40025058
SUPERFUND RECORDS

WESTON·SPER
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TECHNICAL ASSISTANCE TEAM FOR EMERGENCY RESPONSE REMOVAL AND PREVENTION
EPA CONTRACT 68-01-6669

Site: Rose Chem
ID #: MOD980633069
Break: 1.3
Other: Weston-Sper
1-17-86

TO: Ron McCutcheon, EP&R/ENSV — January 17, 1986

THRU: RLS Robert L. Sholar, Region VII TATL — TAT-07-F-01334

FROM: Michael G. Clemons, Region VII TATM — TDD #07-8601-05

SUBJECT: Investigation of PCB Spill at Rose Chemical, Holden, Missouri — PCS #5146

At 1348 hours on January 6, 1986, the Region VII Technical Assistance Team (TAT) member Mike Clemons was tasked to accompany EP&R to Holden, Missouri to investigate a reported PCB spill. Earlier in the day, the Mayor of the City of Holden had called Bill Landis at the EPA Regional Office to report a suspected PCB containing oil leaking from a tanker truck on the property of the PCB Division of Rose Chemicals and requested an investigation.

Mac Castor, EPA/EP&R, and Mike Clemons (TAT) arrived at the Rose Chemical facility in Holden, Missouri at 1548 hours. Upon arrival at the scene, the responders viewed excavation cleanup activity occurring in the south parking lot. Upon entering the facility property, the plant management was sought. Conversations with Executive Vice President James Carolan, Director of Research and Development Dwight Thomas, and Plant Manager Pat Perrin revealed the following scenario of the spill situation:

> A tanker truck containing PCB contaminated transformer oil had been emptied (the Rose Chemical Company has a process to detoxify PCB contaminated oil). After the tanker truck had been off-loaded, the empty tanker was parked in the graveled south parking lot. Sometime over the weekend of January 4-5, 1986, the belly drain valve on the tank truck apparently cracked, allowing the residual oil contained in the drain system to leak onto the frozen ground. When the leak was noticed on Monday morning, the tanker was transported to the dike protected off-loading bays and the cleanup of the spill area was instituted. Approximately 10-15 gallons were spilled. None of the material had reached the nearby creek on the west boundary of the plant property. Mr. Thomas anticipated excavating approximately 24 cubic yards of earth during the cleanup and either transporting the material to U.S. Ecology or ESI for disposal. Total PCBs in the oil was 126 ppm, of which 118 ppm were Arochlor 1260 and 9 ppm were Arochlor 1242.

After being satisfied that the cleanup was proceeding smoothly and effectively, and there was neither a threat to the public or the environment, Castor granted Channel 4 News, Kansas City, Missouri NBC affiliate, an

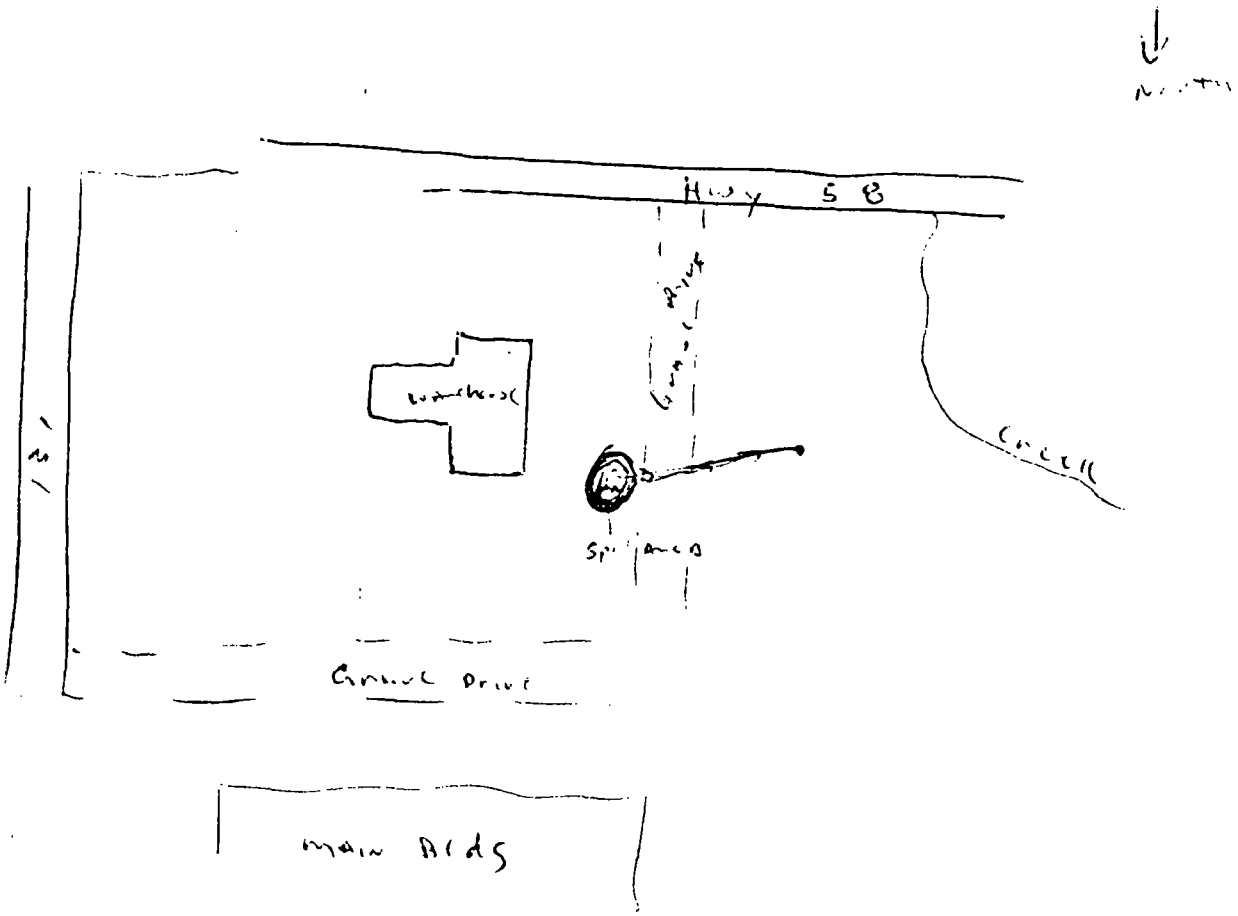
interview. The TAT recommended a certification sampling plan for the area after the excavation was completed. Excavation depth ranged from 6-12 inches over the spill area, and there was no evidence of the spill entering into the creek.. The reportable quantity (RQ) for PCBs as listed in 40 CFR 302.4 is 10 pounds. The spill of 10-15 gallons of oil contaminated at 127 ppm did not approach the RQ. The responders left the scene at 1708 hours.

On January 7, 1986, Rose Chemicals was informed that the required cleanup level was 2 ppm, after conferring with the Toxics and Pesticides (TOPE) branch of EPA. Rose Chemicals reported on January 8, 1986 that their analysis after excavation revealed no levels greater than 0.7 ppm.

Michael G. Clemons

MICHAEL G. CLEMONS
Region VII TATM

MGC/cm



TO: File
FROM: Steven R. Kay
DATE: May 19, 1986
Subject: Oil Spill at Rose Chemicals Site

Spill first reported to ETI on Tuesday May 13 at approximately 1430 hours by Pat Perrin to Ken Kulinowski. Apparently some 200-300 gallons of treated oil had leaked onto the ground from a tank trailer parked at the loading dock in bay area #1. The torrential rain which had been falling over the previous three days had washed the oil into the berm area immediately below the dock area which encompasses all of the dock area tankage.

First indications were that all spillage and surface runoff were contained within the berm and thus first line efforts were to contain all materials within said berm. A drain line leading from the berm was leaking slightly therefore a sump was created at the point of leakage and a sump pump installed to pump any liquids directly back into the berm area. Again at this time there was no evidence of any spillage outside the berm area.

On Wednesday, May 14, all liquids in the berm area was pumped into tankage, samples were taken from the leaking tanker as well as the berm area. The following results were attained:

Tanker -	front compartment	14ppm
	middle compartment	39ppm
	back compartment	14ppm
Berm -	Top	107ppm
	Bottom Sludge	362ppm

It rained again on Wednesday Evening, and Thurday Morning, the berm area was pumped again on Thursday into tankage. No additional sampling was done.

Following another substantial rainfall on Thursday Night, Friday Morning a significant amount of oil was discovered in Pinoak Creek by local residents and reported to Missouri Department of Natural Resources who in turn reproted same to the United States Environmental Protection Agency,Region VII. ETI was notified at approximately 1600 hrs by Mr.Walter Carolan. Steven Kay and Donald Seymour arived on-scene at approximately 1700 hrs. to view the situation and meet with Missouri DNR personnel, and EPA's

Technical Assistance Team Contractors Roy F. Weston representatives. Mr. Carolan was contacted and the green light was given to continue cleanup operations which had begun earlier under the supervision of Mr. Perrin from American Steel Inc., a co-tenant of the Rose Chemicals Facility, and former employee of Rose Chemical. Oil absorbent which had been placed in the stream were left in place. Containment/Absorbent booms of straw were placed in two locations in the stream.

The oil had apparently been flushed from a storm sewer line which it had apparently entered on Tuesday, thus the storm line to Pinoak Creek was broken and diverted to the lower lagoon on the Rose Chemicals Property. The above accomplished, the site was secured at 2100 hrs. for the night.

Saturday Morning, May 17, 1986 ETI representatives arrived on site to continue efforts to cleanup the contamination and prevent recurrence fo same. The lower berm area was reinforced and expanded, the storm sewer drain at the entrance to the property was blanked off and the run on water diverted away from the storm drain in an attempt to cut back on the amount of water requiring containment on treatment. A berm was built to contain and divert any runoff from the loading dock area to the primary containment berm, and the suspect manhole was isolated. A sample taken directly from Pinoak Creek was analyzed at approximately 96 ppm.

On Sunday, May 18, 1986 the run on diversion swale was upgraded to accomodate traffic while still serving its primary purpose. A new run on diversion berm was built to divert surface waters around the secondary containment berm. Both the run-on swale and the diversion berm were read with a transit to determine their viability. ETI's Emergency Response Trailer arrived on site, along with Foreman - Gary Sondersted and Equipment Operator Donald McMahon. Operations Supervisor - Gerald Baryza and two laborers are en route. Health and Safety Officer -EMT- Fred Niles, and Technical Supervior Michael Brady are standing by to be on-site as soon as necessary.

PLANNED CONTINUED ACTION:

1. Monday, May 19, 1986 -
   ETI Foreman - Gary Sondersted and Equipment Operator Don McMahon will remove any and all oil soaked or otherwise contaminated vegetation, debris and any other material which appears contaminated. All material removed will be double bagged and placed in open drums for future removal and disposal.

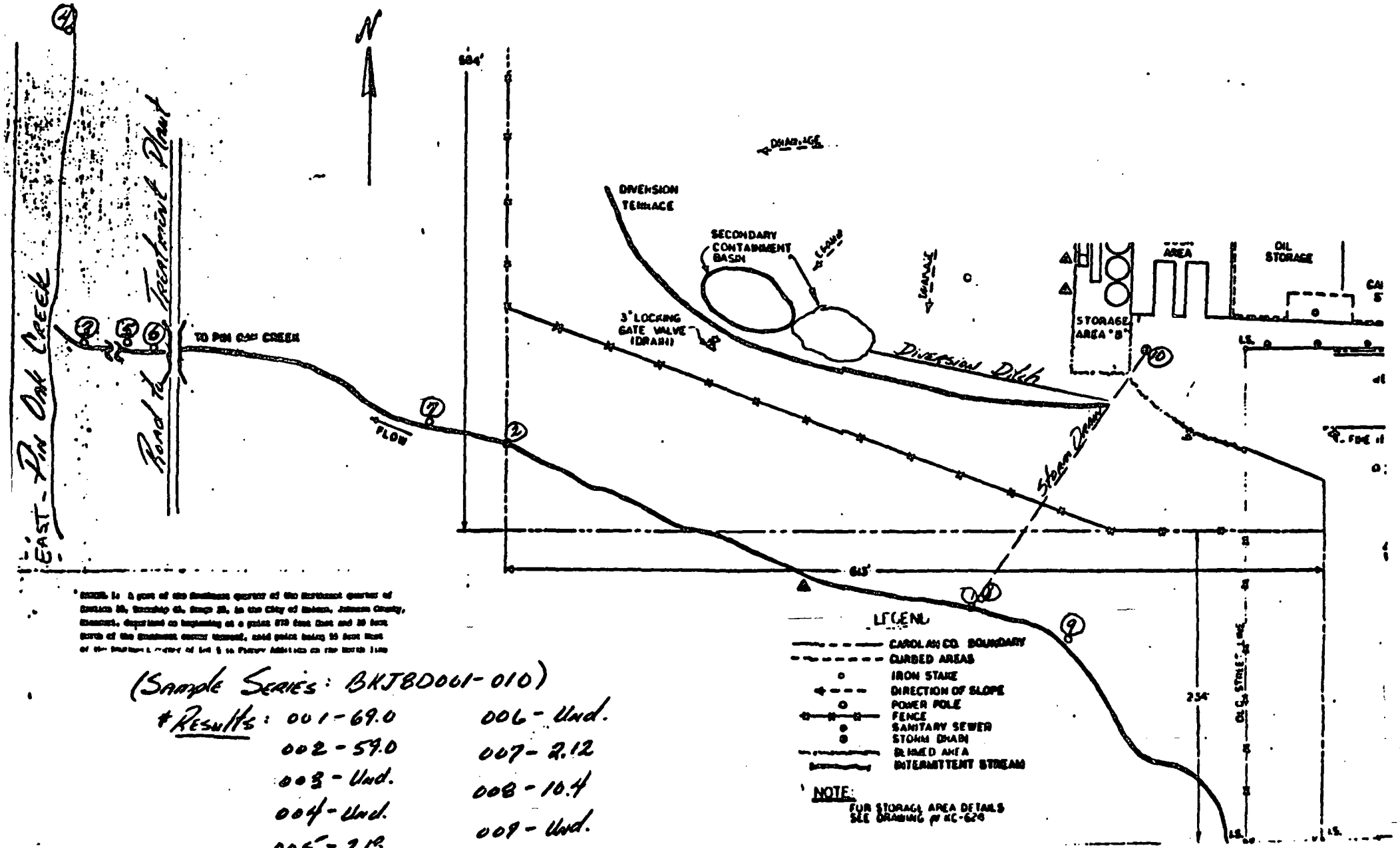
Martha Rose Chemical

Sampling Map - May 19, 1986

Purpose:	Initial sampling to assess the spill situation
Sample Series:	BKJ8D001 through 010 (10 samples)
Summary of results:	The oil which spilled from the tanker contained PCB-contaminated oil over 50 parts per million (ppm), 59 and 69 ppm. The unnamed tributary had contaminated sediment over 2 ppm but less than 10.4 ppm. The receiving stream (East Pin Oak Creek) from the unnamed tributary is undetected for PCBs.

Sampling Map

(Samples taken May 19, 1986)



(Sample Series: BKJ8D001-010)

Results:

001 - 69.0	006 - Und.
002 - 59.0	007 - 2.12
003 - Und.	008 - 10.4
004 - Und.	009 - Und.
005 - 2.13	010 - 183.0

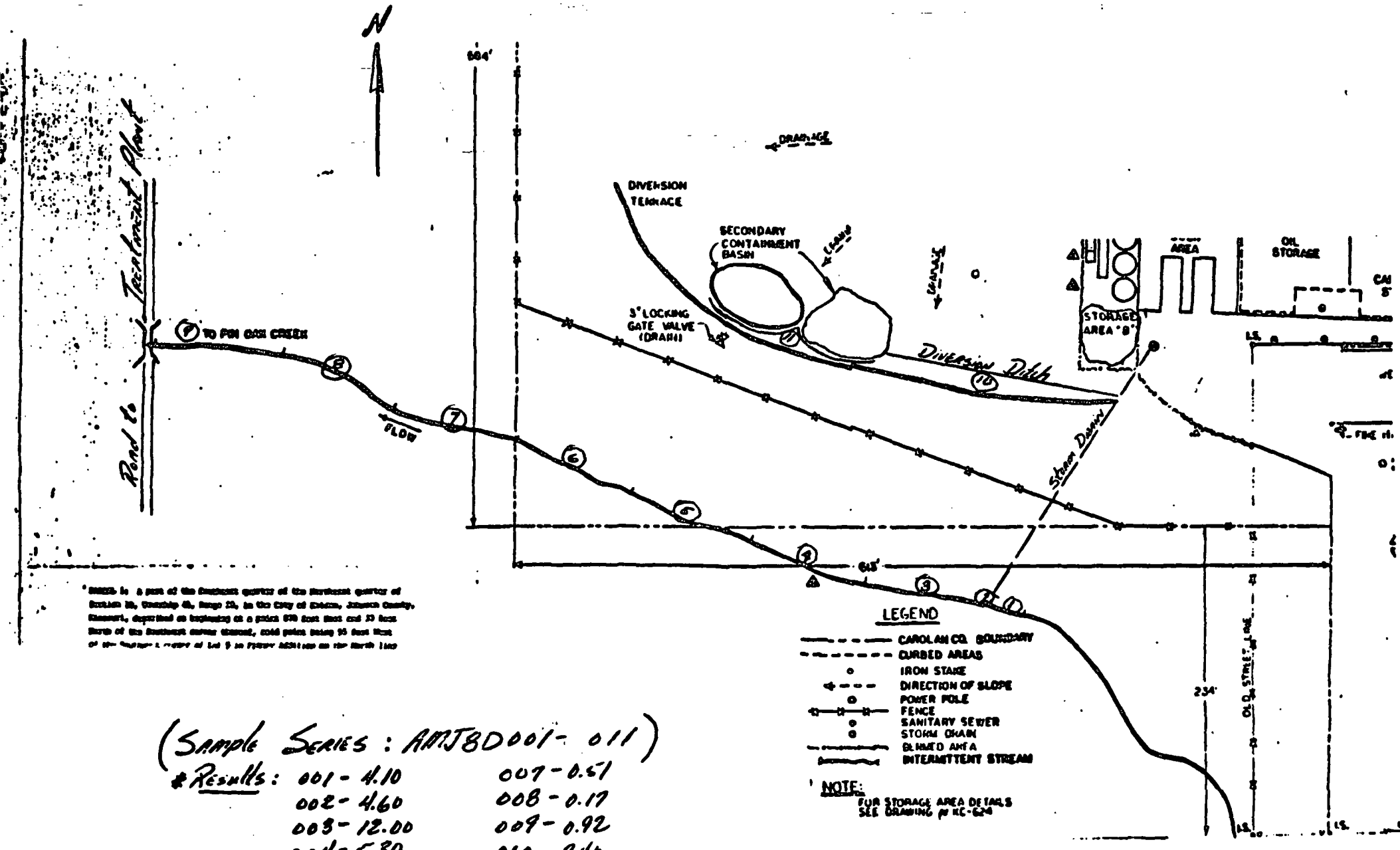
Martha Rose Chemical

Sampling Map - June 16, 1986

Purpose:	Split samples with American Steel after completion of their "clean-up".
Sample:	AMJ8D001 - 011 (11 samples)
Summary of Results:	This sampling indicates that PCBs are still present at levels over the 2 parts per million (ppm) action level for approximately 500-600 feet downstream of the discharge point. Also, the diverson ditch to intercept the storm sewer is contaminated with PCBs at 3.40 ppm and PCB-contaminated oil has been allowed to reach the storm-water retention ponds (secondary containment basin).
NOTE:	These are split samples obtained by American Steel. On July 3, 1986, Dwight Thomas (American Steel) indicated their corresponding samples had not been analyzed yet.

SAMPLING MAP

(Samples taken June 16, 1986)



(Sample Series : AMJ8D001- 011)

*Results: 001 - 4.10	007 - 0.51
002 - 4.60	008 - 0.17
003 - 12.00	009 - 0.92
004 - 5.30	010 - 3.40
005 - 3.75	011 - 1.40
006 - 0.46	

* Total PCB Concentration in ppm

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

DATE 5/27/86

SUBJECT Transmittal of Laboratory Data

FROM Robert D. Kleopfer, Ph. D. RDK
Chief, Laboratory Branch, ENSV

TO Hensley

Analyses have been completed for the following activities and the data results are attached.

Activity No.	Description
BKJ8D	Holden, MO
	(Partial Transmittal;
	PCB data for sample
	010 still needed)

Attachments

cc: Data Files

EPA Form 1320-6 (Rev. 3-76)

EPA REGION VII
DATA QUALIFICATION CODES

U - Compound was not detected.

M - Compound was qualitatively identified; however, quantitative value is less than contract required detection limits (CLP data); or value is less than limit of quantitation (EPA data).

J - Compound was qualitatively identified; however, compound failed to meet all QA criteria and therefore is only an estimated value.

I - Analysis attempted, but no results can be reported.

O - Sample lost or not analyzed.

L - Value known to be higher than value reported.

FIELD SHEET

ENVIRONMENTAL PROTECTION AGENCY — REGION VII

SURVEILLANCE AND ANALYSIS DIVISION, 25 FUNSTON ROAD, KANSAS CITY, KANSAS 65115

STATION IDENTIFICATION

SURVEY NO _____ SURVEY LEADER Robert L. Fine II STORET NO _____

DESCRIPTION PCB oil from creek near Rose Chemical in Holden, Mo.

GRAB SAMPLE DATA

FLOW	TEMP °C		PH	DO	FECAL COLI	OIL & GREASE	OTHER	OTHER
☐ 00059 (GPM) ☐ 00061 (CFS)	AIR 00020	WATER 00010						

COLLECTION DATE YR 84 MO 16 DAY May TIME 1800 SAMPLER NAME CODE Fine LAB NO BKJ8D-001

00400

COLLECTION DATE YR 84 MO 16 DAY May TIME 1815 SAMPLER NAME CODE Fine LAB NO BKJ8D-002

COLLECTION DATE YR ____ MO ____ DAY ____ TIME ____ SAMPLER NAME CODE ____ LAB NO ____

COLLECTION DATE YR ____ MO ____ DAY ____ TIME ____ SAMPLER NAME CODE ____ LAB NO ____

COMPOSITE SAMPLE DATA

BEGIN DATE YR ____ MO ____ DAY ____ TIME ____ LAB NO ____

END DATE YR ____ MO ____ DAY ____ TIME ____ EQUIPMENT CODE ____

FLOW RATE ____ 50050 MGD ____ 50052 1000's OF GAL DURING COMPOSITE PERIOD SAMPLER NAME CODE ____

WATER CHEMISTRY

LAB NO ____

SAMPLE CONTAINER	TAG COLOR	PRESERVATIVE	LABORATORY MOBILE	LABORATORY REGION	ANALYSES
4 oz. Jar		None		7	~~Priority~~ PCB

CONTACT Robert Fine /TAT SAMPLE ☐ YES SPLIT ☒ NO

REMARKS

7 EPA 9261-6-75 GSA-KC-78-1695

FIELD SHEET

ENVIRONMENTAL PROTECTION AGENCY — REGION VII

SURVEILLANCE AND ANALYSIS DIVISION, 25 FUNSTON ROAD, KANSAS CITY, KANSAS 65115

STATION IDENTIFICATION

SURVEY NO _____ SURVEY LEADER George HESS STORET NO _____

DESCRIPTION Holden, Mo. Rose Chemical

GRAB SAMPLE DATA

FLOW	TEMP °C		PH	DO	FECAL COLI	OIL & GREASE	OTHER	OTHER
☐ 00059 (GPM) ☐ 00061 (CFS)	AIR 00020	WATER 00010						
COLLECTION DATE YR 86	19	DAY May	TIME 1345	SAMPLER NAME CODE Hess	LAB NO BKJ8D003			
			00400					
COLLECTION DATE	YR	MO	DAY	TIME	SAMPLER NAME CODE	LAB NO		
COLLECTION DATE	YR	MO	DAY	TIME	SAMPLER NAME CODE	LAB NO		
COLLECTION DATE	YR	MO	DAY	TIME	SAMPLER NAME CODE	LAB NO		

COMPOSITE SAMPLE DATA

BEGIN DATE YR _____ MO _____ DAY _____ TIME _____ LAB NO _____

END DATE YR _____ MO _____ DAY _____ TIME _____ EQUIPMENT CODE _____

FLOW RATE _____ (50050) MGD _____ (50052) 1000's OF GAL DURING COMPOSITE PERIOD SAMPLER NAME CODE _____

WATER CHEMISTRY

LAB NO _____

SAMPLE CONTAINER	TAG COLOR	PRESERVATIVE	LABORATORY MOBILE	LABORATORY REGION	ANALYSES
8 oz. Jar		None		✓	PCB

CONTACT _____ SAMPLE ☐ YES SPLIT ☒ NO

REMARKS Water Sample - 30' ft. upstream of major creek intersection

EPA 9263.16 75 GSA-KC-78-1695

FIELD SHEET

ENVIRONMENTAL PROTECTION AGENCY — REGION VII

SURVEILLANCE AND ANALYSIS DIVISION, 25 FUNSTON ROAD, KANSAS CITY, KANSAS 65115

STATION IDENTIFICATION

SURVEY NO _____ SURVEY LEADER George Hess STORET NO _____

DESCRIPTION Holden, Mo. Rose Chemical

GRAB SAMPLE DATA

FLOW	TEMP °C AIR	TEMP °C WATER	PH	DO	FECAL COLI	OIL & GREASE	OTHER	OTHER
☐ 00059 (GPM) ☐ 00061 (CFS)	00020	00010						
COLLECTION DATE YR 84 MO 19 DAY May TIME 1350 SAMPLER NAME CODE Hess LAB NO BKJBD004								
			00400					
COLLECTION DATE YR ____ MO ____ DAY ____ TIME ____ SAMPLER NAME CODE ____ LAB NO ____								
COLLECTION DATE YR ____ MO ____ DAY ____ TIME ____ SAMPLER NAME CODE ____ LAB NO ____								
COLLECTION DATE YR ____ MO ____ DAY ____ TIME ____ SAMPLER NAME CODE ____ LAB NO ____								

COMPOSITE SAMPLE DATA

BEGIN DATE YR ____ MO ____ DAY ____ TIME ____ LAB NO ____

END DATE YR ____ MO ____ DAY ____ TIME ____ EQUIPMENT CODE ____

FLOW RATE ____ (50050) MGD ____ (50057) 1000's OF GAL DURING COMPOSITE PERIOD SAMPLER NAME CODE ____

WATER CHEMISTRY

LAB NO ____

SAMPLE CONTAINER	TAG COLOR	PRESERVATIVE	LABORATORY MOBILE	LABORATORY REGION	ANALYSES
8 oz Jar		None		✓	PCB

CONTACT ____ SAMPLE ☐ YES SPLIT ☒ NO

REMARKS Water Sample - 10' upstream of treatment plant discharge pipe in creek

7 EPA 9263 -6 75

GSA-KC-78-1695

FIELD SHEET
ENVIRONMENTAL PROTECTION AGENCY – REGION VII
SURVEILLANCE AND ANALYSIS DIVISION, 25 FUNSTON ROAD, KANSAS CITY, KANSAS 65115

STATION IDENTIFICATION

SURVEY NO _____ SURVEY LEADER George Hess STORET NO _____

DESCRIPTION Holden, Mo. Rose Chemical

GRAB SAMPLE DATA

FLOW	TEMP °C		PH	DO	FECAL COLI	OIL & GREASE	OTHER	OTHER
☐ 00059 (GPM) ☐ 00061 (CFS)	AIR 00020	WATER 00010						

COLLECTION DATE YR 84 19 DAY May TIME 1350 SAMPLER NAME CODE Hess LAB NO BKJ8D005

00400

COLLECTION DATE YR ____ MO ____ DAY ____ TIME ____ SAMPLER NAME CODE ____ LAB NO ____

COLLECTION DATE YR ____ MO ____ DAY ____ TIME ____ SAMPLER NAME CODE ____ LAB NO ____

COLLECTION DATE YR ____ MO ____ DAY ____ TIME ____ SAMPLER NAME CODE ____ LAB NO ____

COMPOSITE SAMPLE DATA

BEGIN DATE YR ____ MO ____ DAY ____ TIME ____ LAB NO ____

END DATE YR ____ MO ____ DAY ____ TIME ____ EQUIPMENT CODE ____

FLOW RATE ____ 50050 MGD ____ 50052 1000's OF GAL DURING COMPOSITE PERIOD SAMPLER NAME CODE ____

WATER CHEMISTRY

LAB NO ____

SAMPLE CONTAINER	TAG COLOR	PRESERVATIVE	LABORATORY MOBILE	LABORATORY REGION	ANALYSES
8 oz Jar		None		✓	PCB

CONTACT _____ SAMPLE ☐ YES SPLIT ☒ NO

REMARKS Soil Sample: ~80' E of creek confluence

7 EPA 9261-6 75 GSA-KC 78-1695

FIELD SHEET

ENVIRONMENTAL PROTECTION AGENCY – REGION VII

SURVEILLANCE AND ANALYSIS DIVISION, 25 FUNSTON ROAD, KANSAS CITY, KANSAS 65115

STATION IDENTIFICATION

SURVEY NO. _____ SURVEY LEADER George Hess STORET NO _____

DESCRIPTION Holden, Mo. Rose Chemical

GRAB SAMPLE DATA

FLOW	TEMP °C AIR	TEMP °C WATER	PH	DO	FECAL COLI	OIL & GREASE	OTHER	OTHER
☐ 00059 (GPM) ☐ 00061 (CFS)	00020	00010						
COLLECTION DATE YR 86 MO 19 DAY May TIME 1352 SAMPLER NAME CODE Hess LAB NO BKJ8D006								
			00400					
COLLECTION DATE YR ____ MO ____ DAY ____ TIME ____ SAMPLER NAME CODE ____ LAB NO ____								
COLLECTION DATE YR ____ MO ____ DAY ____ TIME ____ SAMPLER NAME CODE ____ LAB NO ____								
COLLECTION DATE YR ____ MO ____ DAY ____ TIME ____ SAMPLER NAME CODE ____ LAB NO ____								

COMPOSITE SAMPLE DATA

BEGIN DATE YR ____ MO ____ DAY ____ TIME ____ LAB NO ____

END DATE YR ____ MO ____ DAY ____ TIME ____ EQUIPMENT CODE ____

FLOW RATE ____ (50050) MGD ____ (50052) 1000 s OF GAL DURING COMPOSITE PERIOD SAMPLER NAME CODE ____

WATER CHEMISTRY

LAB NO ____

SAMPLE CONTAINER	TAG COLOR	PRESERVATIVE	LABORATORY MOBILE	LABORATORY REGION	ANALYSES
8 oz Jar		None		✓	PCB

CONTACT ____ SAMPLE ☐ YES SPLIT ☒ NO ____

REMARKS Soil Sample - W. side of Wyta bridge near water line.

7 SPA 9261 (6 75) GSA-KC-78-1695

FIELD SHEET

ENVIRONMENTAL PROTECTION AGENCY – REGION VII

SURVEILLANCE AND ANALYSIS DIVISION, 25 FUNSTON ROAD, KANSAS CITY, KANSAS 65115

STATION IDENTIFICATION

SURVEY NO _____ SURVEY LEADER George Hess STORET NO _____

DESCRIPTION Holden, Mo. Rose Chemical

GRAB SAMPLE DATA

FLOW	TEMP °C AIR	TEMP °C WATER	PH	DO	FECAL COLI	OIL & GREASE	OTHER	OTHER
☐ 00059 (GPM) ☐ 00061 (CFS)	00020	00010						

COLLECTION DATE YR 84 MO 19 DAY May TIME 1445 SAMPLER NAME CODE Hess LAB NO 3KDTBD007

			00400					

COLLECTION DATE YR ____ MO ____ DAY ____ TIME ____ SAMPLER NAME CODE ____ LAB NO ____

COLLECTION DATE YR ____ MO ____ DAY ____ TIME ____ SAMPLER NAME CODE ____ LAB NO ____

COLLECTION DATE YR ____ MO ____ DAY ____ TIME ____ SAMPLER NAME CODE ____ LAB NO ____

COMPOSITE SAMPLE DATA

BEGIN DATE YR ____ MO ____ DAY ____ TIME ____ LAB NO ____

END DATE YR ____ MO ____ DAY ____ TIME ____ EQUIPMENT CODE ____

FLOW RATE ____ (50050) MGD ____ (50052) 1000's OF GAL DURING COMPOSITE PERIOD SAMPLER NAME CODE ____

WATER CHEMISTRY

LAB NO ____

SAMPLE CONTAINER	TAG COLOR	PRESERVATIVE	LABORATORY MOBILE	LABORATORY REGION	ANALYSES
8 oz Jar		None		✓	PCB

CONTACT ____ SAMPLE ☐ YES SPLIT ☒ NO

REMARKS Soil Sample: 30' W. of property line fence on Metta Anderson's property

7 EPA 9263 6 75 GSA-KC-78-1695

FIELD SHEET

ENVIRONMENTAL PROTECTION AGENCY — REGION VII

SURVEILLANCE AND ANALYSIS DIVISION, 25 FUNSTON ROAD, KANSAS CITY, KANSAS 65115

STATION IDENTIFICATION

SURVEY NO. _____ SURVEY LEADER George Hess STORET NO _____

DESCRIPTION Holden, Ma. Rose Chemical

GRAB SAMPLE DATA

FLOW	TEMP °C AIR	TEMP °C WATER	PH	DO	FECAL COLI	OIL & GREASE	OTHER	OTHER
☐ 00059 (GPM) ☐ 00061 (CFS)	00020	00010						
COLLECTION DATE YR 86 MO 79 DAY May TIME _____ SAMPLER NAME CODE Hess LAB NO BKJBD008								
			00400					
COLLECTION DATE YR _____ MO _____ DAY _____ TIME _____ SAMPLER NAME CODE _____ LAB NO _____								
COLLECTION DATE YR _____ MO _____ DAY _____ TIME _____ SAMPLER NAME CODE _____ LAB NO _____								
COLLECTION DATE YR _____ MO _____ DAY _____ TIME _____ SAMPLER NAME CODE _____ LAB NO _____								

COMPOSITE SAMPLE DATA

BEGIN DATE YR _____ MO _____ DAY _____ TIME _____ LAB NO _____

END DATE YR _____ MO _____ DAY _____ TIME _____ EQUIPMENT CODE _____

FLOW RATE _____ (50050) MGD _____ (50052) 1000's OF GAL DURING COMPOSITE PERIOD SAMPLER NAME CODE _____

WATER CHEMISTRY

LAB NO _____

SAMPLE CONTAINER	TAG COLOR	PRESERVATIVE	LABORATORY MOBILE	LABORATORY REGION	ANALYSES
8 oz Jar		None		✓	PCB

CONTACT _____ SAMPLE ☐ YES SPLIT ☒ NO

REMARKS Soil Sample: Immediately beneath discharge pipe leading to creek.

7 EPA 9263 (6 75) GSA-KC 78 1695

FIELD SHEET

ENVIRONMENTAL PROTECTION AGENCY — REGION VII

SURVEILLANCE AND ANALYSIS DIVISION, 25 FUNSTON ROAD, KANSAS CITY, KANSAS 65115

STATION IDENTIFICATION

SURVEY NO _____ SURVEY LEADER George Hess STORET NO _____

DESCRIPTION Holden, Mo. Rose Chemical

GRAB SAMPLE DATA

FLOW	TEMP °C AIR	TEMP °C WATER	PH	DO	FECAL COLI	OIL & GREASE	OTHER	OTHER
☐ 00059 (GPM) ☐ 00061 (CFS)	00020	00010						
COLLECTION DATE YR 86 MO 19 DAY May TIME _____					SAMPLER NAME CODE Hess		LAB NO _____	
			00400					
COLLECTION DATE YR _____ MO _____ DAY _____ TIME _____					SAMPLER NAME CODE _____		LAB NO BKJ80009	
COLLECTION DATE YR _____ MO _____ DAY _____ TIME _____					SAMPLER NAME CODE _____		LAB NO _____	
COLLECTION DATE YR _____ MO _____ DAY _____ TIME _____					SAMPLER NAME CODE _____		LAB NO _____	

COMPOSITE SAMPLE DATA

BEGIN DATE YR _____ MO _____ DAY _____ TIME _____ LAB NO _____

END DATE YR _____ MO _____ DAY _____ TIME _____ EQUIPMENT CODE _____

FLOW RATE _____ (50050) MGD _____ (50052) 1000's OF GAL DURING COMPOSITE PERIOD SAMPLER NAME CODE _____

WATER CHEMISTRY

LAB NO _____

SAMPLE CONTAINER	TAG COLOR	PRESERVATIVE	LABORATORY MOBILE	LABORATORY REGION	ANALYSES
8 oz Jar		None		✓	PCB

CONTACT _____ SAMPLE ☐ YES SPLIT ☒ NO

REMARKS Soil Sample ~ 100' upstream of where discharge pipe empties into creek. (Sample taken from creek bank)

7 EPA 9261 16 75)

GSA-KC-78-1695

FIELD SHEET

ENVIRONMENTAL PROTECTION AGENCY — REGION VII

SURVEILLANCE AND ANALYSIS DIVISION, 25 FUNSTON ROAD, KANSAS CITY, KANSAS 65115

STATION IDENTIFICATION

SURVEY NO _____ SURVEY LEADER George Hess STORET NO _____

DESCRIPTION _____

GRAB SAMPLE DATA

FLOW	TEMP °C		PH	DO	FECAL COLI	OIL & GREASE	OTHER	OTHER
☐ 00059 (GPM) ☐ 00061 (CFS)	AIR 00020	WATER 00010						

COLLECTION DATE YR 86 19 DAY May TIME _____ SAMPLER NAME CODE Hess LAB NO BKJ8D010

00400

COLLECTION DATE YR _____ MO _____ DAY _____ TIME _____ SAMPLER NAME CODE _____ LAB NO _____

COLLECTION DATE YR _____ MO _____ DAY _____ TIME _____ SAMPLER NAME CODE _____ LAB NO _____

COLLECTION DATE YR _____ MO _____ DAY _____ TIME _____ SAMPLER NAME CODE _____ LAB NO _____

COMPOSITE SAMPLE DATA

BEGIN DATE YR _____ MO _____ DAY _____ TIME _____ LAB NO _____

END DATE YR _____ MO _____ DAY _____ TIME _____ EQUIPMENT CODE _____

FLOW RATE _____ 50050 MGD _____ 50052 1000 s OF GAL DURING COMPOSITE PERIOD SAMPLER NAME CODE _____

WATER CHEMISTRY

LAB NO _____

SAMPLE CONTAINER	TAG COLOR	PRESERVATIVE	LABORATORY MOBILE	LABORATORY REGION	ANALYSES
8 oz Jar		None		✓	PCB

CONTACT _____ SAMPLE ☐ YES SPLIT ☒ NO

REMARKS: Sample of 'oil dry' and soil taken from manhole cover near tanker truck where spill occured.

7 EPA 9261 6 75

GSA-KC 78 1695

ANALYSIS TYPE: PCB'S

TITLE: BKJ8D (OILS)
LAB: EPA 7
SAMPLE PREP:_____ ANALYST/ENTRY: IRR

MATRIX: ~~SEDIMENT~~ OIL
METHOD: 0804H70
REVIEWER: _____

UNITS: UG/KG
CASE:
DATE: 05/19/86

SAMPLE NUMBERS

COMPOUND	BKJ8D001		BKJ8D002	
PCB 1242	30000.		30000.	
PCB 1254	18000.		13000.	M
PCB 1221	25.0	U	25.0	U
PCB 1232	10.0	U	10.0	U
PCB 1248	30.0	U	30.0	U
PCB 1260	21000.		16000.	
PCB 1016	30.0	U	30.0	U

ANALYSIS TYPE: PCB'S

ITLE: PCB DATA
AB: EPA 7
AMPLE PREP:_____ ANALYST/ENTRY: SXR

MATRIX: WATER
METHOD: 6081W00
REVIEWER: ___CMO___

UNITS: UG/L
CASE:
DATE: 05/21/86

SAMPLE NUMBERS

COMPOUND	BKJ8D003		BKJ8D004	
PCB 1242	0.35	U	0.35	U
PCB 1254	0.4	U	0.4	U
PCB 1221	0.3	U	0.3	U
PCB 1232	0.1	U	0.1	U
PCB 1248	0.35	U	0.35	U
PCB 1260	0.1	U	0.1	U
PCB 1016	0.35	U	0.35	U

ANALYSIS TYPE: PCB'S

ITLE: HOLDEN
AB: EPA 7
AMPLE PREP:_____ ANALYST/ENTRY: SXR

MATRIX: SEDIMENT
METHOD: IFB,MED
REVIEWER: _____

UNITS: UG/KG
CASE:
DATE: 05/23/86

SAMPLE NUMBERS

COMPOUND	BKJ8D005		BKJ8D006		BKJ8D007		BKJ8D008	
CB 1242	750	U	750	U	750	U	3700.	
CB 1254	550	M	880	U	590	M	2800.	
CB 1221	630	U	630	U	630	U	630	U
CB 1232	250	U	250	U	250	U	250	U
CB 1248	900	M	750	U	980	M	730	U
CB 1260	680		250	U	550		3900.	
CB 1016	750	U	750	U	750	U	750	U

ANALYSIS TYPE: PCB'S

TITLE: HOLDEN
LAB: EPA 7
SAMPLE PREP:_____ ANALYST/ENTRY: SKR

MATRIX: SEDIMENT
METHOD: IFB,MED
REVIEWER: _____

UNITS: UG/KG
CASE:
DATE: 03/23/86

SAMPLE NUMBERS

BKJ8009

COMPOUND		
PCB 1242	750	U
PCB 1254	880	U
PCB 1221	630	U
PCB 1232	250	U
PCB 1248	750	U
PCB 1260	250	U
PCB 1016	750	U

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

DATE 5/29/86

SUBJECT Transmittal of Laboratory Data

FROM Robert D. Kleopfer, Ph. D. RDK
Chief, Laboratory Branch, ENSV

TO Hensley

Analyses have been completed for the following activities and the data results are attached.

Activity No.	Description
BKJ8D	Holden, MO
	(completes transmittal
	of 5/27/86)

Attachments

cc: Data Files

EPA Form 1320-6 (Rev. 3-76)

EPA REGION VII
DATA QUALIFICATION CODES

U - Compound was not detected.

M - Compound was qualitatively identified; however, quantitative value is less than contract required detection limits (CLP data); or value is less than limit of quantitation (EPA data).

J - Compound was qualitatively identified; however, compound failed to meet all QA criteria and therefore is only an estimated value.

I - Analysis attempted, but no results can be reported.

O - Sample lost or not analyzed.

L - Value known to be higher than value reported.

ANALYSIS TYPE: PCB'S

ITLE: PCB DATA
AP: EPA 7
AMPLE PREP:_____ ANALYST/ENTRY: SXR

MATRIX: SEDIMENT
METHOD: IFB,MED
REVIEWER: _____

UNITS: UG/KG
CASE:
DATE: 05/28/86

SAMPLE NUMBERS

BKJ8D010

COMPOUND		
PCB 1242	57000.	
PCB 1254	73000.	
PCB 1221	16000.	U
PCB 1232	6300.	U
PCB 1248	19000.	U
PCB 1260	53000.	
PCB 1016	19000.	U

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

DATE August 20, 1986

SUBJECT Transmittal of Laboratory Data

FROM Robert D. Kleopfer, Ph. D. HB Brown for
Chief, Laboratory Branch, ENSV

TO Charley Henaley

Analyses have been completed for the following activities and the data results are attached.

Activity No.	Description
AMJ 8D	Rose Chemical
	(Complete transmittal)

Attachments

cc: Data Files

EPA Form 1320-6 (Rev. 3-76)

ANALYSIS TYPE: PCB DATA

TITLE: ROSE CHEMICAL
LAB: EPA 7
SAMPLE PREP:_____ ANALYST/ENTRY: IRR

MATRIX: SEDIMENT
METHOD: 7221S00
REVIEWER: _____

UNITS: UG/KG
CASE:
DATE: 08/14/86

SAMPLE NUMBERS

COMPOUND	AMJ8D001		AMJ8D002		AMJ8D003		AMJ8D004	
PCB1221	630	U	630	U	2500.	U	500	U
PCB1232	250	U	250	U	1000.	U	200	U
PCB1016	750	U	750	U	3000.	U	600	U
PCB1242	750	U	750	U	3000.	U	600	U
PCB1248	1700.		1900.		1300.	M	1900.	
PCB1254	1000.		1200.		3500.	U	1400.	
PCB1260	1400.		1500.		12000.		2000.	

ANALYSIS TYPE: PCB DATA

TITLE: ROSE CHEMICAL
LAB: EPA 7
SAMPLE PREP:_____ ANALYST/ENTRY: IRR

MATRIX: SEDIMENT
METHOD: 7221800
REVIEWER: _____

UNITS: UG/KG
CASE:
DATE: 08/14/86

SAMPLE NUMBERS

COMPOUND	AMJ8D005		AMJ8D006		AMJ8D007		AMJ8D008	
PCB1221	630	U	50.0	U	50.0	U	25.0	U
PCB1232	250	U	20.0	U	20.0	U	10.0	U
PCB1016	750	U	60.0	U	60.0	U	30.0	U
PCB1242	750	U	60.0	U	60.0	U	30.0	U
PCB1248	1800.		190		220		85.0	
PCB1254	950		130		110		43.0	
PCB1260	1000.		140		180		41.0	

ANALYSIS TYPE: PCB DATA

TITLE: ROSE CHEMICAL
LAB: EPA 7
SAMPLE PREP:_____ ANALYST/ENTRY: IRR

MATRIX: SEDIMENT
METHOD: 7221S00
REVIEWER: _____

UNITS: UG/KG
CASE:
DATE: 08/14/86

SAMPLE NUMBERS

COMPOUND	AMJ8D009		AMJ8D010		AMJ8D011	
PCB1221	130	U	630	U	630	U
PCB1232	50.0	U	250	U	250	U
PCB1016	150	U	750	U	750	U
PCB1242	150	U	750	U	750	U
PCB1248	360		690	M	530	M
PCB1254	240		880	U	740	M
PCB1260	320		3400.		1400.	

FIELD SHEET

ENVIRONMENTAL PROTECTION AGENCY — REGION VII

SURVEILLANCE AND ANALYSIS DIVISION, 25 FUNSTON ROAD, KANSAS CITY, KANSAS 65115

STATION IDENTIFICATION

SURVEY NO _____ SURVEY LEADER Robert Fine STORET NO _____

DESCRIPTION Holden, Mo. Rose Chemical

GRAB SAMPLE DATA

FLOW	TEMP °C AIR	TEMP °C WATER	PH	DO	FECAL COLI	OIL & GREASE	OTHER	OTHER
☐ 00059 (GPM) ☐ 00061 (CFS)	00020	00010						

COLLECTION DATE YR 86 June DAY 16 TIME 1115 SAMPLER NAME CODE _____ LAB NO AMJ8D001

			00400					

COLLECTION DATE YR _____ MO _____ DAY _____ TIME _____ SAMPLER NAME CODE _____ LAB NO _____

COLLECTION DATE YR _____ MO _____ DAY _____ TIME _____ SAMPLER NAME CODE _____ LAB NO _____

COLLECTION DATE YR _____ MO _____ DAY _____ TIME _____ SAMPLER NAME CODE _____ LAB NO _____

COMPOSITE SAMPLE DATA

BEGIN DATE YR _____ MO _____ DAY _____ TIME _____ LAB NO _____

END DATE YR _____ MO _____ DAY _____ TIME _____ EQUIPMENT CODE _____

FLOW RATE _____ 50050 MGD _____ 50052 1000's OF GAL DURING COMPOSITE PERIOD SAMPLER NAME CODE _____

WATER CHEMISTRY

LAB NO AMJ8D001

SAMPLE CONTAINER	TAG COLOR	PRESERVATIVE	LABORATORY MOBILE	LABORATORY REGION	ANALYSES
8 oz Jar	Blue	None		✓	PCB

CONTACT Robert Fine, 913/621-1240 SAMPLE ☒ YES SPLIT ☐ NO

REMARKS 10 Aliquots from sewer discharge line to 35 feet east

From creek tributary

7 EPA 9261-6 75

GSA-KC-78-1695

FIELD SHEET

ENVIRONMENTAL PROTECTION AGENCY — REGION VII

SURVEILLANCE AND ANALYSIS DIVISION, 25 FUNSTON ROAD, KANSAS CITY, KANSAS 65115

STATION IDENTIFICATION

SURVEY NO _____ SURVEY LEADER Robert Fine STORET NO _____

DESCRIPTION Holden, Mo. Rose Chemical

GRAB SAMPLE DATA

FLOW	TEMP °C AIR	TEMP °C WATER	PH	DO	FECAL COLI	OIL & GREASE	OTHER	OTHER
☐ 00059 (GPM) ☐ 00061 (CFS)	00020	00010						

COLLECTION DATE YR 86 MO June DAY 16 TIME 1100 SAMPLER NAME CODE _____ LAB NO AMJ8D002

			00400					

COLLECTION DATE YR _____ MO _____ DAY _____ TIME _____ SAMPLER NAME CODE _____ LAB NO _____

COLLECTION DATE YR _____ MO _____ DAY _____ TIME _____ SAMPLER NAME CODE _____ LAB NO _____

COLLECTION DATE YR _____ MO _____ DAY _____ TIME _____ SAMPLER NAME CODE _____ LAB NO _____

COMPOSITE SAMPLE DATA

BEGIN DATE YR _____ MO _____ DAY _____ TIME _____ LAB NO _____

END DATE YR _____ MO _____ DAY _____ TIME _____ EQUIPMENT CODE _____

FLOW RATE _____ 50050 MGD _____ 50052 1000 s OF GAL DURING COMPOSITE PERIOD SAMPLER NAME CODE _____

WATER CHEMISTRY LAB NO AMJ8D002

SAMPLE CONTAINER	TAG COLOR	PRESERVATIVE	LABORATORY MOBILE	LABORATORY REGION	ANALYSES
8 oz Jar	Blue	None		✓	PCB

CONTACT Robert Fine 913/621-6240 SAMPLE ☒ YES SPLIT ☐ NO

REMARKS 10 Aliquots (7 from ponded area below sewer discharge line & 3 from along section to creek.)
from creek tributary

EPA 9263 (6-75) GSA-KC-78-1695

FIELD SHEET

ENVIRONMENTAL PROTECTION AGENCY — REGION VII

SURVEILLANCE AND ANALYSIS DIVISION, 25 FUNSTON ROAD, KANSAS CITY, KANSAS 65115

STATION IDENTIFICATION

SURVEY NO _____ SURVEY LEADER Robert Fine STORET NO _____

DESCRIPTION Holden, Mo. Rose Chemical

GRAB SAMPLE DATA

FLOW	TEMP °C AIR	TEMP °C WATER	PH	DO	FECAL COLI	OIL & GREASE	OTHER	OTHER
☐ 00059 (GPM) ☐ 00061 (CFS)	00020	00010						

COLLECTION DATE YR 86 MO June DAY 16 TIME 1115 SAMPLER NAME CODE _____ LAB NO AAJ8D003

COLLECTION DATE YR _____ MO _____ DAY _____ TIME _____ SAMPLER NAME CODE _____ LAB NO _____

COLLECTION DATE YR _____ MO _____ DAY _____ TIME _____ SAMPLER NAME CODE _____ LAB NO _____

COLLECTION DATE YR _____ MO _____ DAY _____ TIME _____ SAMPLER NAME CODE _____ LAB NO _____

COMPOSITE SAMPLE DATA

BEGIN DATE YR _____ MO _____ DAY _____ TIME _____ LAB NO _____

END DATE YR _____ MO _____ DAY _____ TIME _____ EQUIPMENT CODE _____

FLOW RATE _____ (50050) MGD _____ (50052) 1000's OF GAL DURING COMPOSITE PERIOD SAMPLER NAME CODE _____

WATER CHEMISTRY

LAB NO AAJ8D003

SAMPLE CONTAINER	TAG COLOR	PRESERVATIVE	LABORATORY MOBILE	LABORATORY REGION	ANALYSES
8 oz JAR	Blue	None		✓	PCB

CONTACT Robert Fine 913/621-6240 SAMPLE ☒ YES SPLIT ☐ NO _____

REMARKS 20 Aliquots taken from sewer discharge line to 100 feet west along creek tributary

EPA 9261.16 (75) GSA-KC-78-1695

FIELD SHEET

ENVIRONMENTAL PROTECTION AGENCY — REGION VII

SURVEILLANCE AND ANALYSIS DIVISION, 25 FUNSTON ROAD, KANSAS CITY, KANSAS 65115

STATION IDENTIFICATION

SURVEY NO _____ SURVEY LEADER Robert Fine STORET NO _____

DESCRIPTION Holden, Mo. - Rose Channel

GRAB SAMPLE DATA

FLOW	TEMP °C AIR	TEMP °C WATER	PH	DO	FECAL COLI	OIL & GREASE	OTHER	OTHER
☐ 00059 (GPM) ☐ 00061 (CFS)	00020	00010						

COLLECTION DATE YR 81 June DAY 16 TIME _____ SAMPLER NAME CODE _____ LAB NO AMJ8D004

			00400					

COLLECTION DATE YR _____ MO _____ DAY _____ TIME _____ SAMPLER NAME CODE _____ LAB NO _____

COLLECTION DATE YR _____ MO _____ DAY _____ TIME _____ SAMPLER NAME CODE _____ LAB NO _____

COLLECTION DATE YR _____ MO _____ DAY _____ TIME _____ SAMPLER NAME CODE _____ LAB NO _____

COMPOSITE SAMPLE DATA

BEGIN DATE YR _____ MO _____ DAY _____ TIME _____ LAB NO AMJ8D004

END DATE YR _____ MO _____ DAY _____ TIME _____ EQUIPMENT CODE _____

FLOW RATE _____ 50050 MGD _____ 50052 1000's OF GAL DURING COMPOSITE PERIOD SAMPLER NAME CODE _____

WATER CHEMISTRY LAB NO AMJ8D004

SAMPLE CONTAINER	TAG COLOR	PRESERVATIVE	LABORATORY MOBILE	LABORATORY REGION	ANALYSES
8 oz Jar	Blue	None		✓	PCB

CONTACT Robert Fine 913/621-6240 SAMPLE ☒ YES SPLIT ☐ NO

REMARKS 20 Aliquots taken between 200 and 300 feet west of sewer discharge line along unk tributary

7 EPA 9261 6 75

GSA-KC-78-1695

FIELD SHEET

ENVIRONMENTAL PROTECTION AGENCY — REGION VII

SURVEILLANCE AND ANALYSIS DIVISION, 25 FUNSTON ROAD, KANSAS CITY, KANSAS 65115

STATION IDENTIFICATION

SURVEY NO _____ SURVEY LEADER Robert Fine STORET NO _____

DESCRIPTION Holden Mc. Rose Chemical

GRAB SAMPLE DATA

FLOW	TEMP °C AIR	TEMP °C WATER	PH	DO	FECAL COLI	OIL & GREASE	OTHER	OTHER
☐ 00059 (GPM) ☐ 00061 (CFS)	00020	00010						
COLLECTION DATE YR 81 MO June DAY 16 TIME _____ SAMPLER NAME CODE _____ LAB NO AMTEDCOS								
			00400					
COLLECTION DATE YR _____ MO _____ DAY _____ TIME _____ SAMPLER NAME CODE _____ LAB NO _____								
COLLECTION DATE YR _____ MO _____ DAY _____ TIME _____ SAMPLER NAME CODE _____ LAB NO _____								
COLLECTION DATE YR _____ MO _____ DAY _____ TIME _____ SAMPLER NAME CODE _____ LAB NO _____								

COMPOSITE SAMPLE DATA

BEGIN DATE YR _____ MO _____ DAY _____ TIME _____ LAB NO _____

END DATE YR _____ MO _____ DAY _____ TIME _____ EQUIPMENT CODE _____

FLOW RATE _____ (50050) MGD _____ (50051) 1000's OF GAL DURING COMPOSITE PERIOD SAMPLER NAME CODE _____

WATER CHEMISTRY

LAB NO AMTEDCOS

SAMPLE CONTAINER	TAG COLOR	PRESERVATIVE	LABORATORY MOBILE	LABORATORY REGION	ANALYSES
1 Gal Jug	Blue	None		✓	PCB

CONTACT Robert Fine 913/621-1240 SAMPLE ☒ YES SPLIT ☐ NO _____

REMARKS 20 Aliquots taken between 300 and 400 feet west of sewer discharge line along creek tributary

EPA 920 6-75 GSA KC 78 1695

FIELD SHEET

ENVIRONMENTAL PROTECTION AGENCY — REGION VII

SURVEILLANCE AND ANALYSIS DIVISION, 25 FUNSTON ROAD, KANSAS CITY, KANSAS 65115

STATION IDENTIFICATION

SURVEY NO _____ SURVEY LEADER Robert Fine STORET NO _____

DESCRIPTION Holden, Mo. - Rose Chemical

GRAB SAMPLE DATA

FLOW	TEMP °C AIR	TEMP °C WATER	PH	DO	FECAL COLI	OIL & GREASE	OTHER	OTHER
☐ 00059 (GPM) ☐ 00061 (CFS)	00020	00010						

COLLECTION DATE YR 86 June DAY 26 TIME _____ SAMPLER NAME CODE _____ LAB NO AMJED006

			00400					

COLLECTION DATE YR _____ MO _____ DAY _____ TIME _____ SAMPLER NAME CODE _____ LAB NO _____

COLLECTION DATE YR _____ MO _____ DAY _____ TIME _____ SAMPLER NAME CODE _____ LAB NO _____

COLLECTION DATE YR _____ MO _____ DAY _____ TIME _____ SAMPLER NAME CODE _____ LAB NO _____

COMPOSITE SAMPLE DATA

BEGIN DATE YR _____ MO _____ DAY _____ TIME _____ LAB NO _____

END DATE YR _____ MO _____ DAY _____ TIME _____ EQUIPMENT CODE _____

FLOW RATE _____ 50050 MGD _____ 50052 1000 ℓ OF GAL DURING COMPOSITE PERIOD SAMPLER NAME CODE _____

WATER CHEMISTRY LAB NO AMJED006

SAMPLE CONTAINER	TAG COLOR	PRESERVATIVE	LABORATORY MOBILE	LABORATORY REGION	ANALYSES
8 oz. JAR	Blue	None		✓	PCB

CONTACT Robert Fine 913/621-6240 SAMPLE ☒ YES SPLIT ☐ NO

REMARKS 20 Aliquots taken between 400 and 500 feet west of sewer discharge line along creek tributary

7 EPA 9261 6 75 GSA KC 78-1695

FIELD SHEET

ENVIRONMENTAL PROTECTION AGENCY — REGION VII

SURVEILLANCE AND ANALYSIS DIVISION, 25 FUNSTON ROAD, KANSAS CITY, KANSAS 65115

STATION IDENTIFICATION

SURVEY NO _____ SURVEY LEADER Robert Fine STORET NO _____

DESCRIPTION Holden, Mo. - Rose Chemical

GRAB SAMPLE DATA

FLOW	TEMP °C AIR	TEMP °C WATER	PH	DO	FECAL COLI	OIL & GREASE	OTHER	OTHER
☐ 00059 (GPM) ☐ 00061 (CFS)	00020	00010						

COLLECTION DATE YR 86 June DAY 16 TIME _____ SAMPLER NAME CODE _____ LAB NO AMJ8D007

			00400					

COLLECTION DATE YR _____ MO _____ DAY _____ TIME _____ SAMPLER NAME CODE _____ LAB NO _____

COLLECTION DATE YR _____ MO _____ DAY _____ TIME _____ SAMPLER NAME CODE _____ LAB NO _____

COLLECTION DATE YR _____ MO _____ DAY _____ TIME _____ SAMPLER NAME CODE _____ LAB NO _____

COMPOSITE SAMPLE DATA

BEGIN DATE YR _____ MO _____ DAY _____ TIME _____ LAB NO _____

END DATE YR _____ MO _____ DAY _____ TIME _____ EQUIPMENT CODE _____

FLOW RATE _____ 50050 MGD _____ 50052 1000's OF GAL DURING COMPOSITE PERIOD SAMPLER NAME CODE _____

WATER CHEMISTRY LAB NO AMJ8D007

SAMPLE CONTAINER	TAG COLOR	PRESERVATIVE	LABORATORY MOBILE	LABORATORY REGION	ANALYSES
8 oz Jar	Blue	None		✓	PCB

CONTACT Robert Fine 913/621-624-0 SAMPLE ☑ YES SPLIT ☐ NO

REMARKS 20 Aliquots taken between 500 and 600 feet west of sewer discharge line along unk tributary

7 EPA 9763 6 75

GSA-KC 78-1695

FIELD SHEET

ENVIRONMENTAL PROTECTION AGENCY – REGION VII

SURVEILLANCE AND ANALYSIS DIVISION, 25 FUNSTON ROAD, KANSAS CITY, KANSAS 65115

STATION IDENTIFICATION

SURVEY NO _____ SURVEY LEADER Robert Fine STORET NO _____

DESCRIPTION Holden, Mo - Rose Chemical

GRAB SAMPLE DATA

FLOW	TEMP °C		PH	DO	FECAL COLI	OIL & GREASE	OTHER	OTHER
☐ 00059 (GPM) ☐ 00061 (CFS)	AIR 00020	WATER 00010						

COLLECTION DATE YR 86 MO June DAY 16 TIME _____ SAMPLER NAME CODE _____ LAB NO AMJ4D008

00400

COLLECTION DATE YR _____ MO _____ DAY _____ TIME _____ SAMPLER NAME CODE _____ LAB NO _____

COLLECTION DATE YR _____ MO _____ DAY _____ TIME _____ SAMPLER NAME CODE _____ LAB NO _____

COLLECTION DATE YR _____ MO _____ DAY _____ TIME _____ SAMPLER NAME CODE _____ LAB NO _____

COMPOSITE SAMPLE DATA

BEGIN DATE YR _____ MO _____ DAY _____ TIME _____ LAB NO _____

END DATE YR _____ MO _____ DAY _____ TIME _____ EQUIPMENT CODE _____

FLOW RATE _____ 50050 MGD _____ 50052 1000 s OF GAL DURING COMPOSITE PERIOD SAMPLER NAME CODE _____

WATER CHEMISTRY

LAB NO AMJ4D008

SAMPLE CONTAINER	TAG COLOR	PRESERVATIVE	LABORATORY MOBILE	LABORATORY REGION	ANALYSES
8 oz. Jar	Blue	None		✓	PCB

CONTACT Robert Fine 913/221-2240 SAMPLE ☑ YES SPLIT ☐ NO _____

REMARKS 20 Aliquots taken between 600 and 700 feet west of sewer discharge line along creek tributary

7 EPA 9261 6 75 GSA-KC-78-1695

FIELD SHEET

ENVIRONMENTAL PROTECTION AGENCY — REGION VII

SURVEILLANCE AND ANALYSIS DIVISION, 25 FUNSTON ROAD, KANSAS CITY, KANSAS 65115

STATION IDENTIFICATION

SURVEY NO _____ SURVEY LEADER Robert Fine STORET NO _____

DESCRIPTION Holden, Mo. - Rose Chemical

GRAB SAMPLE DATA

FLOW	TEMP °C AIR	TEMP °C WATER	PH	DO	FECAL COLI	OIL & GREASE	OTHER	OTHER
☐ 00059 (GPM) ☐ 00061 (CFS)	00020	00010						

COLLECTION DATE YR 86 June DAY 16 TIME _____ SAMPLER NAME CODE _____ LAB NO AMJ8D009

			00400					

COLLECTION DATE YR _____ MO _____ DAY _____ TIME _____ SAMPLER NAME CODE _____ LAB NO _____

COLLECTION DATE YR _____ MO _____ DAY _____ TIME _____ SAMPLER NAME CODE _____ LAB NO _____

COLLECTION DATE YR _____ MO _____ DAY _____ TIME _____ SAMPLER NAME CODE _____ LAB NO _____

COMPOSITE SAMPLE DATA

BEGIN DATE YR _____ MO _____ DAY _____ TIME _____ LAB NO _____

END DATE YR _____ MO _____ DAY _____ TIME _____ EQUIPMENT CODE _____

FLOW RATE _____ 50050 MGD _____ 50052 1000 s OF GAL DURING COMPOSITE PERIOD SAMPLER NAME CODE _____

WATER CHEMISTRY

LAB NO AMJ8D009

SAMPLE CONTAINER	TAG COLOR	PRESERVATIVE	LABORATORY MOBILE	LABORATORY REGION	ANALYSES
8 oz. Jar	Blue	None		✓	PCB

CONTACT Robert Fine 913/621-6240 SAMPLE ☒ YES SPLIT ☐ NO

REMARKS 20 Aliquots taken between 700 and 800 feet west of sewer discharge line along rock tributary.

GSA KC-78 1695

FIELD SHEET

ENVIRONMENTAL PROTECTION AGENCY — REGION VII

SURVEILLANCE AND ANALYSIS DIVISION, 25 FUNSTON ROAD, KANSAS CITY, KANSAS 65115

STATION IDENTIFICATION

SURVEY NO _____ SURVEY LEADER Robert Fine STORET NO _____

DESCRIPTION Holden, Mo. - Rose Chemical

GRAB SAMPLE DATA

FLOW	TEMP °C AIR	TEMP °C WATER	PH	DO	FECAL COLI	OIL & GREASE	OTHER	OTHER
☐ 00059 (GPM) ☐ 00061 (CFS)	00020	00010						

COLLECTION DATE YR 86 MO June DAY 16 TIME _____ SAMPLER NAME CODE _____ LAB NO AMJ 8D011

00400

COLLECTION DATE YR _____ MO _____ DAY _____ TIME _____ SAMPLER NAME CODE _____ LAB NO _____

COLLECTION DATE YR _____ MO _____ DAY _____ TIME _____ SAMPLER NAME CODE _____ LAB NO _____

COLLECTION DATE YR _____ MO _____ DAY _____ TIME _____ SAMPLER NAME CODE _____ LAB NO _____

COMPOSITE SAMPLE DATA

BEGIN DATE YR _____ MO _____ DAY _____ TIME _____ LAB NO _____

END DATE YR _____ MO _____ DAY _____ TIME _____ EQUIPMENT CODE _____

FLOW RATE _____ 50050 MGD _____ 50052 1000's OF GAL DURING COMPOSITE PERIOD SAMPLER NAME CODE _____

WATER CHEMISTRY LAB NO AMJ 8D011

SAMPLE CONTAINER	TAG COLOR	PRESERVATIVE	LABORATORY MOBILE	LABORATORY REGION	ANALYSES
8 oz. Jar	Blue	None		✓	PCB

CONTACT Robert Fine 913/621-6240 SAMPLE ☒ YES SPLIT ☐ NO _____

REMARKS 20 Aliquots taken from around the containment pond walls

EPA 9261 (6-75) GSA-KC-78 1695

FIELD SHEET

ENVIRONMENTAL PROTECTION AGENCY — REGION VII

SURVEILLANCE AND ANALYSIS DIVISION, 25 FUNSTON ROAD, KANSAS CITY, KANSAS 65115

STATION IDENTIFICATION

SURVEY NO _____ SURVEY LEADER Robert Fine STORET NO _____

DESCRIPTION Holden, Mo - Rose Chemical

GRAB SAMPLE DATA

FLOW	TEMP °C AIR	TEMP °C WATER	PH	DO	FECAL COLI	OIL & GREASE	OTHER	OTHER
☐ 00059 (GPM) ☐ 00061 (CFS)	00020	00010						

COLLECTION DATE YR 86 Jun DAY 16 TIME _____ SAMPLER NAME CODE _____ LAB NO AMJ8D010

00400

COLLECTION DATE YR _____ MO _____ DAY _____ TIME _____ SAMPLER NAME CODE _____ LAB NO _____

COLLECTION DATE YR _____ MO _____ DAY _____ TIME _____ SAMPLER NAME CODE _____ LAB NO _____

COLLECTION DATE YR _____ MO _____ DAY _____ TIME _____ SAMPLER NAME CODE _____ LAB NO _____

COMPOSITE SAMPLE DATA

BEGIN DATE YR _____ MO _____ DAY _____ TIME _____ LAB NO _____

END DATE YR _____ MO _____ DAY _____ TIME _____ EQUIPMENT CODE _____

FLOW RATE _____ 50050 MGD _____ 50052 1000 s OF GAL DURING COMPOSITE PERIOD SAMPLER NAME CODE _____

WATER CHEMISTRY

LAB NO AMJ4D010

SAMPLE CONTAINER	TAG COLOR	PRESERVATIVE	LABORATORY MOBILE	LABORATORY REGION	ANALYSES
8 oz. Jar	Blue	None		✓	PCB

CONTACT Robert Fine 913/621-6240 SAMPLE ☒ YES SPLIT ☐ NO

REMARKS 20 Aliquots from the intersection w/ the sewer line to the containment ponds inside the diversion ditch.

7 EPA 9261 16 75 GSA KC 78-1695