S	Stream	
Issues:     Lack of shoreline vegetation, slumping streambank, bare soil, slight surface erosion	211	
Area Dimensions:     Connected to site:       Recommendations:     Add vegetation, stabilize streambank (should not retention swales (move runoff away from streambuffer, reseed bare soils and thinning grass		to
Impact Medium Cost Materials: Low/Medium	Labor Cost:	
Overall Cos Medium Comments:		
Sediment (t/yr) 2.1 TP (kg/yr): 0.953	3	
BMP Cost Est: \$3,920.00 BMP Annual C \$75	5.00 10 yr cost:	\$4,670.00
10 yr Cost for TP removed (\$/kg): \$4,902.66		
Cost Determination: Establish Buffer = \$1,920 (CCSWCD estimate of vegetative buffers) Streambank Stabilization (live-staking and or wattle	-	Add Record

		BMP Site Inf	formation	<u>l</u>		
Site I.D.:	2-12 A				Date:	4/22/2014
Town: Cente	r Harbor			V	Vatershed:	Waukewan
Location(road)	Winona Rd at b	oat launch near Snak	e River			
GPS Coordinates	Easting:	293520		Northing:	4838585	
Property Owner C	Contacted: No		Relat	ed Waterbody	/: Winona	
Land Use:	Municipal/Public,	Direct	Flow to:	Lake		
erosi flows	t surface erosion, s on, bare soil, winte off Rd and erodes ng areas		Images			
Area Dimensions Recommendation	ns: Create s	Conne wales to direct water ne?) to parking areas			ew surface mate	rial
Impact Rating:	n Cos	t Materials: Med	lium	Labor Cos	st: Mediun	1
Overall Cos	Medium	Comments:				
Sediment (t/yr)	17.	1 TP (kg/yr):		6.577		
BMP Cost Est:	\$4,380.00	BMP Annual C		\$250.00	10 yr cost:	\$6,880.00
10 yr Cost for TP	removed (\$/kg):	\$1,046.06	5			
Cost Determination	wooded are stone to pre	ales to move water m as& away from lake= event erosion into lake f swales=\$1200	\$1,500, Cove	er parking lot w	ith crushed	Add Record

BMP Site Information				
Site I.D.: 2-12 B	Date:	4/22/2014		
Town: Center Harbor	Watershed:	Waukewan		
Location(road) Winona Lake / Snake River boat launch at Winona Rd.				
GPS Coordinates Easting: 293511 Northing:	4838580			
Property Owner Contacted: No Related Waterboo	dy: Winona			
Land Use: Municipal/Public, Direct Flow to: Lake				
Issues: Moderate surface erosion, bare soil Images				
Area Dimensions:     Connected to site:       Recommendations:     Install runoff diverter (waterbar), rain garden on either	<sup>-</sup> side of launch			
Impact       Medium       Cost Materials:       Low       Labor C         Rating:	Low			
Overall Cos				
Sediment (t/yr) 0.6 TP (kg/yr): 0.272				
BMP Cost Est: \$1,380.00 BMP Annual C \$50.00	10 yr cost:	\$1,880.00		
10 yr Cost for TP removed (\$/kg): \$6,907.82				
Cost Determination: Install waterbar = \$380 (CCSWCD estimate for 16' rubber in Add stone or pavers to launch = \$1,000 (average. Stone is than pavers/concrete grid system)		Add Record		

BMP Site Information	
Site I.D.: 2-13 A	Date: 4/22/2014
Center Harbor	Watershed: Waukewan
Location(road) Shoreline along Winona Rd, guardrail near 692 Winona Rd	
GPS Coordinates Easting: 293272 Northing:	4839145
Property Owner Contacted: No Related Waterb	vody: Winona
Land Use: State Road Direct Flow to: Lake	
Alight surface erosion, undercut shoreline, erosion on the shoreline, road is slumping toward lake	213
Area Dimensions:     Connected to site:       Recommendations:     Need to armor and stabilize shoreline where Rd is closed in the stabilize shoreline where Rd is closed i	sest to lake
Impact High Cost Materials: High Labor	Cost: High
Overall Cos High Comments: Don has good pictures f	from the Lake side that he will send to us
Sediment (t/yr) 78.8 TP (kg/yr): 30.345	
BMP Cost Est: \$25,000.00 BMP Annual C \$200.00	10 yr cost: \$27,000.00
10 yr Cost for TP removed (\$/kg): \$889.76	
Cost Determination: Shoreline stabilization \$25,000 (rough estimate - would reengineering)	equire
	Add Record

	BMP Site Informa	ation		
Site I.D.: 2-13 B			Date:	4/22/2014
Center Harbo	זר	Wa	itershed:	Waukewan
Location(road)	n across from site 2- 13 A on Winona R	d		
GPS Coordinates E	Easting: 293276	Northing:	4839161	
Property Owner Contact	ted: No	Related Waterbody:	Winona	
Land Use: State	Road Direct Flow	to: Ditch		
Issues: Slight surface erosion, bare	e erosion, moderate ditch e soil	ages		
Area Dimensions:	Connected to			
Impact Medium Rating:	Cost Materials: Medium	Labor Cost:	Medium	1
Overall Cos	Comments:			
Sediment (t/yr)	11.3 TP (kg/yr):	4.581		
BMP Cost Est:	\$1,500.00 BMP Annual C	\$200.00 10	yr cost:	\$3,500.00
10 yr Cost for TP remove	ed (\$/kg): \$763.98			
d	nstall armored ditch = \$1,500 (CCSWC ditch is \$750) Place erosion control mulch on back wa		ock-lined	Add Record

BMP Site Information		
Site I.D.: 2-14	Date:	4/22/2014
Town: Center Harbor	Watershed:	Waukewan
Location(road) Ditch on Winona		
GPS Coordinates Easting: 292652 Northing:	4840371	
Property Owner Contacted: No Related Waterbo	ody: Winona	
Land Use: State Road Direct Flow to:		
Issues: Moderate ditch erosion, slight surface erosion, slight road shoulder erosion		
Area Dimensions: 240' x 2' Connected to site:		
Recommendations: Armor ditch with stone, vegetate ditch		
Impact Medium Cost Materials: Medium Labor	Cost: Mediun	1
Overall Cos Medium Comments:		
Sediment (t/yr) 8.4 TP (kg/yr): 3.221		
BMP Cost Est: \$2,000.00 BMP Annual C \$150.00	10 yr cost:	\$3,500.00
10 yr Cost for TP removed (\$/kg): \$1,086.79		
Cost Determination: Install armored ditch = \$1,500 (CCSWCD estimate for 100 ditch is \$750) Vegetate road shoulder = \$500 (~25 yards ECM)	)' of rock-lined	Add Record

BMP Site Information					
Site I.D.:	2-15			Date:	4/22/2014
Town:	hland			Watershed:	Waukewan
Location(road)	Both ends of La	ambert RD (hills to strea	am)		
GPS Coordinate	Easting:	291150	Northing:	4841091	
Property Owne	er Contacted:		Related Waterb	ody: Unnamed	tributary/Inflow to
Land Use:	Town Road	Direct F	low to: Stream		
do	are soil, bringing lots ownstream, delta in s ight surface erosion, ight road shoulder er	stream, winter sand, slight ditch erosion,	Images		
Area Dimensio		Connect urnouts and level sprea	ed to site:	getate ditch	
Impact Hig Rating:	h	st Materials: Mediu	m _Labor	Cost: Mediur	n
Overall Cos	Medium	Comments:	akes Region Conservati	ion Trust " Homest	ead Forest"
Sediment (t/y	r) C	D.4 TP (kg/yr):	0.181		
BMP Cost Est:	\$2,075.00	BMP Annual C	\$100.00	10 yr cost:	\$3,075.00
10 yr Cost for	TP removed (\$/kg):	\$16,948.05			
Cost Determin	lined ditch) Install turn lined turno	tch, vegetate = \$575 (C outs (2) = \$1,200 ( bas ut with level spreader) noulders = \$300		-	Add Record

BMP Site Information		
Site I.D.: 2-16 A	Date:	4/22/2014
Town: Center Harbor	Watershed:	Waukewan
Location(road) Hawkins Pond Boat Launch		
GPS Coordinates Easting: 293446 Northing:	4840222	
Property Owner Contacted: No, NH Fish and Game Related Waterb	ody: Hawkins I	Pond
Land Use: Boat access Direct Flow to: Lake/Po	ond	
Issues: Slight surface erosion, slight road shoulder erosion, bare soil, winter sand, water from Rd is eroding areas of the boat launch parking lots and into Pond		
Area Dimensions: Connected to site:		
Recommendations: Add new surface material (crushed stone to prevent s site, install runoff diverter (waterbar), rain garden nea infiltration trench to collect runoff before it enters par	ar launch/slope,	t off
Impact Rating:       Medium       Cost Materials:       Medium/High       Labor	Cost: Mediun	١
Overall Cos High		
Sediment (t/yr) 11 TP (kg/yr): 4.264		
BMP Cost Est:       \$3,684.00       BMP Annual C       \$200.00	10 yr cost:	\$5,684.00
10 yr Cost for TP removed (\$/kg): \$1,333.09		
Cost Determination: Cover parking surface with crushed stone to prevent sedi off-site (70'x60') = \$1,384 (\$684 (38 yards of crushed 3 \$18/yd) plus \$700 labor)		Add Record

BMP Site Information		
Site I.D.: 2-16 B	Date:	4/22/2014
Town: Center Harbor	Watershed:	Waukewan
Rd Ditches near boat launch at Hawkins Pond		
GPS Coordinates Easting: 293450 Northing:	4840212	
Property Owner Contacted: No Related Waterboo	dy: Hawkins I	Pond
Land Use: Town Road Direct Flow to: Ditch		
Moderate ditch erosion, slight road shoulder erosion, bare soil, winter sand		
Area Dimensions:     Connected to site:       Recommendations:     Vegetate ditch, armor ditch with stone, install turnouts		
Impact   Medium   Cost Materials:   Medium   Labor C     Rating:	Cost: Mediun	1
Overall Cos Medium Comments:		
Sediment (t/yr)       0.4       TP (kg/yr):       0.181		
BMP Cost Est:       \$1,275.00       BMP Annual C       \$100.00	10 yr cost:	\$2,275.00
10 yr Cost for TP removed (\$/kg): \$12,538.80		
Cost Determination: Install riprap ditch with check dams (~50 ft) = \$375, Veget shoulder = \$300	tate road	Add Record

BMP Site Information
Date:       4/23/2014
New Hampton       Watershed:       Waukewan
.ocation(road) Saywood Brook @ Waukewan Road (Winona Rd intersection)
SPS Coordinates Easting: 294248 Northing: 4836968
Property Owner Contacted: No Related Waterbody: Saywood Brook
and Use: State Road Direct Flow to: Stream
Slight road shoulder erosion, undercut streambank (slightly), inadequate shoreline vegetation
Area Dimensions:     75'     Connected to site:       Recommendations:     Vegetate shoulder, investigate origin of pipe that outlet from property to the stream, vegetate shoulder/stabilize near culverts
Impact Rating:   Low   Labor Cost:   Low
Overall Cos       Medium       Comments:       cutting adjacent to stream on residential property
Sediment (t/yr)       0.4       TP (kg/yr):       0.181
BMP Cost Est:       \$1,920.00       BMP Annual C       \$50.00       10 yr cost:       \$2,420.00
10 yr Cost for TP removed (\$/kg): \$13,337.98
Cost Determination: Add to buffer (~80') = \$1,920 (CCSWCD estimate of \$480/20' length for vegetative buffers)
Add Record

BMP Site Information		
Site I.D.: 2-18	Date:	4/23/2014
Town: Center Harbor	Watershed:	Waukewan
Piper Hill Road, Bear Pond stream crossing		
GPS Coordinates Easting: 294290 Northing:	4839939	
Property Owner Contacted: No Related Waterbo	dy: Bear Pond	d/Hawkins Pond
Land Use: Town Road Direct Flow to: Pond		
Issues:     Undersized culvert (is currently under water), moderate road shoulder erosion, lots of winter sand, Looks like road need to be built up and new crossing constructed- water is almost to Rd level     Images       Area Dimensions:     Connected to site:     Images       Recommendations:     Enlarge culvert, vegetate/stabilize shoulder, water with lots of sediment input       Impact     Medium     Cost Materials:     High     Labor C	Cost: High	der-
Overall Cos High Comments: Cost would be lower if just	st stabilization	
Sediment (t/yr)       0.4       TP (kg/yr):       0.091		
BMP Cost Est: \$9,560.00 BMP Annual C \$200.00	10 yr cost:	\$11,560.00
10 yr Cost for TP removed (\$/kg): \$127,427.29		
Cost Determination: Replace and enlarge culvert and armor inlet/outlet with sto Build-up/elevate roadway and resurface with new pavemen \$5,700 (paving 100 x 15 sq ft area)		Add Record

BMP Site Information
Site I.D.: 2-20 Date: 4/23/2014
Town: Center Harbor Watershed: Waukewan
Location(road) Piper Hill Rd, Hawkins Pond outlet crossing downstream side
GPS Coordinates Easting: 293412 Northing: 4840223
Property Owner Contacted: No Related Waterbody: Hawkins Pond
Land Use:   Town Road     Direct Flow to:   Hawkins Pond outlet
Issues: Slight road shoulder erosion, winter sand forming delta down into stream
Area Dimensions:     Connected to site:       Recommendations:     Install sediment pools to control winter sand
Impact Rating:   High   Labor Cost:   Medium
Overall Cos High Comments:
Sediment (t/yr) 0.4 TP (kg/yr): 0.181
BMP Cost Est:       \$1,950.00       BMP Annual C       \$100.00       10 yr cost:       \$2,950.00
10 yr Cost for TP removed (\$/kg): \$16,259.11
Cost Determination:     Install ditch with turnouts into adjacent wooded buffer and away from stream crossing = \$750, \$1,200 for turnouts (based on JH's estimate \$500-600 per rock lined turnout with level spreader)       Add Record

BMP Site Information							
Site I.D.:	2-21 B				Date:	4/23/2014	
Town:	nter Harbor			W	atershed:	Waukewan	
Location(road)	Downstrea	m Side of crossing a m- downstream side		Winona Rd and H	lawkins Pond R	d (Hawkins Pond	
GPS Coordinate	es <u>Eastin</u>	<b>g</b> : 293060		Northing:	4839717		
Property Owne	er Contacted:	No	Rela	ited Waterbody	Winona		
Land Use:	Residential		Direct Flow to:	Stream			
er ve	rosion, winter sar	ion, slight road shou nd, lack of shoreline ed ditch brings water ent driveway into sti	integes				
Area Dimensions:     Connected to site:       Recommendations:     Vegetate shoulder, establish buffer, add to buffer, remove tar-lined ditch and replace with infiltrating /sediment capturing structure to treat runoff properly							
Impact Med Rating:	dium	Cost Materials:	Medium	Labor Cost	t: Low		
Overall Cos	Medium	Comments:	retaining w	all on residence a	it stream shore	line	
Sediment (t/yı	r)	0.1 TP (kg/yr	):	0.045			
BMP Cost Est:	\$1,560	BMP Ann	ual C	\$100.00 1	0 yr cost:	\$2,560.00	
10 yr Cost for	TP removed (\$/	(g): \$56,4	38.39				
Cost Determin	Add to	e tar-lined ditch and buffer = \$960 (CCS) ive buffers)				Add Record	

BMP Site Information							
Site I.D.:	2-22				Date:	4/23/2014	
Town:	enter Harbor				Watershed:	Waukewan	
Location(road)	) Snake River	crossing inlet to	Waukewan				
GPS Coordinat	tes Easting	294775		Northing:	4837829		
Property Owner Contacted: No Related Waterbody: Waukewan							
Land Use:	State Road		Direct Flow to:	Lake Wa	ukewan		
e s'	Vinter sand, mode erosion, lack of shc tormwater createc owards water carr	reline vegetation, I gully has eroded	mage	5			
Area Dimensions:     Connected to site:       Recommendations:     Install sediment polls or other device, stabilize shoreline/road shoulder, establish buffer							
Impact Rating:   High   Cost Materials:   Medium							
Overall Cos	Medium	Comments					
Sediment (t/y	yr)	0 TP (kg/	yr):	0			
BMP Cost Est:       \$2,130.00       BMP Annual C       \$100.00       10 yr cost:       \$3,130.00							
10 yr Cost for	r TP removed (\$/k	g):					
Cost Determin	\$450 (a Detentio	urbing to direct ro t \$15/linear foot ir on basin = \$600, <i>I</i> o move water to b	nstalled) Add to buffer = \$4			Add Record	

BMP Site Information							
Site I.D.: 2-23	Date:	4/23/2014					
Town: Center Harbor Wa	atershed:	Waukewan					
Waukewan Rd, driveway adjacent w/ cut wood							
GPS Coordinates Easting: 295416 Northing:	4838088						
Property Owner Contacted: No Related Waterbody:	Waukewa	n					
Land Use: State Road Direct Flow to: Ditch, Lake Walikewan							
Slight ditch erosion, winter sand, slight road shoulder erosion, unknown source of water drains directly to lake	-						
Area Dimensions:     Connected to site:       Recommendations:     Vegetate shoulder, establish buffer							
Impact Low Cost Materials: Low Labor Cost:	Low						
Overall Cos Low Comments:							
Sediment (t/yr)   0   TP (kg/yr):   0							
BMP Cost Est:       \$480.00       BMP Annual C       \$50.00       10	) yr cost:	\$980.00					
10 yr Cost for TP removed (\$/kg):							
Cost Determination: Vegetate shoulder and add to buffer around crossing (downstr \$480 (CCSWCD estimate of \$480/20' length for vegetative bur		Add Record					

BMP Site Information							
Site I.D.:	2-24				Date:	4/23/2014	
Town: Cen	ter Harbor			Wa	itershed:	Waukewan	
Location(road)	Mayo Farms Co	ttages + Campground	ł				
GPS Coordinates	s Easting:	295674	No	rthing:	4838245		
Property Owner Contacted: No Related Waterbody: Waukewan							
Land Use:	Commercial	Direct	Flow to:	Stream			
und	ght road shoulder er dercut streambank v k of vegetation, field eambank	vith erosion and	Images		2-2-	4	
Area Dimensions:     Connected to site:       Recommendations:     Vegetate shoulder, establish buffer							
Impact High Rating:	Cos	st Materials: Med	ium	Labor Cost:	Mediun	n	
Overall Cos	Medium	Comments:					
Sediment (t/yr)	1	.2 TP (kg/yr):	0.5	44			
BMP Cost Est:	\$5,000.00	BMP Annual C	\$1	00.00 10	yr cost:	\$6,000.00	
10 yr Cost for T	TP removed (\$/kg):	\$11,023.12					
Cost Determina	Vegetate/st Note: If pro	uffer on private proper abilize road shoulder operty owner stopped to grow, cost would b	= \$200 (erosion mowing to stream	control mats	and seed).	Add Record	