53532

CD 39 REV. 374

Olin CHEMICALS

JOB NO.

LOCATION SALTVILLE

SUBJECT DATA FOR SEPT, 1978

PAGE 1

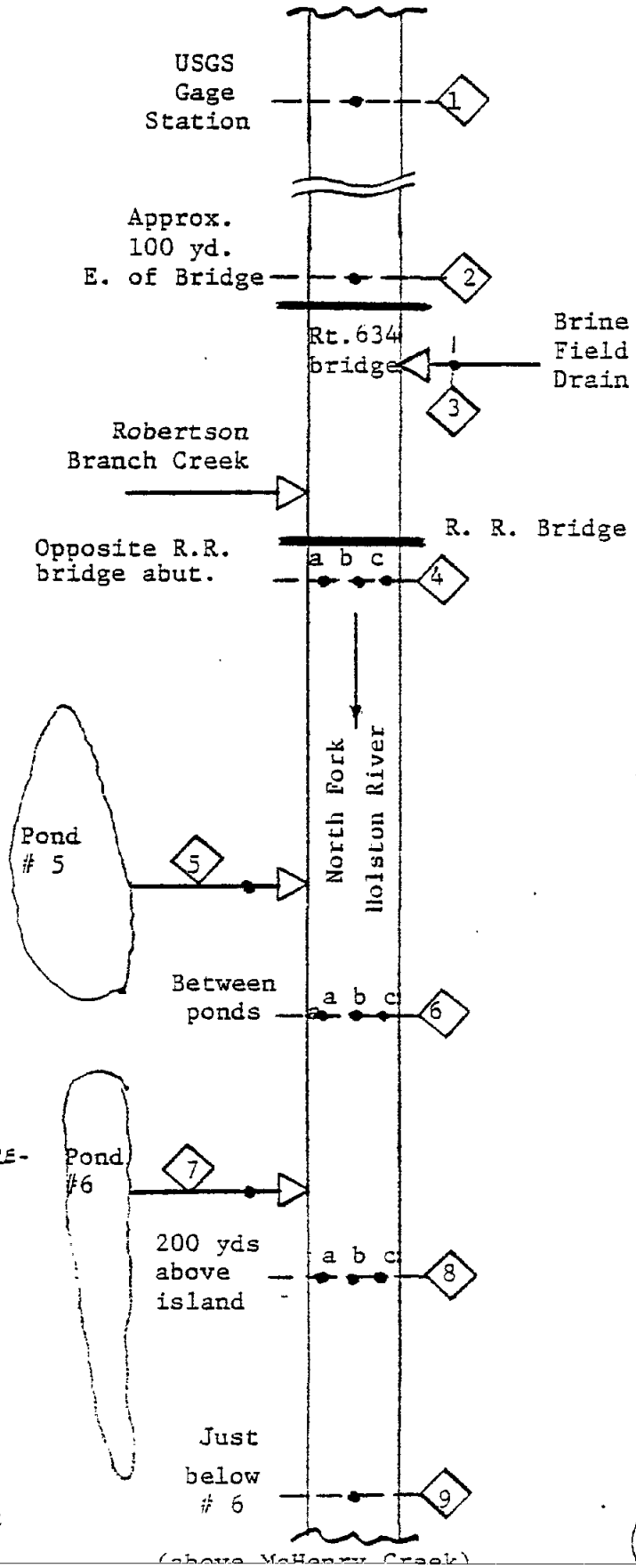
DATE 9/19-20/78

BY JCB

MASS BALANCE STUDY DATA

River Samples	Flow, cfs	TDS, mg/l	Cl^-, mg/l	Tot. Hg, ug/l	MeHg, ug/l
1	41	132	0.29		—
2	33 ②	132	6.16		—
4a	12 ①	370	107		<0.0005
4b	19 ①	614	193		<0.0005
4c	9 ①	694	239		<0.0005
6a	3 ①	798	281		—
6b	18 ①	836	295		—
6c	23 ①	801	313		—
8a	20 ①	820	284		—
8b	13 ①	818	284		—
8c	11 ①	804	248		—
9	54	1542	587		<0.0005
Pond Outfalls					
5	0.025	46,112	14,233		—
9	0.0044	14,081	4849		—
Brine Field					
3	2.4	6583	2857		<0.0005
Others					

Hg WERE CONTAMINATED FOR BOTTLES SAMPLE



Comments

1. PRORATED FLOW BASED ON TRAVERSE MEASUREMENTS ACROSS THE RIVER.
2. FLOW SUSPECT DUE TO RIVER BOTTOM IRREGULARITIES.

LEGEND

● - Sample point in river

◇ - Flow tranverse number

---- Point of flow measurement

CD 35 REV. 174

Olin CHEMICALS

JOB NO. _____

LOCATION SALTVILLE

SUBJECT DATA FOR OCT, 1978

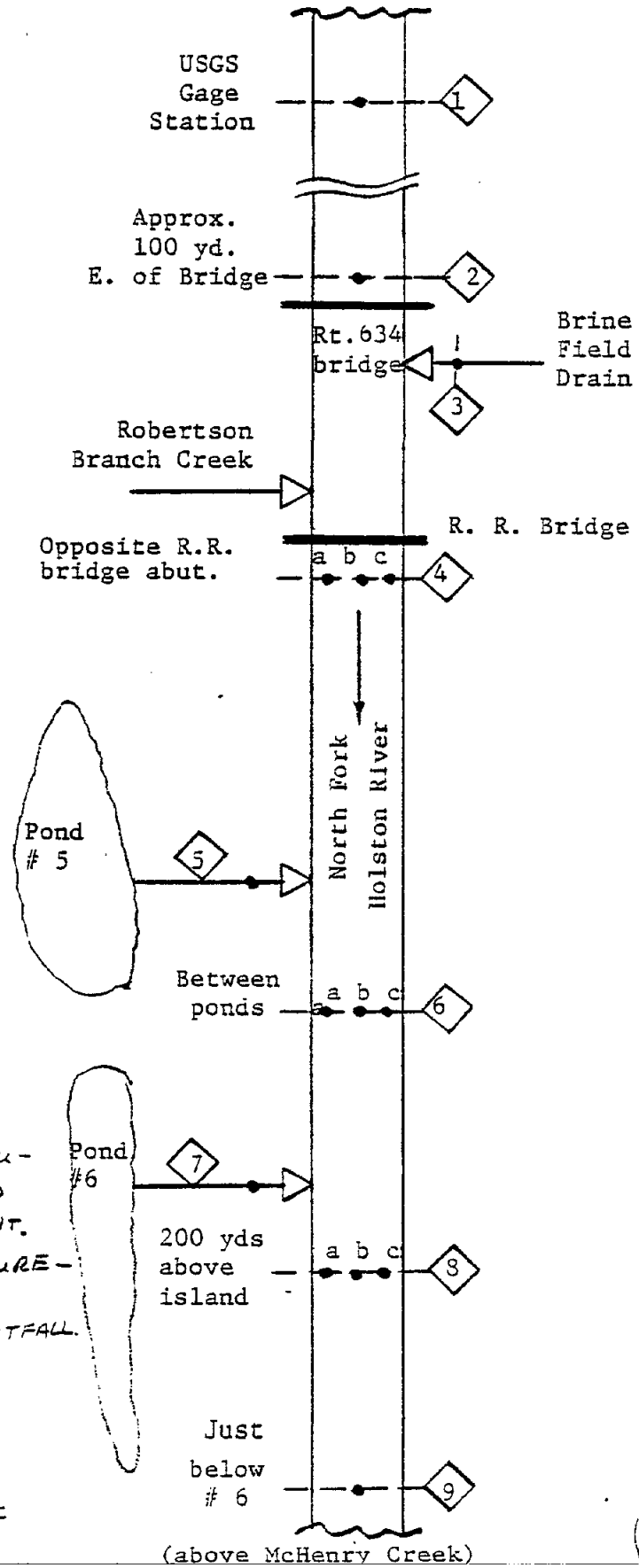
PAGE 2

DATE 10/16-17/78

BY VCB

MASS BALANCE STUDY DATA

River Samples	Flow, cfs	TDS, mg/l	Cl⁻, mg/l	Tot. Hg, ug/l	MeHg, ug/l
1	53	174	4.5	<0.02	–
2	43 (1)	164	9.2	<0.02	–
4a	10 (2)	173	37.6	<0.02	<0.0005
4b	21 (2)	380	147	0.39	<0.0005
4c	8 (2)	454	175	0.11	<0.0005
6a	2 (3)	503	226	0.20 (3)	–
6b	18 (2)	523	206	0.25 (3)	–
6c	21 (2)	526	194	0.20 (3)	–
8a	16 (2)	581	217	<0.02	–
8b	14 (2)	577	212	<0.02	–
8c	10 (2)	605	207	<0.02	–
9	43	928	376	<0.02	<0.0005
Pond Outfalls					
5	0.017	34,174	18,722	29.5	–
7	0.0026	12,030	6100	<0.02	–
Brine Field					
3	2.4	4964	2517	<0.02	<0.0005
Others					



Comments

1. FLOW SUSPECT DUE TO RIVER BOTTOM IRREGULARITIES. SAMPLE POINT WILL BE CHANGED SLIGHTLY TO IMPROVE FLOW MEASUREMENT.
2. PRORATED FLOW BASED ON TRAVERSE MEASUREMENTS ACROSS THE RIVER.
3. WITHIN THE MIXING ZONE OF POND 5 OUTFALL.

LEGEND

- ● – Sample point in river
- ◇ – Flow tranverse number
- ---- Point of flow measurement

CD35 REV. 3/74

Olin CHEMICALS

JOB NO. _____

LOCATION SALTVILLE

SUBJECT DATA FOR DEC, 1978

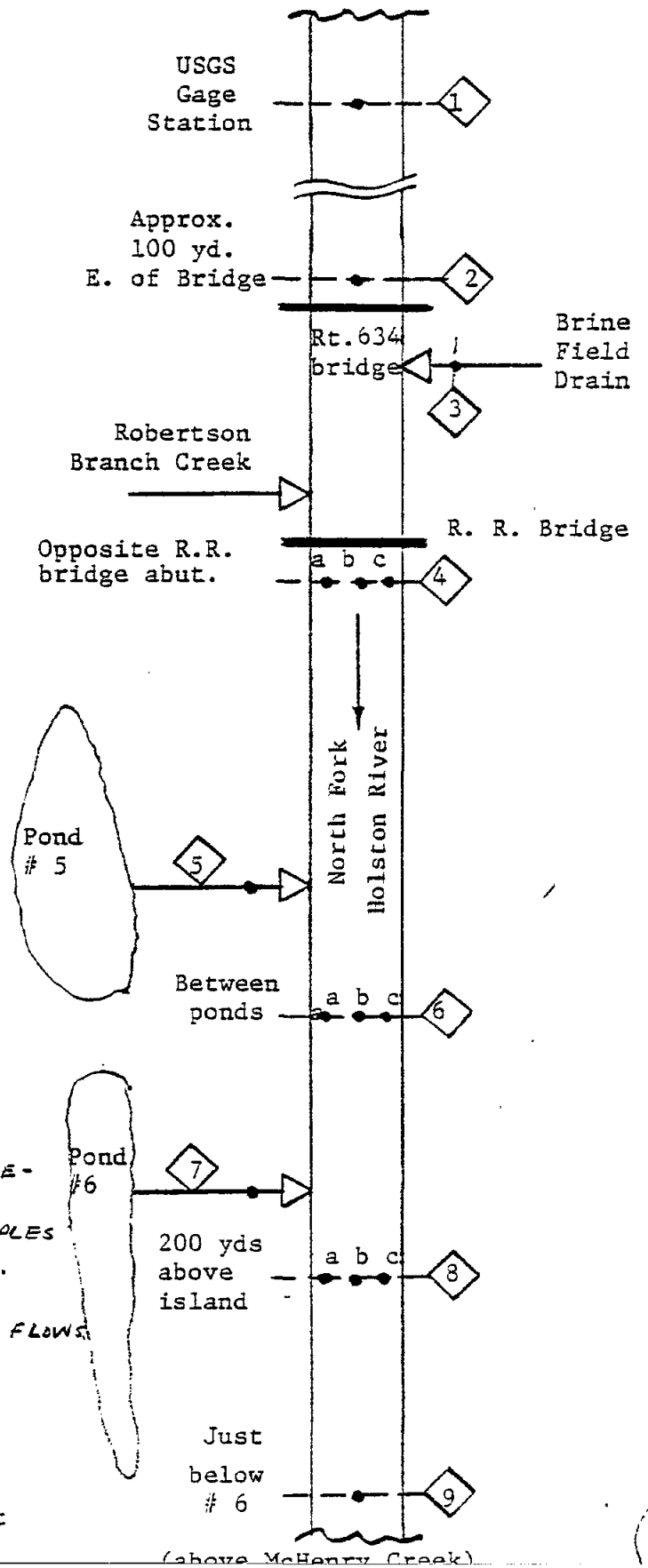
PAGE 3

DATE 12/18-19/78

BY JCB

MASS BALANCE STUDY DATA

River Samples	Flow, cfs	TDS, mg/l	Cl^-, mg/l	Tot. Hg, ug/l	MeHg, ug/l
1	113	59	3.4	<0.02	
2	109	77	6.0	<0.02	<0.012
4a	25 ①	68	7.8	<0.02	<0.012
4b	42 ①	273	82.0	<0.02	<0.012
4c	13 ①	447	179.8	<0.02	<0.012
6a	5 ①②	324	168.8	<0.02	
6b	34 ①②	369	130.5	<0.02	
6c	61 ①②	369	107.4	<0.02	
8a	34 ①②	378	132.0	0.16	
	41 ①②	371	111.3	0.09	
8c	33 ①②	400	111.3	<0.02	
9	102 ②	617	205.4	<0.02	<0.012
Pond Outfalls					
5	0.012	25,830	11,790	106.5	
7	0.008	22,170	12,220	<0.02	
Brine Field					
3	2.7	5438	2796	<0.02	
Others					



Comments

1. PRORATED FLOW BASED ON TRAVERSE MEASUREMENTS ACROSS THE RIVER.
2. PARAMETER CONCENTRATIONS BASED ON SAMPLES CAUGHT DAY AFTER FLOW MEASUREMENTS. STA. 1 FLOW 100 CFS @ SAMPLING TIME. MASS BALANCE CALC. BASED ON MEASURED FLOWS.

LEGEND

- ● - Sample point in river
- ◇ - Flow tranverse number
- ---- Point of flow measurement

CD 35 REV. 3/74

Olin CHEMICALS

JOB NO.

LOCATION SALTVILLE

SUBJECT DATA FOR FEB., 1979

PAGE 4

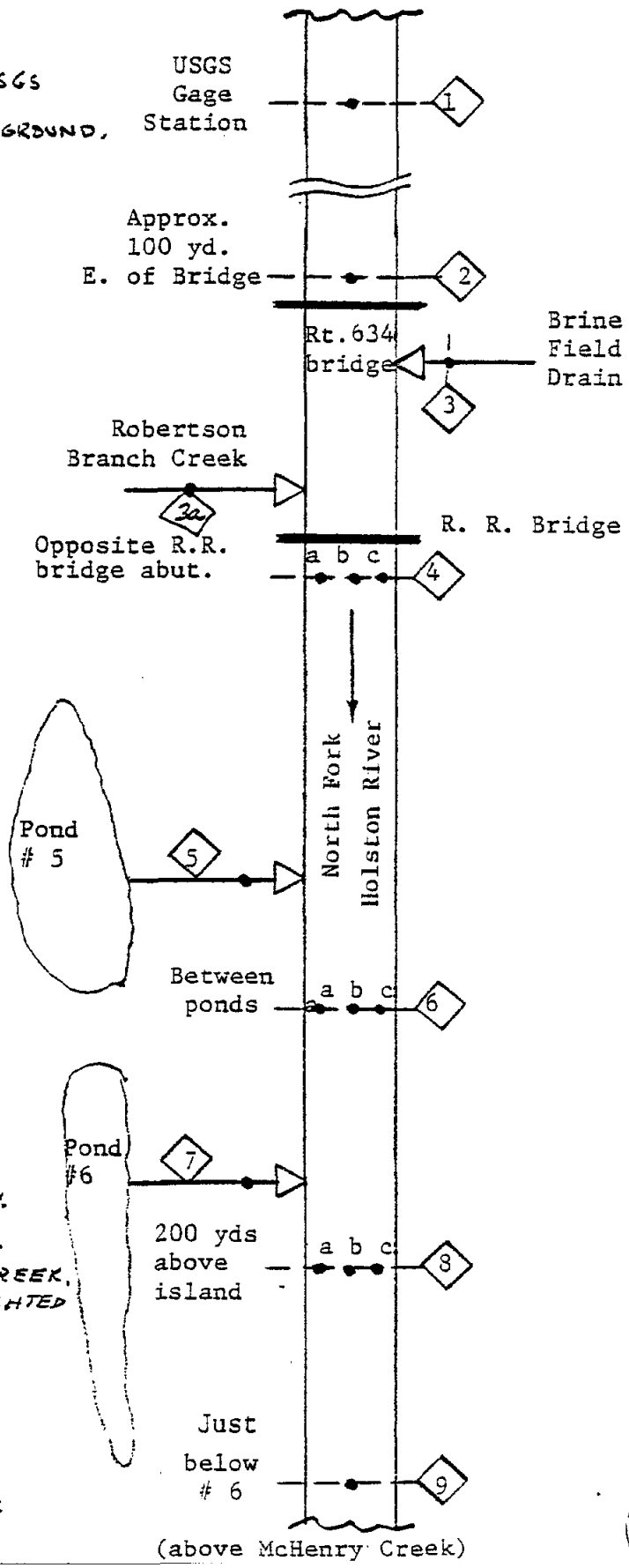
DATE 2/1-2/79

BY JCB

MASS BALANCE STUDY DATA

River Samples	Flow, cfs	TDS, mg/l	Cl^-, mg/l	Tot. Hg, ug/l	MeHg, ug/l
1	FOR REMAINDER OF PROGRAM, FLOW @ USGS WILL BE USED. SAMPLING ELIMINATE @ POINT 1. POINT 2 WILL BE USED FOR BACKGROUND.				
2	245 (2)	97	3.21	<0.02	
4a	77 (2)(4)	109	6.67	<0.02	
4b	– (4)	–	–	–	
4c	– (4)	–	–	–	
6a	8 (2)	591	291	2.00	
6b	116 (2)	419	172	0.12	
6c	146 (2)	365	150	<0.02	
8a	85 (2)	340	131	<0.02	
8b	119 (2)	354	138	<0.02	
	72 (2)	374	136	<0.02	
9	282	484	198	<0.02	
Pond Outfalls					
5	0.4	11,615	5878	172.5	
7	1.0	6,797	3242	<0.02	
Brine Field					
3	8	5876	3112	<0.02	
Others					
3A (2)	8	–	–	–	

MeHg ANALYSIS DELETED. ALL TO DATE < DETECT.



Comments

1. PRORATED BASED ON TRAVERSE.
2. RIVER TOO HIGH TO BE MEASURED SAFELY. NOTED VALUES CALC. FROM USGS READING.
3. NEW SAMPLE POINT @ ROBERTSON BRANCH CREEK.
4. COULD NOT SAMPLE @ 4b & 4c. FLOW WEIGHTED PAST MEASUREMENTS.

LEGEND

- ● – Sample point in river
- ◇ – Flow tranverse number
- ---- Point of flow measurement

Olin CHEMICALS

JOB NO.
LOCATION SALTVILLE
SUBJECT DATA FOR MAR. 1979

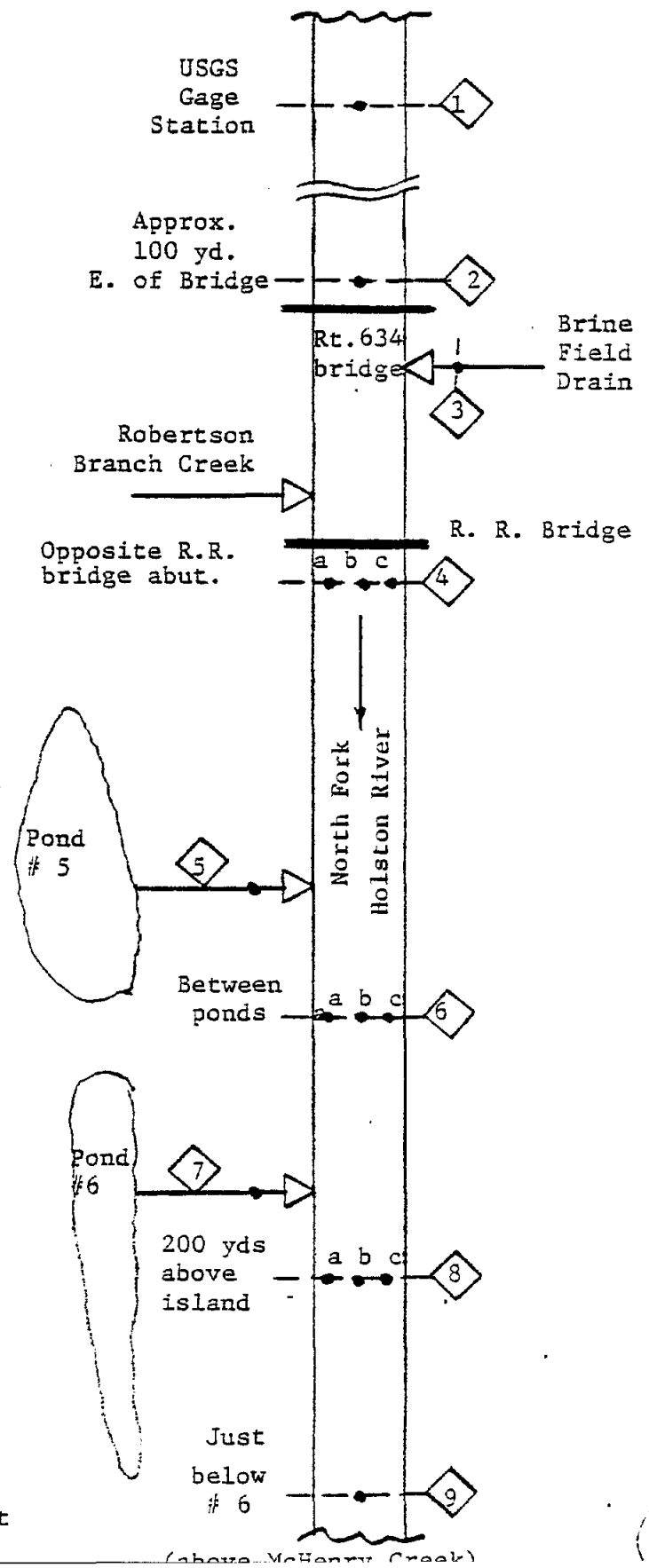
PAGE 5
DATE 3/15-16/79
BY JCB

MASS BALANCE STUDY DATA

River Samples	Flow,③ cfs	TDS, mg/l	Cl⁻, mg/l	Tot. Hg, ug/l	MeHg, ug/l
1					
2	395	134	3.06	<0.02	
4a	130①	70	4.65	<0.02	
4b	221②	–①	–①	–①	
4c	67②	681	270	<0.02	
6a	13②	382	158	<0.02	
6b	184②	341	129	<0.02	
6c	230②	320	136	<0.02	
8a	134②	286	112	<0.02	
8b	185②	310	123	<0.02	
8c	112②	340	130	<0.02	
9 a	116②	498	206	<0.02	
9 b	200②	399	158	<0.02	
9 c	120②	398	156	<0.02	
Pond Outfalls					
5	0.34	9943	4911	114.0	
7	0.54	5609	2596	<0.02	
Brine Field					
3	9	9998	5187	<0.02	
Others					
3A	–	–	–	–	

DELETED

PARAMETER



Comments

1. WATER TO HIGH TO SAMPLE.
2. PRORATED FROM TRAVERSE.
3. ALL FLOWS BASED ON USGS GAGA STA. CORRECTED FOR DRAINAGE AREA (EXCEPT STA. 3, 5, AND 7.).

LEGEND

● - Sample point in river
◇ - Flow tranverse number
---- Point of flow measurement