DUDLEY MAIN DITCH
WBID 2978

Recreational Use Attainability Analysis

May 2007

PREPARED FOR:
RFP No: B3Z07134
Water Quality Monitoring & Assessment Section
Water Protection Program
Division of Environmental Quality
MISSOURI DEPARTMENT OF NATURAL RESOURCES
301 West High Street
Jefferson City, MO 65102

PREPARED BY:
MEC WATER RESOURCES, INC.
1123 Wilkes Blvd., Ste. 400
Columbia, MO 65201

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet A - Water Body Identification

I. Water Body Information (For water body being surveyed)

Water Body Name (from USGS 7.5' quad):	Dudley Main Ditch
Missouri Water Body Identification (WBID) Number:	2978
8-digit HUC: 08020203	County: Stoddard
Upstream Legal Description (from Table H):	27, 25N, 9E
Downstream Legal Description(from Table H):	34, 25N, 9E
Number of sites evaluated	3
List all sites numbers, listed consequently upstream to downstream:	Sites - 1, 2, 3

II. Subsegmentation (fill this section out only in cases where subsegmentation is being proposed)

LOCATION COORDINATES (UNIVERSAL TRANSVERSE MERCATOR PROJECTION, IN METERS)			
Upstream Coordinates: UTM X Y		Downstream Coordinates: UTM X Y	
HORIZONTAL COLLECTION METHOD (indicate the method used to determine the locational data.)			
Global Positioning System (GPS)		Interpolation	
Static Mode		Topographic Map or DRG	
Dynamic Mode (Kinematic)		Aerial Photograph or DOQQ	
Precise Positioning Service		Satellite Imagery	
Signal Averaging		Interpolation Other	
Real Time Differential Processing			
HORIZONTAL ACCURACY ESTIMATE			
GPS Data Quality		Interpolation Data Quality	
FOM	± _____ Meters	Source Map Scale: 1:24,000 1:100,000 Other _____	
EPE	± _____ Feet or ± _____ Meters		
PDOP		± _____ Feet or ± _____ Meters	

III. Discharger Facility Information (list all permitted dischargers on the stream)

Discharger Facility Name(s):	Dexter West Lagoon
Discharger Permit Number(s):	MO 0043206

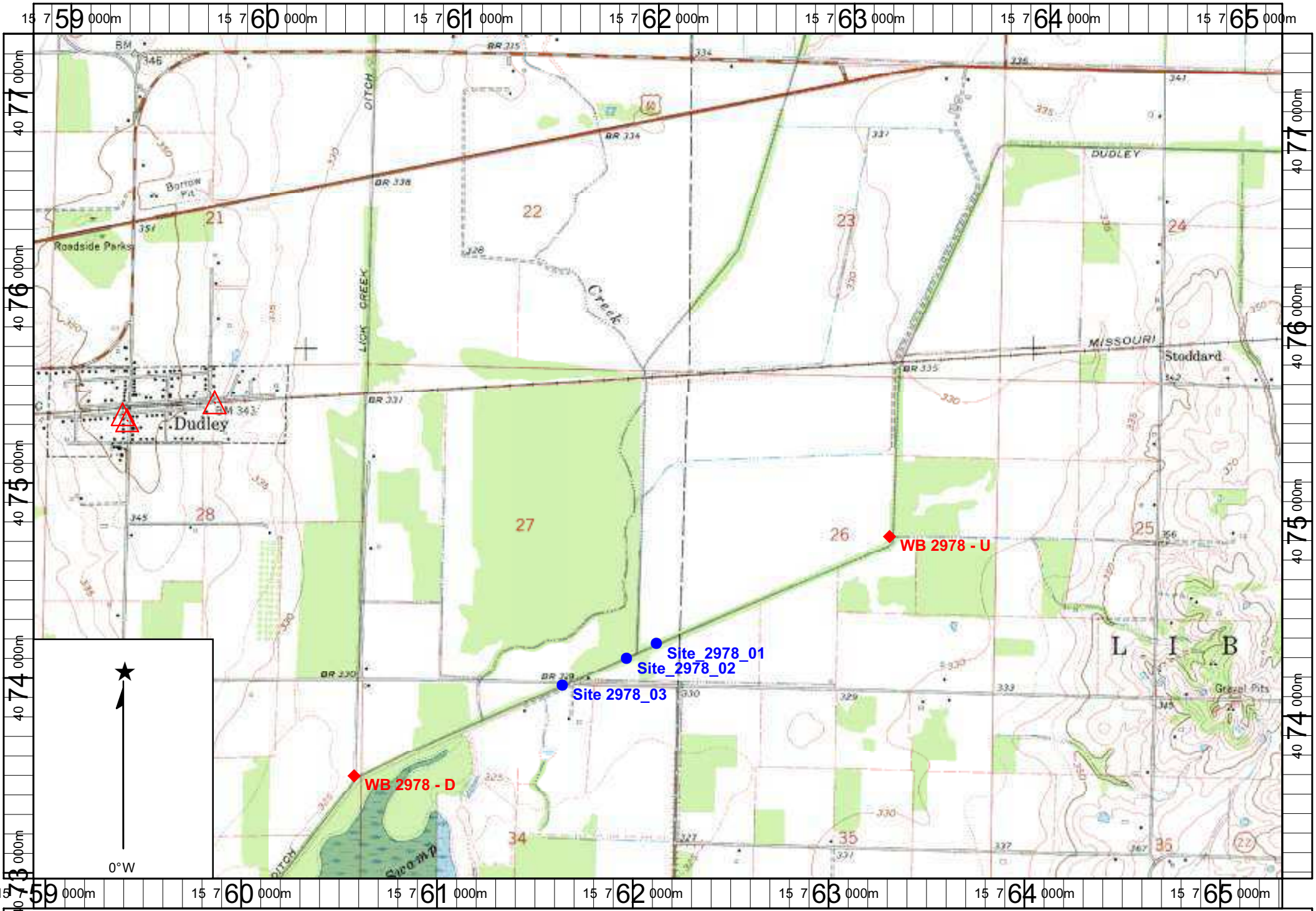
IV. UAA Surveyor (please print legibly)

Name of Surveyor: Robert Bacon	Telephone Number: (573) 634-7078
Organization/Employer: ERC	
Position: Field Manager	

Please verify that you have completed all sections, checked all applicable boxes and that everything is complete.

Signed: Robert D Bacon **Date:** 5-15-07

ORC 5-30-07



Name: DUDLEY
Date: 5/28/2007
Scale: 1 inch equals 2000 feet

Location: 15 0762061 E 4075235 N

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WBID# 2978
Site# 1

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B - Site Characterization

(must be completed for each site)

Date & Time: 05/15/07 13:29	Site Location Description (e.g., road crossing): ~400-450 meters upstream of county road 624 bridge
Personnel (Data Collectors): Abby & Bob	
Current Weather Conditions: Sunny Partly cloudy ~75°	Facility Name: Dexter West Lagoon
	Permit Number: MI0043206
Weather Conditions for Past 10 days:	
Drought Conditions?: No drought ☒; Phase I ☐; Phase II ☐; Phase III ☐; Phase IV ☐; Unknown ☐	

Site Locations:

LOCATION COORDINATES (UNIVERSAL TRANSVERSE MERCATOR PROJECTION, IN METERS)			
Site GPS Coordinates: UTM X: 15 5076202		Y: 4074247	
HORIZONTAL COLLECTION METHOD (Indicate the method used to determine the locational data.)			
Global Positioning System (GPS)		Interpolation	
Static Mode		Topographic Map or DRG	
Dynamic Mode (Kinematic)		Aerial Photograph or DOQQ	
Precise Positioning Service		Satellite Imagery	
Signal Averaging		Interpolation Other	
Real Time Differential Processing			

HORIZONTAL ACCURACY ESTIMATE		
GPS Data Quality		Interpolation Data Quality
FOM	± _____ Meters	Source Map Scale: 1:24,000 1:100,000 Other _____
EPE	± 26 Feet or ± _____ Meters	± _____ Feet or ± _____ Meters
PDOP		

Photos:

Photo ID# (WBID_Site# ##)	Photo Purpose and Direction (upstream, downstream, other)	Photo ID# (WBID_Site# ##)	Photo Purpose and Direction (upstream, downstream, other)
B26	Downstream T1	B28	Upstream T11

Uses Observed*: (Uses actually observed at time of survey.)

☐ Swimming	☐ Skin diving	☐ SCUBA diving	☐ Tubing	☐ Water skiing
☐ Wind surfing	☐ Kayaking	☐ Boating	☐ Wading	☐ Rafting
☐ Hunting	☐ Trapping	☐ Fishing	☒ None of the above	☐ Other:

Describe: (Include number of individuals recreating, photo-documentation of evidence of recreational uses, etc. Use *Data Sheet D- Recreational Use Interview* when conducting interviews.)

Surrounding Conditions*: (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

☐ City/county parks	☐ Playgrounds	☐ MDC conservation lands	☐ Urban areas	☐ Campgrounds
☐ Boating accesses	☐ State parks	☐ National forests	☐ Nature trails	☐ Stairs/walkway
☐ No trespass sign	☐ Fence	☒ Steep slopes 20-30'	☐ None of the above	☐ Other:

Comments: Farm fields

WBID# 2978
Site# 1

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B - Site Characterization

(must be completed for each site)

Indications of Human Use*: (attach photos)

☐ Roads	☐ Rope swings	☐ Foot paths/prints	☐ Dock/platform	☐ Livestock Watering	☐ RV / ATV Tracks
☐ Camping Sites		☐ Fire pit/ring	☐ NPDES Discharge	☐ Fishing Tackle	☐ Other:
Comments: NONE					

Stream Morphology:

Upstream View's Physical Descriptions: Is there any water present at this view? ☒ Yes ☐ No

If so, is there an obvious current? ☒ Yes ☐ No

Select one of the following channel features:

Channel Feature	Transect (#)	Distance from access (m)	Width (m)	Length (m)	Median Depth (m)	Max. Depth (m)
RIFFLE						
RUN						
POOL						

Downstream View's Physical Descriptions: Is there any water present at this view? ☒ Yes ☐ No

If so, is there an obvious current? ☒ Yes ☐ No

Select one of the following channel features:

Channel Feature	Distance from access (m)	Width (m)	Length (m)	Median Depth (m)	Max. Depth (m)
RIFFLE					
RUN					
POOL					

Substrate*: (These values should add up to 100%.)

% Cobble	% Gravel	15 % Sand	% Silt	85 % Mud/Clay	% Bedrock

Aquatic Vegetation*: (Note amount of vegetation or algal growth at the assessment site.)

no observed aquatic vegetation
periphyton on occasional rock, turtle & clay

Water Characteristics*: (Mark all that apply.)

ODOR:	☐ Sewage	☐ Musky	☐ Chemical	☒ None	☐ Other:
COLOR:	☐ Clear	☒ Green	☐ Gray	☐ Milky	☐ Other:
BOTTOM DEPOSIT:	☐ Sludge	☐ Solids	☐ Fine sediments	☒ None	☐ Other:
WATER SURFACE DEPOSITION:	☐ Oil	☐ Scum	☒ Foam	☐ None	☐ Other:

Comments: Please attach any additional comments to this form.

*This information is not to be used solely for removal of a recreational use designation but rather is to provide a more comprehensive understanding of water conditions. Consequently, this information is not intended to directly influence a decision on the recreation use analysis but may point to conditions that need further analysis or that affect another use.

Please verify that you have completed all sections, checked all applicable boxes and that everything is complete.

Surveyor's Signature: [signature] Date of Survey: 5/15/07

Organization: ERC Position: Field Manager

RMC 5-30-07

CD-B down 026 (01-01
up 028 (01-11

ERC Recreational Use Attainability Analysis Field Survey Sheet

Waterbody ID: 2978 Site #: 01 Dudley Main Ditch

Weather Conditions: sunny & clear ~75°F

Waypoint # 046

GPS Location:

UTM X: 15 S 0762062 UTM Y: 4074247

Horizontal Accuracy Estimate (GPS Data Quality): +/- 26 (feet)

Average Stream Width: 3.0 (meters) Length of Survey Segment: 150 (meters)

Field Staff: Abby & Bob

Water Quality Parameters

Dissolved Oxygen: 12.89 (mg/L)

Dissolved Oxygen: 189.1 (% sat)

Specific Cond: 681 (µS/cm)

Water Temperature: 31.45 (°C)

Time: 13:29

Transect Cross-Section

	01		02		03		04		05		06		07		08		09		10		11	
	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)
1	0	.01	0	01	0	.01	0	.18	0	.01	0	.04	0	.06	0	.03	0	.04	0	.01	0	.02
2	.25	.04	.23	.01	.28	.09	.27	.31	.45	.29	.4	.37	.75	.25	.6	.23	.65	.23	.59	.21	.61	.18
3	.5	.03	.46	.02	.56	.13	.54	.30	.9	.27	.8	.30	1.5	.32	1.2	.30	1.3	.22	1.18	.36	1.22	.19
4	.75	.13	.69	.01	.84	.19	.81	.32	1.35	.26	1.2	.32	2.25	.35	1.8	.33	1.95	.30	1.77	.34	1.83	.27
5	1.00	.13	.92	.08	1.12	.16	1.08	.32	1.8	.26	1.6	.30	3	.42	2.4	.37	2.6	3.3	2.36	.30	2.44	.31
6	1.25	.12	1.15	.13	1.4	.16	1.35	.32	2.25	.24	2.0	.31	3.75	.33	3.0	.34	3.25	.34	2.95	.30	3.05	.34
7	1.5	.11	1.38	.18	1.68	.18	1.62	.28	2.7	.21	2.4	.32	4.5	.26	3.6	.32	3.9	.33	3.54	.31	3.66	.25
8	1.75	.08	1.61	.15	1.96	.20	1.89	.27	3.15	.17	2.8	.31	5.25	.15	4.2	.32	4.55	.31	4.13	.33	4.27	.24
9	2.10	.09	1.84	.06	2.24	.15	2.16	.28	3.6	.15	3.2	.30	6.0	.12	4.8	.31	5.2	.29	4.72	.27	4.88	.13
10	2.25	.09	2.07	.01	2.52	.12	2.43	.27	4.05	.10	3.6	.28	6.75	.16	5.4	.30	5.85	.30	5.31	.32	5.49	.11
11	2.5	.10	2.3	.01	2.8	.01	2.7	.05	4.5	.01	4.0	.03	7.5	.12	6.0	.04	6.5	.06	5.9	.08	6.1	.02
12	2.6	0	2.6	0	4.0	0	2.76	0	4.53	0	4.05	0	7.7	0	6.3	0	6.7	0	6.1	0	6.3	0
Feature Type (riffle, run, or pool)	run		riffle		run		run		run		run		run		run		run		run		run	

Notes: Transects will be measured beginning on left descending bank and finishing on right descending bank.

GPS location corresponds to Transect 01. Transects ordered in upstream to downstream order.

Signed: [signature] Date: 05/15/07

Acc 5-30-07

WBID# 2978
Site# 2

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B - Site Characterization

(must be completed for each site)

Date & Time: 5/15/07 14:01	Site Location Description (e.g., road crossing): upstream of county road 624 bridge
Personnel (Data Collectors): Abby + Bob	Facility Name: Dexter West Lagoon
Current Weather Conditions: Sunny, Partly Cloudy 78°	Permit Number: MO 0043206
Weather Conditions for Past 10 days:	
Drought Conditions?: No drought ☒; Phase I ☐; Phase II ☐; Phase III ☐; Phase IV ☐; Unknown ☐	

Site Locations:

LOCATION COORDINATES (UNIVERSAL TRANSVERSE MERCATOR PROJECTION, IN METERS)

Site GPS Coordinates: UTM X: 15 5076193 9 Y: 4074187

HORIZONTAL COLLECTION METHOD (Indicate the method used to determine the locational data.)

Global Positioning System (GPS)		Interpolation	
Static Mode		Topographic Map or DRG	
Dynamic Mode (Kinematic)		Aerial Photograph or DOQQ	
Precise Positioning Service		Satellite Imagery	
Signal Averaging		Interpolation Other	
Real Time Differential Processing			

HORIZONTAL ACCURACY ESTIMATE

GPS Data Quality		Interpolation Data Quality
FOM	± _____ Meters	Source Map Scale: 1:24,000 1:100,000 Other _____
EPE	± 36 Feet or ± _____ Meters	± _____ Feet or ± _____ Meters
PDOP		

Photos:

Photo ID# (WBID_Site#_##)	Photo Purpose and Direction (upstream, downstream, other)	Photo ID# (WBID_Site#_##)	Photo Purpose and Direction (upstream, downstream, other)
B27	Downstream T1	B29	Upstream T1

Uses Observed*: (Uses actually observed at time of survey.)

☐ Swimming	☐ Skin diving	☐ SCUBA diving	☐ Tubing	☐ Water skiing
☐ Wind surfing	☐ Kayaking	☐ Boating	☐ Wading	☐ Rafting
☐ Hunting	☐ Trapping	☐ Fishing	☒ None of the above	☐ Other:

Describe: (Include number of individuals recreating, photo-documentation of evidence of recreational uses, etc. Use *Data Sheet D- Recreational Use Interview* when conducting interviews.)

Surrounding Conditions*: (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

☐ City/county parks	☐ Playgrounds	☐ MDC conservation lands	☐ Urban areas	☐ Campgrounds
☐ Boating accesses	☐ State parks	☐ National forests	☐ Nature trails	☐ Stairs/walkway
☐ No trespass sign	☐ Fence	☒ Steep slopes 20-30'	☐ None of the above	☐ Other:

Comments: Farm fields

WBID# 2978
Site# 2

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B - Site Characterization

(must be completed for each site)

Indications of Human Use*: (attach photos)

☐ Roads	☐ Rope swings	☐ Foot paths/prints	☐ Dock/platform	☐ Livestock Watering	☐ RV / ATV Tracks
☐ Camping Sites		☐ Fire pit/ring	☐ NPDES Discharge	☐ Fishing Tackle	☐ Other:
Comments: None					

Stream Morphology:

Upstream View's Physical Descriptions: Is there any water present at this view? ☒ Yes ☐ No

If so, is there an obvious current? ☒ Yes ☐ No

Select one of the following channel features:

Channel Feature	Transect (#)	Distance from access (m)	Width (m)	Length (m)	Median Depth (m)	Max. Depth (m)
RIFFLE						
RUN						
POOL						

Downstream View's Physical Descriptions: Is there any water present at this view? ☒ Yes ☐ No

If so, is there an obvious current? ☒ Yes ☐ No

Select one of the following channel features:

Channel Feature	Distance from access (m)	Width (m)	Length (m)	Median Depth (m)	Max. Depth (m)
RIFFLE					
RUN					
POOL					

Substrate*: (These values should add up to 100%.)

% Cobble	% Gravel	20 % Sand	% Silt	80 % Mud/Clay	% Bedrock

Aquatic Vegetation*: (Note amount of vegetation or algal growth at the assessment site.)

no observed aquatic vegetation
- periphyton covering occasional rock, turtles + carp - plankton

Water Characteristics*: (Mark all that apply.)

ODOR:	☐ Sewage	☐ Musky	☐ Chemical	☒ None	☐ Other:
COLOR:	☐ Clear	☒ Green	☐ Gray	☐ Milky	☐ Other:
BOTTOM DEPOSIT:	☐ Sludge	☐ Solids	☐ Fine sediments	☒ None	☐ Other:
WATER SURFACE DEPOSITION:	☐ Oil	☐ Scum	☒ Foam	☐ None	☐ Other:

Comments: Please attach any additional comments to this form.

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Please verify that you have completed all sections, checked all applicable boxes and that everything is complete.

Surveyor's Signature: [signature] Date of Survey: 5/15/07

Organization: ERC Position: Field Manager

Rec 5-30-07

CD-B

Pics down 027(02-01) up 029(02-11)

ERC Recreational Use Attainability Analysis Field Survey Sheet

Waterbody ID: 2978 Site #: 02

Weather Conditions: sunny w/ few clouds 78°

GPS Location:

UTM X: 15 S 07619 UTM Y: 4074187

Horizontal Accuracy Estimate (GPS Data Quality): +/- 36 (feet)

Average Stream Width: 6.0 (meters) Length of Survey Segment: 150 (meters)

Field Staff: Abby + Bob

way pt #47

Water Quality Parameters

Dissolved Oxygen: 11.39 (mg/L)

Dissolved Oxygen: 156.3 (% sat)

Specific Cond: 352 (µS/cm)

Water Temperature: 32.11 (°C)

Time: 14:01

Transect Cross-Section

	01		02		03		04		05		06		07		08		09		10		11	
	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)
1	0	.01	0	.01	0	.03	0	.02	0	.02	0	.02	0	.05	0	.02	0	.08	0	.04	0	.01
2	.77	.20	.775	.17	.61	.28	.66	.23	.72	.22	.66	.26	.815	.25	.8	.20	.79	.30	.76	.29	.9	.30
3	1.54	.21	1.55	.24	1.22	.30	1.32	.30	1.44	.29	1.32	.30	1.63	.27	1.6	.24	1.58	.30	1.52	.27	1.8	.28
4	2.31	.22	2.325	.29	1.83	.26	1.98	.27	2.16	.29	1.98	.29	2.445	.29	2.4	.30	2.37	.28	2.28	.32	2.7	.30
5	3.08	.19	3.1	.27	2.44	.23	2.64	.30	2.88	.28	2.64	.29	3.26	.31	3.2	.28	3.16	.25	3.04	.31	3.6	.27
6	3.85	.24	3.875	.24	3.05	.22	3.3	.30	3.6	.19	3.3	.25	4.076	.32	4.0	.27	3.95	.26	3.8	.34	4.5	.29
7	4.62	.20	4.65	.21	3.66	.19	3.96	.32	4.32	.24	3.96	.26	4.89	.26	4.8	.22	4.74	.31	4.56	.24	5.4	.26
8	5.39	.18	5.425	.20	4.27	.17	4.62	.27	5.04	.18	4.62	.19	5.705	.30	5.6	.25	5.53	.17	5.32	.25	6.3	.20
9	6.16	.15	6.2	.19	4.88	.11	5.28	.28	5.76	.13	5.28	.16	6.52	.23	6.4	.16	6.32	.16	6.08	.17	7.2	.15
10	6.93	.11	6.975	.13	5.49	.10	5.94	.30	6.48	.15	5.94	.15	7.335	.24	7.2	.20	7.11	.13	6.84	.19	8.1	.20
11	7.7	.01	7.75	.01	6.1	.03	6.6	.05	7.2	.05	6.6	.08	8.15	.10	8.0	.10	7.9	.23	7.6	.13	9.0	.10
12	7.85	0	7.9	0	6.3	0	6.7	0	7.4	0	6.9	0	8.3	0	8.4	0	8.2	0	7.75	0	9.1	0
Feature Type (riffle, run, or pool)	run		run		run		run		run		run		run		run		run		run		run	

Notes: Transects will be measured beginning on left descending bank and finishing on right descending bank.

GPS location corresponds to Transect 01. Transects ordered in upstream to downstream order.

GLC 5-30-07

Signed: [signature] Date: 05/15/07

WBID# 2978
Site# 3

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B - Site Characterization

(must be completed for each site)

Date & Time: 5/15/07 14:51	Site Location Description (e.g., road crossing): downstream of county rd 624
Personnel (Data Collectors): Abby + Bob	
Current Weather Conditions: Sunny, Partly cloudy ~85°F	Facility Name: Dexter West Lagoon
	Permit Number: MO 0043206
Weather Conditions for Past 10 days:	
Drought Conditions?: No drought ☒; Phase I ☐; Phase II ☐; Phase III ☐; Phase IV ☐; Unknown ☐	

Site Locations:

LOCATION COORDINATES (UNIVERSAL TRANSVERSE MERCATOR PROJECTION, IN METERS)			
Site GPS Coordinates: UTM X: 15 S 0762062 Y: 4074247			
HORIZONTAL COLLECTION METHOD (Indicate the method used to determine the locational data.)			
Global Positioning System (GPS)		Interpolation	
Static Mode		Topographic Map or DRG	
Dynamic Mode (Kinematic)		Aerial Photograph or DOQQ	
Precise Positioning Service		Satellite Imagery	
Signal Averaging		Interpolation Other	
Real Time Differential Processing			

HORIZONTAL ACCURACY ESTIMATE		
GPS Data Quality		Interpolation Data Quality
FOM	± _____ Meters	Source Map Scale: 1:24,000 1:100,000 Other _____
EPE	± 20 Feet or ± _____ Meters	± _____ Feet or ± _____ Meters
PDOP		

Photos:

Photo ID# (WBID_Site#_##)	Photo Purpose and Direction (upstream, downstream, other)	Photo ID# (WBID_Site#_##)	Photo Purpose and Direction (upstream, downstream, other)
B30	Downstream T1	B31	Upstream T1

Uses Observed*: (Uses actually observed at time of survey.)

☐ Swimming	☐ Skin diving	☐ SCUBA diving	☐ Tubing	☐ Water skiing
☐ Wind surfing	☐ Kayaking	☐ Boating	☐ Wading	☐ Rafting
☐ Hunting	☐ Trapping	☐ Fishing	☒ None of the above	☐ Other:

Describe: (Include number of individuals recreating, photo-documentation of evidence of recreational uses, etc. Use *Data Sheet D- Recreational Use Interview* when conducting interviews.)

Surrounding Conditions*: (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

☐ City/county parks	☐ Playgrounds	☐ MDC conservation lands	☐ Urban areas	☐ Campgrounds
☐ Boating accesses	☐ State parks	☐ National forests	☐ Nature trails	☐ Stairs/walkway
☐ No trespass sign	☐ Fence	☒ Steep slopes 15-25'	☐ None of the above	☐ Other:

Comments: farm fields

WBID# 2978
Site# 3

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B - Site Characterization
(must be completed for each site)

Indications of Human Use*: (attach photos)

☐ Roads	☐ Rope swings	☐ Foot paths/prints	☐ Dock/platform	☐ Livestock Watering	☐ RV / ATV Tracks
☐ Camping Sites		☐ Fire pit/ring	☐ NPDES Discharge	☐ Fishing Tackle	☐ Other:
Comments: None					

Stream Morphology:

Upstream View's Physical Descriptions: Is there any water present at this view? ☒ Yes ☐ No

If so, is there an obvious current? ☒ Yes ☐ No

Select one of the following channel features:

Channel Feature	Transect (#)	Distance from access (m)	Width (m)	Length (m)	Median Depth (m)	Max. Depth (m)
RIFFLE						
RUN						
POOL						

Downstream View's Physical Descriptions: Is there any water present at this view? ☒ Yes ☐ No

If so, is there an obvious current? ☒ Yes ☐ No

Select one of the following channel features:

Channel Feature	Distance from access (m)	Width (m)	Length (m)	Median Depth (m)	Max. Depth (m)
RIFFLE					
RUN					
POOL					

Substrate*: (These values should add up to 100%.)

% Cobble	% Gravel	20 % Sand	% Silt	80 % Mud/Clay	% Bedrock

Aquatic Vegetation*: (Note amount of vegetation or algal growth at the assessment site.)

no observed vegetation
some periphyton cover on clay + rocks

Water Characteristics*: (Mark all that apply.)

ODOR:	☐ Sewage	☐ Musky	☐ Chemical	☒ None	☐ Other:
COLOR:	☐ Clear	☒ Green	☐ Gray	☐ Milky	☐ Other:
BOTTOM DEPOSIT:	☐ Sludge	☐ Solids	☐ Fine sediments	☒ None	☐ Other:
WATER SURFACE DEPOSITION:	☐ Oil	☐ Scum	☐ Foam	☒ None	☐ Other:

Comments: Please attach any additional comments to this form.

*This information is not to be used solely for removal of a recreational use designation but rather is to provide a more comprehensive understanding of water conditions. Consequently, this information is not intended to directly influence a decision on the recreation use analysis but may point to conditions that need further analysis or that affect another use.

Please verify that you have completed all sections, checked all applicable boxes and that everything is complete.

Surveyor's Signature: [signature] Date of Survey: 5/15/07

Organization: ERC Position: Field Manager

RLC 5-30-07

CD-B

pics Dwn 030 (03-01)
up 031 (03-11)

ERC Recreational Use Attainability Analysis Field Survey Sheet

Waterbody ID: 2978 Site #: 03

Weather Conditions: sunny w/ few clouds ~85°

way pt # 45

GPS Location:
UTM X: 15 S 0761615 UTM Y: 4074040
Horizontal Accuracy Estimate (GPS Data Quality): +/- 20 (feet)

Average Stream Width: 7.5 (meters) Length of Survey Segment: 150 (meters)

Field Staff: Ahlay & Bob

Water Quality Parameters

Dissolved Oxygen: 11.3 (mg/L)

Dissolved Oxygen: 149.6 (% sat)

Specific Cond: 415 (µS/cm)

Water Temperature: 31.42 (°C)

Time: 14:51

Transect Cross-Section

	01		02		03		04		05		06		07		08		09		10		11	
	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)
1	0	.01	0	.01	0	.03	0	.04	0	.04	0	.01	0	.09	0	.03	0	.06	0	.01	0	.02
2	.73	.03	.64	.03	.86	.04	.81	.06	.77	.06	.44	.09	.38	.04	.64	.12	.745	.33	.75	.11	.79	.10
3	1.03	.09	1.28	.08	1.72	.10	1.62	.14	1.54	.11	.88	.13	.76	.07	1.28	.11	1.49	.26	1.5	.20	1.58	.22
4	1.76	.17	1.92	.09	2.58	.13	2.43	.15	2.31	.12	1.32	.09	1.14	.01	1.92	.21	2.235	.20	2.25	.29	2.37	.25
5	2.49	.35	2.56	.05	3.44	.16	3.42	.19	3.08	.12	1.76	.13	1.52	.13	2.56	.24	2.98	.21	3	.44	3.16	.33
6	3.22	.27	3.2	.02	4.3	.16	4.05	.15	3.85	.12	2.2	.13	1.9	.11	3.2	.31	3.725	.29	3.75	.42	3.95	.34
7	3.95	.28	3.84	.20	5.16	.12	4.86	.09	4.62	.12	2.64	.11	2.28	.06	3.84	.30	4.47	.42	4.5	.40	4.74	.35
8	4.68	.15	4.48	.02	6.02	.10	5.67	.10	5.39	.12	3.08	.08	2.66	.06	4.48	.24	5.215	.42	5.25	.41	5.53	.32
9	5.41	.10	5.12	.11	6.88	.10	6.48	.11	6.19	.12	3.52	.07	3.04	.08	5.12	.15	5.96	.41	6	.44	6.32	.30
10	6.14	.05	5.76	.03	7.74	.07	7.29	.08	6.93	.12	3.96	.06	3.42	.07	5.76	.19	6.705	.29	6.75	.31	7.11	.22
11	7.3	.04	6.4	.01	8.6	.02	8.1	.03	7.7	.02	4.4	.01	3.8	.02	6.4	.02	7.45	.06	7.5	.04	7.9	.02
12	7.4	0	6.6	0	8.7	0	8.3	0	7.8	0	4.8	0	3.95	0	6.6	0	7.6	0	7.7	0	8.1	0
Feature Type (riffle, run, or pool)	run		run		run		run		run		run		riffle		run		run		run		run	

Notes: Transects will be measured beginning on left descending bank and finishing on right descending bank.
GPS location corresponds to Transect 01. Transects ordered in upstream to downstream order.

RLC 5-30-07

Signed: [signature] Date: 05/15/07

WBID# 2978 Dudley Main Ditch

Site# 1 Photo ID# B26, Downstream, T1

Site# 1 Photo ID# B28, Upstream, T 11

Site# 2 Photo ID# B27, Downstream, T1

Site# 2 Photo ID# B29, Upstream, T1

WBID# 2978 Dudley Main Ditch

Site# 3 Photo ID# B30, Downstream, T1

Site# 3 Photo ID# B31, Upstream, T 11