

Use Attainability Analysis

for

WBID 1552 Cedar Creek

Submitted by

Missouri Department of Natural Resources Staff

To

Missouri Department of Natural Resources  
Water Protection Program

Date Received: September 22, 2006

**Field Data Sheets for Recreational Use Stream Suwevs**

**Data Sheet A - Water Body Identification**

Water Body Name: (from USGS 7.5' quad)	<u>Cedar Creek</u>
8-digit HUC:	<u>10290203</u>
Missouri WBID #:	<u>1552</u>
County:	<u>Bourbon</u>
Upstream Legal Description:	
Downstream Legal Description:	
Upstream Coordinates: (UGS 84, ddd.ddddd)	
Downstream Coordinates: (UGS 84, ddd.ddddd)	
Discharger Facility Name(s):	
Discharger Permit Number(s):	
Number of Sites Evaluated:	<u>3</u>
Name of Surveyor and Telephone Number:	<u>Greg Clark 873-526-1002</u>
Organization:	<u>MDNR</u>
Position:	<u>ESL</u>

**I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this U/ A datasheet is true and accurate.**

Signed: Greg Clark Date: 9-7-06

**Field Data Sheets for Recreational Use Stream Surveys**

**Data Sheet B - Site Characterization**

(A separate data sheet must be completed for each site)

EPE 9  
# of backwood  
of 16 most DS.

~~most backwood bridge~~  
~~153 top flow~~  
~~on 1/27/06~~

Missouri WBID #: 1552-01	Site Location Description: low water bridge & brick church rd.	
Site GPS Coordinates: N 38.40607 W - 091.59939		
Date & Time: 3:40 9-8-06	Facility Name:	
Personnel: moe clark	Permit Number:	
Current Weather Conditions: mostly sunny	Weather Conditions for Past 7 days:	
Photo Ids: Upstream: 178	Downstream: 177	Other: 179 + 180 - DS where 3rd creek

**Uses Observed\*:**

pic 180 + 180 see 3rd creek, above -  
cedar m. at mt. st. louis - bridge has had  
come in - only gravel - dry.

<input type="checkbox"/> Swimming	<input type="checkbox"/> Skin diving	<input type="checkbox"/> SCUBA diving	<input type="checkbox"/> Tubing	<input type="checkbox"/> Water skiing
<input type="checkbox"/> Wind surfing	<input type="checkbox"/> Kayaking	<input type="checkbox"/> Boating	<input type="checkbox"/> Wading	<input type="checkbox"/> Rafting
<input type="checkbox"/> Hunting	<input type="checkbox"/> Trapping	<input type="checkbox"/> Fishing	<input checked="" type="checkbox"/> None of the above	<input type="checkbox"/> Other:

Describe: (include number of individuals recreating, frequency of use, photo-documentation of evidence of recreational uses, etc.)

Fish in pool below bridge pool

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

<input type="checkbox"/> City/county parks	<input type="checkbox"/> Playgrounds	<input type="checkbox"/> MDC conservation lands	<input type="checkbox"/> Urban areas	<input type="checkbox"/> Campgrounds
<input type="checkbox"/> Boating accesses	<input type="checkbox"/> State parks	<input type="checkbox"/> National forests	<input type="checkbox"/> Nature trails	<input type="checkbox"/> Stairs/walkway
<input type="checkbox"/> No trespass sign	<input type="checkbox"/> Fence	<input type="checkbox"/> Steep slopes	<input checked="" type="checkbox"/> Other: rural	

**Evidence of Human Use\*:**

gravel to creek - beaver

<input checked="" type="checkbox"/> Roads	<input type="checkbox"/> Foot paths/prints	<input type="checkbox"/> Dock/platform	<input type="checkbox"/> Livestock Watering	<input type="checkbox"/> RV / ATV Tracks
<input type="checkbox"/> Rope swings	<input type="checkbox"/> Camping Sites	<input checked="" type="checkbox"/> Fire pit/ring 3	<input type="checkbox"/> NPDES Discharge	<input type="checkbox"/> Fishing Tackle
<input type="checkbox"/> Other: graffiti - looks like kids' mess in hole below low water bridge. Even egg n. sabbon.				

**Site Locations Map(s):** Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

first right part of day pool - looks like kids' mess here.

\*Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

easy to drive off 2 concrete from old bridge below sewer bridge. tracks along stream - rd. - upstream or from 2 can see

*pic 179 + 180 - gravel where 3rd creek crosses in - dry*

**Stream Morphology:**

*dry along stream pool a/cft to bridge*

*pic 178 isolated stream pool*

**Upstream View Physical Dimensions:**

<input type="checkbox"/> Riffle	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
<input type="checkbox"/> Run	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
<input checked="" type="checkbox"/> Pool	Width (ft): <u>5</u>	Length (ft): <u>1.2</u>	Avg. Depth (ft): <u>0</u>	Max. Depth (ft): <u>0.6</u>
<input type="checkbox"/> Flow Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No	Estimated (ft <sup>3</sup> /sec):		

**Downstream View Physical Dimensions:**

<input type="checkbox"/> Riffle	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
<input type="checkbox"/> Run	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
<input checked="" type="checkbox"/> Pool	Width (ft): <u>36</u>	Length (ft): <u>28</u>	Avg. Depth (ft): <u>3.0</u>	Max. Depth (ft): <u>measured</u>
<input type="checkbox"/> Flow Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No	Estimated (ft <sup>3</sup> /sec):		

*pic 177*

*measured to 4.0 probably middle*

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

*high gravel flow*

<u>15</u> % Cobble	<u>60</u> % Gravel	<u>25</u> % Sand	% Silt	% Mud/Clay	% Bedrock
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**Aquatic Vegetation\*:** (note amount of vegetation or algal growth at the assessment site)

*no obvious algae  
lots of minnows + pondweed fish 6-7"*

**Water Characteristics\*:** (Mark all that apply.)

Odor:	<input type="checkbox"/> Sewage	<input type="checkbox"/> Musky	<input type="checkbox"/> Chemical	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:
Color:	<i>very</i> <input checked="" type="checkbox"/> Clear <i>pool</i>	<input checked="" type="checkbox"/> Green <i>understep</i>	<input type="checkbox"/> Gray	<input type="checkbox"/> Milky	<input type="checkbox"/> Other:
Bottom Deposit:	<input type="checkbox"/> Sludge	<input type="checkbox"/> Solids	<input checked="" type="checkbox"/> Fine sediments	<input type="checkbox"/> None	<input type="checkbox"/> Other:
Surface Deposit:	<input type="checkbox"/> Oil	<input type="checkbox"/> Scum	<input checked="" type="checkbox"/> Foam	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:

*in 1 spot near bridge*

**Comments:** Please attach additional comments (including information from interviews) 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 effect another use.

**I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.**

Signed: *Mary Clark* Date: *9-7-06*

Organization: *M DNR* Position: *E-5*

*181 + 182 Third Cr. at Mt. Sterling rd Bridge. Just before it meets Cedar Cr.*

WBID 1552-01 – downstream



WBID 1552-01 – downstream



WBID 1552-01 – downstream



WBID 1552-01 – upstream



## Field Data Sheets for Recreational Use Stream Surveys

### Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

*EPE 8*

Missouri WBID #: <i>1552-02</i>	Site Location Description:	
Site GPS Coordinates: <i>N 38,39641 / W 091.58647</i>	<i>Sheet rd low water bridge near Cr.</i>	
Date & Time: <i>3:10 9-7-06</i>	Facility Name:	
Personnel: <i>Mary Clark</i>	Permit Number:	
Current Weather Conditions: <i>mostly cldy</i>	Weather Conditions for Past 7 days:	
Photo Ids: Upstream:	Downstream:	Other:

#### Uses Observed\*:

<input type="checkbox"/> Swimming	<input type="checkbox"/> Skin diving	<input type="checkbox"/> SCUBA diving	<input type="checkbox"/> Tubing	<input type="checkbox"/> Water skiing
<input type="checkbox"/> Wind surfing	<input type="checkbox"/> Kayaking	<input type="checkbox"/> Boating	<input type="checkbox"/> Wading	<input type="checkbox"/> Rafting
<input type="checkbox"/> Hunting	<input type="checkbox"/> Trapping	<input type="checkbox"/> Fishing	<input checked="" type="checkbox"/> None of the above	<input type="checkbox"/> Other:
Describe: (include number of individuals recreating, frequency of use, photo-documentation of evidence of recreational uses, etc.)				

#### Surrounding Conditions\*:

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

<input type="checkbox"/> City/county parks	<input type="checkbox"/> Playgrounds	<input type="checkbox"/> MDC conservation lands	<input type="checkbox"/> Urban areas	<input type="checkbox"/> Campgrounds
<input type="checkbox"/> Boating accesses	<input type="checkbox"/> State parks	<input type="checkbox"/> National forests	<input type="checkbox"/> Nature trails	<input type="checkbox"/> Stairs/walkway
<input type="checkbox"/> No trespass sign	<input type="checkbox"/> Fence	<input type="checkbox"/> Steep slopes	<input checked="" type="checkbox"/> Other: <i>rural setting</i>	

#### Evidence of Human Use\*:

<input checked="" type="checkbox"/> Roads	<input type="checkbox"/> Foot paths/prints	<input type="checkbox"/> Dock/platform	<input checked="" type="checkbox"/> Livestock Watering	<input type="checkbox"/> RV / A N Tracks
<input type="checkbox"/> Rope swings	<input type="checkbox"/> Camping Sites	<input type="checkbox"/> Fire pit/ring	<input type="checkbox"/> NPDES Discharge	<input type="checkbox"/> Fishing Tackle
<input type="checkbox"/> Other:				

#### Site Locations Map(s):

Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

\*Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

Page Two - Data Sheet B for WBID # 152-02 :

*pic 174 floating algae DS*

Stream Morphology: *no bridge only isolated pool*

Upstream View Physical Dimensions:

<input type="checkbox"/> Riffle	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
<input type="checkbox"/> Run	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
<input checked="" type="checkbox"/> Pool <i>DS</i>	Width (ft): <i>35 DS</i>	Length (ft): <i>52 DS</i>	Avg. Depth (ft):	Max. Depth (ft): <i>23.0 DS</i>
<input type="checkbox"/> Flow Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Estimated (ft <sup>3</sup> /sec):		



Downstream View Physical Dimensions:

<input checked="" type="checkbox"/> Riffle	Width (ft): <i>10</i>	Length (ft): <i>40</i>	Avg. Depth (ft): <i>0.14</i>	Max. Depth (ft): <i>0.2</i>
<input type="checkbox"/> Run	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
<input checked="" type="checkbox"/> Pool <i>DS stagnant</i>	Width (ft): <i>7 US</i>	Length (ft): <i>55 US</i>	Avg. Depth (ft): <i>0.35 DS</i>	Max. Depth (ft): <i>0.5 US</i>
<input type="checkbox"/> Flow Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Estimated (ft <sup>3</sup> /sec): <i>vel of riffle 5' is 9 sec</i>		

*0.5, 0.45, 0.15, 0.4, 0.35, 0.3, 0.3, 0.3, 0.25, 0.2*  
*0.2, 0.2, 0.15, 0.1, 0.1, 0.15*

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

% Cobble	<i>45</i>	% Gravel		% Sand	<i>10</i>	% Silt		% Mud/Clay		% Bedrock	<i>0.1</i>
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Aquatic Vegetation\*: (note amount of vegetation or algal growth at the assessment site)

*75% a pool below bridge is mostly w/ floating algae - no life*  
*DS totally free of filamentous algae further DS right bank (5 miles in uple) DS upper down only algae on rock not floating.*

Water Characteristics\*: (Mark all that apply.)

Odor:	<input type="checkbox"/> Sewage	<input type="checkbox"/> Musky	<input type="checkbox"/> Chemical	<input type="checkbox"/> None	<input type="checkbox"/> Other: <i>musty smell</i>
Color:	<input checked="" type="checkbox"/> Clear <i>DS in riffle</i>	<input checked="" type="checkbox"/> Green <i>murky in pool</i>	<input type="checkbox"/> Gray	<input type="checkbox"/> Milky	<input type="checkbox"/> Other:
Bottom Deposit:	<input type="checkbox"/> Sludge	<input type="checkbox"/> Solids	<input type="checkbox"/> Fine sediments	<input checked="" type="checkbox"/> None <i>in riffle</i>	<input type="checkbox"/> Other:
Surface Deposit:	<input type="checkbox"/> Oil	<input type="checkbox"/> Scum	<input type="checkbox"/> Foam	<input type="checkbox"/> None	<input checked="" type="checkbox"/> Other: <i>algae</i>

Comments: Please attach additional comments (including information from interviews) to this form.

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I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed: *May Clark* Date: *9-7-06*

Organization: *MDNR* Position: *ESHA*

*Horse shoe rocks on rd*

WBID 1552-01 – upstream



WBID 1552-01 – upstream



WBID 1552-02 – downstream



WBID 1552-02 – downstream



WBID 1552-02 – downstream



WBID 1552-02 – upstream



*pic of cows in creek 172  
 separator # 7  
 cows past fence on creek of no fence of creek.*

*pool 169  
 us dry bed 170*

**Field Data Sheets for Recreational Use Stream Surveys**

*EPE 5*

**Data Sheet B - Site Characterization**

(A separate data sheet must be completed for each site)

Missouri WBID #: <i>1552-03-091</i>	Site Location Description: <i>low water bridge on schockley rd 0.5 mi bridge</i>	
Site GPS Coordinates: <i>N 38.38728° / W 91.57374</i>		
Date & Time: <i>2:20 9-8-06</i>	Facility Name:	
Personnel: <i>Mary Clark</i>	Permit Number:	
Current Weather Conditions: <i>ptly cldy</i>	Weather Conditions for Past 7 days:	
Photo Ids: Upstream:	Downstream:	Other:

**Uses Observed\*:**

<input type="checkbox"/> Swimming	<input type="checkbox"/> Slun diving	<input type="checkbox"/> SCUBA diving	<input type="checkbox"/> Tubing	<input type="checkbox"/> Water skiing
<input type="checkbox"/> Wind surfing	<input type="checkbox"/> Kayaking	<input type="checkbox"/> Boating	<input type="checkbox"/> Wading	<input type="checkbox"/> Rafting
<input type="checkbox"/> Hunting	<input type="checkbox"/> Trapping	<input type="checkbox"/> Fishing	<input checked="" type="checkbox"/> None of the above	<input type="checkbox"/> Other:
Describe: (include number of individuals recreating, frequency of use, photo-documentation of evidence of recreational uses, etc.)				

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

<input type="checkbox"/> City/county parks	<input type="checkbox"/> Playgrounds	<input type="checkbox"/> MDC conservation lands	<input type="checkbox"/> Urban areas	<input type="checkbox"/> Campgrounds
<input type="checkbox"/> Boating accesses	<input type="checkbox"/> State parks	<input type="checkbox"/> National forests	<input type="checkbox"/> Nature trails	<input type="checkbox"/> Stairs/walkway
<input checked="" type="checkbox"/> (3) No trespass sign	<input checked="" type="checkbox"/> Fence	<input type="checkbox"/> Steep slopes	C Ocher:	

**Evidence of Human Use\*:**

<input checked="" type="checkbox"/> Roads	<input type="checkbox"/> Foot paths/prints	<input type="checkbox"/> Dock/platform	<input checked="" type="checkbox"/> Livestock Watering	<input type="checkbox"/> RV I ATV Tracks
<input type="checkbox"/> Rope swings	<input type="checkbox"/> Camping Sites	<input type="checkbox"/> Fire pit/ring	<input type="checkbox"/> NPDES Discharge	<input type="checkbox"/> Fishing Tackle
<input type="checkbox"/> Other: <i>low water bridge</i>				

**Site Locations Map(s):** Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

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WBID 1552-03 – cows



WBID 1552-03 – downstream



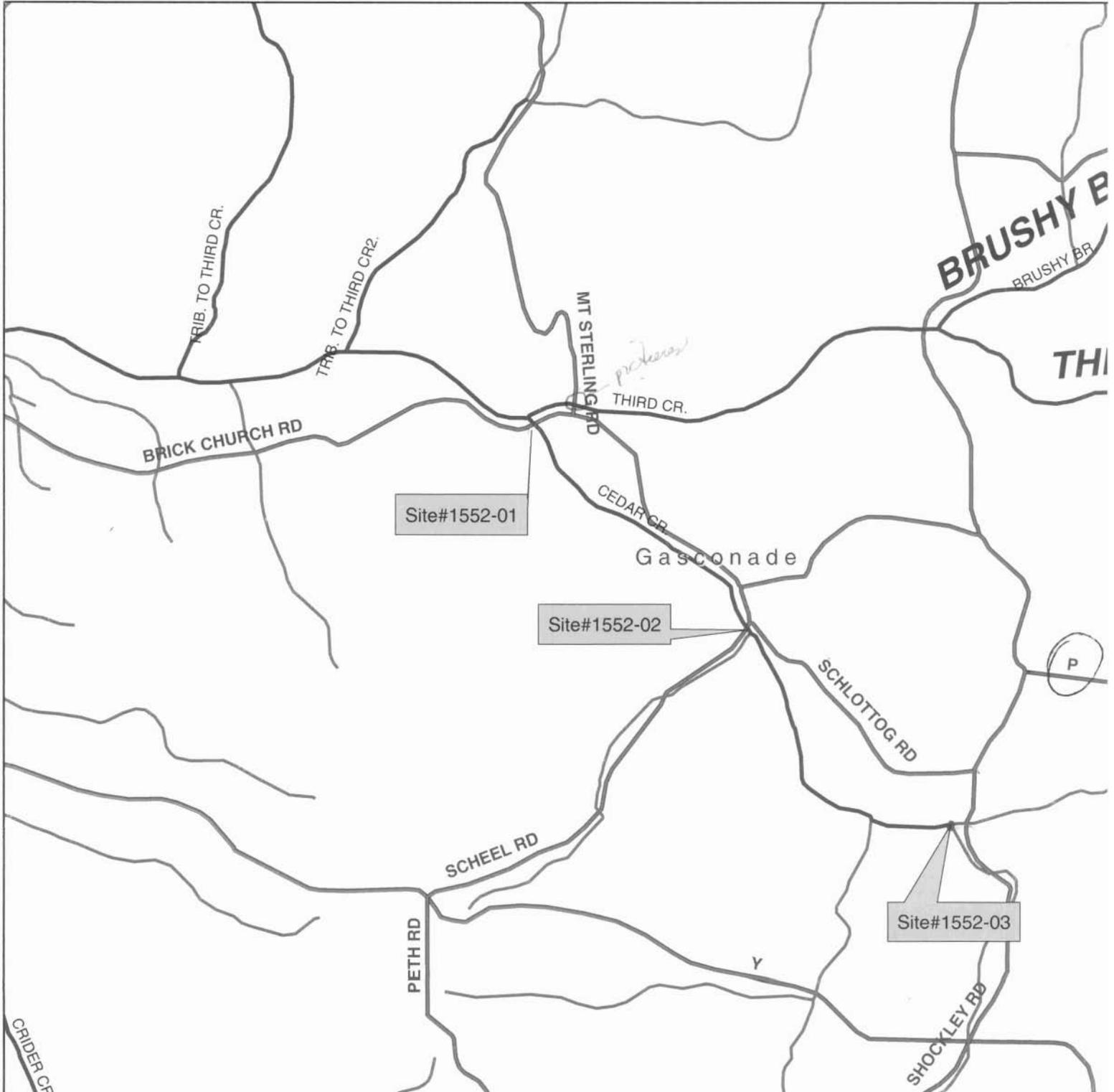
WBID 1552-03 – downstream

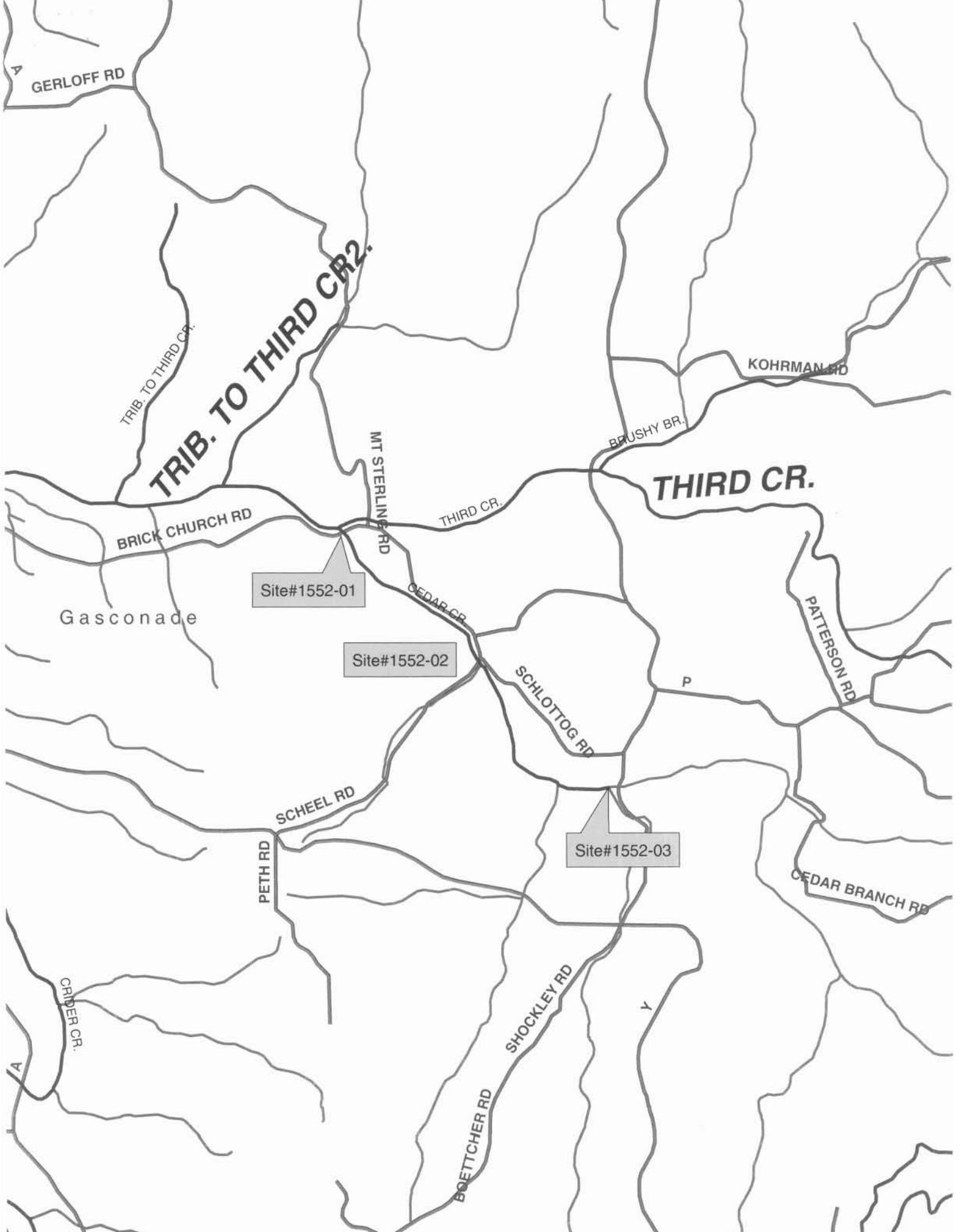


WBID 1552-03 – upstream



# Cedar Creek -WBID 1552 (C - 2 miles) - Gasconade Cour





GERLOFF RD

TRIB. TO THIRD CR.

TRIB. TO THIRD CR2.

KOHRMAN RD

BRUSHY BR.

THIRD CR.

BRICK CHURCH RD

THIRD CR.

MT STERLING RD

Gasconade

Site#1552-01

CEDAR CR.

Site#1552-02

SCHLOTTOG RD

P

PATTERSON RD

SCHEEL RD

Site#1552-03

CEDAR BRANCH RD

PETH RD

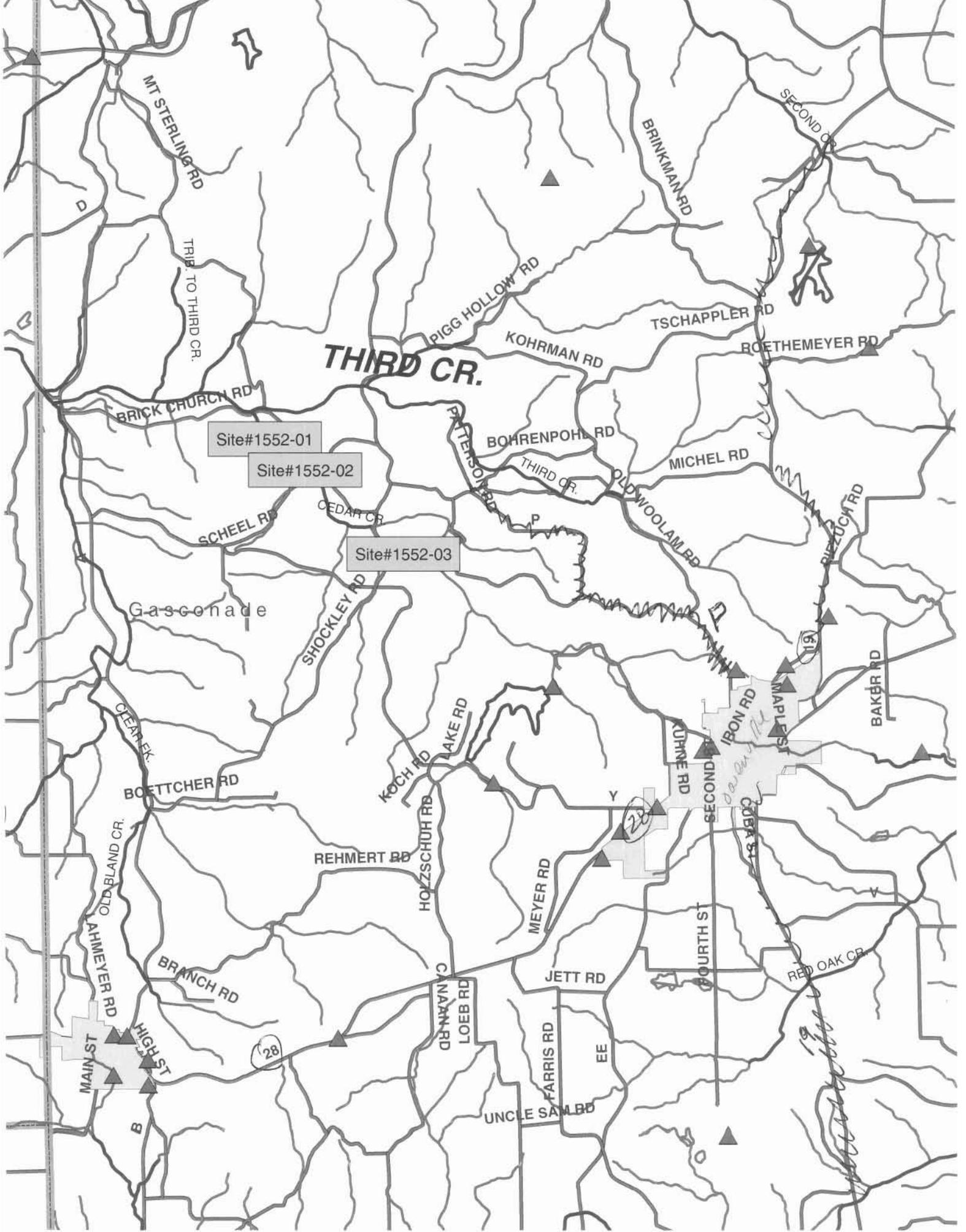
CRIDER CR.

SHOCKLEY RD

Y

BOETTCHER RD

A



MT STERLING RD

TRIP TO THIRD CR.

**THIRD CR.**

Site#1552-01

Site#1552-02

Site#1552-03

Gasconade

CREAK

BOETTCHER RD

OLD BLAND CR.

AHMEYER RD

BRANCH RD

HIGH ST

MAIN ST

B

28

REHMERT RD

HOLZSCHUH RD

LAKE RD

KOCH RD

SHOCKLEY RD

CEDAR CR

CANAN RD

LOEB RD

UNCLE SAM RD

FARRIS RD

JETT RD

MEYER RD

ADINE RD

SECOND

IRON RD

MAPLE ST

COBA ST

FOURTH ST

RED OAK CR

BAKER RD

RUEZUCH RD

MICHEL RD

TSCHAPPLER RD

ROETHEMEYER RD

KOHRMAN RD

PIGG HOLLOW RD

BRINKMAN RD

SECOND CR



28

Y

EE

*Handwritten note:* 1000 ft