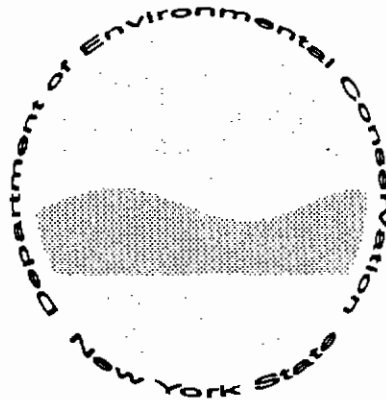


ENGINEERING INVESTIGATIONS AT INACTIVE HAZARDOUS WASTE SITES

FINAL PRELIMINARY SITE ASSESSMENT REPORT

Stauffer Chemical -
Whittaker Subdivision
Town of Lewiston

Site No. 932034
Niagara County



Prepared for:
New York State
Department of
Environmental Conservation

50 Wolf Road, Albany, New York 12233
Thomas C. Jorling, *Commissioner*

Division of Hazardous Waste Remediation
Michael J. O'Toole, Jr., *Director*

By:
E.C. JORDAN CO.
Portland, Maine

December 1992

VOLUME II



NYSDEC SUPERFUND STANDBY CONTRACT
WORK ASSIGNMENT NO. D002472-6.1

FINAL PRELIMINARY SITE ASSESSMENT REPORT
VOLUME II

STAUFFER CHEMICAL - WHITTAKER SUBDIVISION
LEWISTON, NEW YORK

SITE NO. 932034
NIAGARA COUNTY

Prepared for:

New York State Department of Environmental Conservation
Albany, New York

Submitted by:

E.C. Jordan Co.
Portland, Maine

December 1992

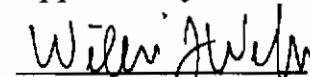
Prepared by:


Deborah H.S. Cianchette, R.G.
Site Manager
E.C. Jordan Co.

Submitted by:


Glenn L. Daukas, P.G.
Project Manager
E.C. Jordan Co.

Approved by:


William J. Weber
NSSC Program Manager
E.C. Jordan Co.



**FINAL PRELIMINARY SITE ASSESSMENT REPORT
STAUFFER CHEMICAL - WHITTAKER SUBDIVISION SITE**

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APPENDIX A
GEOPHYSICAL SUMMARY REPORT

E.C. Jordan Co.



MEMORANDUM

Date: September 2, 1992

From: Scott F. Calkin, Geophysicist

To: Cathy Lanois, Site Manager and Deborah Cianchette,
Project Manager

Subject: Geophysical Survey Summary Report - Ground-
penetrating Radar Clearance Survey, New York State
Department of Environmental Conservation/Stauffer
Chemical - Whittaker Subdivision, Site No.
932034/Niagra County, New York.

This summary report serves to document the findings of the ground-penetrating radar (GPR) survey conducted during the Preliminary Site Assessment (Task 3-6) on May 26-27, 1992. This work was conducted for the New York State Department of Environmental Conservation (NYSDEC). Field personnel conducting the survey included Scott F. Calkin, Geophysicist, Brian Johnson, Site Hydrogeologist, and Glenn Daukas, Project Manager.

The survey was conducted with a GSSI System III GPR unit. Three hundred and 500 mega-hertz antennas were used for profiling. The unit was calibrated over a sewer line of known depth. Refer to the accompanying appendix (Appendix A) and/or the Program QAPP (Jordan, 1992) for more detailed discussion on the GPR method and geophysical surveying. Data quality across the site was generally very good. Data was collected and interpreted in the field to provide information sufficient to guide the location of tentatively staked explorations.

Eighteen proposed drilling locations were surveyed with GPR. Surveying was conducted to verify that the proposed intrusive explorations were clear of underground utilities (i.e., gas lines, water mains, and sewer lines) and other underground structures (i.e., leach fields and septic tanks). Since the Whittaker Subdivision is a residential area, it was felt that this type of survey was required, primarily from a health and safety standpoint. GPR profiling also provided depths to bedrock at some locations in the northern portion of the site, specifically in the areas between Elliot Drive and the Niagra Escarpment.

Due to the presence of underground utilities in the front yards of some residences, tentative locations were moved to a less sensitive location. In general, staked locations were not moved more than five feet from their original position. The data quality objectives of the borings and monitoring wells were not sacrificed from relocating any of the boring or monitoring well locations.

APPENDIX A

GROUND-PENETRATING RADAR PROFILING

INTRODUCTION

The GPR technique uses high frequency radio waves to determine the presence of subsurface objects and structures. Energy is radiated downward into the subsurface from an antenna that is pulled slowly across the ground at speeds varying from about 0.25 to 5 mph, depending on the amount of detail desired and the nature of the target. The radio wave energy is reflected from surfaces where there is a contrast in the electrical properties of subsurface materials. These surfaces may be naturally occurring geologic horizons (e.g., soil layers, changes in moisture content, voids and fractures in bedrock) or manmade (e.g., buried utilities, tanks, drums). The reflected energy is processed and displayed as a continuous strip chart recording of distance versus time (where time can be thought of as proportional to depth). The depth of penetration of a GPR system is highly site-specific, and depends (among other factors) on (1) the soil types at the site (clean sands are best), (2) moisture conditions (dry is best), and (3) the frequency of the antenna (the lower the frequency, the deeper the penetration, and the less the resolution capability). Typical applications for GPR include delineating the boundaries of buried hazardous waste materials and the perimeters of abandoned landfills; finding steel reinforcement bars and voids in concrete structures; recording the depth of geological interfaces, bedrock, and coal seams; locating and mapping buried utilities; bottom and shallow sub-bottom profiling on lakes; and determining glacial ice stratification and thickness.

PRINCIPLES

The radar system consists of a control unit, an antenna assembly (transmitter/receiver), and a recording device for analog field recordings. A tape-recording unit may also be present for further data processing after field activities are completed. The antenna transmits electromagnetic (EM) pulses of short duration into the ground. The pulses are reflected from geologic or manmade surfaces and are picked up by the receiver, which transmits the signals to the control unit for processing and analog display. Shallow objects appear near the top of the strip chart recording (less time elapsed between the outgoing pulse and the return of reflected energy), whereas deeper objects appear farther down the recording (more time elapsed). The time required for the EM pulse to traverse the path down to and back from the reflecting medium is measured in nanoseconds (one nanosecond = 1×10^{-9} seconds). The two-way travel time is

TABLE 1
APPROXIMATE VHF ELECTROMAGNETIC PROPERTIES OF VARIOUS MATERIALS*

MATERIAL	RELATIVE DIELECTRIC PERMITTIVITY	PULSE VELOCITY (NS/FT)
AIR	1	1
FRESHWATER	81	9
SEAWATER	81	9
SAND (DRY)	4 to 6	2.0 to 2.4
SAND (SATURATED)	30	5.5
SILT (SATURATED)	10	3.1
CLAY (SATURATED)	8 to 12	2.8 to 3.3
AVERAGE "DIRT"	16	4.0
DRY SANDY COASTAL LAND	10	3.1
MARSHY FORESTED FLAT LAND	12	3.5
RICH AGRICULTURAL LAND	15	3.9
PASTORAL LAND, HILLY, FORESTED	13	3.6
FRESHWATER ICE	4	2.0
PERMAFROST	4 to 8	2.0 to 2.9
GRANITE (DRY)	5	2.2
LIMESTONE	7 to 9	2.6
CONCRETE	6.4	2.5
ASPHALT	3 to 5	1.7 to 2.5

*Modified from Geophysical Survey Systems, Inc.

proportional to the depth of burial of the reflecting medium and is dependent on the dielectric properties of the medium through which the EM pulse travels. The dielectric properties of a medium are related to the moisture content and composition of a material. Figure A-1 depicts the relationship between a single EM pulse generated by the controller and the resulting strip chart recording that would result from many such EM pulses.

The propagation velocity of the EM pulse is determined by the relative dielectric permittivity of the material (ϵ_r) through which the pulse travels. The relative dielectric permittivity is a measure of the degree to which a medium can resist the flow of the EM pulse: the higher the relative permittivity, the lower the resistance to flow, and vice versa. For most earth materials and rocks, the relative dielectric permittivity does not exceed 10 and is always greater than unity, the value for a vacuum. Table A-1 gives typical permittivity values for commonly encountered materials. The dielectric permittivity is related to the propagation velocity by the formula

$$(1) \quad \epsilon_r = (c/V_m)^2,$$

where "c" is the propagation velocity in free space (3×10^8 meters per second or approximately 1 foot per nanosecond), and V_m is the propagation velocity through a material. It follows that

$$\sqrt{\epsilon_r} = c/V_m \text{ or } 1/V_m = (\epsilon_r)^2/c.$$

Since c is approximately equal to 1 ft/ns, then

$$(2) \quad 1/V_m \text{ is approximately equal to } \sqrt{\epsilon_r},$$

where units are in ns/ft (one-way travel time). Formula (2) gives a method for estimating the propagation velocity for a medium (and therefore the depth to a reflecting horizon) if the soil conditions are known. If they are unknown or their properties cannot be estimated accurately enough, a reflector of known depth can often be used to calibrate the GPR recordings to site conditions.

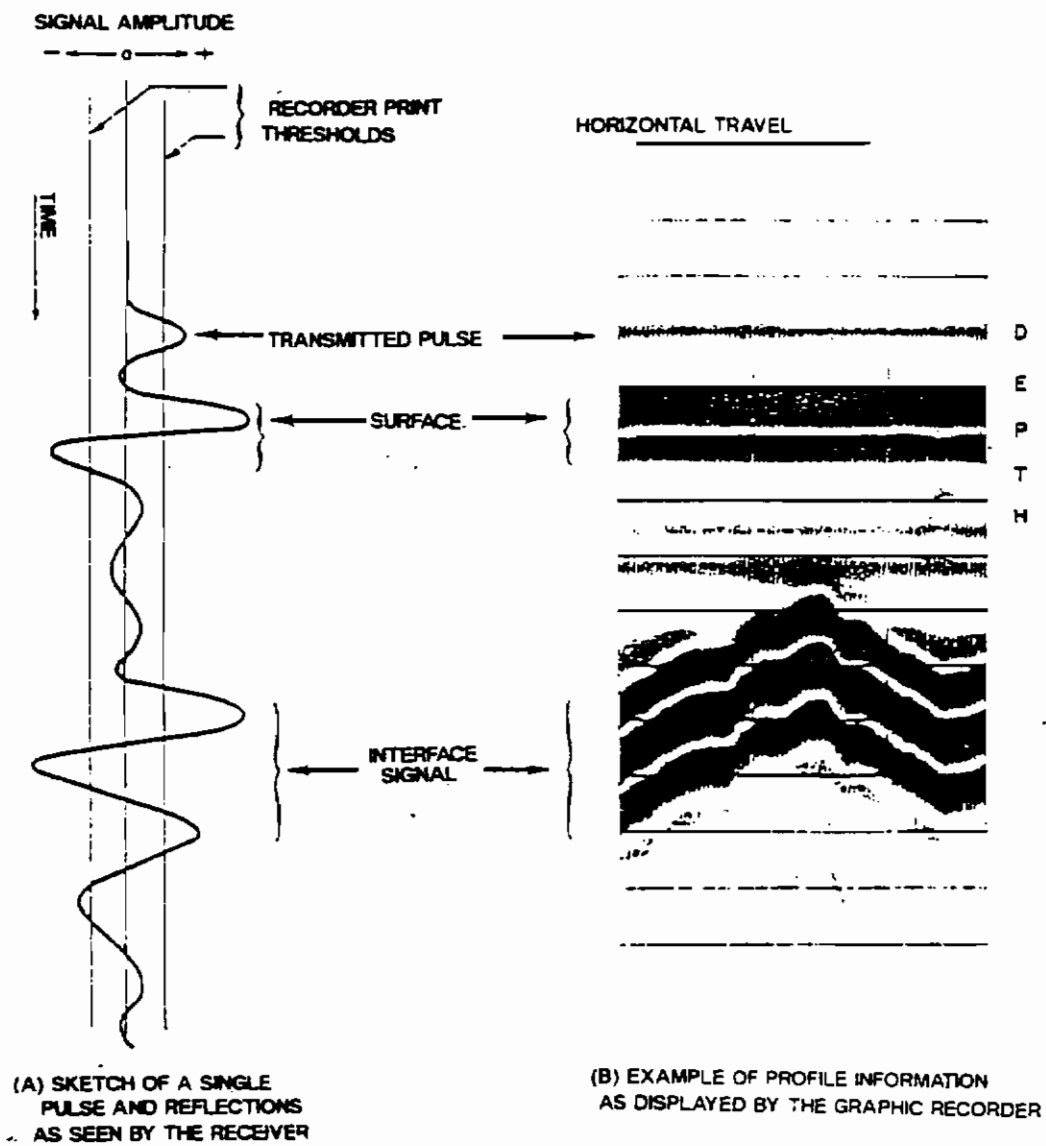


FIGURE 1
TYPICAL GPR SYSTEM DATA

APPENDIX B
SOIL BORING LOGS

E.C. Jordan Co.



ECJORDANCO						BORING/WELL NO.: MW-1			
Project Stauffer Chemical						Site Whittaker Subdivision		Project No. 07060-30	
Client NYSDEC						Logged By J. Cooper		Ground Elev 635.2'	
Drilling Contractor Parrett Wolff			Driller's Name			Rig Type Truck	Start Date 5-29-92	Finish Date 5-29-92	
Drilling Method HSA 4.25"			Protection Level D			P.I.D. (eV) ANU	Casing Size N/A	Auger Size 4.25"	
Soil Drilled 15.3'		Rock Drilled N/A		Total Depth 15.3'	Depth to Groundwater/Date 5.70' from Riser / 0-29-92			Piez. Well Boring ☐ ☒ ☐	

DEPTH (FEET)	SAMPLE NO. & PENETRATION / RECOVERY (FT)	SAMPLE TYPE	SPT BLOWS/6" OR CORE REQ/RQD (X)	SPT-II (BLOWS/FT)	GRAPHIC LOG	SAMPLE DESCRIPTION	USGS GROUP SYMBOL	NOTES ON DRILLING	MONITORING			LAB TESTS
									PI METER	FIELD SCAM	PI METER	
0-2	S-1 2.9/1.0		4/7/7/5	14		Yellow powder in spots, seam of black tarry material. 0-0.2': piece of black coal slag. 0.2-1.0': Brown to reddish brown sandy silt, some fine gravel, dry, loose/ soft.	FILL (GM)	no odor detected	0			
2-4	S-2 2.0/1.5		3/4/4/5	8		0-0.2': Dark brown sandy silt trace fine gravel; yellow powdery material and red brick-colored pebble; damp 0.2-0.4': Black, hard coal-like material. 0.4-1.3': Red to dark brown silt, some fine sand, some fine gravel, firm, damp (drier than bottom of spoon).	FILL (GM)		0			
4-6	S-3 2.0 / 0.5		2/2/6/3	8		Clayey silt, some fine sand, little fine gravel, lenses of yellow powdery material; brick, pieces of coal slag; pink clay, one large piece of gravel, moist.	FILL		0			
6-8	S-4 2.0/1.6		4/7/9/4	16		0-0.8': Black sludgy, clayey material with brick and rock fragments. 0.8-1.6': Light brown clayey silt, some fine sand and fine gravel, well graded, soft, entire spoon saturated.	GM		0			

FIGURE 4-5

SOIL BORING LOG

PROGRAM QUALITY ASSURANCE PROJECT PLAN

NYSDEC CONTRACT NO. D002472

ECJORDANCO						BORING/WELL NO.: MW-1						
Project Stauffer Chemical						Site Whittaker Subdivision			Project No. 07060-30			
Client NYSDEC						Logged By J. Cooper			Ground Elev 635.2'			
Drilling Contractor Parratt Wolff			Driller's Name			Rig Type Truck		Start Date 5-29-92		Finish Date 5-29-92		
Drilling Method HSA 4.25'			Protection Level D			P.I.D. (eV) HNU/TIP		Casing Size N/A		Auger Size 4.25"		
Soil Drilled 15.3'		Rock Drilled N/A		Total Depth 15.3'		Depth to Groundwater/Date 6.70' from river / 6-29-92				Piez. Well Boring ☐ ☒ ☐		
DEPTH (FEET)	SAMPLE NO. & PENETRATION / RECOVERY (FL)	SAMPLE TYPE	SPT BLOWS/8" OR CORE REQ/RQD (X)	SPT-N (BLOWS/FT)	GRAPHIC LOG	SAMPLE DESCRIPTION	UBOS GROUP SYMBOL	NOTES ON DRILLING	MONITORING			LAB TESTS
									PI MEYER FIELD SCAN	PI MEYER FIELD SPACE	DOH	
8-10	S-5 2.0/2.0		11/4/10	5		0.0-1.0': Grey brown silty clay, some fine gravel, lens of medium sand, drier than upper portion of spoon, firm 1.0-2.0': Black to grey silty clay, trace fine gravel, soft to unconsolidated, saturated	GM	Estimate bottom of canal at 9'	0			
10-12	S-6 2.0/1.7		6/10/12/17	22		Reddish brown clayey silt, some fine sand, some fine gravel, firm, moist. (1.3-1.7 is tan)	GM	Gravel in shoe	0			
12-14	S-7 2.0/1.5		17/21/24/28	45		Same as above (reddish brown), visible stratification.	GM		0			
14-14.8	S-8 0.8/0.8					Same as 10-12' description Auger refusal at 15.3'	GM		0			

FIGURE 4-5
SOIL BORING LOG
PROGRAM QUALITY ASSURANCE PROJECT PLAN
NYSDEC CONTRACT NO. D002472

ECJORDANCO						BORING/WELL NO: MW-2					
Project NYSDEC - Stauffer Chemical						Site Whittaker Subdivision		Project No. 07060-30			
Client NYSDEC						Logged By B. Johnson		Ground Elev 626.1'			
Drilling Contractor Parratt Wolff			Driller's Name Ron Bush			Rig Type Truck		Start Date 5-28-92		Finish Date 5-28-92	
Drilling Method 4.25" HSA			Protection Level D			P.L.D. (eV) 10.2		Casing Size N/A		Auger Size 4.25"	
Soil Drilled 8'		Rock Drilled N/A		Total Depth 8'		Depth to Groundwater/Date ~4' in boring		Piez. Well Boring ☐ ☒ ☒			

DEPTH (FEET)	SAMPLE NO. & PENETRATION / RECOVERY (FT)	SAMPLE TYPE	SPT BLOWS/8" OR CORE REQ/RQD (%)	SPT-II (BLOWS/FT)	GRAPHIC LOG	SAMPLE DESCRIPTION	USGS GROUP SYMBOL	NOTES ON DRILLING	MONITORING			LAB TESTS
									PT METER FIELD SCAL	PT METER	HEAD SPACE	
0 - 1	S-1 1.5 / 0.5	X	2/4/6	10		Brown fine to medium SAND, little silt, trace coarse sand to fine gravel, Blue and red, green, yellow, and grey pieces.	SP		8			
1 - 2	S-2 2.0 / 0.6	X	2/5/10/20	15		Foundry Sand, grey and white with red, green, blue, yellow; poorly graded, non plastic, medium dense, fill	SP		6			
2 - 4	S-3 2.0 / 0.3	X	1/1/1/1	2		Black and white Fibrous material, fine with some wood fragments and white fine sand	N/A		12			
4 - 6	S-4 2.0 / 1.2	X	1/1/1/50	3		Lower 0-0.5': Reddish brown silty fine sand, dense	SM		Bkgd			
6 - 8						Bottom of Exploration at 8'.						

FIGURE 4-5
SOIL BORING LOG
PROGRAM QUALITY ASSURANCE PROJECT PLAN
NYSDEC CONTRACT NO. D002472

ECJORDAN CO					BORING/WEILL NO: MW-3				
Project Stauffer chemical					Site Whittaker Subdivision			Project No. 07060-30	
Client NYSDEC					Logged By B. Johnson			Ground Elev 622.2'	
Drilling Contractor Parnett Wolff			Driller's Name Ron Bush		Rig Type Truck		Start Date 5-29-92		Finish Date 6-1-92
Drilling Method HSA 4.25"			Protection Level D		P.I.D. (eV) 10.2		Casing Size 4"		Auger Size 4.25"
Soil Drilled 6'		Rock Drilled 10'		Total Depth 16'		Depth to Groundwater/Date 6.74' from viter / 6-29-92		Piez Well Boring ☐ ☒ ☐	

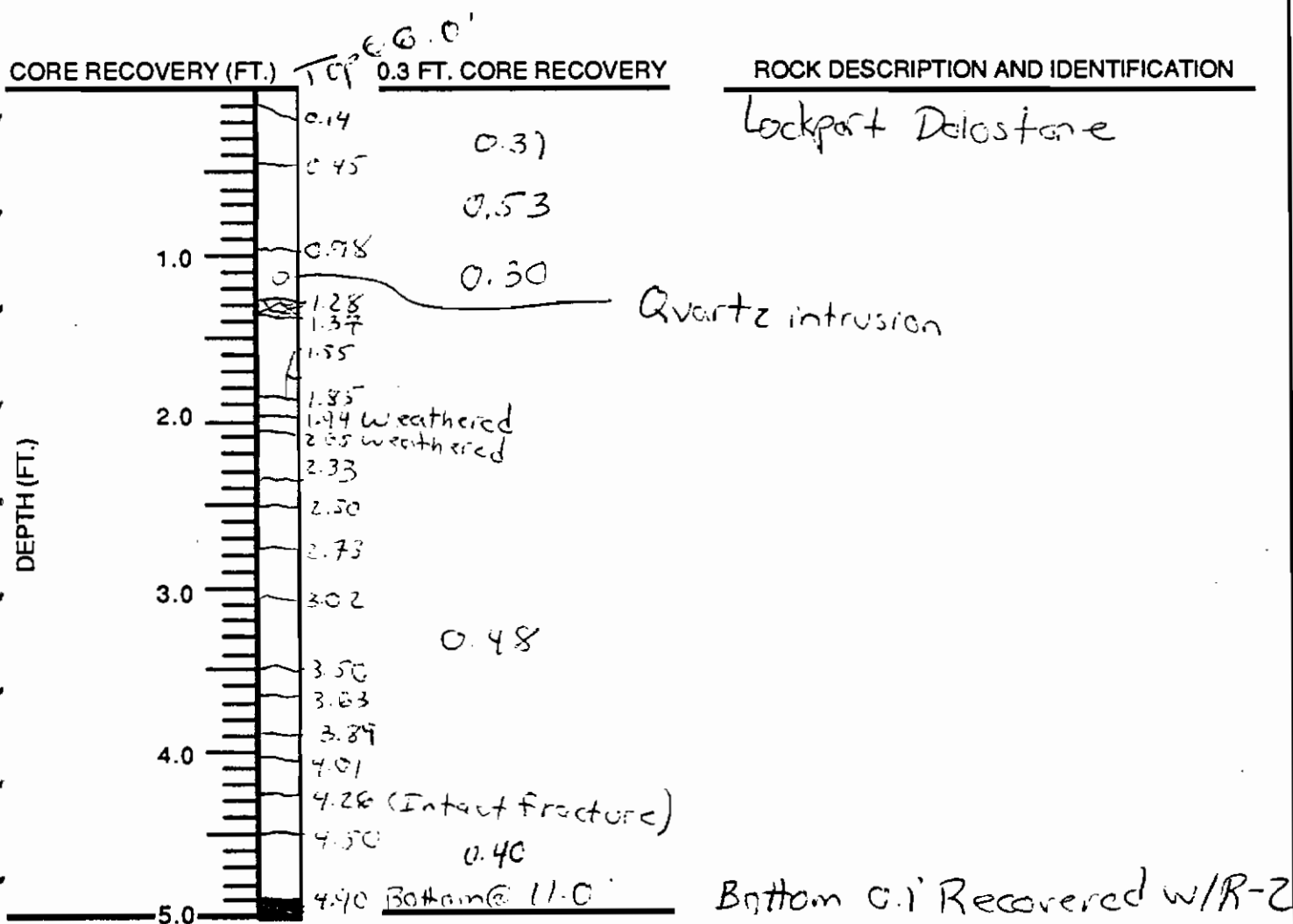
DEPTH (FEET)	SAMPLE NO. & PENETRATION / RECOVERY (FT)	SAMPLE TYPE	SPT BLows/6" OR CONE RES/RQD (%)	SPT-II (Blows/ft)	GRAVEL LOG	SAMPLE DESCRIPTION	USGS GROUP SYMBOL	NOTES ON DRILLING	MONITORING				LAB TESTS
									PUMP				
									PI METER	FIELD SCUM	PI METER	HEAD SPACE	
0	S-1		2/5/6/5	11		Brown silty fine sand, trace organics, poorly graded, nonplastic, medium dense, moist, topsoil	SM		Bkgd				
1 2	2.0 / 0.3												
2	S-2		3/3/8/3	11		Reddish brown silty fine sand, little medium sand, coarse gravel, trace fine subrounded gravel, piece of burned wood, moderately well graded, medium dense, moist	GM						
4	2.0 / 1.5												
4	S-3		3/3/4/50	7		Reddish brown silty fine sand, same as above, root folicles;	GM						
6	1.6												
6	R-1		98% / 35%			Refusal at 5.9'							
11													
11	R-2		100% / 77%										
16													

FIGURE 4-5
SOIL BORING LOG
PROGRAM QUALITY ASSURANCE PROJECT PLAN
NYSDEC CONTRACT NO. D002472

VISUAL IDENTIFICATION ROCK CORES

SHEET 1 OF 1

JOB NO. <u>7060-30</u>	BY <u>B. Johnson</u>	DATE <u>6/1/92</u>	CHK'D BY <u>CEL</u>
BORING NO. <u>mw-3</u>	SAMPLE <u>R-1</u>	CORE DIA. (IN.) <u>4x</u>	DEPTH (FT.) <u>6.0'-11.0'</u>
CORE LENGTH (FT.) <u>5.0</u>	CORE RECOVERY (FT.) <u>4.90</u>	RQD <u>40</u> %	ROCK QUALITY <u>Poor</u>



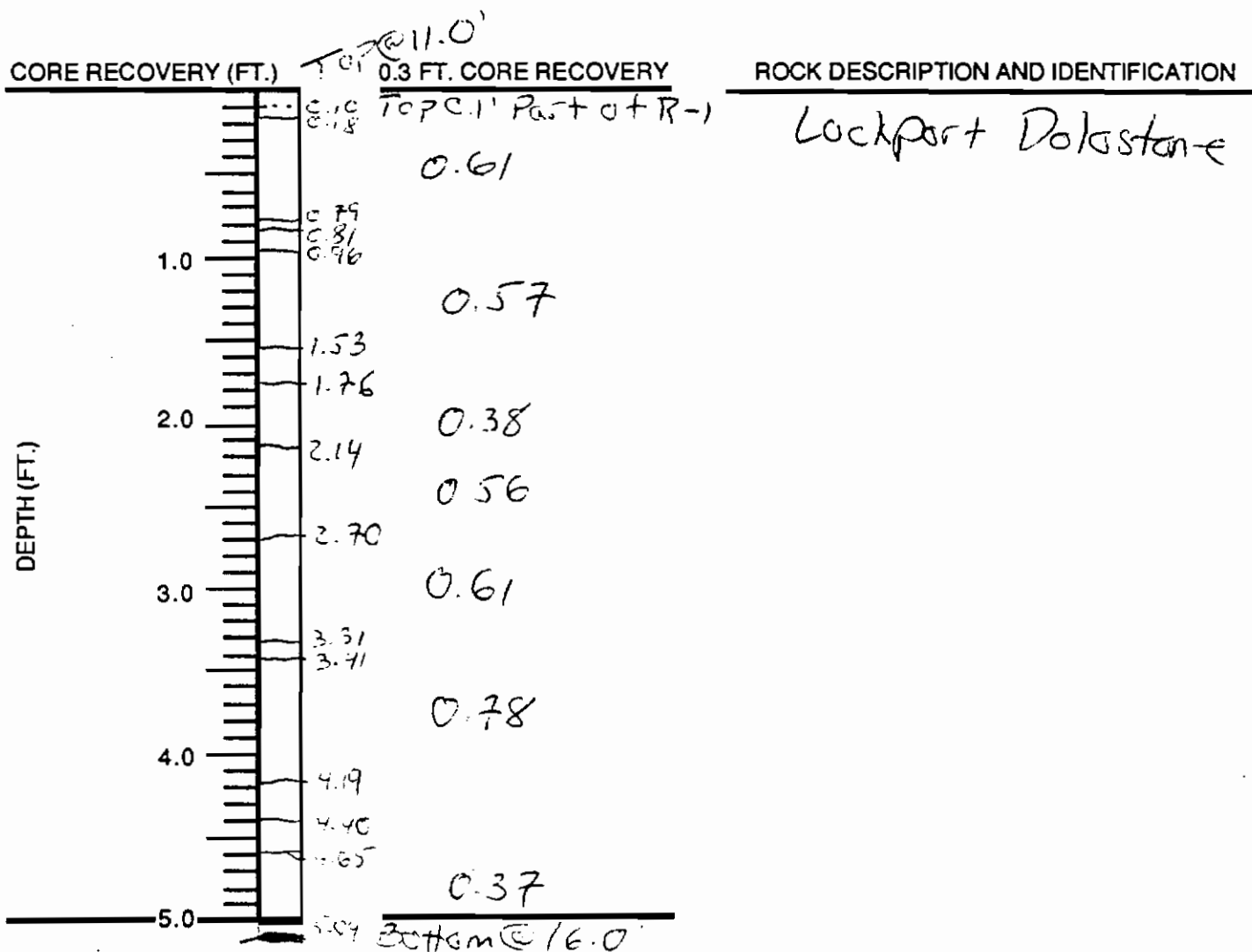
TOTAL 49 FT. TOTAL 2.02 FT. $\div 5.0 = 40\%$

98 (%) 40 (%)

VISUAL IDENTIFICATION ROCK CORES

SHEET 1 OF 1

JOB NO. <u>7060-30</u>	BY <u>B. Johnson</u>	DATE <u>6/1/92</u>	CHK'D BY <u>CEL</u>
BORING NO. <u>MW-3</u>	SAMPLE <u>R-2</u>	CORE DIA. (IN.) <u>HX</u>	DEPTH (FT.) <u>11.0-16.0</u>
CORE LENGTH (FT.) <u>5.0</u>	CORE RECOVERY (FT.) <u>4.96</u>	RQD <u>78</u> %	ROCK QUALITY <u>Good</u>



TOTAL 4.96 FT. TOTAL 3.88 FT. $\div 5.0 = 78\%$

99 (%)

78 (%)

ECJORDANCO						BORING/WELL NO.: MW-4			
Project Stauffer Chemical						Site Whitaker Subdivision		Project No. 07060-30	
Client NYSDEC						Logged By B. Johnson		Ground Elev. 636.4'	
Drilling Contractor Parratt Wolff			Driller's Name Ron Bush		Rig Type Truck	Start Date 5-29-92	Finish Date 5-29-92		
Drilling Method HSA 4.25"			Protection Level D		P.L.D. (eV) 10.2	Casing Size N/A	Auger Size 4.25"		
Soil Drilled 14.6'		Rock Drilled N/A		Total Depth 14.6'	Depth to Groundwater/Date 10.34' from riser/6-29-92		Piez. Well Boring ☐ ☒ ☐		

DEPTH (FEET)	SAMPLE NO. & PENETRATION / RECOVERY (FT)	SAMPLE TYPE	SPT BLOWS/6" OR CORE REQ./RQD (X)	SPT-N (BLOWS/FT)	GRAPHIC LOG	SAMPLE DESCRIPTION	USCS GROUP SYMBOL	NOTES ON DRILLING	MONITORING			LAB TESTS
									PI METER	FIELD SOIL	PI METER	
0-0	S-1 2.0 / 1.0	X	2/3/4/4	7		0.0'-1.0': Brown silty fine SAND, one piece of fine gravel (granite), poorly graded, loose, topsoil, ML 1.0'-2.0': Brown fine SAND, little medium sand, trace to little silt, poorly graded, loose, moist, SP	ML		Bkgd			
5-7	S-2 2.0 / 2.0	X	7/10/11/12	21		Reddish brown silty fine to medium sand, trace coarse sand to fine gravel, and coarse gravel, moderately well graded, medium dense, slightly moist. Cobble encountered at 7.0'.	GM		Bkgd			
10-12	S-3 2.0 / 1.0	X	21/20/22/28	42		10.0'-10.6': Rock 10.6'-12.0': Brown silt, little clay, poorly graded, very stiff, moist to damp Auger refusal at 14.6': Bottom of Exploration at 14.6'	ML					

FIGURE 4-5
SOIL BORING LOG
PROGRAM QUALITY ASSURANCE PROJECT PLAN
NYSDEC CONTRACT NO. D002472

ECJORDANCO						BORING/WELL NO.: MW-5			
Project Stauffer Chemical						Site Whittaker Subdivision		Project No. 07060-30	
Client NYSDEC						Logged By B. Johnson		Ground Elev. 616.8'	
Drilling Contractor Parratt Wolff			Driller's Name Ron Bush			Rig Type		Start Date 5-28-92	
Drilling Method HSA			Protection Level D			P.L.D. (eV) 10.2		Casing Size 4" Auger Size 4.25"	
Soil Drilled 2.6'		Rock Drilled 12.6'		Total Depth 15.2'		Depth to Groundwater/Date RY / 6-29-92		Piez. Well Boring ☐ ☒ ☐	

DEPTH (FEET)	SAMPLE NO. & PENETRATION / RECOVERY (FT)	SAMPLE TYPE	SPT BLOWS/8" OR CORE REC/RQD (K)	SPT-II (BLOWS/FT)	GRAPHIC LOG	SAMPLE DESCRIPTION	USCS GROUP SYMBOL	NOTES ON DRILLING	MONITORING			LAB TESTS
									PI METER	PI METER	HEAD SPACE	
0-2	S-1 2.0 1.7		26/7/11	13		0'-1.2': Brown topsoil, moist 1.2'-1.9': Reddish brown fine to medium SAND, poorly graded, medium dense, moist. Rock at tip of spoon.	ML SP		Bkg			
2-26	S-2		35/50 0.1	85		Rock encountered at 2.5': Highly fractured dolostone Auger refusal at 2.6'. Roller bit to 3.0'.			Bkg			
3-4	R-1		47/0									
4-9	R-2		96/45									
9-12.2	R-3		97/26									
12.2-15.2	R-4		97/30									

FIGURE 4-5
SOIL BORING LOG
PROGRAM QUALITY ASSURANCE PROJECT PLAN
NYSDEC CONTRACT NO. D002472

VISUAL IDENTIFICATION ROCK CORES

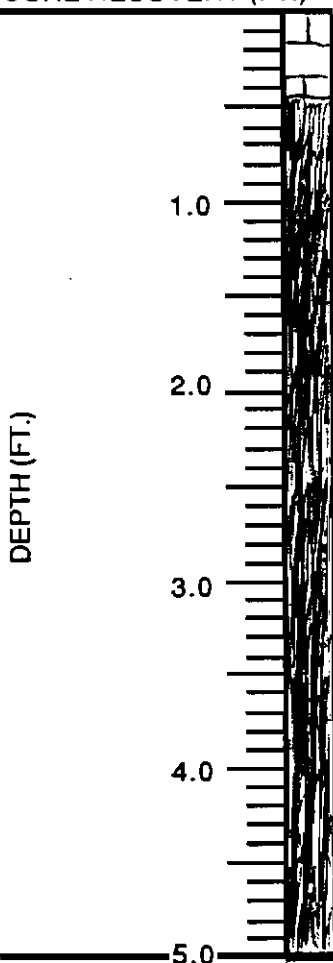
SHEET 1 OF 4

JOB NO. <u>7060-30</u>	BY <u>B. Johnson</u>	DATE <u>5/29/92</u>	CHK'D BY <u>CCL</u>
BORING NO. <u>MW-5</u>	SAMPLE <u>R-1</u>	CORE DIA. (IN.) <u>77</u>	DEPTH (FT) <u>3.0-4.0'</u>
CORE LENGTH (FT.) <u>1.0</u>	CORE RECOVERY (FT.) <u>0.47'</u>	RQD <u>0</u> %	ROCK <u>very</u> QUALITY <u>poor</u>

CORE RECOVERY (FT.) 0.47 0.3 FT. CORE RECOVERY

ROCK DESCRIPTION AND IDENTIFICATION

Lockport Dolomite,
Weathered Rock, core
jam, resulted in having
to stop core @ 1.0'



TOTAL 0.47 FT.

TOTAL 0 FT.

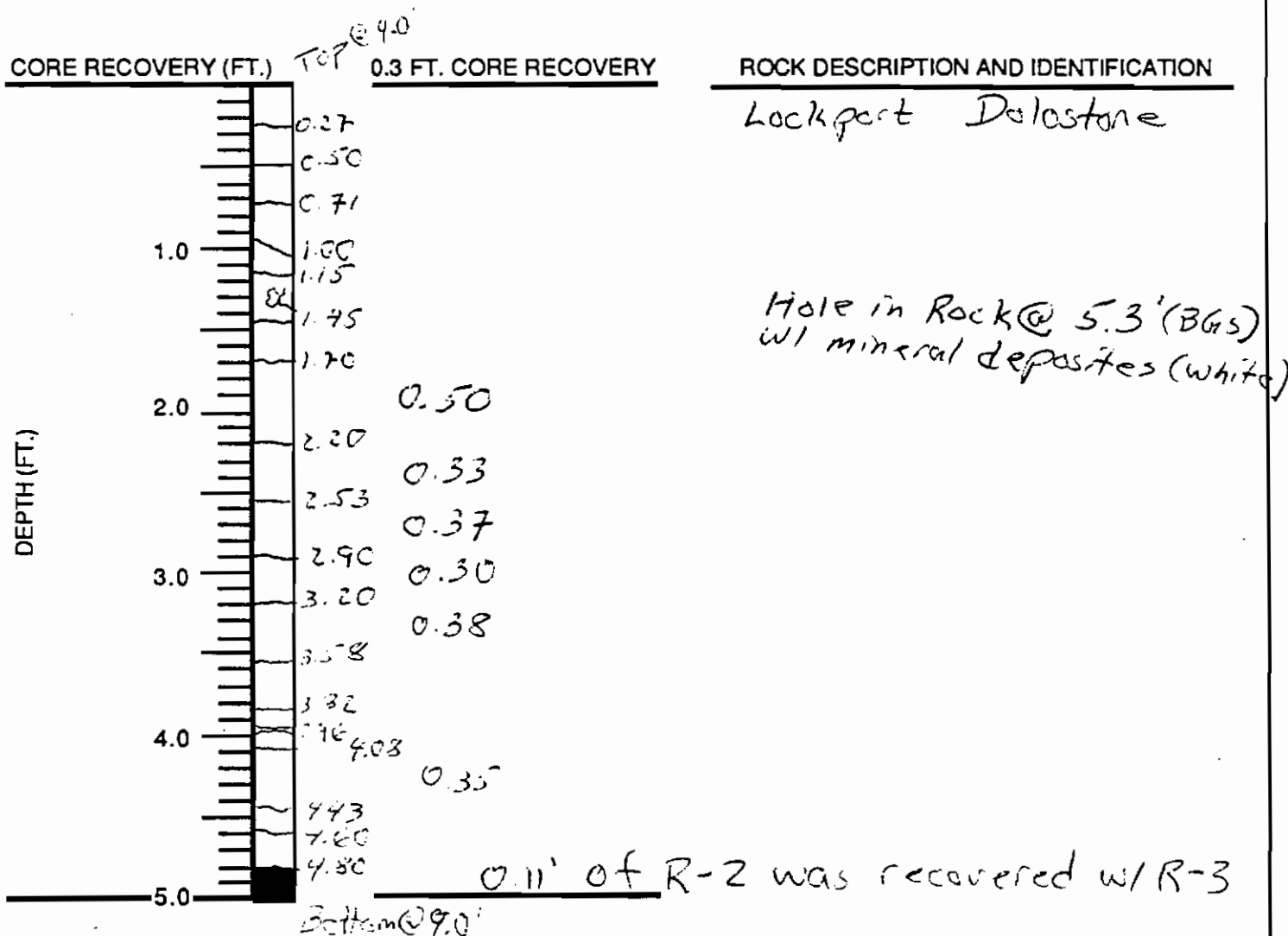
47 (%)

0 (%)

VISUAL IDENTIFICATION ROCK CORES

SHEET 2 OF 4

JOB NO. <u>7060-3C</u>	BY <u>B. Johnson</u>	DATE <u>5/29/92</u>	CHK'D BY <u>CCL</u>
BORING NO. <u>MW-5</u>	SAMPLE <u>R-2</u>	CORE DIA. (IN.) <u>7.75</u>	DEPTH (FT.) <u>4.0-9.0</u>
CORE LENGTH (FT.) <u>5.0</u>	CORE RECOVERY (FT.) <u>4.8</u>	RQD <u>45</u> %	ROCK QUALITY <u>Poor</u>



TOTAL 4.80 FT. TOTAL 2.23 FT. $\div 5.0' = 45\%$

96 (%)

45 (%)

VISUAL IDENTIFICATION ROCK CORES

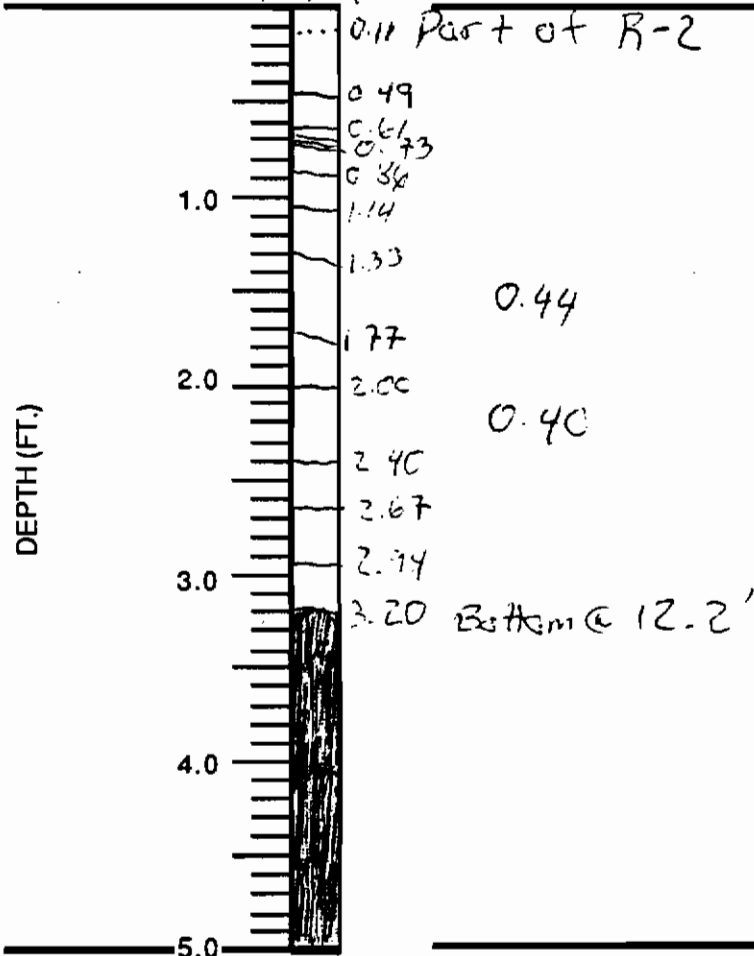
SHEET 3 OF 4

JOB NO. <u>7060-30</u>	BY <u>B. Johnson</u>	DATE <u>5/29/92</u>	CHK'D BY <u>CEL</u>
BORING NO. <u>MW-5</u>	SAMPLE <u>R-3</u>	CORE DIA. (IN.) <u>1 1/8</u>	DEPTH (FT.) <u>9.0-12.2'</u>
CORE LENGTH (FT.) <u>3.2</u>	CORE RECOVERY (FT.) <u>3.09</u>	RQD <u>26</u> %	ROCK QUALITY <u>Poor</u>

CORE RECOVERY (FT.) 0.3 FT. CORE RECOVERY

ROCK DESCRIPTION AND IDENTIFICATION

Lockport Dolomite



TOTAL 3.09 FT.

TOTAL 0.84 FT.

97 (%)

26 (%)

VISUAL IDENTIFICATION ROCK CORES

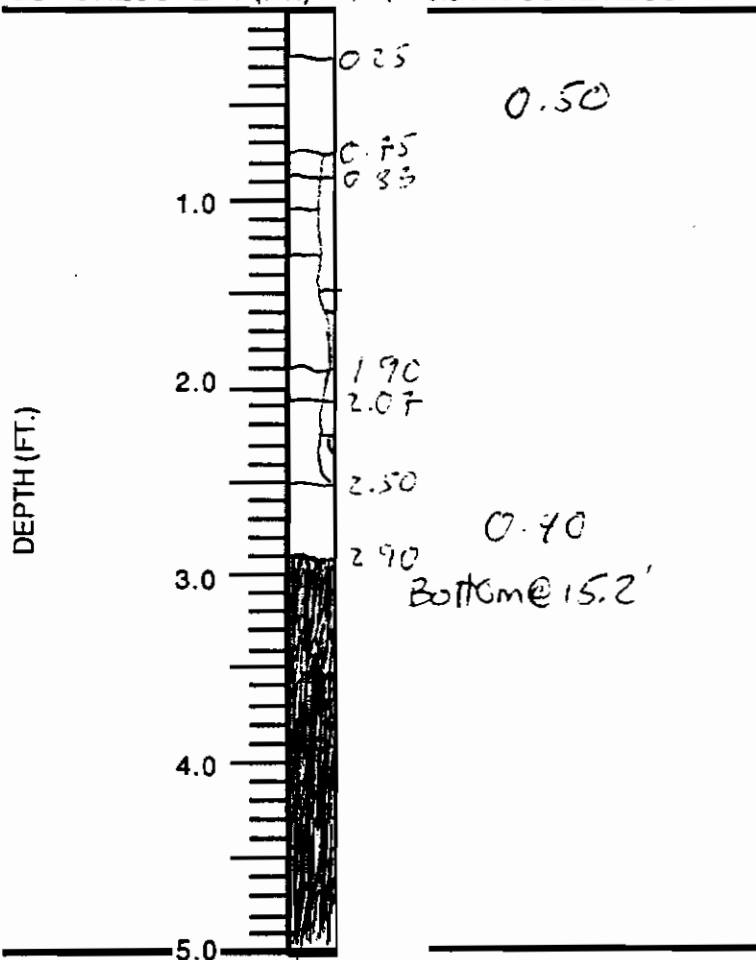
SHEET 4 OF 4

JOB NO. <u>7060-30</u>	BY <u>B. Johnson</u>	DATE <u>5/29/92</u>	CHK'D BY <u>CCL</u>
BORING NO. <u>MW-5</u>	SAMPLE <u>R-4</u>	CORE DIA. (IN.) <u>1 7/8</u>	DEPTH (FT.) <u>12.2 - 15.2'</u>
CORE LENGTH (FT.) <u>3.0</u>	CORE RECOVERY (FT.) <u>2.90</u>	RQD <u>30</u> %	ROCK QUALITY <u>POOR</u>

CORE RECOVERY (FT.) Top @ 12.2' 0.3 FT. CORE RECOVERY

ROCK DESCRIPTION AND IDENTIFICATION

Lockport Dolomite



TOTAL 2.90 FT.

TOTAL 0.9 FT.

97 (%)

30 (%)

ECJORDANCO						BORING/WELL NO.: MW-6			
Project Stauffer chemical						Site Whittaker Subdivision		Project No. 07000-30	
Client NYSDEC						Logged By T. Delano and B. Johnson		Ground Elev 421.1'	
Drilling Contractor Parrott Wolff			Driller's Name			Rig Type Truck	Start Date 5-26-92	Finish Date 5-28-92	
Drilling Method 4.25" HSA			Protection Level D			P.L.D. (eV) 10.2	Casing Size 4"	Auger Size 4.25"	
Soil Drilled 4.5'		Rock Drilled 10.1'		Total Depth 14.6'	Depth to Groundwater/Date 5.92' from rise/6-29-92		Piez. Well Boring ☐ ☒ ☐		

DEPTH (FEET)	SAMPLE NO. & PENETRATION / RECOVERY (FT)	SAMPLE TYPE	SPT BLOWS/8" OR CORE REQ/RQD (X)	SPT-N (BLOWS/FT)	GRAPHIC LOG	SAMPLE DESCRIPTION	USGS GROUP SYMBOL	NOTES ON DRILLING	MONITORING			LAB TESTS
									PI METER FIELD SOON	PI METER HEAD SPACE	POH	
0-2	S-1 2.0 1.0		5/9/7/6	16		Dark brown silty sand, medium dense, poorly graded, moist	SM		Bk			
4.5-9.5	R-1		96/30			Refusal at 4.5'						
9.5-14.6	R-2		100/94									

FIGURE 4-5
SOIL BORING LOG
PROGRAM QUALITY ASSURANCE PROJECT PLAN
NYSDEC CONTRACT NO. D002472

VISUAL IDENTIFICATION ROCK CORES

SHEET 1 OF 2

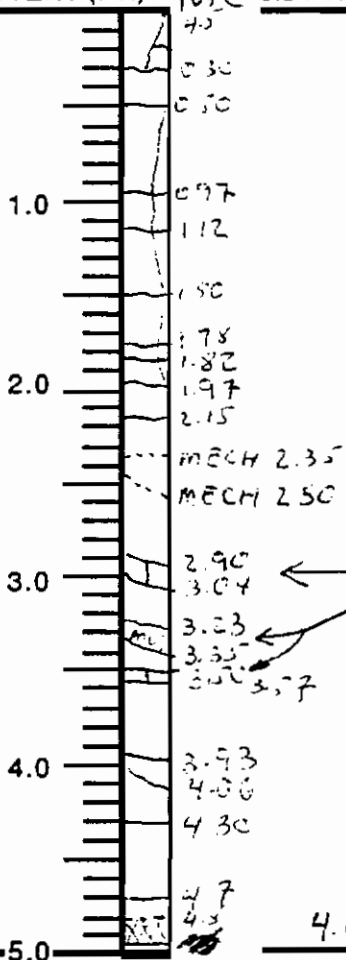
JOB NO. <u>7060-3c</u>	BY <u>B. Johnson</u>	DATE <u>5/28/92</u>	CHK'D BY <u>CCL</u>
BORING NO. <u>MW-6</u>	SAMPLE <u>R-1</u>	CORE DIA. (IN.) <u>HX</u>	DEPTH (FT.) <u>4.5'-9.5'</u>
CORE LENGTH (FT.) <u>5'</u>	CORE RECOVERY (FT.) <u>4.8'</u>	RQD <u>30</u> %	ROCK QUALITY <u>POOR</u>

CORE RECOVERY (FT.) 7070 0.3 FT. CORE RECOVERY

ROCK DESCRIPTION AND IDENTIFICATION

Lockport Dolostone

DEPTH (FT.)



mud seams containing
Red-Brown Clay & silt
2.9 to 3.57' (7.4' to 8.07' Bas)

TOTAL 4.80 FT. TOTAL 1.51 FT. $\div 5.00 = 30\%$

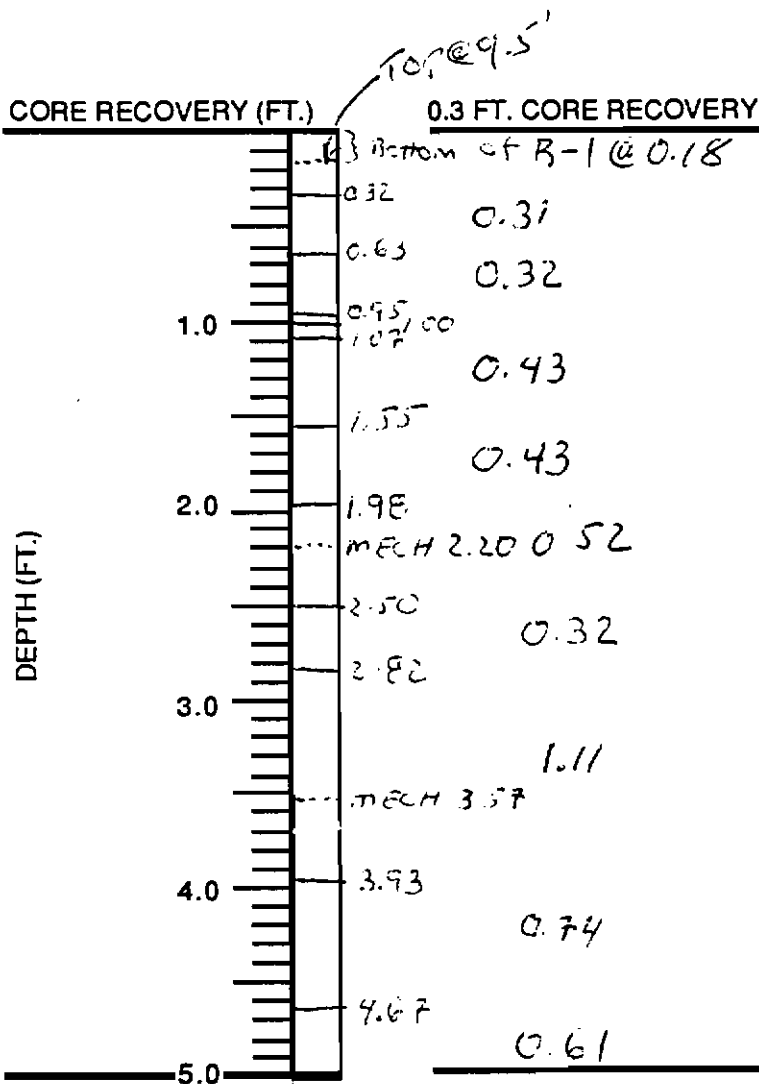
96% (%)

30 (%)

VISUAL IDENTIFICATION ROCK CORES

SHEET 2 OF 2

JOB NO. 7060-30	BY B. Johnson	DATE 5/28/92	CHK'D BY CCL
BORING NO. MW-6	SAMPLE R-2	CORE DIA. (IN.) 4X	DEPTH (FT.) 9.5-14.6
CORE LENGTH (FT.) 5.1'	CORE RECOVERY (FT.) 5.1'	RQD 94 %	ROCK QUALITY Excellent



ROCK DESCRIPTION AND IDENTIFICATION

Lockport Dolostone

TOTAL 5.1 FT. TOTAL 4.79 FT. $\div 5.10 = 94\%$

100 (%) 94 (%)

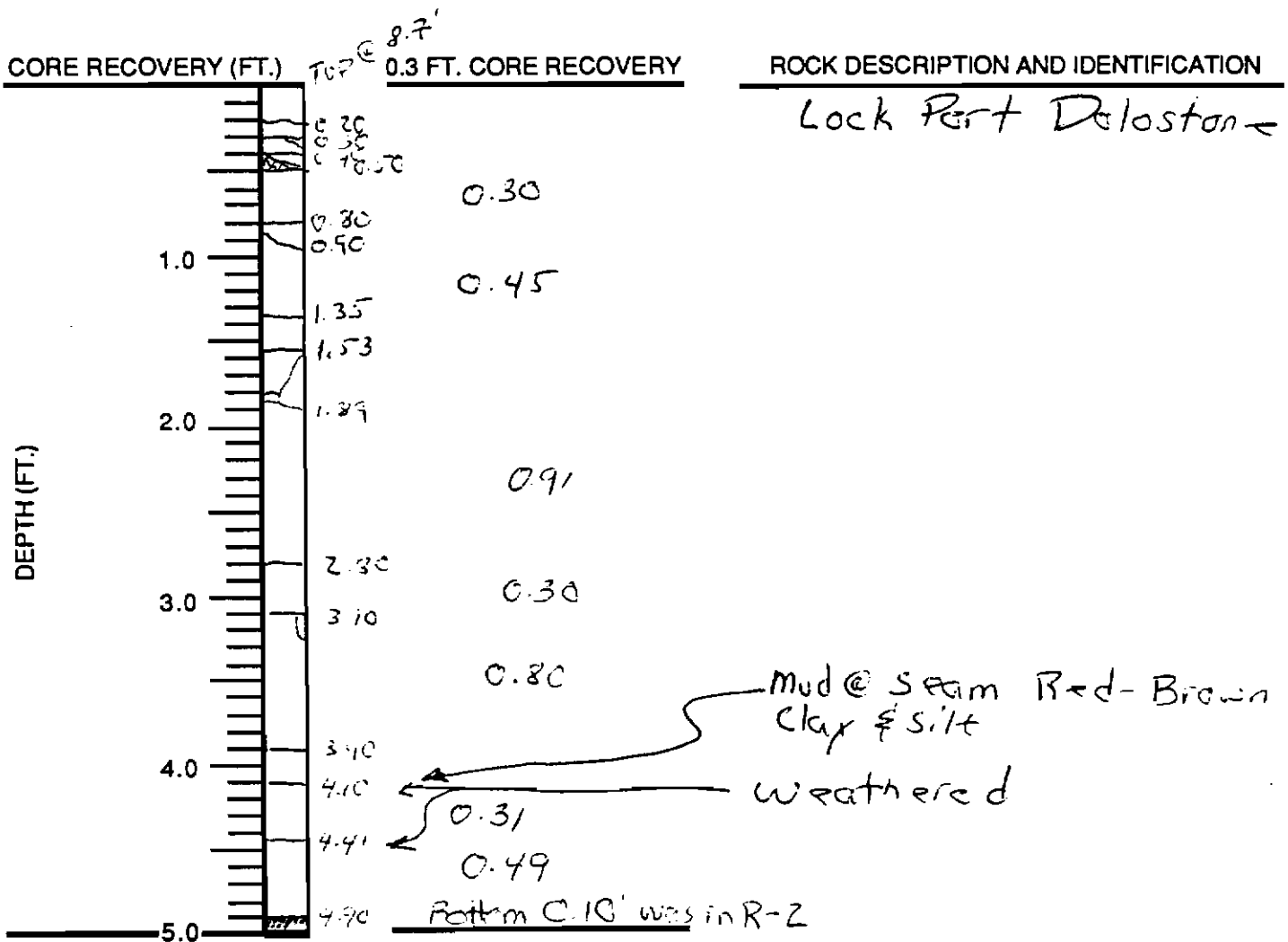
ECJORDANCO					BORING/WELL NO.: MW-7							
Project Stauffer Chemical					Site Whittaker Subdivision		Project No. 07060-30					
Client NYSDEC					Logged By J. Cooper / B. Johnson		Ground Elev. 624.4'					
Drilling Contractor Paratt Wolff			Driller's Name Ron Bush		Rig Type Truck		Start Date 5-26-92		Finish Date 5-27-92			
Drilling Method HSA 4.25"			Protection Level D		P.I.D. (eV) HNU		Casing Size 4"		Auger Size 4.25"			
Soil Drilled 7.5'		Rock Drilled 11.2'		Total Depth 18.8'		Depth to Groundwater/Date 4.43' from riser / 6-29-92		Piez. Well Boring ☐ ☒ ☐				
DEPTH (FEET)	SAMPLE NO. & PENETRATION / RECOVERY (FT)	SAMPLE TYPE	SPT BLOWS/8" OR CORE REQ./RQD (X)	SPT-N (BLOWS/FT)	GRAPHIC LOG	SAMPLE DESCRIPTION	USGS GROUP SYMBOL	NOTES ON DRILLING	MONITORING			LAB TESTS
									PT METER FIELD SCAN	PT METER HEAD SPACE		
0-2	S-1 2.0 1.1		3/6/6/4	12		Brown SILT, little fine sand, trace medium to coarse sand, moderately well graded, medium dense, dry	SM		Btg			
5-6.5	S-2 1.5 1.5		8/9/14	23		Brown to red silt, little fine sand, little fine gravel, stiff, dry, till	ML		Btg			
8.7-13.7	R-1		98/71			Auger refusal at 7.5'						
13.7-18.8	R-2		100/93									

FIGURE 4-5
SOIL BORING LOG
PROGRAM QUALITY ASSURANCE PROJECT PLAN
NYSDEC CONTRACT NO. D002472

VISUAL IDENTIFICATION ROCK CORES

SHEET 1 OF 2

JOB NO. <u>7060-30</u>	BY <u>B. Johnson</u>	DATE <u>5/27/92</u>	CHK'D BY <u>CEL</u>
BORING NO. <u>mw-7</u>	SAMPLE <u>R-1</u>	CORE DIA. (IN.) <u>4X</u>	DEPTH (FT.) <u>8.7'-13.7'</u>
CORE LENGTH (FT.) <u>5.0</u>	CORE RECOVERY (FT.) <u>4.90</u>	RQD <u>71</u> %	ROCK QUALITY <u>Fair</u>



TOTAL 4.90 FT. TOTAL 3.56 FT.

98 (%) 71 (%)

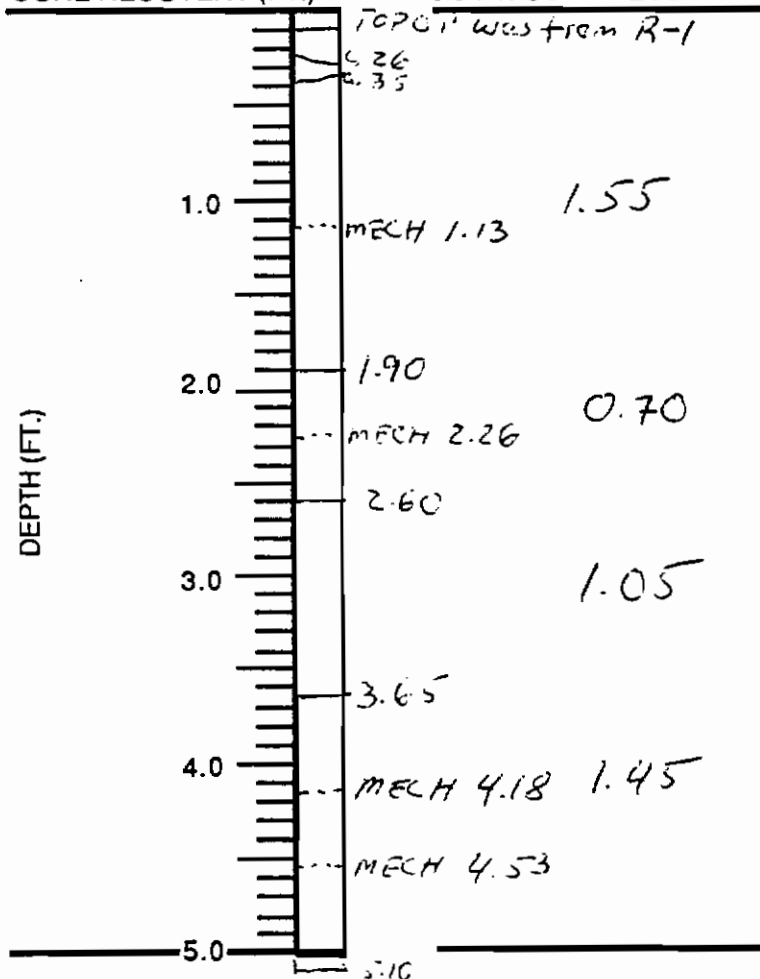
VISUAL IDENTIFICATION ROCK CORES

SHEET 2 OF 2

JOB NO. <u>7060-3C</u>	BY <u>B. Johnson</u>	DATE <u>5/27/92</u>	CHK'D BY <u>CEL</u>
BORING NO. <u>MW-7</u>	SAMPLE <u>R-2</u>	CORE DIA. (IN.) <u>4X</u>	DEPTH (FT.) <u>13.7'-18.5'</u>
CORE LENGTH (FT.) <u>5.10</u>	CORE RECOVERY (FT.) <u>5.10</u>	RQD <u>93</u> %	ROCK QUALITY <u>Excellent</u>

CORE RECOVERY (FT.) 0.3 FT. CORE RECOVERY

ROCK DESCRIPTION AND IDENTIFICATION



Lockport Dolomite

TOTAL 5.1 FT. TOTAL 4.75 FT. $\div$ 5.10 = 93

100 (%)

93 (%)

ECJORDANCO						BORING/WELL NO.: T13-8					
Project Stauffer Chemical						Site Whittaker Subdivision		Project No. 07060-30			
Client NYSDEC						Logged By J. Cooper		Ground Elev 634.8'			
Drilling Contractor Parrott Wolff			Driller's Name		Rig Type Truck		Start Date 5-28-92		Finish Date 5-28-92		
Drilling Method HSA 4.25"			Protection Level D		P.I.D. (eV) TIP		Casing Size N/A		Auger Size 4.25"		
Soil Drilled 14.0'		Rock Drilled NA		Total Depth 14.0'		Depth to Groundwater/Date ~4-6' / 5-28-92		Piez. Well Boring ☐ ☐ ☒			
DEPTH (FEET)	SAMPLE NO. & PENETRATION / RECOVERY (FT)	SAMPLE TYPE	SPT BLOWS/8" OR CORE REC/RQD (K)	SPT-N (BLOWS/FT)	GRAPHIC LOG	SAMPLE DESCRIPTION	UBOS GROUP SYMBOL	NOTES ON DRILLING	MONITORING		LAB TESTS
									PI METER FIELD SCAN	PI METER HEAD SPACE	
0-2	S-1 1.5 / 0.8		3/7 / 50 / 4"	57		0-0.2': weathered cobble 0.2-0.7': Dark brown silt, some fine gravel, some fine sand, dry, stiff and crumbly, some red lenses. 0.7-2.8': Dry dark brown sandy silt with roots; stiff	GM		0		
2-4	S-2 2.0 / 1.1		8/10/8/6	18		0-0.1': Grey very fine sand with some silt, dry, fill -- 0.1-4.1': Sandy silt, dark brown, very fine grained, poorly graded, loose/soft, trace rust coloring throughout spoon, one nodule of burnt coal, trace coarse gravel	SM ML		0		
4-6	S-3 2.0 / 0.7		8/2/2/5	4		Dark grey sandy silt, some fine gravel, some large gravel pieces (2-3 cm); brick fragments, well graded, soft, saturated.	GM		0		
6-8	S-4 2.0 / 2.0		2/1 / 1 / 12"	1		0.0-0.2': Black, tarry silty material, contains fibrous matter, organic (?) decomposed cloth (?) 0.2-2.0': Dark grey silty very fine sand, some gravel, trace grey clay; well graded, very soft (soupy), saturated.	GM		0		

FIGURE 4-5
SOIL BORING LOG
PROGRAM QUALITY ASSURANCE PROJECT PLAN
NYSDEC CONTRACT NO. D002472

ECJORDANCO						BORING/WELL NO: TB-8	
Project Stauffer Chemical						Site Whittaker Subdivision	
Client NYSDEC						Project No. 07060-30	
Drilling Contractor Parratt-Weliff						Logged By J. Cooper	
Driller's Name						Ground Elev. 634.8'	
Rig Type Truck						Start Date 5-28-92	
Finish Date 5-28-92							
Protection Level D						P.L.D. (eV) TIP	
Casing Size N/A						Auger Size 4.25"	
Soil Drilled 14.0'		Rock Drilled N/A		Total Depth 14.0'		Depth to Groundwater/Date ~4-6' / 5-28-92	
				Pier		Well Boring ☒	

DEPTH (FEET)	SAMPLE NO. & PENETRATION / RECOVERY (FT)	SAMPLE TYPE	SPT BLOWS/8" OR CORE REQ/RQD (%)	SPT-11 (BLOWS/FT)	GRAPHIC LOG	SAMPLE DESCRIPTION	USCS GROUP SYMBOL	NOTES ON DRILLING	MONITORING		LAB TESTS
									PT METER FIELD SCANS	PT METER HEAD SPACE	
8-10	S-5 2.0/1.2		Weight of hammer to 1.5', 6"			0.0-0.4': Light brown silt, some fine sand, trace fine gravel, trace coarse sand, firm 0.4-1.2': Black tarry clayey silt, trace large gravel; contains fibrous material - thick, looks woody; soft	GM		0		
10-12	S-6 2.0/1.2		4/10/10/8			Brown silty clay, trace fine gravel, some coarse sand, well graded, very stiff, moist, visible stratification.	GM		0		
12-14	S-7 2.0/1.2		21/34/41/50			Very similar to above sample. Auger refusal at 14'	GM		0		

FIGURE 4-5
SOIL BORING LOG
PROGRAM QUALITY ASSURANCE PROJECT PLAN
NYSDEC CONTRACT NO. D002472

ECJORDANCO						BORING/WELL NO.: TB-9				
Project Stauffer Chemical						Site Whittaker Subdivision		Project No. 07060-30		
Client NYSDEC						Logged By T. Delano		Ground Elev 636.4'		
Drilling Contractor Pavacott Wolff			Driller's Name		Rig Type TRUCK		Start Date 5-28-92		Finish Date 5-28-92	
Drilling Method HSA 4.25"			Protection Level D		P.I.D. (eV) TIP		Casing Size N/A		Auger Size 4.25"	
Soil Drilled 14.5'		Rock Drilled N/A		Total Depth 14.5'		Depth to Groundwater/Date ~6' / 5-28-92		Piez. Well Boring ☐ ☐ ☒		
DEPTH (FEET)	SAMPLE NO. & PENETRATION / RECOVERY (FT)	SAMPLE TYPE	SPT BLOWS/6" OR CORE REC/RQD (%)	SPT-II (BLOWS/FT)	GRAPHIC LOG	SAMPLE DESCRIPTION	USGS GROUP SYMBOL	NOTES ON DRILLING	MONITORING	
									PI METER	LAB TESTS
0-2	S-1 2.9/1.8		4/5/5/6	10		0.0-0.4': light gray very fine sand with some medium gravel, loose, dry 0.4'-0.8': black organic, tarry, silty material; paper or cloth debris, brick debris. 0.8-1.8': Brown silty fine sand with clay, brick fragments.	FILL		0	
2-4	S-2 2.9/1.2		8/8/5/6	13		0.0-0.4': orange brown coarse sand with debris, black gravel and white gravel, slightly damp. 0.4-0.6': very hard green material, orange medium sand, large brick fragment. 0.6-1.2': Dark brown medium to fine sand with some silt, slightly moist.	FILL		0	
4-6	S-3 2.0/1.2		2/2/1/1	3		Orange to brown sand, well graded, loose, moist glass debris, some black material.	SP		0	
6-8	S-4 2.0/1.0		1.5' with weight of hammer, 2 blows last 6".	1		Black tarry oily material, wet, some sand and silt.	FILL		0	
8-10	S-5 2.0/1.3		3/6/10/19	16		0.0-1.0': very hard clayey brown silt with lenses of reddish brown fine sand, trace coarse sand, slightly damp 1.0-1.3': Black clayey, silty tarry material, moist.			0	

FIGURE 4-5
SOIL BORING LOG
PROGRAM QUALITY ASSURANCE PROJECT PLAN
NYSDEC CONTRACT NO. D002472

ECJORDANCO						BORING/WELL NO.: TB-9			
Project Stauffer Chemical						Site Whittaker Subdivision		Project No. 07060-30	
Client NYSDEC						Logged By T. Delano		Ground Elev 636.4'	
Drilling Contractor Parrott Wolff			Driller's Name			Rig Type Truck		Start Date 5-28-92	Finish Date 5-28-92
Drilling Method HSA			Protection Level D			P.L.D. (eV) TIP		Casing Size N/A	Auger Size 4.25"
Soil Drilled 14.5'		Rock Drilled N/A		Total Depth 14.5'		Depth to Groundwater/Date ~6' / 5-28-92		Piez. Well Boring ☐ ☐ ☒	

DEPTH (FEET)	SAMPLE NO. & PENETRATION / RECOVERY (FT)	SAMPLE TYPE	SPT BLOWS/8" OR CORE REQ/RQD (N)	SPT-II (BLOWS/FT)	GRAPHED LOG	SAMPLE DESCRIPTION	USGS GROUP SYMBOL	NOTES ON DRILLING	MONITORING		LAB TESTS
									PI METER FIELD SCAL	PI METER HEAD SPACE	
10-12	S-6 2.0 / 1.3		3/12/19/33	31		Reddish brown clayey silt with lenses of light brown fine sand, cobbles, damp.	ML		0		
12-13	S-7 1.0 / 60		21 / 77	98		Reddish brown silty sand with some gravel and lens of medium white sand, very dense, slightly damp.	GM		0		
14-14.3	S-8 0.3 / 0.3		50 per 0.3'	(50)		Reddish brown to light brown silty fine sands with medium gravel, trace clay and coarse sand, slightly damp. Auger refusal at 14.5' bgs.	GM		0		

FIGURE 4-5
SOIL BORING LOG
PROGRAM QUALITY ASSURANCE PROJECT PLAN
NYSDEC CONTRACT NO. D002472

ECJORDANCO						BORING/WELL NO.: TB-10					
Project Stauffer Chemical						Site Whittaker Subdivision			Project No. 07060-30		
Client NYSDEC						Logged By T. Delano			Ground Elev. 636.4'		
Drilling Contractor Parratt Wolff			Driller's Name			Rig Type Truck		Start Date 5-27-92		Finish Date 5-27-92	
Drilling Method HSA 4.25"			Protection Level D			P.L.D. (eV) HNU		Casing Size N/A		Auger Size 4.25"	
Soil Drilled 14'		Rock Drilled N/A		Total Depth 14'		Depth to Groundwater/Date ~4-6' / 5-27-92			Piez. Well Boring ☐ ☐ ☒		

DEPTH (FEET)	SAMPLE NO. & PENETRATION / RECOVERY (FT)	SAMPLE TYPE	SPT BLOWS/6" OR CORE REQ./RQD (K)	SPT-H (BLOWS/FT)	GRAPHIC LOG	SAMPLE DESCRIPTION	USGS GROUP SYMBOL	NOTES ON DRILLING	MONITORING			LAB TESTS
									PI METER FIELD SCAM	PI METER HEAD SPACE		
0-2	S-1 2.0 0.9		4/9/4/5	13		Brown Sand with some fines, poorly graded, medium dense, moist, brick fragment	SP		0			
2-4	S-2 2.0 1.0		3/5/4/3	9		0-0.2': Grey and white sand or ash material; some yellow color; some coarse sand, fill 0.2-0.3': Black tarry substance, asphalt, FILL 0.3-1.0': Moist light brown fine sand with some silt and trace coarse sand	SM		3			
4-6	S-3 1.5 1.4		4/4/25	29		0-0.1': grey ash material with coarse sand and gravel 0.1-0.2': Moist brown well-graded sand 0.2'-1.0': Black organic sandy material with some gravel and wood fragments, wet 1.0-1.5': Brown silty sand with trace black organic tarry substance	GW SW FILL		0			
6-8	S-4 2.0 1.7		9/7/2/5	9		0-0.3': light brown silty clay with trace sand, moist 0.3-0.8': black organic clayey material w/some root matter, trace gravel 0.8-1.7': Coarse sand and gravel, light brown to grey with some small red brick fragments	FILL CL FILL SW		0			

FIGURE 4-5
SOIL BORING LOG
PROGRAM QUALITY ASSURANCE PROJECT PLAN
NYSDEC CONTRACT NO. D002472

ECJORDANCO						BORING/WELL NO.: TB-10			
Project Stauffer Chemical						Site Whittaker Subdivision		Project No. 07060-30	
Client NYSDEC						Logged By T. Delano		Ground Elev 636.4'	
Drilling Contractor Parratt Wolff			Driller's Name			Rig Type TYUCK		Start Date 5-27-92	Finish Date 5-27-92
Drilling Method HSA 4.25"			Protection Level D			P.L.D. (eV) HNU		Casing Size N/A	Auger Size 4.25"
Soil Drilled 14'		Rock Drilled N/A		Total Depth 14'		Depth to Groundwater/Date ~4-6' / 5-27-92		Piez. Well Boring ☐ ☐ ☒	

DEPTH (FEET)	SAMPLE NO. & PENETRATION / RECOVERY (FT)	SAMPLE TYPE	SPT BLOWS/8" OR CORE REQ/RQD (X)	SPT-11 (BLOWS/FT)	GRAPHIC LOG	SAMPLE DESCRIPTION	USCS GROUP SYMBOL	NOTES ON DRILLING	MONITORING			LAB TESTS
									PI METER FIELD 6041	PI METER HEAD SPACE		
8-10	S-5 2.0 1.3		6/8/14/17	22		Light brown to tan silty clay with trace coarse sand and gravel, moderately well graded, medium dense, slightly moist	CL		0			
10-12	S-6 2.0 2.0		6/8/14/17	22		0-1.0': Light brown silt with lenses of very fine sand, medium dense, moist 1.0-2.0': Reddish brown silt with some fine sand, trace gravel, poorly graded;	ML		0			
12-13.8	S-7 1.8 1.5		17/20/30/54 4"			0-0.3': Reddish brown sandy silt with some gravel, slightly damp, moderately well graded 0.3'-0.4': lens of tan fine sand with little silt, poorly graded, dense 0.4-1.5': Brown silt with some clay, lenses of reddish brown and light brown fine to medium sand, slightly damp	SM SM ML		0			
						Auger refusal at 14.0'						

FIGURE 4-5
SOIL BORING LOG
PROGRAM QUALITY ASSURANCE PROJECT PLAN
NYSDEC CONTRACT NO. D002472

ECJORDANCO						BORING/WELL NO.: TB-11				
Project Stauffer Chemical						Site Whittaker Subdivision		Project No. 07060-30		
Client NYSDEC						Logged By T. Delano		Ground Elev. 634.6'		
Drilling Contractor Parratt Wolff			Driller's Name			Rig Type Truck		Start Date 5-28-92		
Drilling Method HSA 4.25"			Protection Level D			P.L.D. (eV) TIP		Casing Size N/A		
Soil Drilled 12.5'		Rock Drilled N/A		Total Depth 12.5'		Depth to Groundwater/Date ~9-10'/5-28-92		Piez. Well Boring ☐ ☐ ☒		
DEPTH (FEET)	SAMPLE NO. & PENETRATION / RECOVERY (FT)	SAMPLE TYPE	SPT BLOWS/8" OR CORE REQ/RQD (X)	SPT-II (BLOWS/FT)	GRAPHIC LOG	SAMPLE DESCRIPTION	USGS GROUP SYMBOL	NOTES ON DRILLING	MONITORING	LAB TESTS
									PT METER FIELD SCOUT	
									PT METER HEAD SPACE	
0-2	S-1 2.9/1.0		4/8/8/5	16		0.0'-0.2': Black gravel and tar, moist 0.2'-1.0': Brown to reddish brown dry well graded sand, some gravel, organic matter, roots, medium dense.	SW		0	
2-4	S-2 2.0/1.3		5/5/3/7	8		0.0'-1.1': Slightly moist clayey silt with some coarse sand, brown, with darker organic lens of silty material 1.1'-1.3': Brown clayey silt with black tarry gravel; FILL	SM		0	
4-6	S-3 2.0/0.8		1/1/1/2	2		Black gravel with organics, concrete and brick debris, wet; soft; yellow ash-like substance.	FILL		0	
6-8	S-4 2.0/0.8		7/5/4/6	9		Black gravel with organic silty material, wet; yellow ash-like substance, hair-like fibers.	FILL		0	
8-10	S-5 2.0/1.3		2/2/7/12	9		0.0-0.4': Brown to reddish brown sandy silt with some gravel and lenses of red/orange fine sand, loose, slightly moist. 0.4-0.8': light brown clayey silt with some coarse sand, slightly moist, loose 0.8-1.3': yellow, red cloth-like or compacted paper material with some black gravelly organic substances wet.	GM		0	

FIGURE 4-5
SOIL BORING LOG
PROGRAM QUALITY ASSURANCE PROJECT PLAN
NYSDEC CONTRACT NO. D002472

ECJORDANCO						BORING/WELL NO.: TB-12					
Project Stauffer Chemical						Site Whittaker Subdivision			Project No. 07060-30		
Client NYSDEC						Logged By T. Delano			Ground Elev. 632.1'		
Drilling Contractor Parrett Wolff			Driller's Name Glenn Lansing			Rig Type Truck		Start Date 5-27-92		Finish Date 5-27-92	
Drilling Method HSA 4.25"			Protection Level D			P.L.D. (eV) HNU		Casing Size N/A		Auger Size 4.25"	
Soil Drilled 9.6		Rock Drilled N/A		Total Depth 9.6		Depth to Groundwater/Date 24-6'/5-27-92			Piez. Well Boring ☐ ☐ ☒		

DEPTH (FEET)	SAMPLE NO. & PENETRATION / RECOVERY (FT)	SAMPLE TYPE	SPT BLOWS/8" OR CONE REQ./RQD (X)	SPT-11 (BLOWS/FT)	GRAPHIC LOG	SAMPLE DESCRIPTION	UBOS GROUP SYMBOL	NOTES ON DRILLING	MONITORING			LAB TESTS
									PT METER	FIELD SCUM	PT METER	
0-2	S-1 2.0 / 1.2		5/3/5/5	8		Brown to reddish brown fine sand with some gravel, concrete debris, roots, moderately well graded, loose, dry	SP		0			
2-4	S-2 2.0 / 0.3		4/2/1/1	3		Reddish brown fine sand, trace gravel, some silt, moderately well graded, loose; Augered through rock at 3 feet.	SP		0			
4-6	S-3 2.0 / 1.2		1/1/2/3	3		Brown sand, some gravel, asphalt gravel debris, yellowish to greyish white ash material, well graded, loose, wet.	FILL		2			
6-8	S-4 2.0 / 1.6		1/1/2/1	3		0.0-0.3': Black coarse sand with some gravel and fines, saturated. 0.3-1.0': Brown silty fine sand with some reddish fine sand, saturated, wood fragment at 1.0, concrete. 1.0-1.6': coarse sand with some silt and gravel, brown to reddish brown, saturated, concrete fragment.	FILL		0			
8-9.6	S-5 1.6 / 1.0		1 for 12" / 1/50 for 0.1'			0-0.2': Black coarse sand, some silt, organic matter, moderately well graded, loose, saturated. 0.2'-0.3': light grey medium sand with some coarse sand, moist 0.3'-0.6': Reddish brown silty fine sand with some gravel. 0.6'-0.8': Black coarse sand and gravel with organic debris, moist 0.8'-1.0': Brown silt with yellowish debris fragments, saturated	FILL		0			

FIGURE 4-5
SOIL BORING LOG
PROGRAM QUALITY ASSURANCE PROJECT PLAN
NYSDEC CONTRACT NO. D002472

ECJORDANCO						BORING/WELL NO.: TB-13					
Project Stauffer Chemical						Site Whitaker Subdivision			Project No. 07060-30		
Client NYSDEC						Logged By B. Johnson			Ground Elev 628.1'		
Drilling Contractor Parnett Wolff			Driller's Name Ron Bush			Rig Type Truck		Start Date 5-27-92		Finish Date 5-27-92	
Drilling Method HSA 4.25"			Protection Level D			P.L.D. (eV) TIP		Casing Size N/A		Auger Size 4.25	
Soil Drilled 11.0'		Rock Drilled N/A		Total Depth 11.0'		Depth to Groundwater/Date 3.85' 5-27-92			Piez. Well Boring ☐ ☐ ☒		

DEPTH (FEET)	SAMPLE NO. & PENETRATION / RECOVERY (FT)	SAMPLE TYPE	SPT BLOWS/8" OR CORE REQ/RQD (K)	SPT-N (BLOWS/FT)	GRAPHIC LOG	SAMPLE DESCRIPTION	UBOS GROUP SYMBOL	NOTES ON DRILLING	MONITORING			LAB TESTS
									PI METER FIELD SCAN	PI METER HEAD SPACE		
0-2	S-1 2.0/0.8		3/4/5/5	9		0-0.2' (lower): Black coal and slag (porous type burned coal) 0.2-0.8': Brown fine sand, some silt, trace medium sand, poorly graded, loose, dry to damp;	SM		Bkg			
2-4	S-2 2.0/1.2		8/10/10/12	20		Brown and black fine sand, little fine gravel (coal), and trace silt, moderately well graded, medium dense, moist	GM		Bkg			
4-6	S-3 2.0/1.3		10/8/6/12	14	F I L L	Rust to black and brown silt, little coal, trace fine to medium sand, fibrous material, poorly graded, medium dense, wet, Rust staining	SM		Bkg			
6-8	S-4 2.0/0.8		6/10/11/12	21		0-0.6': Brown silt, little fine to medium sand, trace fine gravel, moist-wet 0.6'-0.8': Red-brown silt, trace fine sand, medium dense, glacial deposit	SM		Bkg			
8-10	S-5 2.0/1.3		9/12/17/32	29	N A T I V E	Reddish brown silt, trace fine to coarse sand, fine gravel, well graded, dense, damp to wet, glacial deposit.	GM		Bkg			
10-10.8	S-6 0.9/0.9		5/50/0.4'			Similar to above Auger refusal at 11.0'			Bkg			

FIGURE 4-5
SOIL BORING LOG
PROGRAM QUALITY ASSURANCE PROJECT PLAN
NYSDEC CONTRACT NO. D002472

ECJORDANCO		BORING/WELL NO.: TB-14	
Project Stauffer Chemical		Site Whittaker Subdivision	Project No. 07060-30
Client NYSDEC		Logged By T. Delano	Ground Elev 1,24.5'
Drilling Contractor Parrott Wolf & P	Driller's Name	Rig Type Truck	Start Date 5-27-92 Finish Date 5-27-92
Drilling Method HSA 4.25"	Protection Level D	P.I.D. (eV) TIP	Casing Size N/A Auger Size 4.25"
Soil Drilled 7.0'	Rock Drilled N/A	Total Depth 7.0'	Depth to Groundwater/Date 26' / 5-27-92
		Piez Well Boring	☐ ☐ ☒

DEPTH (FEET)	SAMPLE NO. & PENETRATION / RECOVERY (FT)	SAMPLE TYPE	SPT BLOWS/8" OR CORE REC/RQD (%)	SPT-II (BLOWS/FT)	GRAPHIC LOG	SAMPLE DESCRIPTION	USGS GROUP SYMBOL	NOTES ON DRILLING	MONITORING			LAB TESTS
									POT	PT METER FIELD SCRN	PT METER HEAD SPACE	
0-2	S-1 2.0 0.5		5/9/5/4	14		Brown silty sand with trace coarse sand, poorly graded, medium dense, slightly damp.	SW			0		
2-4	S-2 2.0 1.7		3/4/3/3	7		0-0.6': dark brown organic sandy material with debris, some gravel, damp, fill. 0.6-1.7': light grey clayey silt, loose, moist.				0.5		
4-6	S-3 2.0 0.9		2/2/1/2	3		0-0.2': dark grey to black clayey silt, organic consistency, slightly damp 0.2-0.9': Black sand with brick debris, some gravel, well graded, slightly damp.				1.5		
6-6.5	S-4 0.5 0.5		50 for 6"	50		0-0.3': Black silty organic-looking material, some coarse sand, moist. 0.3-0.5': silty brown fine sand with some red brick fragments, slightly moist Auger refusal at 7.0'.						

FIGURE 4-5
SOIL BORING LOG
PROGRAM QUALITY ASSURANCE PROJECT PLAN
NYSDEC CONTRACT NO. D002472

ECJORDANCO						BORING/WELL NO: TB-15				
Project Stauffer Chemical						Site Whittaker Subdivision		Project No. 07000-30		
Client NYSDEC						Logged By J. Cooper		Ground Elev. 622.4'		
Drilling Contractor Parratt Wolff			Driller's Name Ron Bush		Rig Type Truck		Start Date 5-27-92		Finish Date 5-27-92	
Drilling Method HSA 4.25"			Protection Level D		P.L.D. (eV) 10.2		Casing Size N/A		Auger Size 4.25"	
Soil Drilled 7.8'		Rock Drilled N/A		Total Depth 7.8'		Depth to Groundwater/Date ~6-8' / 5-27-92		Piez. Well Boring ☐ ☐ ☒		
DEPTH (FEET)	SAMPLE NO. & PENETRATION / RECOVERY (FT)	SAMPLE TYPE	SPT BLOW/8" OR CONE REQ/RQD (K)	SPT-II (BLOWS/FT)	GRAPHIC LOG	USGS GROUP SYMBOL	NOTES ON DRILLING	MONITORING		LAB TESTS
								PI METER FIELD SCRN	PI METER LEAD SPACE	
0-2	S-1 2.0 0.5		2/4/4/5	8	Dark brown SILT, some organics, soft, slightly damp, no structure, topsoil.	CL		0		
2-4	S-2 2.0 0.5		8/3/3/3	6	Grey and brown clayey SILT, poorly graded, medium stiff, damp	ML		0		
4-6	S-3 2.0 1.5		6-9-16-17	25	Reddish brown SILT, grey clayey SILT, stiff, moist, Trace fine gravel, some black material (surmised to be decomposing grass)	ML		0		
6-8	S-4 2.0 1.7		5/10/35/35	45	Light brown and Reddish brown and black-grey clayey SILT, lens of Brown silty fine sand, poorly graded, Hard, moist. Lower 0.7' = weathered bedrock	ML		0		
					Auger refusal at 7.8'		Sulfur odor		Send for analysis	

FIGURE 4-5
SOIL BORING LOG
PROGRAM QUALITY ASSURANCE PROJECT PLAN
NYSDEC CONTRACT NO. D002472

ECJORDANCO						BORING/WELL NO.: TB-16					
Project Stauffer chemical.						Site Whittaker Subdivision			Project No. 07060-30		
Client NYSDEC						Logged By J. Cooper			Ground Elev 1,22.6'		
Drilling Contractor Parratt Wolff			Driller's Name			Rig Type Truck		Start Date 5-29-92		Finish Date 5-29-92	
Drilling Method HSA 4.25"			Protection Level D			P.L.D. (eV) HNU		Casing Size N/A		Auger Size 4.25"	
Soil Drilled 4.9'		Rock Drilled N/A		Total Depth 4.9'		Depth to Groundwater/Date — / 5-29-92			Piez. Well Boring ☐ ☐ ☒		
DEPTH (FEET)	SAMPLE NO. & PENETRATION / RECOVERY (FT)	SAMPLE TYPE	SPT BLOWS/8" OR CORE REQ/RQD (K)	SPT-N (BLOWS/FT)	GRAPHIC LOG	SAMPLE DESCRIPTION	UBOS GROUP SYMBOL	NOTES ON DRILLING	MONITORING		LAB TESTS
									PT METER FIELD SCAM	PI METER HEAD SPACE	
0-2	S-1 2.8/0.5		3/3/3/3	6		Brown sandy silt, organic material, trace fine gravel, poorly graded, slightly damp	SM	3 spoons taken at 0-2'	0		
0-2	S-1 2.9/1.5		3/2/3/5	5		0-0.4': Grey silt, some fine sand, moist. 0.4-1.0': Black to grey clayey, tarry silt with trace fine sand, trace gravel. 1.0-1.5': Similar to above spoon (spoon #1 at 0-2')	ML		0		
0-2	S-1 2.9/0.8		7/9/3/4	12		Similar to spoon #1 at 0-2'.	SM		0		
2-4	S-2 2.9/1.1		8/9/8/12	17		0-0.7': Brown clayey silt with some fine gravel and trace fine sand. 0.7-1.0': Grey silty clay, "fishy, rotten" odor.	GM FILL	3 spoons taken at 2-4'	0		
2-4	S-2 2.9/1.1		7/9/14/7	23		0.0-0.7': Similar to above at same interval 0.7-1.0': Black tarry silty clay	FILL		0		
2-4	S-2					Brown clayey silt with some fine sand, trace fine gravel; some organics, wood, black organic material.	GM		0		
4-4.9	S-3 0.9/0.9		7/50/4"	57		Brown clayey silt with some fine gravel and trace fine sand Bedrock encountered at 4.9'. Bottom of exploration: 4.9' Bgs.	GM		0		

FIGURE 4-5
SOIL BORING LOG
PROGRAM QUALITY ASSURANCE PROJECT PLAN
NYSDEC CONTRACT NO. D002472

ECJORDANCO						BORING/WELL NO.: TB-17				
Project Stauffer Chemical						Site Whittaker Subdivision		Project No. 07060-30		
Client NYSDEC						Logged By J. Cooper		Ground Elev. 621.2'		
Drilling Contractor Parratt Wolff			Driller's Name			Rig Type Truck		Start Date 5-29-92		
Drilling Method Split - spoon advancement			Protection Level D			P.L.D. (eV) HNU		Casing Size N/A		
Soil Drilled 6.9'		Rock Drilled N/A		Total Depth 6.9'		Depth to Groundwater/Date 70' / 5-29-92		Piez. Well Boring ☐ ☐ ☒		
DEPTH (FEET)	SAMPLE NO. & PENETRATION / RECOVERY (FT)	SAMPLE TYPE	SPT BLOWS/8" OR CORE REQ/RQD (X)	SPT-N (BLOWS/FT)	GRAPHIC LOG	SAMPLE DESCRIPTION	USGS ORIGIN SYMBOL	NOTES ON DRILLING	MONITORING	LAB TESTS
0-2	S-1 2.0/0.9		4/12/8/8	20		Reddish brown sandy silt, some fine gravel, trace clay, roots, moderately well graded, very dry, crumbly	GM		0	
2-4	S-2 2.0/0.9		7/7/4/5	11		Reddish brown silt, trace clay, some fine sand, little fine to coarse gravel, poorly graded, stiff, damp	GM		0	
4-6	S-3 2.0/0.6		9/9/6/7	15		Reddish brown clayey silt, some fine gravel, trace fine sand, moderately well graded, medium stiff, damp.	GM		0	
6-6.9	S-4 0.9/0.6		6/ 50 4"	50		similar to above. Spoon refusal at 6.9'. No augers advanced at this boring. • 2 additional 0-2' spoons taken, both similar to first. • 2 additional 2-4' spoons taken, both similar to first.	GM		0	

FIGURE 4-5
SOIL BORING LOG
PROGRAM QUALITY ASSURANCE PROJECT PLAN
NYSDEC CONTRACT NO. D002472

ECJORDANCO		BORING/WELL NO.: TB-18	
Project Stauffer Chemical		Site Whittaker Subdivision	Project No. 07060-30
Client NYSDEC		Logged By B. Johnson	Ground Elev 619.1'
Drilling Contractor Parrott Wolff	Driller's Name Ron Bush	Rig Type Truck	Start Date 5-29-72
Drilling Method Continuous Spoons without Augers	Protection Level D	P.L.D. (eV) 10.2	Finish Date 5-29-72
Soil Drilled 3.9'	Rock Drilled N/A	Total Depth 3.9'	Depth to Groundwater/Data N/A
		Piez. Well Boring ☐ ☐ ☒	

DEPTH (FEET)	SAMPLE NO. & PENETRATION / RECOVERY (FT)	SAMPLE TYPE	SPT BLOWS/8" OR CORE REC/RQD (%)	SPT-N (BLOWS/FT)	GRAPHIC LOG	SAMPLE DESCRIPTION	USCS GROUP SYMBOL	NOTES ON DRILLING	MONITORING		LAB TESTS
									PI METER	PI METER	
0-2	S-1 2.0 0.3		3/4/7/7	11		Brown silty sand, trace organics, medium dense, dry, topsoil	SM		3kg		
2-3.9	S-2 1.4 1.9		9/11/24/50 0.4'	35		Same as above to rock at 3.4'. Auger refusal at 3.9'. Bottom of Exploration at 3.9'.	SM		3kg		

FIGURE 4-5
SOIL BORING LOG
PROGRAM QUALITY ASSURANCE PROJECT PLAN
NYSDEC CONTRACT NO. D002472



APPENDIX C
WELL CONSTRUCTION DIAGRAMS

E.C. Jordan Co.

OVERBURDEN MONITORING WELL CONSTRUCTION DIAGRAM

NYSDEC -
 Project Stauffer Chemical Location Whittaker Subdivision Driller Parratt Wolff
 Project No. 07060-30 Boring No. MW-1 Drilling Method HSA, 4.25'
 Date Installed 5-29-92 Development Method Pump + Surge
 Field Geologist Tony Delano

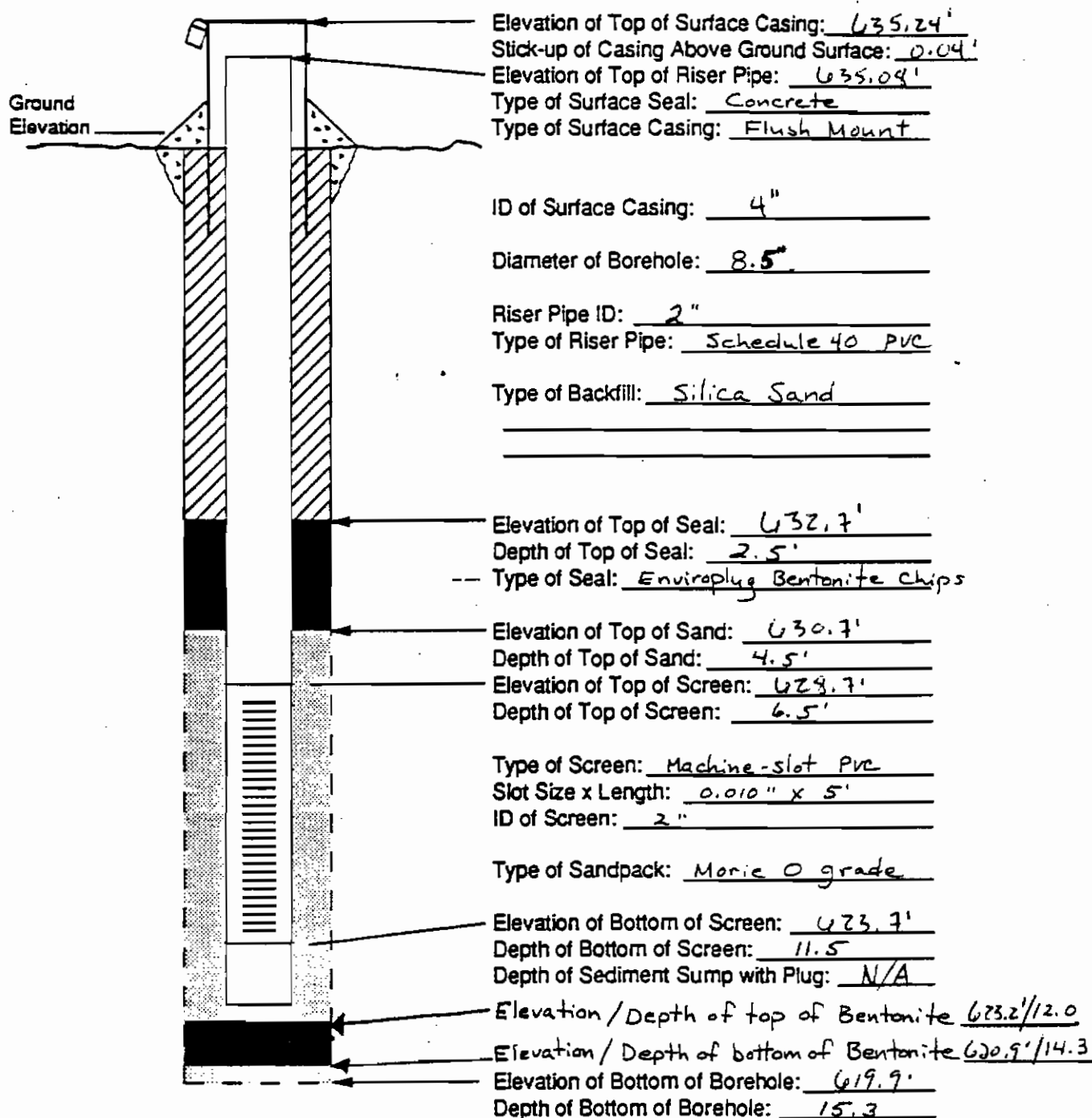


FIGURE 4-9
 OVERBURDEN MONITORING WELL CONSTRUCTION DIAGRAM
 PROGRAM QUALITY ASSURANCE PROJECT PLAN
 NYSDEC CONTRACT NO. D002472

OVERBURDEN MONITORING WELL CONSTRUCTION DIAGRAM

Project NYSDEC - Stauffer Location Whitaker Subdivision Driller Parratt Wolff
 Project No. 07060-30 Boring No. MW-2 Drilling Method 4.25" HSA
 Date Installed 5-28-92 Development Method Pump and surge
 Field Geologist Brian Johnson

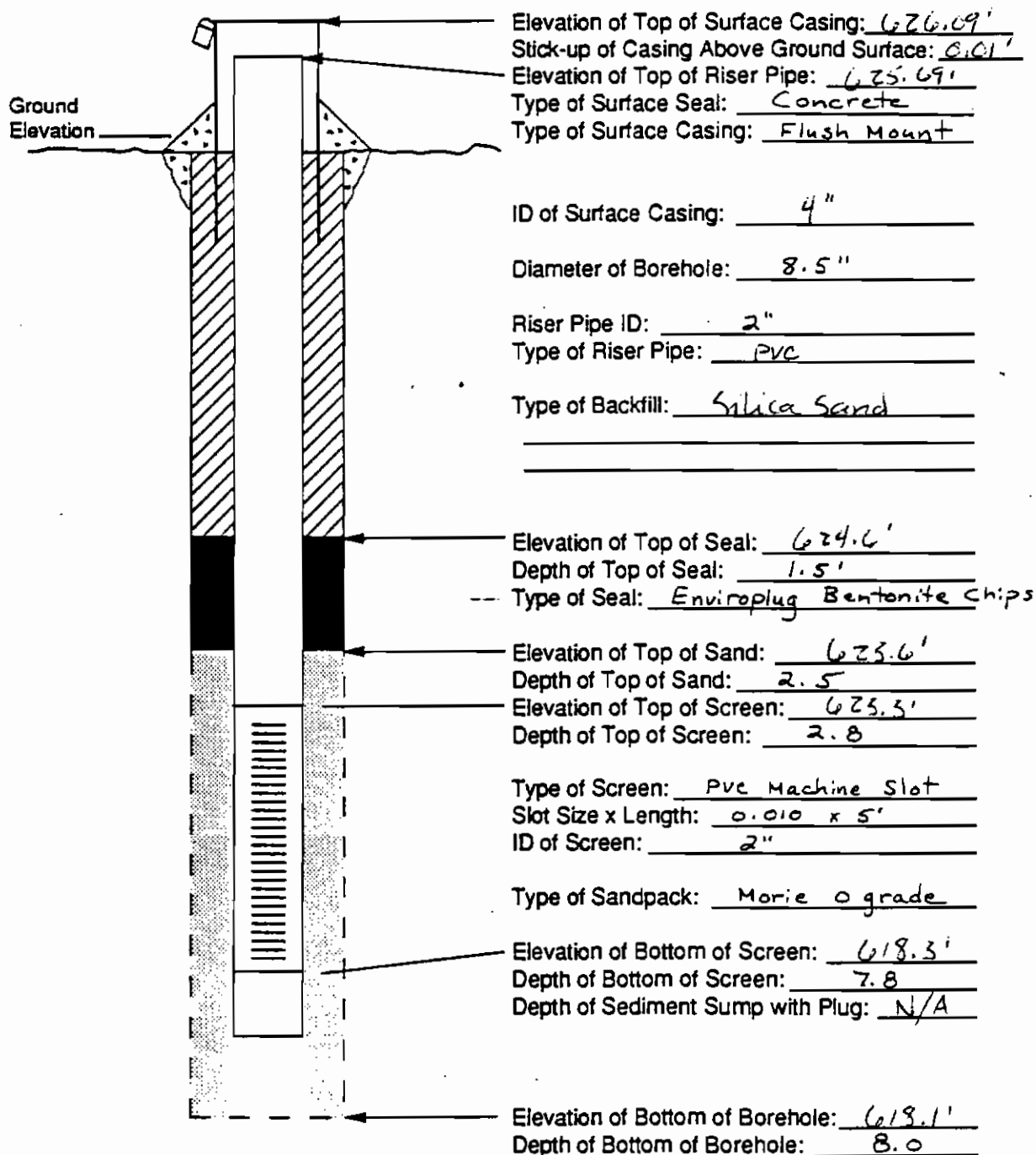


FIGURE 4-9
 OVERBURDEN MONITORING WELL CONSTRUCTION DIAGRAM
 PROGRAM QUALITY ASSURANCE PROJECT PLAN
 NYSDEC CONTRACT NO. D002472

BEDROCK MONITORING WELL CONSTRUCTION DIAGRAM

NYSDEC -
 Project Stauffer Chemical Location Whittaker Subdivision Driller Parrett Wolff
 Project No. 07060-30 Boring No. MW-3 Drilling Method HX Core and 4" Casing
 Date Installed 6-1-92 Development Method Pump + Surge
 Field Geologist Brian Johnson

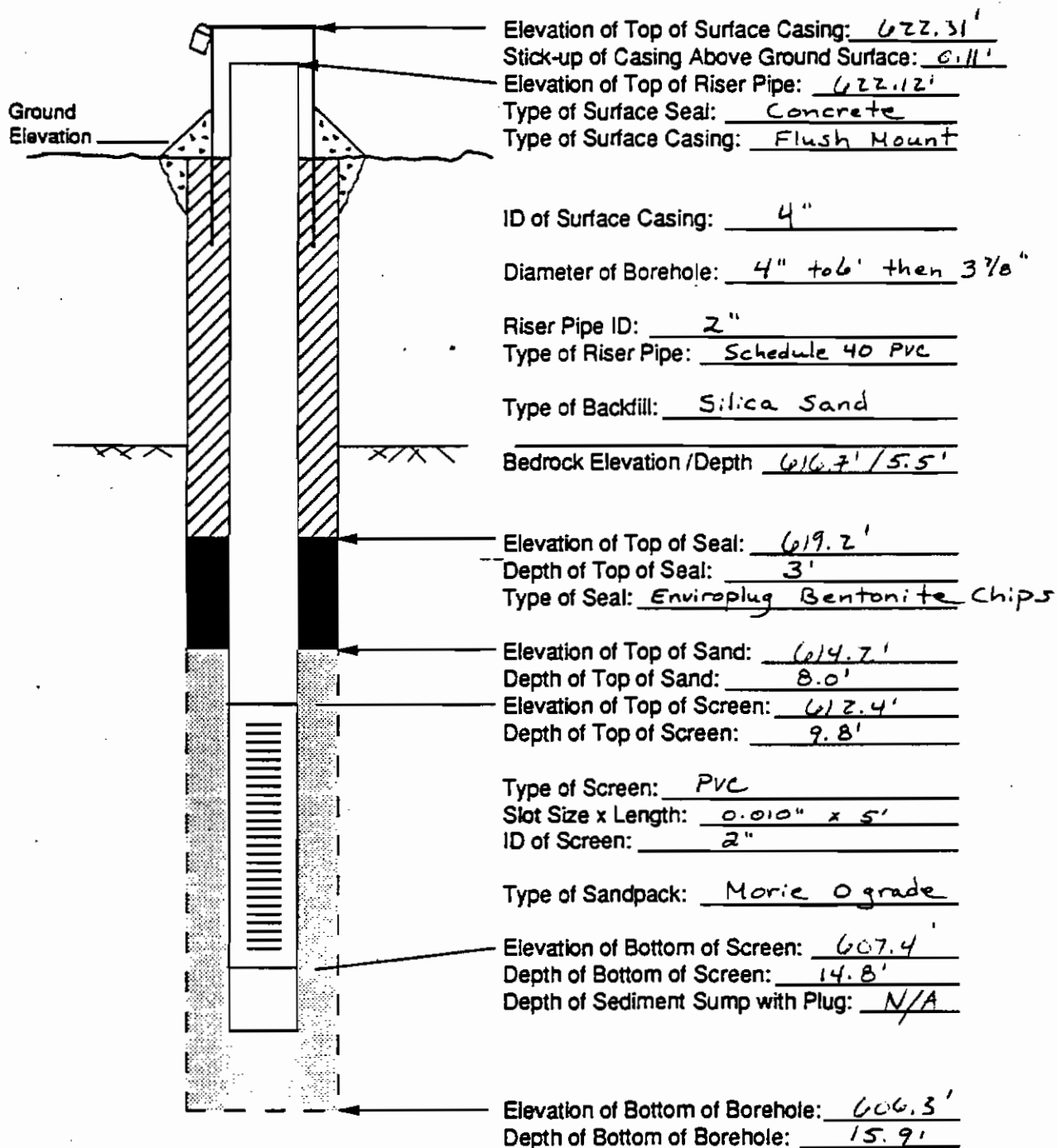


FIGURE 4-10
BEDROCK MONITORING WELL CONSTRUCTION DIAGRAM
PROGRAM QUALITY ASSURANCE PROJECT PLAN
NYSDEC CONTRACT NO. D002472

OVERBURDEN MONITORING WELL CONSTRUCTION DIAGRAM

Project NYSDEC - Stauffer Chemical Location Whittaker Subdivision Driller Parratt Wolff
 Project No. 07060-30 Boring No. MW-4 Drilling Method 4.25" HSA
 Date Installed 5-29-92 Development Method Pump + Surge
 Field Geologist Brian Johnson

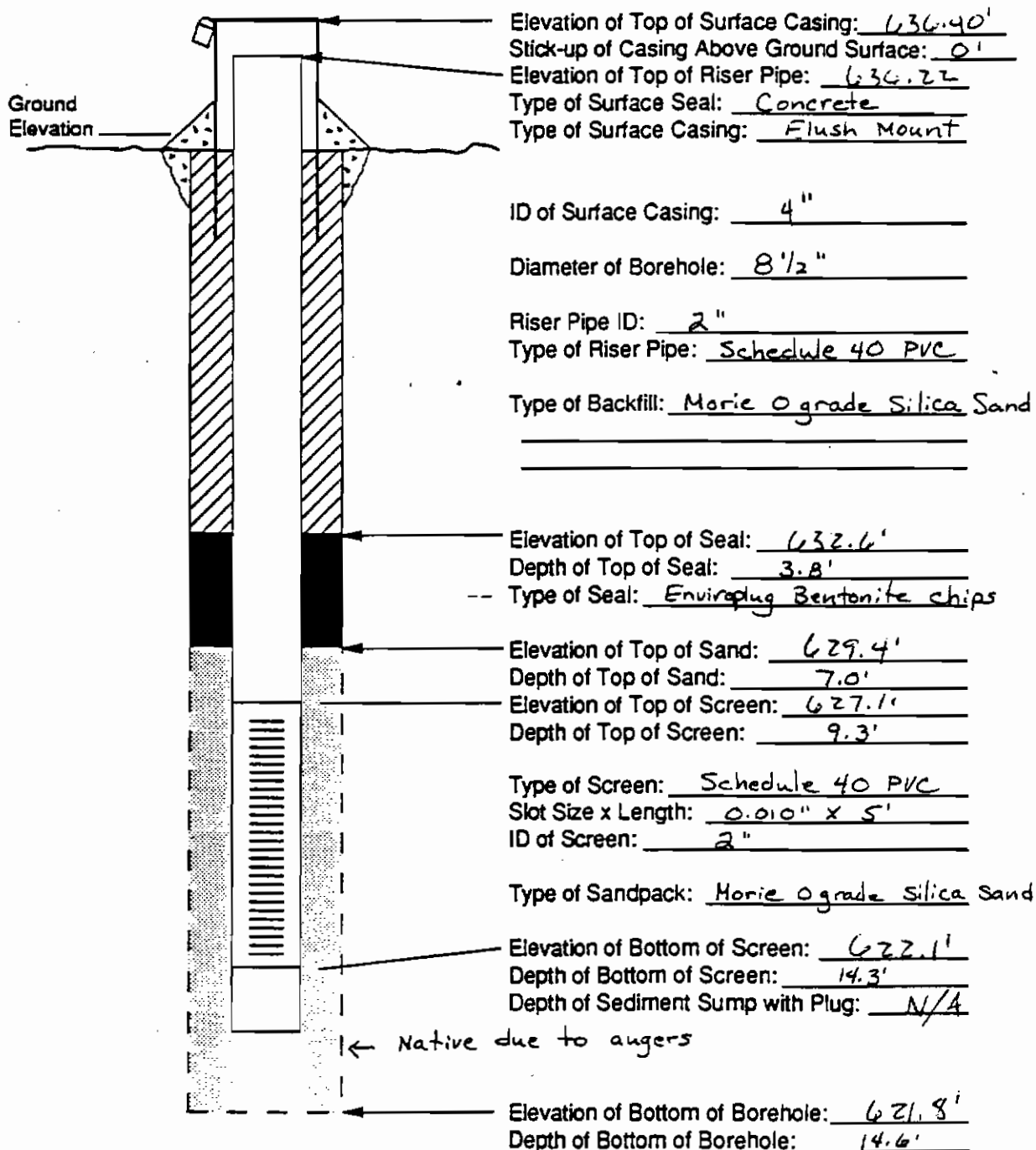


FIGURE 4-9
 OVERBURDEN MONITORING WELL CONSTRUCTION DIAGRAM
 PROGRAM QUALITY ASSURANCE PROJECT PLAN
 NYSDEC CONTRACT NO. D002472

BEDROCK MONITORING WELL CONSTRUCTION DIAGRAM

NYSDEC -
 Project Stauffer Chemical Location Whittaker Subdivision Driller Parratt Wolff
 Project No. 07060-30 Boring No. MW-5 Drilling Method 4" Casing, H X Core
 Date Installed 5-29-92 Development Method Pump + Surge
 Field Geologist Brian Johnson

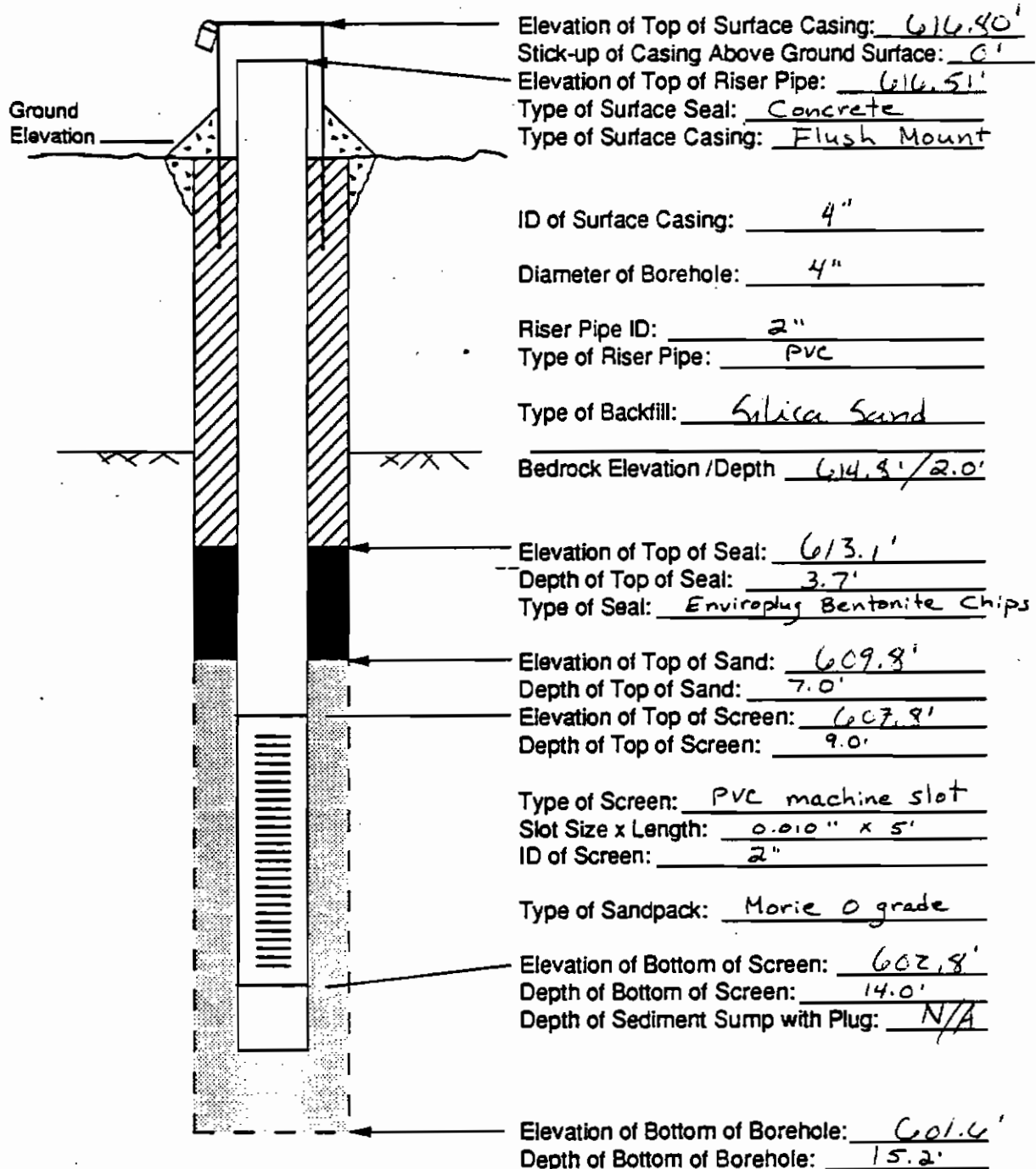


FIGURE 4-10
 BEDROCK MONITORING WELL CONSTRUCTION DIAGRAM
 PROGRAM QUALITY ASSURANCE PROJECT PLAN
 NYSDEC CONTRACT NO. D002472

BEDROCK MONITORING WELL CONSTRUCTION DIAGRAM

Project NYSDEC - Stauffer Chemical Location Whittaker Subdivision Driller Parratt Wolff
 Project No. 07060-30 Boring No. MW-6 Drilling Method 4 1/4" Casing, HX Core
 Date Installed 5-28-92 Development Method Pump + Surge
 Field Geologist Brian Johnson

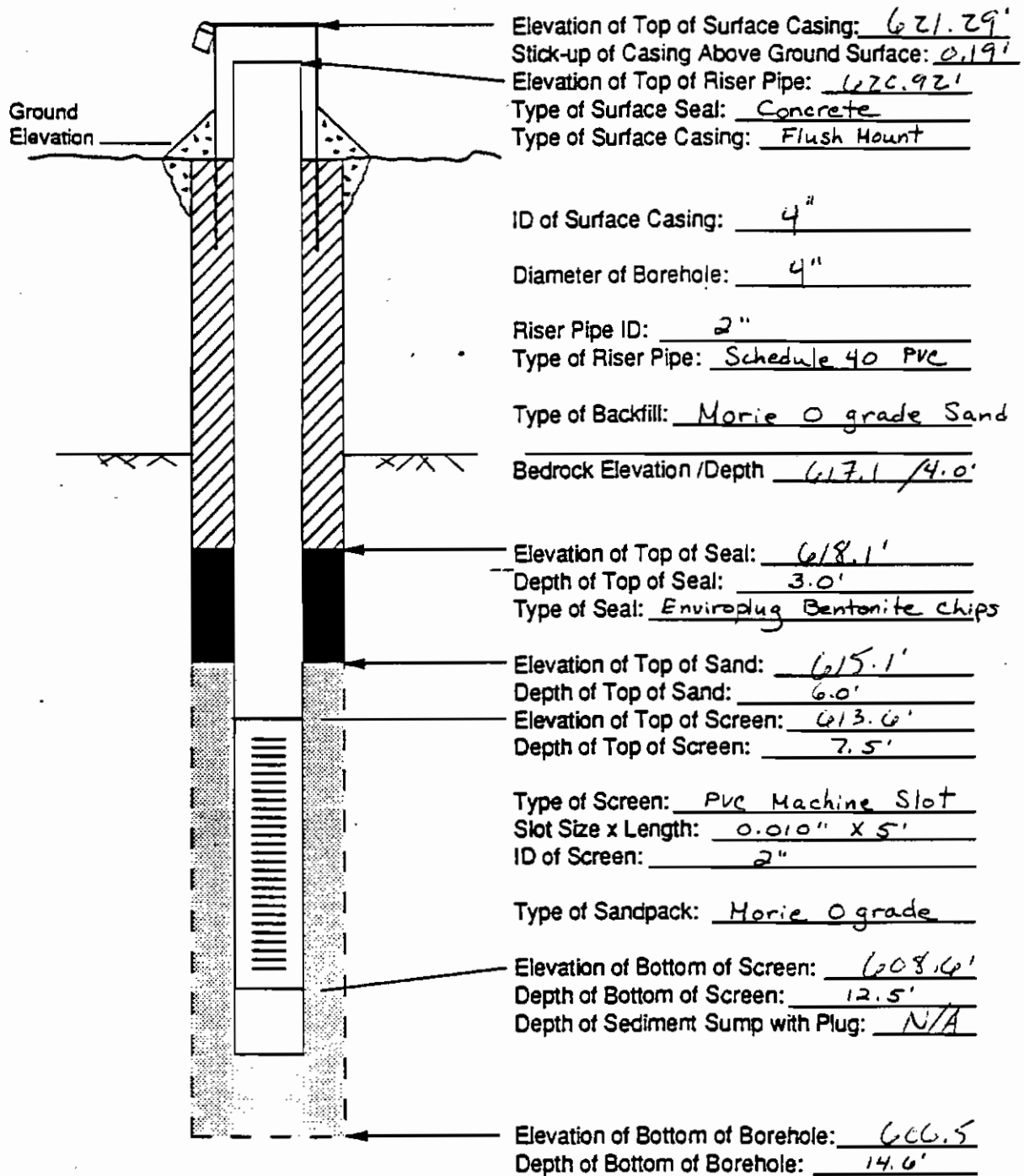


FIGURE 4-10
 BEDROCK MONITORING WELL CONSTRUCTION DIAGRAM
 PROGRAM QUALITY ASSURANCE PROJECT PLAN
 NYSDEC CONTRACT NO. D002472

BEDROCK MONITORING WELL CONSTRUCTION DIAGRAM

NYSDEC -
 Project Stauffer Chemical Location Whittaker Subdivision Driller Parrott Wolff
 Project No. 07060-30 Boring No. MW-7 Drilling Method 4 1/4" HSA, HQ Coring
 Date Installed 5-27-92 Development Method Pump and Surge
 Field Geologist Brian Johnson

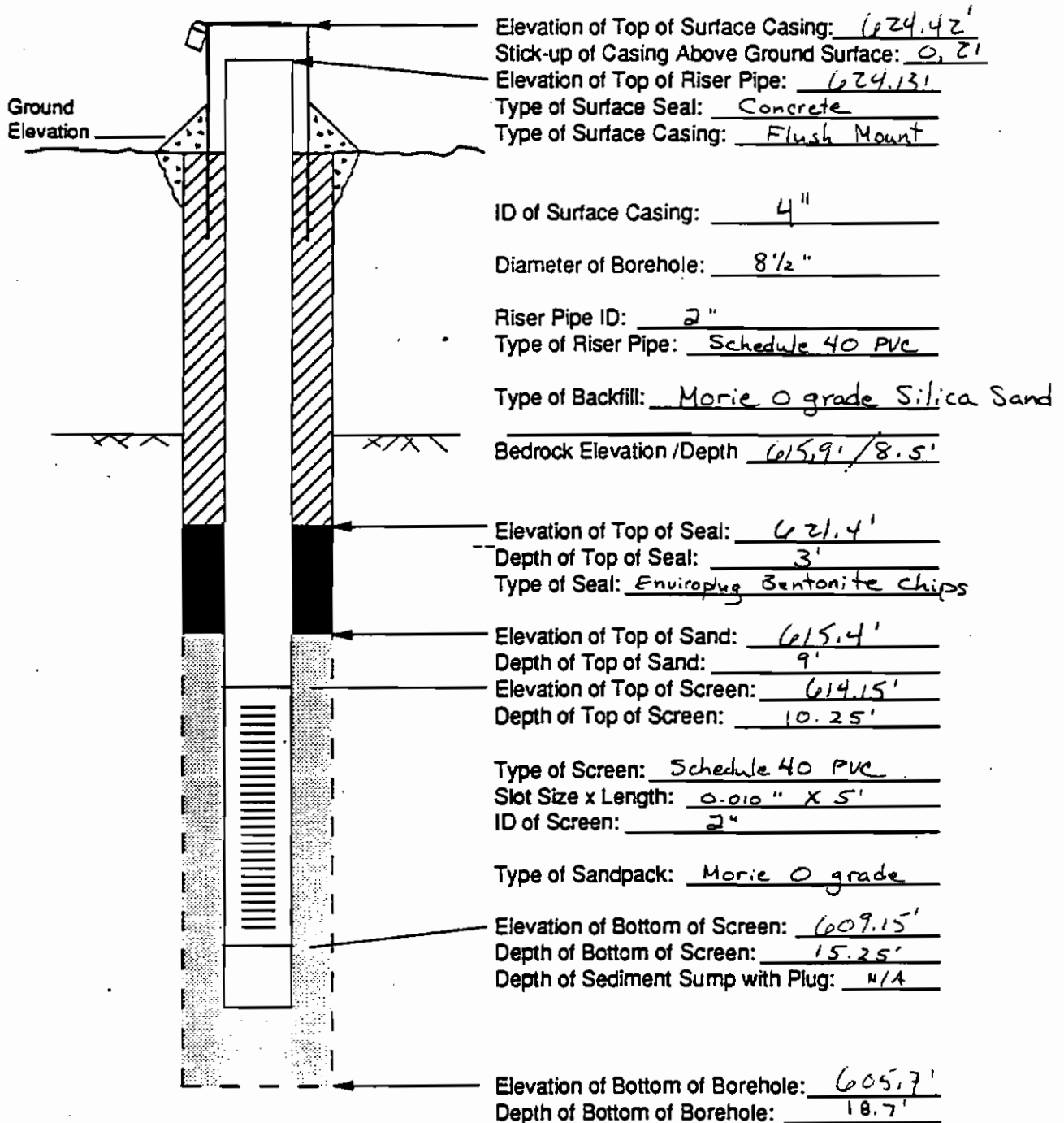


FIGURE 4-10
BEDROCK MONITORING WELL CONSTRUCTION DIAGRAM
PROGRAM QUALITY ASSURANCE PROJECT PLAN
NYSDEC CONTRACT NO. D002472

APPENDIX D
FIELD SAMPLE DATA RECORDS

E.C. Jordan Co.



APPENDIX D-1
GROUNDWATER

E.C. Jordan Co.

GROUNDWATER FIELD SAMPLE DATA RECORD

Project: NYSDEC - Stauffer Chemical
 Project Number: 07060-30
 Sample Location ID: SCQT001XXX92XX
 Time: Start: _____ End: _____

Site: Trip Blank
 Date: _____
 Signature of Sampler: _____

Water Level/Well Data

Well Depth _____ Ft. _____ Measured _____ Top of Well _____ Well Riser Stick-up _____ Ft. Protective _____ Ft.
 _____ Historical _____ Top of Protective Casing _____ (from ground) Casing/Well Difference

 Depth to Water _____ Ft. Well Material: _____ Well Locked?: _____ Well Dia. _____ 2 inch Water Level Equip. Used:
 _____ PVC _____ Yes _____ 4 inch _____ Elect. Cond. Probe
 _____ SS _____ No _____ 6 inch _____ Float Activated
 _____ _____ Press. Transducer

 Height of Water Column X _____ .16 Gal/Ft. (2 in.) _____ Gal/Vol Well Integrity: _____ Yes _____ No
 _____ Ft. _____ .65 Gal/Ft. (4 in.) _____ Prot. Casing Secure _____
 _____ 1.5 Gal/Ft. (6 in.) _____ Concrete Collar Intact _____
 _____ Gal/Ft. (____ in.) _____ Total Gal Purged _____ Other _____

Equipment Documentation

Purging/Sampling Equipment Used:

Decontamination Fluids Used:

(✓ If Used For)		Equipment ID	(✓ All That Apply at Location)
Purging	Sampling		
_____	_____	Peristaltic Pump	_____ Methanol (100%)
_____	_____	Bailer	_____ 25% Methanol/75% ASTM Type II water
_____	_____	PVC/Silicon Tubing	_____ Deionized Water
_____	_____	Teflon/Silicon Tubing	_____ Liquinox Solution
_____	_____	Airlift	_____ Hexane
_____	_____	Hand Pump	_____ HNO ₃ /D.I. Water Solution
_____	_____	In-line Filter	_____ Potable Water
_____	_____	Press/Vac Filter	_____ None
_____	_____	Submersible Pump	_____

Field Analysis Data

Ambient Air VOC _____ ppm Well Mouth _____ ppm Field Data Collected _____ In-line _____ Turbid _____ Clear _____ Cloudy
 _____ In Container _____ Colored _____ Odor

Sample Observations:

Purge Data	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.
Temperature, Deg. C	_____	_____	_____	_____	_____
pH, units	_____	_____	_____	_____	_____
Specific Conductivity (umhos/cm. @ 25 Deg. C.)	_____	_____	_____	_____	_____
Oxidation - Reduction, mv	_____	_____	_____	_____	_____
Dissolved Oxygen, ppm	_____	_____	_____	_____	_____
Turbidity (NTU's)	_____	_____	_____	_____	_____

Sample Collection Requirements

Analytical Parameter	✓ If Field Filtered	Preservation Method	Volume Required	✓ If Sample Collected	Sample Bottle IDs
VOC	_____	_____	2 x 40ml	✓	Lab - Supplied
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Notes: Trip blanks supplied by
NYTEST (bottles were filled
in lab)

FIGURE 4-1
 GROUNDWATER SAMPLE DATA RECORD
 PROGRAM QUALITY ASSURANCE PROJECT PLAN
 NYSDEC CONTRACT NO. D002472

GROUNDWATER FIELD SAMPLE DATA RECORD

Project: NYSDEC - Stauffer Chemical
 Project Number: 07060-30
 Sample Location ID: SCMW001XXX92XX
 Time: Start: 1450 End: 1615

Site: MW-1
 Date: 6-29-92
 Signature of Sampler: JMC

Water Level/Well Data

Well Depth 11.47 Ft. ☒ Measured ☐ Historical ☒ Top of Well ☐ Top of Protective Casing
 Well Riser Stick-up -0.15 Ft. (from ground) Protective -0.15 Ft. Casing/Well Difference
 Depth to Water 5.70 Ft. Well Material: ☒ PVC ☐ SS Well Locked?: ☒ Yes ☐ No Well Dia. ☒ 2 inch ☐ 4 inch ☐ 6 inch
 Water Level Equip. Used: ☒ Elect. Cond. Probe ☐ Float Activated ☐ Press. Transducer
 Height of Water Column X ☒ .16 Gal/Ft. (2 in.) ☐ .65 Gal/Ft. (4 in.) ☐ 1.5 Gal/Ft. (6 in.) ☐ Gal/Ft. (in.) = 0.92 Gal/Vol
5.77 Ft. 3 Total Gal Purged Well Integrity: Prot. Casing Secure ☒ Yes ☐ No Concrete Collar Intact ☒ Other ☐

Equipment Documentation

Purging/Sampling Equipment Used:

(☒ If Used For)
 Purging Sampling
☒ ☒ Peristaltic Pump
☐ ☐ Bailor
☐ ☐ PVC/Silicon Tubing
☐ ☐ Teflon/Silicon Tubing
☐ ☐ Airlift
☐ ☐ Hand Pump
☐ ☐ In-line Filter
☐ ☐ Press/Vac Filter
☐ ☐ Submersible Pump
 Equipment ID

Decontamination Fluids Used:

(☒ All That Apply at Location)
☐ Methanol (100%)
☐ 25% Methanol/75% ASTM Type II water
☒ Deionized Water
☒ Liquinox Solution
☐ Hexane
☐ HNO₃/D.I. Water Solution
☐ Potable Water
☐ None

Field Analysis Data

Ambient Air VOC 0 ppm Well Mouth 2.0 ppm Field Data Collected ☐ In-line ☒ In Container Sample Observations: ☒ Turbid ☐ Clear ☐ Cloudy ☐ Colored ☐ Odor

Purge Data	@ 1 Gal.	@ 2 Gal.	@ 3 Gal.	@ Gal.	@ Gal.
Temperature, Deg. C	<u>17.5</u>	<u>16.6</u>	<u>15.8</u>		
pH, units	<u>6.34</u>	<u>6.51</u>	<u>6.65</u>		
Specific Conductivity (umhos/cm. @ 25 Deg. C.)	<u>3710</u>	<u>3450</u>	<u>3350</u>		
Oxidation - Reduction, +/- mv					
Dissolved Oxygen, ppm					
Turbidity (NTUs)	<u>> 200</u>	<u>> 200</u>	<u>> 200</u>		

Sample Collection Requirements

Analytical Parameter	☒ If Field Filtered	Preservation Method	Volume Required	☒ If Sample Collected	Sample Bottle IDs
VOC		-	<u>2 x 40ml</u>	☒	<u>SCMW/ 001 / XXX / 92XX</u>
SVOC/PEST/PCB		-	<u>2 x 125ml</u>	☒	<u>SCMW/ 001 / XXX / 92XX</u>
Cyanide		<u>NaOH</u>	<u>1 x 8oz</u>	☒	<u>SCMW/ 001 / XXX / 92XX</u>
Inorganics		<u>HNO₃</u>	<u>1 x 1 L</u>	☒	<u>SCMW/ 001 / XXX / 92XX</u>

Notes: Water was cloudy.
Nothing was filtered.
Purged water containerized by NYSDEC.

FIGURE 4-1
 GROUNDWATER SAMPLE DATA RECORD
 PROGRAM QUALITY ASSURANCE PROJECT PLAN
 NYSDEC CONTRACT NO. D002472

GROUNDWATER FIELD SAMPLE DATA RECORD

Project: NYSDEC - Stauffer Chemical
 Project Number: 07060-30
 Sample Location ID: SCMW002XXX92XX
 Time: Start: 1620 End: 1750

Site: MW-2
 Date: 6-29-92
 Signature of Sampler: JMC for TCH

Water Level/Well Data

Well Depth 7.70 Ft. ☒ Measured ☐ Historical ☒ Top of Well ☐ Top of Protective Casing Well Riser Stick-up Ft. (from ground) Protective -0.40 Ft. Casing/Well Difference

Depth to Water 2.55 Ft. Well Material: ☒ PVC ☐ SS Well Locked?: ☒ Yes ☐ No Well Dia. ☒ 2 inch ☐ 4 inch ☐ 6 inch Protective Ft. Casing Flush Mount

Height of Water Column 5.15 Ft. ☒ .16 Gal/Ft. (2 in.) ☐ .65 Gal/Ft. (4 in.) ☐ 1.5 Gal/Ft. (6 in.) ☐ Gal/Ft. (in.) = 0.82 Gal/Vol 3 Total Gal Purged Well Integrity: Prot. Casing Secure ☒ Concrete Collar Intact ☒ Other Water Level Equip. Used: ☒ Elect. Cond. Probe ☐ Float Activated ☐ Press. Transducer

Equipment Documentation

Purging/Sampling Equipment Used: Decontamination Fluids Used:

(☒ If Used For) Purging Sampling Equipment ID (☒ All That Apply at Location)

☒ Peristaltic Pump ☐ Bailer ☐ PVC/Silicon Tubing ☐ Teflon/Silicon Tubing ☐ Airlift ☐ Hand Pump ☐ In-line Filter ☐ Press/Vac Filter ☐ Submersible Pump

☐ Methanol (100%) ☐ 25% Methanol/75% ASTM Type II water ☒ Deionized Water ☒ Liquinox Solution ☐ Hexane ☐ HNO₃/D.I. Water Solution ☐ Potable Water ☐ None

Field Analysis Data

Ambient Air VOC 0 ppm Well Mouth 1.5 ppm Field Data Collected ☒ In-line ☐ In Container Sample Observations: ☐ Turbid ☐ Clear ☐ Cloudy ☒ Colored ☐ Odor ☐ Blackish

Purge Data	@ 1 Gal.	@ 2 Gal.	@ 3 Gal.	@ Gal.	@ Gal.
Temperature, Deg. C	17.4	16.5	16.8		
pH, units	6.7	6.6	6.4		
Specific Conductivity (umhos/cm. @ 25 Deg. C.)	2200	2280	2230		
Oxidation - Reduction, mV					
Dissolved Oxygen, ppm					
Turbidity (NTUs)	70.0	94.0	110.0		

Sample Collection Requirements

Analytical Parameter	☒ If Field Filtered	Preservation Method	Volume Required	☒ If Sample Collected	Sample Bottle IDs
VOC		—	4x2x40ml	☒	SCMW/ 002 / XXX / 92
SVOC/PEST/PCB		—	4x2x1/2gal	☒	SCMW/ 002 / XXX / 92
Inorganics		HNO ₃	4x1x1L	☒	SCMW/ 002 / XXX / 92
Cyanide		NaOH	4x1x8oz	☒	SCMW/ 002 / XXX / 92

Notes: 1 set of containers collected for each of the following:
Duplicate, MS, MSD.

FIGURE 4-1
 GROUNDWATER SAMPLE DATA RECORD
 PROGRAM QUALITY ASSURANCE PROJECT PLAN
 NYSDEC CONTRACT NO. D002472

GROUNDWATER FIELD SAMPLE DATA RECORD

Project: NYSDEC - Stauffer Chemical
 Project Number: 07060-30
 Sample Location ID: SCMW003XXX92XX
 Time: Start: 1800 6-29 End: 1030 6-30

Site: MW-3
 Date: 6-29-92 and 6-30-92
 Signature of Sampler: JMC

Water Level/Well Data

Well Depth 14.56 Ft. ☒ Measured ☐ Historical ☒ Top of Well ☐ Top of Protective Casing Well Riser Stick-up _____ Ft. Protective _____ Ft. Casing/Well Difference

Depth to Water 6.74 Ft. Well Material: ☒ PVC ☐ SS Well Locked?: ☒ Yes ☐ No Well Dia. ☒ 2 inch ☐ 4 inch ☐ 6 inch Water Level Equip. Used: ☒ Elect. Cond. Probe ☐ Float Activated ☐ Press. Transducer

Height of Water Column X ☒ .16 Gal/Ft. (2 in.) ☐ .65 Gal/Ft. (4 in.) ☐ 1.5 Gal/Ft. (6 in.) ☐ _____ Gal/Ft. (in.) = 1.25 Gal/Vol 1.8 Total Gal Purged Well Integrity: Prot. Casing Secure ☒ Concrete Collar Intact ☒ Other _____ Yes ☒ No ☐

Equipment Documentation

Purging/Sampling Equipment Used:

(☒ If Used For)

Purging	Sampling	Equipment ID
☒	☒	Peristaltic Pump
☐	☐	Bailer
☐	☐	PVC/Silicon Tubing
☐	☐	Teflon/Silicon Tubing
☐	☐	Airlift
☐	☐	Hand Pump
☐	☐	In-line Filter
☐	☐	Press/Vac Filter
☐	☐	Submersible Pump

Decontamination Fluids Used:

(☒ All That Apply at Location)

☐ Methanol (100%)
☐ 25% Methanol/75% ASTM Type II water
☒ Deionized Water
☒ Quinnox Solution
☐ Hexane
☐ HNO₃/D.I. Water Solution
☐ Potable Water
☐ None

Field Analysis Data

Ambient Air VOC _____ ppm Well Mouth _____ ppm Field Data Collected ☒ In-line ☐ In Container Sample Observations: ☐ Turbid ☐ Clear ☐ Cloudy ☐ Colored ☐ Odor

Purge Data	@ 1.25 Gal.	@ 1.80 Gal.	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.
Temperature, Deg. C	15.2	16.0			
pH, units	7.63	7.71			
Specific Conductivity (umhos/cm. @ 25 Deg. C.)	1003	896			
Oxidation - Reduction, +/- mv					
Dissolved Oxygen, ppm					
Turbidity (NTU's)	> 200	> 200			

Sample Collection Requirements

Analytical Parameter	☒ If Field Filtered	Preservation Method	Volume Required	☒ If Sample Collected	Sample Bottle IDs
VOC		—	2x40ml	☒	SCMW/ 003 / XXX / 92XX
SVE/PEST/PEB		—	2x1/2 gal	☒	SCMW/ 003 / XXX / 92XX
Inorganics		HNO ₃	6x1L	☒	SCMW/ 003 / XXX / 92XX
Cyanide		NaOH	1x8oz	☒	SCMW/ 003 / XXX / 92XX

Notes: 1935 6-29: Bailed dry after
1.8 gallons purged. Will sample
when recharged.
Well Sampled 6-30-92

FIGURE 4-1
 GROUNDWATER SAMPLE DATA RECORD
 PROGRAM QUALITY ASSURANCE PROJECT PLAN
 NYSDEC CONTRACT NO. D002472

GROUNDWATER FIELD SAMPLE DATA RECORD

Project: NYSDEC - Stauffer Chemical
 Project Number: 07060-30
 Sample Location ID: SCMW004XXX92XX
 Time: Start: 1450 End: 1615

Site: MW-4
 Date: 6-29-92
 Signature of Sampler: JMC for TCH

Water Level/Well Data

Well Depth 13.91 Ft. ☒ Measured ☐ Historical ☒ Top of Well ☐ Top of Protective Casing Well Riser Stick-up Ft. Protective 20.19 Ft. Casing/Well Difference

Depth to Water 10.34 Ft. Well Material: ☒ PVC ☐ SS Well Locked?: ☒ Yes ☐ No Well Dia. ☒ 2 inch ☐ 4 inch ☐ 6 inch Water Level Equip. Used: ☒ Elect. Cond. Probe ☐ Float Activated ☐ Press. Transducer

Height of Water Column 3.57 Ft. X ☒ 16 Gal/Ft. (2 in.) ☐ 65 Gal/Ft. (4 in.) ☐ 1.5 Gal/Ft. (6 in.) ☐ Gal/Ft. (in.) = 0.57 Gal/Vol 2.25 Total Gal Purged Well Integrity: Prot. Casing Secure ☒ Concrete Collar Intact ☒ Other ☐ Yes ☐ No

Equipment Documentation

Purging/Sampling Equipment Used:

(✓ If Used For)	Equipment ID
Purging	
Sampling	
☒	Peristaltic Pump
☒	Boiler
☐	PVC/Silicon Tubing
☐	Teflon/Silicon Tubing
☐	Airlift
☐	Hand Pump
☐	In-line Filter
☐	Press/Vac Filter
☐	Submersible Pump

Decontamination Fluids Used:

(✓ All That Apply at Location)

☐ Methanol (100%)
☐ 25% Methanol/75% ASTM Type II water
☒ Deionized Water
☒ Liquinox Solution
☐ Hexane
☐ HNO₃/D.I. Water Solution
☐ Potable Water
☐ None

Field Analysis Data

Ambient Air VOC 0 ppm Well Mouth 4.2 ppm Field Data Collected ☒ In-line ☐ Turbid ☐ Clear ☒ Cloudy ☐ Colored ☐ Odor ☐ Brown

Purge Data	@ 0.75 Gal.	@ 1.5 Gal.	@ 2.25 Gal.	@ Gal.	@ Gal.
Temperature, Deg. C	<u>13.8</u>	<u>12.9</u>	<u>12.8</u>		
pH, units	<u>7.3</u>	<u>7.6</u>	<u>7.6</u>		
Specific Conductivity (umhos/cm. @ 25 Deg. C.)	<u>726</u>	<u>843</u>	<u>882</u>		
Oxidation - Reduction, +/- mv					
Dissolved Oxygen, ppm					
Turbidity (NTU's)	<u>> 200</u>	<u>> 200</u>	<u>> 200</u>		

Sample Collection Requirements

Analytical Parameter	✓ If Field Filtered	Preservation Method	Volume Required	✓ If Sample Collected	Sample Bottle IDs
VOC			2x40ml	☒	SCMW/ 004 / XXX / 92XX
Svnc/PEST/PCB			2x1/2gal	☒	SCMW/ 004 / XXX / 92XX
Inorganics		HNO ₃	1x1L	☒	SCMW/ 004 / XXX / 92XX
Cyanide		NaOH	1x8oz	☒	SCMW/ 004 / XXX / 92XX

Notes: _____

FIGURE 4-1
 GROUNDWATER SAMPLE DATA RECORD
 PROGRAM QUALITY ASSURANCE PROJECT PLAN
 NYSDEC CONTRACT NO. D002472

GROUNDWATER FIELD SAMPLE DATA RECORD

Project: NYSDEC - Stauffer Chemical
 Project Number: 07060-30
 Sample Location ID: SCMW006XXX92XX
 Time: Start: 1800 End: 1930

Site: MW-6
 Date: 6-29-92
 Signature of Sampler: JMC for TCH

Water Level/Well Data

Well Depth 12.26 Ft. ☒ Measured ☐ Historical ☒ Top of Well ☐ Top of Protective Casing Well Riser Stick-up _____ Ft. (from ground) Protective -0.39 Ft. Casing/Well Difference

Depth to Water 5.92 Ft. Well Material: ☒ PVC ☐ SS Well Locked?: ☒ Yes ☐ No Well Dia. ☒ 2 inch ☐ 4 inch ☐ 6 inch Water Level Equip. Used: ☒ Elect. Cond. Probe ☐ Float Activated ☐ Press. Transducer

Height of Water Column X ☒ .16 Gal/Ft. (2 in.) ☐ .65 Gal/Ft. (4 in.) ☐ 1.5 Gal/Ft. (6 in.) ☐ _____ Gal/Ft. (____ in.) = 1.0 Gal/Vol 2 Total Gal Purged Well Integrity: Prot. Casing Secure ☒ Concrete Collar Intact ☒ Other _____ Yes ☒ No ☐

Equipment Documentation

Purging/Sampling Equipment Used:

(☒ If Used For)

Purging	Sampling	Equipment ID
☒	☒	Peristaltic Pump
☐	☐	Bailer
☐	☐	PVC/Silicon Tubing
☐	☐	Teflon/Silicon Tubing
☐	☐	Air Lift
☐	☐	Hand Pump
☐	☐	In-line Filter
☐	☐	Press/Vac Filter
☐	☐	Submersible Pump

Decontamination Fluids Used:

(☒ All That Apply at Location)

☐ Methanol (100%)
☐ 25% Methanol/75% ASTM Type II water
☒ Deionized Water
☒ Liquinox Solution
☐ Hexane
☐ HNO₃/D.I. Water Solution
☐ Potable Water
☐ None

Field Analysis Data

Ambient Air VOC 0 ppm Well Mouth 0 ppm Field Data Collected ☐ In-line ☒ In Container Sample Observations: ☐ Turbid ☐ Clear ☐ Cloudy ☐ Colored ☐ Odor

Purge Data	@ <u>1</u> Gal.	@ <u>2</u> Gal.	@ _____ Gal.	@ _____ Gal.	@ _____ Gal.
Temperature, Deg. C	<u>15.0</u>	<u>14.6</u>			
pH, units	<u>7.0</u>	<u>7.6</u>			
Specific Conductivity (umhos/cm. @ 25 Deg. C.)	<u>393</u>	<u>366</u>			
Oxidation - Reduction, +/- mv					
Dissolved Oxygen, ppm					
Turbidity (NTU's)	<u>100</u>				

Sample Collection Requirements

Analytical Parameter	☒ If Field Filtered	Preservation Method	Volume Required	☒ If Sample Collected	Sample Bottle IDs
VOC		—	2x40ml	☒	SCMW/ 006 / XXX / 92XX
SVOC/PEST/PCB		—	2x1/2gal	☒	SCMW/ 006 / XXX / 92XX
Inorganics		HNO ₃	1x1L	☒	SCMW/ 006 / XXX / 92XX
Cyanide		NaOH	1x8oz	☒	SCMW/ 006 / XXX / 92XX

Notes: Well dry after two volumes.

FIGURE 4-1
 GROUNDWATER SAMPLE DATA RECORD
 PROGRAM QUALITY ASSURANCE PROJECT PLAN
 NYSDEC CONTRACT NO. D002472

GROUNDWATER FIELD SAMPLE DATA RECORD

Project: NYSDEC - Stauffer

Site: MW-7

Project Number: 07060-30

Date: 6-29-92

Sample Location ID: SCMW007XXX92XX

Signature of

Time: Start: 16²⁰ End: 17⁵⁰

Sampler: JMC

Water Level/Well Data

Well Depth 15.0 Ft. ☒ Measured ☐ Historical ☒ Top of Well ☐ Top of Protective Casing Well Riser Stick-up Ft. (from ground) Protective -0.26 Ft. Casing/Well Difference

Depth to Water 4.43 Ft. Well Material: ☒ PVC ☐ SS Well Locked?: ☒ Yes ☐ No Well Dia. ☒ 2 inch ☐ 4 inch ☐ 6 inch Water Level Equip. Used: ☐ Elect. Cond. Probe ☐ Float Activated ☐ Press. Transducer

Height of Water Column X ☒ 16 Gal/Ft. (2 in.) ☐ 85 Gal/Ft. (4 in.) ☐ 1.5 Gal/Ft. (6 in.) ☐ Gal/Ft. (in.) = [1.7 Gal/Vol 6 Total Gal Purged] Well Integrity: Prot. Casing Secure ☒ Concrete Collar Intact ☒ Other ☐ Yes ☐ No

Equipment Documentation

Purging/Sampling Equipment Used:

Decontamination Fluids Used:

(☒ If Used For)

Purging	Sampling	Equipment ID
☒	☒	Peristaltic Pump
☒	☒	Bailer
☒	☒	PVC/Silicon Tubing
☒	☒	Teflon/Silicon Tubing
☒	☒	Airlift
☒	☒	Hand Pump
☒	☒	In-line Filter
☒	☒	Press/Vac Filter
☒	☒	Submersible Pump

(☒ All That Apply at Location)

☐ Methanol (100%)
☐ 25% Methanol/75% ASTM Type II water
☒ Deionized Water
☒ Liquinox Solution
☐ Hexane
☐ HNO₃/D.I. Water Solution
☐ Potable Water
☐ None

Field Analysis Data

Ambient Air VOC 0 ppm Well Mouth 4.1 ppm Field Data Collected ☐ In-line ☒ 1st Container Sample Observations: ☐ Turbid ☐ Clear ☐ Cloudy ☐ Colored ☐ Odor

Purge Data	@ <u>2</u> Gal.	@ <u>4</u> Gal.	@ <u>6</u> Gal.	@ <u> </u> Gal.	@ <u> </u> Gal.
Temperature, Deg. C	<u>13.4</u>	<u>13.4</u>	<u>13.3</u>	<u> </u>	<u> </u>
pH, units	<u>7.54</u>	<u>7.41</u>	<u>7.42</u>	<u> </u>	<u> </u>
Specific Conductivity (umhos/cm. @ 25 Deg. C.)	<u>4950</u>	<u>4520</u>	<u>4300</u>	<u> </u>	<u> </u>
Oxidation - Reduction, +/ - mv	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
Dissolved Oxygen, ppm	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
Turbidity (NTU's)	<u>86.2</u>	<u>150.9</u>	<u>110.5</u>	<u> </u>	<u> </u>

Sample Collection Requirements (☒ If Required at this Location)

Analytical Parameter	☒ If Field Filtered	Preservation Method	Volume Required	☒ If Sample Collected	Sample Bottle IDs
VOC	☐	<u> </u>	<u>2x40ml</u>	☒	<u>SCMW/ 007 / XXX / 92XX</u>
SPEC/PEST/PCB	☐	<u> </u>	<u>2x1/2 gal</u>	☒	<u>SCMW/ 007 / XXX / 92XX</u>
Inorganics	☐	<u>HNO₃</u>	<u>1x1L</u>	☒	<u>SCMW/ 007 / XXX / 92XX</u>
Cyanide	☐	<u>NaOH</u>	<u>1x80oz</u>	☒	<u>SCMW/ 007 / XXX / 92XX</u>
<u> </u>	☐	<u> </u>	<u> </u>	☐	<u> </u>
<u> </u>	☐	<u> </u>	<u> </u>	☐	<u> </u>
<u> </u>	☐	<u> </u>	<u> </u>	☐	<u> </u>
<u> </u>	☐	<u> </u>	<u> </u>	☐	<u> </u>

Notes:

FIGURE 4-1
 GROUNDWATER SAMPLE DATA RECORD
 PROGRAM QUALITY ASSURANCE PROJECT PLAN
 NYSDEC CONTRACT NO. D002472

APPENDIX D-2

SURFACE WATER AND SEDIMENT

E.C. Jordan Co.



SURFACE WATER AND SEDIMENT FIELD SAMPLE DATA RECORD

Project: NYSDEC- Stauffer Chemical

Site: SW/SD Sampler Blank

Project Number: 07060-30

Date: 6-30-92

Sample Location ID: SC93002 XXX 92XX

Time: Start: 1455 End: 1510

Signature of Sampler: JMC

SURFACE WATER INFORMATION

TYPE OF SURFACE WATER:
☐ STREAM ☐ RIVER
☐ POND/LAKE ☐ SEEP

DECONTAMINATION FLUIDS USED:

☒ ALL USED
☐ ETHYL ALCOHOL
☐ 25% METHANOL/ 75% ASTM TYPE II WATER
☐ DEIONIZED WATER
☐ LIQUINOX SOLUTION
☐ HEXANE
☐ HNO₃ SOLUTION
☐ POTABLE WATER
☐ NONE

WATER DEPTH AND SAMPLE LOCATION _____ (ft)

DEPTH OF SAMPLE FROM TOP OF WATER _____ (ft)

EQUIPMENT USED FOR COLLECTION:
☐ NONE, GRAB INTO BOTTLE
☐ BOMB SAMPLER
☐ PUMP

VELOCITY MEASUREMENTS OBTAINED? ☐ YES, SEE FLOW MEASUREMENT DATA RECORD _____

TEMPERATURE _____ Deg. C. SPEC. COND. _____ μ mhos/cm pH _____ Units DISS. O₂ _____ ppm

FIELD GC DATA: ☐ FIELD DUPLICATE COLLECTED
 DUPLICATE ID _____

SAMPLE LOCATION SKETCH: ☐ YES
☐ NO METHOD USED: ☐ WINKLER
☐ PROBE

SEDIMENT INFORMATION

EQUIPMENT USED FOR COLLECTION:
☐ GRAVITY CORER
☐ S.S. SPLIT SPOON
☐ DREDGE
☒ HAND SPOON
☐ ALUMINUM PANS
☐ SS BUCKET

DECONTAMINATION FLUIDS USED:

☒ ALL USED
☐ ETHYL ALCOHOL
☐ 25% METHANOL/ 75% ASTM TYPE II WATER
☐ DEIONIZED WATER
☐ LIQUINOX SOLUTION
☐ HEXANE
☐ HNO₃ SOLUTION
☐ POTABLE WATER
☒ NONE (Never used during sampling)

DEPTH OF SEDIMENT SAMPLE _____ (ft)

TYPE OF SAMPLE COLLECTED:
☐ DISCRETE
☐ COMPOSITE

SEDIMENT TYPE:

☐ CLAY
☐ SAND
☐ ORGANIC
☐ GRAVEL

SAMPLE OBSERVATIONS:

☐ ODOR _____
☐ COLOR _____
☐ _____

FIELD GC DATA: ☐ FIELD DUPLICATE COLLECTED
 DUPLICATE ID _____

SAMPLES COLLECTED

/ IF REQUIRED AT THIS LOCATION	MATRIX		/ IF PRESERVED WITH ACID-BASE	VOLUME REQUIRED	/ IF SAMPLE COLLECTED	SAMPLE BOTTLE IDS
	SURFACE WATER	SEDIMENT				
☐	☐	☐	☐	2 x 40 ml	☒	SC93 / 002 / XXX / 92XX
☐	☐	☐	☐	2 x 1/2 gal	☒	SC93 / 002 / XXX / 92XX
☐	☐	☐	☐	1 x 1 l	☒	SC93 / 002 / XXX / 92XX
☐	☐	☐	☐	1 x 8 oz	☒	SC93 / 002 / XXX / 92XX
☐	☐	☐	☐		☐	
☐	☐	☐	☐		☐	
☐	☐	☐	☐		☐	

NOTES/SKETCH

Deionized water from ABB staging (NOT in lab-cleaned containers) was poured over a clean (not used for sampling) pan and spoon directly into the sample containers.

FIGURE 4-2
SURFACE WATER/SEDIMENT SAMPLE DATA RECORD
PROGRAM QUALITY ASSURANCE PROJECT PLAN
NYSDEC CONTRACT NO. D002472

SURFACE WATER AND SEDIMENT FIELD SAMPLE DATA RECORD

Project: NYSDEC - Stauffer Chemical Site: SW/SD-1
 Project Number: 07060-30 Date: 6-30-92
 Sample Location ID: SCSW001XXX92XX/SCSD001XXX92XX
 Time: Start: 11³⁷ End: 12⁰⁷ Signature of Sampler: JMC

SURFACE WATER INFORMATION

TYPE OF SURFACE WATER:

☐ STREAM ☐ RIVER
☐ POND/LAKE ☐ SEEP
☒ Catch basin

DECONTAMINATION FLUIDS USED:

☒ ALL USED
☐ ETHYL ALCOHOL
☐ 25% METHANOL/ 75% ASTM TYPE II WATER
☐ DEIONIZED WATER
☐ LIQUINOX SOLUTION
☐ HEXANE
☐ HNO₃ SOLUTION
☐ POTABLE WATER
☒ NONE

WATER DEPTH AND SAMPLE LOCATION 0.10 (ft)

DEPTH OF SAMPLE FROM TOP OF WATER 0 (ft)

EQUIPMENT USED FOR COLLECTION:

☒ NONE, GRAB INTO BOTTLE
☐ BOMB SAMPLER
☐ PUMP

VELOCITY MEASUREMENTS OBTAINED? ☐ YES, SEE FLOW MEASUREMENT DATA RECORD

Turbidity 7200 NTU

TEMPERATURE 22.8 Deg. C. SPEC. COND. 1120 μ mhos/cm pH 7.2 Units DISS. O₂ _____ ppm

FIELD GC DATA: ☐ FIELD DUPLICATE COLLECTED
 DUPLICATE ID _____

SAMPLE LOCATION SKETCH:
☒ YES
☐ NO

METHOD USED:
☐ WINKLER
☐ PROBE

SEDIMENT INFORMATION

EQUIPMENT USED FOR COLLECTION:

☐ GRAVITY CORER
☐ S.S. SPLUT SPOON
☐ DREDGE
☒ HAND SPOON
☒ ALUMINUM PANS
☐ SS BUCKET

DECONTAMINATION FLUIDS USED:

☒ ALL USED
☐ ETHYL ALCOHOL
☐ 25% METHANOL/ 75% ASTM TYPE II WATER
☐ DEIONIZED WATER
☐ LIQUINOX SOLUTION
☐ HEXANE
☐ HNO₃ SOLUTION
☐ POTABLE WATER
☒ NONE

DEPTH OF SEDIMENT SAMPLE 0 (ft)

TYPE OF SAMPLE COLLECTED:

☐ DISCRETE
☒ COMPOSITE

SEDIMENT TYPE:

☐ CLAY
☐ SAND
☒ ORGANIC
☐ GRAVEL
☒ SILT

SAMPLE OBSERVATIONS:

☐ ODOR _____
☒ COLOR Black

FIELD GC DATA: ☐ FIELD DUPLICATE COLLECTED
 DUPLICATE ID _____

SAMPLES COLLECTED

✓ IF REQUIRED AT THIS LOCATION	MATRIX		✓ IF PRESERVED WITH ACID-BASE	VOLUME REQUIRED	✓ IF SAMPLE COLLECTED	SAMPLE BOTTLE IDS
	SURFACE WATER	SEDIMENT				
☐	☒	☐	☐	2 x 2 x 40ml	☒	SCSW/001/XXX/92/XX
☐	☒	☐	☐	2 x 2 x 1/2 gal	☒	SCSW/001/XXX/92/XX, XD
☐	☒	☐	☐	2 x 1 x 1L	☒	SCSW/001/XXX/92/XX, XD
☐	☒	☐	☐	2 x 1 x 80L	☒	SCSW/001/XXX/92/XX, XD
☐	☒	☐	☐	2 x 1 x 125 ml	☒	SCSD/001/XXX/92/XX
☐	☒	☐	☐	2 x 2 x 8 oz	☒	SCSD/001/XXX/92/XX, XD

NOTES/SKETCH

**FIGURE 4-2
 SURFACE WATER/SEDIMENT SAMPLE DATA RECORD
 PROGRAM QUALITY ASSURANCE PROJECT PLAN
 NYSDEC CONTRACT NO. D002472**

SURFACE WATER AND SEDIMENT FIELD SAMPLE DATA RECORD

Project: NYSDEC - Stauffer Chemical Site: SW/SD-2
 Project Number: 07060-30 Date: 6-30-92
 Sample Location ID: SCSW/SD/002 XXX 92 XX
 Time: Start: 12¹⁰ End: 13³⁵ Signature of Sampler: JMC

SURFACE WATER INFORMATION

TYPE OF SURFACE WATER:
☐ STREAM ☐ RIVER
☐ POND/LAKE ☐ SEEP ☒ catch basin
 DECONTAMINATION FLUIDS USED:
☒ ALL USED
☐ ETHYL ALCOHOL
☐ 25% METHANOL/ 75% ASTM TYPE II WATER
☐ DEIONIZED WATER
☐ LIQUINOX SOLUTION
☐ HEXANE
☐ HNO₃ SOLUTION
☐ POTABLE WATER
☒ NONE

WATER DEPTH AND SAMPLE LOCATION 0.20 (m)

DEPTH OF SAMPLE FROM TOP OF WATER 0 (m)
 EQUIPMENT USED FOR COLLECTION:
☒ NONE, GRAB INTO BOTTLE
☐ BOMB SAMPLER
☐ PUMP

VELOCITY MEASUREMENTS OBTAINED? ☐ YES, SEE FLOW MEASUREMENT DATA RECORD

TEMPERATURE Instrument Malfunction Deg. C. SPEC. COND. 5140 μ mhos/cm pH 7.39 Units
 Turbidity: 96 NTU
 DISS. O₂ _____ ppm

FIELD GC DATA: ☐ FIELD DUPLICATE COLLECTED
 DUPLICATE ID _____

SAMPLE LOCATION SKETCH:
☐ YES
☒ NO

METHOD USED:
☐ WINKLER
☐ PROBE

SEDIMENT INFORMATION

EQUIPMENT USED FOR COLLECTION:
☐ GRAVITY CORER
☐ S.S. SPLIT SPOON
☐ DREDGE
☒ HAND SPOON
☐ ALUMINUM PANS
☐ SS BUCKET
 DECONTAMINATION FLUIDS USED:
☒ ALL USED
☐ ETHYL ALCOHOL
☐ 25% METHANOL/ 75% ASTM TYPE II WATER
☐ DEIONIZED WATER
☐ LIQUINOX SOLUTION
☐ HEXANE
☐ HNO₃ SOLUTION
☐ POTABLE WATER
☒ NONE

DEPTH OF SEDIMENT SAMPLE 0 (m)

TYPE OF SAMPLE COLLECTED:
☐ DISCRETE
☒ COMPOSITE

SAMPLE OBSERVATIONS:

☐ ODOR _____
☒ COLOR Black
☐ _____

SEDIMENT TYPE:

☐ CLAY
☐ SAND
☒ ORGANIC
☐ GRAVEL
☒ SILT

FIELD GC DATA: ☐ FIELD DUPLICATE COLLECTED
 DUPLICATE ID _____

SAMPLES COLLECTED

IF REQUIRED AT THIS LOCATION	MATRIX		IF PRESERVED WITH ACID-BASE	VOLUME REQUIRED	IF SAMPLE COLLECTED	SAMPLE BOTTLE IDS
	SURFACE WATER	SEDIMENT				
☐	☒	☐	☐	3x2x40ml	☒	SCSW/002/XXX/92/XX, MS, MD
☐	☒	☐	☐	3x2x12ga	☒	SCSW/002/XXX/92/XX, MS, MD
☐	☒	☐	☐	3x1x16	☐	SCSW/002/XXX/92/XX, MS, MD
☐	☒	☐	☐	3x1x8oz	☐	SCSW/002/XXX/92/XX, MS, MD
☐	☒	☐	☐	2x1x125ml	☐	SCSD/002/XXX/92/XX, MS
☐	☒	☐	☐	2x2x8oz	☐	SCSD/002/XXX/92/XX, MS

NOTES/SKETCH

- MS/MSD sample taken for surface water: triple volume
- MS/MSD sample taken for sediment: double volume

FIGURE 4-2
SURFACE WATER/SEDIMENT SAMPLE DATA RECORD
PROGRAM QUALITY ASSURANCE PROJECT PLAN
NYSDEC CONTRACT NO. D002472

SURFACE WATER AND SEDIMENT FIELD SAMPLE DATA RECORD

Project: NYSDEC - Stauffer Chemical Site: SW/SD-3
 Project Number: 07060-30 Date: 6-30-92
 Sample Location ID: SC(SW/SD)003XXX 92XX
 Time: Start: 1340 End: 1400 Signature of Sampler: JMC

SURFACE WATER INFORMATION

TYPE OF SURFACE WATER:

☐ STREAM ☐ RIVER
☐ POND/LAKE ☐ SEEP
☒ Catch basin

DECONTAMINATION FLUIDS USED:

☒ ALL USED
☐ ETHYL ALCOHOL
☐ 25% METHANOL/ 75% ASTM TYPE II WATER
☐ DEIONIZED WATER
☐ LIQUINOX SOLUTION
☐ HEXANE
☐ HNO₃ SOLUTION
☐ POTABLE WATER
☒ NONE

WATER DEPTH AND SAMPLE LOCATION 0.5 (m)

DEPTH OF SAMPLE FROM TOP OF WATER 0 (m)

EQUIPMENT USED FOR COLLECTION:

☒ NONE, GRAB INTO BOTTLE
☐ BOMB SAMPLER
☐ PUMP

VELOCITY MEASUREMENTS OBTAINED? ☐ YES, SEE FLOW MEASUREMENT DATA RECORD

Turbidity = 74 NTU

TEMPERATURE 25.4 Deg. C. SPEC. COND. 167 μ mhos/cm pH 7.1 Units DISS. O₂ _____ ppm

FIELD GC DATA: ☐ FIELD DUPLICATE COLLECTED
 DUPLICATE ID _____

SAMPLE LOCATION SKETCH:
☐ YES
☒ NO

METHOD USED:
☐ WINKLER
☐ PROBE

SEDIMENT INFORMATION

EQUIPMENT USED FOR COLLECTION:

☐ GRAVITY CORER
☐ S.S. SPLIT SPOON
☐ DREDGE
☒ HAND SPOON
☐ ALUMINUM PANS
☐ SS BUCKET

DECONTAMINATION FLUIDS USED:

☒ ALL USED
☐ ETHYL ALCOHOL
☐ 25% METHANOL/ 75% ASTM TYPE II WATER
☐ DEIONIZED WATER
☐ LIQUINOX SOLUTION
☐ HEXANE
☐ HNO₃ SOLUTION
☐ POTABLE WATER
☐ NONE

DEPTH OF SEDIMENT SAMPLE 0-0.5 (m)

TYPE OF SAMPLE COLLECTED:

☐ DISCRETE
☒ COMPOSITE

SEDIMENT TYPE:

☒ CLAY
☒ SAND
☒ ORGANIC
☐ GRAVEL

SAMPLE OBSERVATIONS:

☐ ODOR _____
☒ COLOR black/organic,
brown, white

FIELD GC DATA: ☐ FIELD DUPLICATE COLLECTED
 DUPLICATE ID _____

SAMPLES COLLECTED

/ IF REQUIRED AT THIS LOCATION	MATRIX		/ IF PRESERVED WITH ACID-BASE	VOLUME REQUIRED	/ IF SAMPLE COLLECTED	SAMPLE BOTTLE IDS
	SURFACE WATER	SEDIMENT				
☐	☒	☐	☐	2 x 40 ml	☒	SCSW/003/XXX/92XX
☐	☒	☐	☐	2 x 1/2 gal	☒	SCSW/003/XXX/92XX
☐	☒	☐	☒	1 x 1L	☒	SCSW/003/XXX/92XX
☐	☐	☒	☐	1 x 8oz	☒	SCSW/003/XXX/92XX
☐	☐	☒	☐	2 x 8oz	☒	SCSD/003/XXX/92XX
☐	☐	☒	☐	2 x 125 ml	☒	SCSD/003/XXX/92XX

NOTES/SKETCH

Sediment was very fine, almost fluid; tan color, with some white slimy material and black organic material.

FIGURE 4-2
SURFACE WATER/SEDIMENT SAMPLE DATA RECORD
PROGRAM QUALITY ASSURANCE PROJECT PLAN
NYSDEC CONTRACT NO. D002472

SURFACE WATER AND SEDIMENT FIELD SAMPLE DATA RECORD

Project: NYSDEC - Stauffer Chemical Site: SW/SD-4
 Project Number: 07060-30 Date: 6-30-92
 Sample Location ID: SCSD004XXX92XX
 Time: Start: 12⁵⁰ End: 13¹⁰ Signature of Sampler: JMC

SURFACE WATER INFORMATION

TYPE OF SURFACE WATER:
☐ STREAM ☐ RIVER
☐ POND/LAKE ☐ SEEP ☒ Drainage ditch
 DECONTAMINATION FLUIDS USED:
☒ ALL USED
☐ ETHYL ALCOHOL
☐ 25% METHANOL/ 75% ASTM TYPE II WATER
☐ DEIONIZED WATER
☐ LIQUINOX SOLUTION
☐ HEXANE
☐ HNO₃ SOLUTION
☐ POTABLE WATER
☒ NONE
 WATER DEPTH AND SAMPLE LOCATION DRY (ft)
 DEPTH OF SAMPLE FROM TOP OF WATER _____ (ft)
 EQUIPMENT USED FOR COLLECTION:
☐ NONE, GRAB INTO BOTTLE
☐ BOMB SAMPLER
☐ PUMP
 VELOCITY MEASUREMENTS OBTAINED? ☐ YES, SEE FLOW MEASUREMENT DATA RECORD _____

TEMPERATURE _____ Deg. C. SPEC. COND. _____ $\mu\text{mhos/cm}$ pH _____ Units DISS. O₂ _____ ppm

FIELD GC DATA: ☐ FIELD DUPLICATE COLLECTED
 DPLICATE ID _____
 SAMPLE LOCATION SKETCH: ☒ YES
☐ NO
 METHOD USED:
☐ WINKLER
☐ PROBE

SEDIMENT INFORMATION

EQUIPMENT USED FOR COLLECTION:
☐ GRAVITY CORER
☐ S.S. SPLIT SPOON
☐ DREDGE
☒ HAND SPOON
☐ ALUMINUM PANS
☐ SS BUCKET
 DECONTAMINATION FLUIDS USED:
☒ ALL USED
☐ ETHYL ALCOHOL
☐ 25% METHANOL/ 75% ASTM TYPE II WATER
☐ DEIONIZED WATER
☐ LIQUINOX SOLUTION
☐ HEXANE
☐ HNO₃ SOLUTION
☐ POTABLE WATER
☒ NONE
 DEPTH OF SEDIMENT SAMPLE 0-0.5 (ft)
 TYPE OF SAMPLE COLLECTED:
☐ DISCRETE
☒ COMPOSITE
 SEDIMENT TYPE:
☐ CLAY
☒ SAND, coarse
☒ ORGANIC
☐ GRAVEL
 SAMPLE OBSERVATIONS:
☐ ODOR _____
☒ COLOR orange
☐ _____
☐ _____

FIELD GC DATA: ☐ FIELD DUPLICATE COLLECTED
DUPLICATE ID _____

SAMPLES COLLECTED

✓ IF REQUIRED AT THIS LOCATION	MATRIX		✓ IF PRESERVED WITH ACID-BASE	VOLUME REQUIRED	✓ IF SAMPLE COLLECTED	SAMPLE BOTTLE IDS			
	SURFACE WATER	SEDIMENT							
☐	☐	☒	☐	2 x 802	☒	SCSD/004/XXX/92XX			
☐	☐	☒	☐	1 x 125 ml	☒	SCSD/004/XXX/92XX			
☐	☐	☐	☐		☐				
☐	☐	☐	☐		☐				
☐	☐	☐	☐		☐				
☐	☐	☐	☐		☐				

NOTES/SKETCH

FIGURE 4-2
SURFACE WATER/SEDIMENT SAMPLE DATA RECORD
PROGRAM QUALITY ASSURANCE PROJECT PLAN
NYSDEC CONTRACT NO. D002472

SURFACE WATER AND SEDIMENT FIELD SAMPLE DATA RECORD

Project: NYSDEC - Stauffer Chemical Site: SW/SD-5
 Project Number: 07060-30 Date: 6-30-92
 Sample Location ID: SCSD005XXX92XX
 Time: Start: 13²⁰ End: 13⁴⁰ Signature of Sampler: JMC

SURFACE WATER INFORMATION

TYPE OF SURFACE WATER:

☐ STREAM ☐ RIVER
☐ POND/LAKE ☐ SEEP
☒ drainage ditch

DECONTAMINATION FLUIDS USED:

☒ ALL USED
☐ ETHYL ALCOHOL
☐ 25% METHANOL/ 75% ASTM TYPE II WATER
☐ DEIONIZED WATER
☐ LIQUINOX SOLUTION
☐ HEXANE
☐ HNO₃ SOLUTION
☐ POTABLE WATER
☐ NONE

WATER DEPTH AND SAMPLE LOCATION DRY (ft)

DEPTH OF SAMPLE FROM TOP OF WATER _____ (ft)

EQUIPMENT USED FOR COLLECTION:

☐ NONE, GRAB INTO BOTTLE
☐ BOMB SAMPLER
☐ PUMP

VELOCITY MEASUREMENTS OBTAINED? ☐ YES, SEE FLOW MEASUREMENT DATA RECORD

TEMPERATURE _____ Deg. C. SPEC. COND. _____ μ mhos/cm pH _____ Units DISS. O₂ _____ ppm

FIELD GC DATA: ☐ FIELD DUPLICATE COLLECTED
DUPLICATE ID _____

SAMPLE LOCATION SKETCH:
☐ YES
☒ NO

METHOD USED:
☐ WINKLER
☐ PROBE

SEDIMENT INFORMATION

EQUIPMENT USED FOR COLLECTION:

☐ GRAVITY CORER
☐ S.S. SPLIT SPOON
☐ DREDGE
☒ HAND SPOON
☐ ALUMINUM PANS
☐ SS BUCKET

DECONTAMINATION FLUIDS USED:

☒ ALL USED
☐ ETHYL ALCOHOL
☐ 25% METHANOL/ 75% ASTM TYPE II WATER
☐ DEIONIZED WATER
☐ LIQUINOX SOLUTION
☐ HEXANE
☐ HNO₃ SOLUTION
☐ POTABLE WATER
☒ NONE

DEPTH OF SEDIMENT SAMPLE 0-0.5 (ft)

TYPE OF SAMPLE COLLECTED:

☐ DISCRETE
☒ COMPOSITE

SAMPLE OBSERVATIONS:

☐ ODOR _____
☒ COLOR grey brown

SEDIMENT TYPE:

☒ CLAY
☒ SAND
☐ ORGANIC
☐ GRAVEL

FIELD GC DATA: ☐ FIELD DUPLICATE COLLECTED
DUPLICATE ID _____

SAMPLES COLLECTED

✓ IF REQUIRED AT THIS LOCATION	MATRIX		✓ IF PRESERVED WITH ACID-BASE	VOLUME REQUIRED	✓ IF SAMPLE COLLECTED	SAMPLE BOTTLE IDS
	SURFACE WATER	SEDIMENT				
☐	☐	☒	☐	<u>2 x 802</u>	☒	<u>SCSD/005/XXX/92XX</u>
☐	☐	☒	☐	<u>1 x 125 ml</u>	☒	<u>SCSD/005/XXX/92XX</u>
☐	☐	☐	☐	_____	☐	_____
☐	☐	☐	☐	_____	☐	_____
☐	☐	☐	☐	_____	☐	_____
☐	☐	☐	☐	_____	☐	_____

NOTES/SKETCH

FIGURE 4-2
SURFACE WATER/SEDIMENT SAMPLE DATA RECORD
PROGRAM QUALITY ASSURANCE PROJECT PLAN
NYSDEC CONTRACT NO. D002472

APPENDIX D-3

WELL DEVELOPMENT RECORDS

E.C. Jordan Co.

WELL DEVELOPMENT RECORD

Project: Stauffer Chemical	Well Installation Date: 5-29-92	Project No. 07060-30	
Client: NYSDEC	Well Development Date: 6-2-92	Logged by: JMC	Checked by: CCL
Well/Site I.D.: MW-1	Weather: Sunny, 70°, 5-10 mph wind	Start Date: 6-2-92	Finish Date: 6-2-92
Initial Water Level (ft): DTW = 4.9' BGS ; DOW = 11.32' BGS; Height of Water = 6.42'		Start Time: 0930	Finish Time: 1230
Water Level during Initial Pumping/Purging (ft): DTW = 4.9' BGS			
Water Level at Termination of Pumping/Purging (ft): DTW = 5.08' BGS			

Estimated Well Volume: 1 gal

Number of Well Volumes	TIME	TEMP.	pH	Conductivity	Approximate Pumping Rate (gal/min)	Turbidity (NTU's)
35	10 ⁵⁶	15.8	6.30	3000	1/2	> 1000
85	11 ¹⁵	15.3	6.13	2960		707
110	11 ²²	14.9	5.78	2910		15.9*

Notes:

- * After well pumped clear.
- Bailed 35 gallons, then connected pump.
- Pumped 65 gallons
- Turbidity measured directly after 65 gallons pumped was 15.9 NTU's. 7 bailers-full were then removed, and the turbidity was measured then to be 589 NTU's.
- The well was allowed to settle for two hours, then turbidity was again measured. It was between 50 and 100 NTU's.
- The development process was deemed complete by Glenn May of NYSDEC.

WELL DEVELOPER'S SIGNATURE JMC

FIGURE 4-11
WELL DEVELOPMENT RECORD
PROGRAM QUALITY ASSURANCE PROJECT PLAN
NYSDEC CONTRACT NO. D002472

WELL DEVELOPMENT RECORD

Project: Stauffer Chemical	Well Installation Date: 5-28-92	Project No. 07060-30	
Client: NYSDEC	Well Development Date: 6-2-92	Logged by: BBJ	Checked by: CEL
Well/Site I.D.: MW-2	Weather: Clear, 70°F	Start Date: 6-2-92	Finish Date: 6-2-92
Initial Water Level (ft): 2.00 B.T.O.C.		Start Time: 08 ²⁵	Finish Time: 10 ¹¹
Water Level during Initial Pumping/Purging (ft):			
Water Level at Termination of Pumping/Purging (ft):			

Estimated Well Volume: _____

Number of Well Volumes	TIME	TEMP.	pH	Conductivity	Approximate Pumping Rate (gal/min)	Turbidity (NTU's)
5	08 ²⁵					>1000, Black
10						>1000
15						>1000
20		14.3	6.51	1905		>1000
25		13.8	6.04	1965		>1000
35		13.5	5.84	1974		>1000
40	08 ⁵⁰	14.3	5.84	1994		>1000
75		13.7	5.49	1840		760*
110	09 ⁰⁰	13.8	5.56	1866		>1000
130		14.0	5.19	1828		>1000
160	10 ¹¹	13.9	5.07	1847		>1000

Notes:

- All readings are taken on samples collected with a bailer.
- Bailed the first 35 gallons, then used a pump.
- *At 75 gallons, stopped pump and bailed to get above readings. A sample was also collected prior to stopping the pump with the following results:
T = 14.9°C, pH = 5.61, Conductivity = 1930, Clear.
- Surged well after 95 gallons.
- Steel in drums is turning greenish at water-air interface.
- Glenn May of NYSDEC said to stop development: this well has been developed as much as practically possible.

WELL DEVELOPER'S SIGNATURE

JMC for BBJ

FIGURE 4-11
WELL DEVELOPMENT RECORD
PROGRAM QUALITY ASSURANCE PROJECT PLAN
NYSDEC CONTRACT NO. D002472

WELL DEVELOPMENT RECORD

Project: Stauffer chemical	Well Installation Date: 6-1-92	Project No. 07060-30	
Client: NYSDEC	Well Development Date: 6-2-92	Logged by: BBJ	Checked by: MCL
Well/Site I.D.: MW-3	Weather: Clear: 70°F	Start Date: 6-2-92	Finish Date: 6-2-92
Initial Water Level (ft): 6.17' B.T.O.C.	Start Time: 0817	Finish Time: 1435	
Water Level during Initial Pumping/Purging (ft):			
Water Level at Termination of Pumping/Purging (ft):			

Estimated Well Volume: _____

Number of Well Volumes	TIME	TEMP.	pH	Conductivity	Approximate Pumping Rate (gal/min)	Turbidity (NTU's)
1.5	0817	11.9	7.97	511		71000 Brown
3.0	1120	13.9	7.41	621		>1000 Cloudy
6.0	1342	13.9	7.66	683		35.6
6.5	1400	NO READINGS TAKEN				100
7.0	1435	13.4	7.48	661		95

Notes:

- Well recovery is very slow.
- Glenn May of NYSDEC determined the completion of well development.

WELL DEVELOPER'S SIGNATURE

JMC for BBJ

FIGURE 4-11
WELL DEVELOPMENT RECORD
PROGRAM QUALITY ASSURANCE PROJECT PLAN
NYSDEC CONTRACT NO. D002472

WELL DEVELOPMENT RECORD

Project: Stauffer Chemical	Well Installation Date: 5-29-92	Project No. 07000-30
Client: NYSDEC	Well Development Date: 6-1-92	Logged by: JMC
Well/Site I.D.: MW-4	Weather: Sunny, 70°, 10mph wind	Start Date: 6-1-92
Initial Water Level (ft): DTW= 8.00 DOW= 13.8	Start Time: (12 ⁰⁰)	Finish Date: 6-2-92
Water Level during Initial Pumping/Purging (ft):		
Water Level at Termination of Pumping/Purging (ft): Dry (+trace)		

Estimated Well Volume: 1 gal

Number of Well Volumes	TIME	TEMP.	pH	Conductivity	Approximate Pumping Rate (gal/min)	Turbidity (NTU's)
1	12 ⁰⁰	12.9	6.7	1397	1/2	> 50
2	12 ¹⁰	10.8	6.9	1235	1/2	> 1000
3	12 ²⁰	11.1	6.9	1225	1/2	> 1000
4	12 ²²	10.6	6.9	1217	1/2	> 1000
5	12 ²⁵	11.2	6.8	1246	1/2	> 1000
6	12 ²⁷	10.3	6.8	1249	1/2	> 1000
7	12 ³²	11.1	6.8	1245	1/2	> 1000
8	12 ³⁶	11.2	6.8	1260	1/4	> 1000
9	12 ⁴⁶	10.9	7.0	1239	1/10	> 1000
			--			

Notes:

- All purging done with a bailer.
- Purged almost dry after 8 well volumes.
- 12¹⁰: One bailer-full of water removed: Turbidity was measured at 103 NTU's. (Well had settled). Water purged after that was >1000 NTU's. Will allow to settle again and re-measure.
- 6-2-92: Development was continued under Glenn May's guidance. Well was developed until <100 NTU's were reached after well was left to recharge and settle.

WELL DEVELOPER'S SIGNATURE

JMC

FIGURE 4-11
WELL DEVELOPMENT RECORD
PROGRAM QUALITY ASSURANCE PROJECT PLAN
NYSDEC CONTRACT NO. D002472

WELL DEVELOPMENT RECORD

Project: Stauffer Chemical	Well Installation Date: 5-29-92	Project No. 07060-30	
Client: NYSDEC	Well Development Date: 6-2-92	Logged by: BBJ	Checked by: CCL
Well/Site I.D.: MW-5	Weather: Clear, 70°F	Start Date: 6-2-92	Finish Date: 6-2-92
Initial Water Level (ft): No water above slots in well.		Start Time: —	Finish Time: —
Water Level during Initial Pumping/Purging (ft):			
Water Level at Termination of Pumping/Purging (ft):			

Estimated Well Volume: _____

Number of Well Volumes	TIME	TEMP.	pH	Conductivity	Approximate Pumping Rate (gal/min)	Turbidity (NTU's)
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

Notes:

Water only in the bottom 0.2' of well. This is approximately the space between the bottom slot in the screen and the bottom of the well. Consequently, no development was done; a bailer was lowered into the well, but no water could be removed.

WELL DEVELOPER'S SIGNATURE _____

JMC for BBJ

FIGURE 4-11
WELL DEVELOPMENT RECORD
PROGRAM QUALITY ASSURANCE PROJECT PLAN
NYSDEC CONTRACT NO. D002472

WELL DEVELOPMENT RECORD

Project: Stauffer Chemical	Well Installation Date: 5-28-92	Project No. 07060-30	
Client: NYSDEC	Well Development Date: 6-1-92 and 6-2-92	Logged by: BBJ	Checked by: CCL
Well/Site I.D.: MW-6	Weather: Clear	Start Date: 6-1-92	Finish Date: 6-2-92
Initial Water Level (ft): 4.43' 6-2-92		Start Time: 1723	Finish Time: 1330

Water Level during Initial Pumping/Purging (ft):

Water Level at Termination of Pumping/Purging (ft):

Estimated Well Volume: _____

	Number of Well Volumes	TIME	TEMP.	pH	Conductivity	Approximate Pumping Rate (gal/min)	Turbidity (NTU's)
6/1	1	1723	12.8	7.71	1629		>1000
	2	1729	11.5	7.70	1703		>1000
	3	1750	12.3	7.61	1726		>1000
	4	1805	12.8	7.57	1654		950
	5	1830	12.0	7.61	1671		598
6/2	7	0808	11.2	8.34	1766		—
	8	1105	12.8	7.24	1675		—
	9	1112	11.7	7.46	1572		—
	11	1140	14.8	7.50	1615		—
	12	1212	13.0	7.53	1572		—
	13	1224	13.2	7.57	1472		—
	14	1254	13.1	7.48	1488		—
	15	1305	13.2	7.51	1566		19.7
	16	1330	13.1	7.50	1490		19.7

Notes:

- Well developed using a bailer.
- The turbidity meter was not available during the purging of volumes 7-14. It appeared to be clear prior to the last two readings.
- Glenn May said this well was satisfactorily developed.

WELL DEVELOPER'S SIGNATURE

JMC for BBJ.

FIGURE 4-11
WELL DEVELOPMENT RECORD
PROGRAM QUALITY ASSURANCE PROJECT PLAN
NYSDEC CONTRACT NO. D002472

WELL DEVELOPMENT RECORD

Project: Stauffer Chemical	Well Installation Date: 5-27-92	Project No. 07060-30	
Client: NYSDEC	Well Development Date: 6-1-92 and 6-2-92	Logged by: JMC	Checked by: LLL
Well/Site I.D.: MW-7	Weather: Sunny, 70°, 10-20 mph wind	Start Date: 6-1-92	Finish Date: 6-2-92
Initial Water Level (ft): DTW= 3.5' DOW= 15.0'		Start Time: 1405	Finish Time: 0905
Water Level during Initial Pumping/Purging (ft):			
Water Level at Termination of Pumping/Purging (ft): 3.8'			

Estimated Well Volume: 1.84 gal

	Number of Well Volumes	TIME	TEMP.	pH	Conductivity	Approximate Pumping Rate (gal/min)	Turbidity (NTU's)
6/1	1	1405	11.6	6.62	3500		>1000
↓	2	1414	10.6	6.70	3580		>1000
	3	1418	11.9	7.00	3750		>1000
	4	1427	12.4	6.90	3540		>1000
	5	1437	10.8	6.60	3590		>1000
	6	1605	18.0*	7.10	3490		494
	7	1615	11.8	6.86	3560		7100
	8	1618	10.8	6.80	3520		472
	9	1621	10.6	6.60	3570		7100
	10	1625	10.3	6.68	3610		299
	11	1632	10.8	6.71	3870		177
6/2	26	0820	10.0	6.89	3860		16.3
↓	27	0835	9.8	6.94	4110		112
	28	0846	—	—	—		208
	29	0905	11.1	6.69	3960		64.3

NOTES:

- Purged using a bailer
- * Probe was hot from sun.
- Well dry after 4 volumes purged. Well was allowed to recharge enough to take fifth set of measurements.
- An attempt to pump the well was abandoned after one set of measurements (the sixth) due to slow recharge.

WELL DEVELOPER'S SIGNATURE JMC

FIGURE 4-11
WELL DEVELOPMENT RECORD
PROGRAM QUALITY ASSURANCE PROJECT PLAN
NYSDEC CONTRACT NO. D002472



APPENDIX E
ANALYTICAL DATA TABLES

E.C. Jordan Co.

To: Glenn Daukas
From: Kate Kuebler / Steve Turner
Date: August 12, 1992
Subject: Validation Stauffer Chemical Site
Project No. 07060-30
Sampling Dates: May 27 - 29, 1992

Review is complete for the data packages generated by NEI pertaining to soil boring samples collected at the Stauffer Chemical site. Review was performed following USEPA Region II guidelines. Samples were analyzed for various combinations of TCL organics, TCL inorganics, EPTOX metals, and RCRA characteristics by NYSDEC ASP methodologies. Package documentation was generally complete, with the following resubmissions requested:

1. Pages 118 through 157 for volatile analyses, Login # 12656.
2. List of the reporting limits for EPTOX metals.

Additionally, several Forms I required resubmission due to missing or incorrect flags applied to the data. The following subsections summarize the qualifications/edits and concerns that have been determined by validation.

All Organic Analyses - Qualifications/Edits

All reported compound values below the CRQL are qualified with a J on Table 1 and JJ on Table 2. These values are not reported on Table 3.

Volatile Analyses - Qualifications/Edits

1. Methylene chloride was a contaminant in most associated method blanks. Results for this compound should be considered nondetect in all samples.
2. Due to contamination in the method blank, acetone results should be considered nondetect in samples SCBS001X0892XX and SCBS004X0792XX.
3. Positive acetone results are estimated in the following samples due to a noncompliant initial calibration: SCBS003X0492XX and SCBS016X0492XX/XD
4. Chloromethane results are estimated in some samples due to a noncompliant continuing calibration.

Volatile Analyses - Comments

Please see items 1 - 4 under **Qualifications/Edits**. All volatile analyses were performed within hold times. All surrogate recoveries and internal standard areas were acceptable. Two sets of soil matrix spikes and two matrix spike blanks were performed. All matrix spike and matrix spike duplicate recoveries and all RPDs were within recommended limits. Method blank and

instrumental tune criteria were met. Initial and continuing calibration standards that did not meet criteria are discussed under **Qualifications/Edits**. Precision criteria were met for all sets of field duplicates.

Semivolatile Analyses - Qualifications/Edits

5. Bis(2-ethylhexyl)phthalate was a contaminant in most associated method blanks. Results for this compound in all samples should be considered nondetect **except** in samples SCBS017X0292XX and SCBS004X0792XX. In these two samples, the result is estimated due to a noncompliant continuing calibration.
6. Continuing calibration criteria were not met for 2-methylphenol, 4-methylphenol, and pyrene. Results for these compounds are estimated in the following samples: SCBS002X0292XX, SCBS002X0492XX, SCBS005X0292XX, SCBS008X1092XX, SCBS008X1092XD, SCBS009X0492XX, and SCBS11X1092XX.
7. Results for the following compounds are estimated in samples SCBS008X1092XX and SCBS008X1092XD because field duplicate precision criteria were not met: phenanthrene, fluoranthene, pyrene, benzo(a)anthracene and chrysene.
8. Base/neutral surrogate recoveries were noncompliant in the analysis of sample SCBS013X0692XX and its dilution. All positive results in the base/neutral fraction for both analyses are estimated.
9. Internal standard area for chrysene-d12 was noncompliant for the analysis of SCBS013X0692XX. Results of all compounds quantitated by this internal standard are estimated.
10. The specified hold time was exceeded for the extraction of samples SCBS017X0292XX and SCBS017X0292XD. All results for these samples are estimated.

Semivolatile Analyses - Comments

Please see items 5 through 10 under **Qualifications/Edits**. All hold times were met except as noted earlier. Instrument tune, initial calibration, and method blank criteria were met for all sample analyses. Surrogate spike was below the required recovery only for the analyses discussed above. Two sets of matrix spikes were performed. All but two matrix spike and matrix spike duplicate recoveries were within recommended limits for one set of MS/MSD. The second MS/MSD set had 9 of 22 recoveries outside of the QC limits. Due to high concentrations of target compounds, the matrix spike was run at a 1:4 dilution and the matrix spike duplicate was run at a 1:2 dilution. These dilutions probably account for the poor recovery and high incidence of RPDs that were noncompliant. No qualification is necessary. All matrix spike blanks had recoveries within the required limits. Precision criteria were met for all sets of field duplicates.

Pesticide/PCB Analyses - Qualifications/Edits

11. Beta BHC and Endrin results in samples SCBS008X1092XX/XD and DDE results in samples SCBS017X0292XX/XD are estimated because field duplicate precision criteria

were not met.

12. TCX recovery during the analysis of SCBS014X0792XX was less than 10%. All positive results are estimated and all nondetects are rejected.

Pesticide/PCB Analyses - Comments

Please see items 11 - 12 under **Qualifications/Edits**. All samples were extracted and analyzed within hold time and all surrogate recoveries were within criteria except as noted previously. Two sets of matrix spikes were performed. All matrix spike and matrix spike duplicate recoveries were within criteria for both sets. All but four RPDs were within required limits. All matrix spike blanks had recoveries within the required limits. All standard sequencing, retention time, linearity, and breakdown criteria were met. All method blanks were compliant. Chromatograms of samples with positive hits contained evidence of interference, which accounts for the >25% difference in quantitation values. These values are flagged with a P on Table 1 and are flagged J, estimated, on Tables 2 and 3.

Inorganic Analyses - Qualifications/Edits

13. Hold time was exceeded for the cyanide analysis. Results are estimated for the following samples: SCBS010X0492XX, SCBS012X0692XX, SCBS014X0492XX, SCBS014X0292XX, SCBS015X0892XX, SCBS013X0692XX.

14. Sample spike recovery was noncompliant for four analytes. The analytes and sample results needing qualification are listed below for the following samples: SCBS010X0492XX, SCBS012X0692XX, SCBS014X0492XX, SCBS014X0292XX, SCBS015X0892XX, and SCBS013X0692XX.

Copper	J(+)	UJ(nd)
Antimony	J(+)	UJ(nd)
Arsenic	J(+)	UJ(nd)
Cadmium	J(+)	R (nd)

15. Serial dilution criteria were not met for several analytes. Positive sample results were qualified only if they were greater than 10X the IDL. The following compounds may be qualified in the samples listed above: aluminum, barium, cadmium, calcium, chromium, copper, iron, magnesium, manganese, vanadium, and zinc.

16. CRI standards for lead, chromium, and cadmium were noncompliant. All cadmium results and all positive lead and chromium results are estimated in the samples in SDG 641.

17. Sample spike recovery was noncompliant for several analytes. The analytes and sample results needing qualification are listed below. These apply to all soil samples in SDG 641.

Chromium	J(+)	Silver	J(+)
Zinc	J(+)	Mercury	J(+)
Nickel	J(+)	Lead	J(+)
Selenium	J(+)		UJ(nd)

18. Lab duplicate precision was not met for chromium, antimony, and lead. Results for these analytes are estimated for all soil samples in SDG 641.
19. Field duplicate precision was not met for chromium, copper, and mercury. All samples in SDG 641 are affected.
20. Serial dilution criteria were not met for several analytes. Positive sample results were qualified only if they were greater than 10X the IDL. The following compounds may be qualified in the samples in SDG 641: calcium, chromium, vanadium, barium, copper, manganese and sodium.

Inorganic Analyses - Comments

Please see items 13 - 20 under **Qualifications/Edits**. All appropriate QC criteria were reviewed and found acceptable unless noted under **Qualifications/Edits**.

EPTOX Analyses - Qualifications/Edits

21. CRI standard recoveries did not meet criteria. Positive and nondetect results for cadmium and chromium are estimated for the following samples: SCBS010X0492XX, SCBS012X0692XX, SCBS013X0692XX, SCBS014X0492XX, SCBS014X0792XX, SCBS015X0692XX, and SCBS015X0892XX.
22. Spike sample recovery was noncompliant for silver. Positive and nondetect results are estimated in all soil samples in SDG 641.
23. Cadmium and chromium results are estimated due to noncompliant field duplicate precision.

EPTOX Analyses - Comments

Please see items 21 - 23 under **Qualifications/Edits**. All appropriate QC criteria were reviewed and found acceptable unless noted under **Qualifications/Edits**.

RCRA Analyses - Qualifications/Edits

There are no qualifications or edits to these data.

RCRA Analyses - Comments

Data were reviewed for hold time, duplicate precision, spike sample recovery and method blank contamination. All QC results were compliant.

To: Glenn Daukas
From: Kate Kuebler / Steve Turner
Date: August 24, 1992
Subject: Validation Stauffer Chemical Site
Project No. 07060-30
Sampling Dates: May 29 - 30, 1992

Review is complete for the data packages generated by NEI pertaining to sediment, surface waters and monitoring well samples collected at the Stauffer Chemical site. Review was performed following USEPA Region II guidelines. Samples were analyzed for various combinations of TCL organics, TCL inorganics, EPTOX metals, and RCRA characteristics by NYSDEC ASP methodologies. Package documentation was generally complete, with the following resubmission requested:

1. Inorganic Form I for sample SCMW004XXX92XX was missing qualifiers.

The following subsections summarize the qualifications/edits and concerns that have been determined by validation.

All Organic Analyses - Qualifications/Edits

All reported compound results below the CRQL are qualified with a J on Table 1 and JJ on Table 2. They are not reported on Table 3.

Volatile Analyses - Qualifications/Edits

1. All sample results for SCSD003XXX92XX are rejected due to percent moisture greater than 90%.
2. All sample results are estimated for the following samples due to percent moisture greater than 50%: SCSD001XXX92XD, SCSD001XXX92XX, SCSD002XXX92XX, and SCSD004XXX92XX.
3. Methylene chloride and acetone were contaminants in all associated method blanks. Results for these compounds should be considered nondetect in all samples except in samples SCSD002XXX92XX and SCSD002XXX92XXD.
4. 2-Butanone should be considered nondetect in sample SCSW001XXX92XD due to method blank contamination.
5. Chloroethane results are rejected in all sediment samples due to a noncompliant response factor in the continuing calibration.
6. Chloroform results are estimated in sample SCSW002XXX92XX due to a noncompliant %D in the continuing calibration.

Volatile Analyses - Comments

Please see items 1 - 6 under **Qualifications/Edits**. All volatile analyses were performed within hold times. All surrogate recoveries and internal standard areas were acceptable. One set of soil and two sets of water matrix spike/matrix spike duplicate were performed. Toluene results were out high for the soil MS/MSD and trichloroethene results were out high for one of the water MS/MSD. No qualification was necessary. Two water and one soil matrix spike blanks were analyzed. All MSB recoveries were within recommended limits. Method blank and instrumental tune criteria were met. Initial and continuing calibration standards that did not meet criteria are discussed under **Qualifications/Edits**. Precision criteria were met for all sets of field duplicates except the toluene results for the sediment duplicates. The sample with the lower value was used for the MS/MSD analyses that resulted in high recovery (487% and 329%). This suggests that the higher result shown in the sample duplicate is probably more accurate. No qualification was necessary.

Semivolatile Analyses - Qualifications/Edits

7. Percent moisture was greater than 90% in sample SCSD003XXX92XX. All results are rejected. Percent moisture was greater than 50% in the following samples, so all results are considered estimated: SCSD001XXX92XD, SCSD001XXX92XX, SCSD002XXX92XX, and SCSD004XXX92XX.
8. Bis(2-ethylhexyl)phthalate was a contaminant in the associated method blanks for all soils and waters. Results for this compound in all samples should be considered nondetect.
9. Re-extraction of sample SCMW003XXX92XX was performed outside of hold time. ~~No qualification is necessary because sample results were previously qualified. (See item 7.)~~
Results J'd.
10. Base/neutral and acid surrogate recoveries were noncompliant and less than 10% in the analysis of sample SCMW003XXX92XX. The reanalysis of this sample had compliant surrogate recoveries and these results should be used.
11. Several continuing calibration standards had %Ds that were noncompliant which resulted in nondetect results in water samples being estimated(UJ). Only one noncompliant standard resulted in the qualifying of positive results: diethylphthalate in samples SCSW001XXX92XX and SCSW002XXX92XX.
12. Two continuing calibration standards had noncompliant response factors which resulted in the rejection of nondetect results for a few water samples. The standards were 2,4-dinitrophenol and 4,6-dinitro-2-methylphenol.
13. Internal standard areas were noncompliant for samples SCSD002XXX92XX, SCSD002XXX92XXRE and SCSD003XXX92XX. No qualification was performed for these noncompliances since all sample results had already been qualified for percent moisture criteria.

Semivolatile Analyses - Comments

Please see items 7 through 13 under **Qualifications/Edits**. All hold times were met except as noted earlier. Instrument tune, and method blank criteria were met for all sample analyses. One initial calibration had noncompliant RSDs but no qualification was necessary. All surrogate spike recoveries were compliant except in the analysis discussed above. Two water and one soil matrix spike/matrix spike duplicate analyses were performed. All but four matrix spike and matrix spike duplicate recoveries were within recommended limits for the water MS/MSD. Seven RPDs were higher than QC limits for one water MS/MSD. No qualification is necessary. Two recoveries and one RPD were outside QC limits for the soil MS/MSD. No qualification was necessary. All matrix spike blank recoveries were compliant for the two water MSBs and 5 of 11 recoveries were compliant for the soil MSB. The noncompliant recoveries were out high. No qualification is necessary. All sample results for both the water and the soil field duplicates were below the CRQL and not calculated.

Pesticide/PCB Analyses - Qualifications/Edits

14. All results for sample SCSD003XXX92XX are rejected because percent moisture was greater than 90 %.
15. All results for the following samples are estimated because percent moisture was greater than 50 %: SCSD001XXX92XD, SCSD001XXX92XX, SCSD002XXX92XX, and SCSD004XXX92XX.
16. Holdtime was grossly exceeded for the extraction of sample SCSD003XXX92XX. No qualification was necessary because sample results were already rejected due to percent moisture criteria.
17. TCX recovery was 0% for samples SCMW002XXX92XX and SCMW002XXX92XD. All nondetect results are rejected for both samples.
18. Both surrogate recoveries were low for the following samples so all results are estimated: SCMW003XXX92XX, SCSW001XXX92XX, SCSW002XXX92XX, and SCSW003XXX92XX.
19. All sample results with greater than 25 % difference between column quantitations are qualified with a P on Table 1. These results are estimated (J) on Table 2 and Table 3 for sample SCSD0005XXX92XX. All other samples with P qualifiers are qualified for other QC problems.

Pesticide/PCB Analyses - Comments

Please see items 14 - 19 under **Qualifications/Edits**. All samples were extracted and analyzed within hold time and all surrogate recoveries were within criteria except as noted above. Two sets of water and one set of soil matrix spikes were performed. All soil matrix spike and matrix spike duplicate recoveries and RPDs were within criteria. One set of water matrix spike recoveries was out low and all RPDs for both sets exceeded QC criteria. No qualification is necessary. All matrix spike blank recoveries for both water MSBs and the soil MSB were compliant. All standard sequencing, retention time, linearity, and breakdown criteria were met. All method blanks were compliant. Chromatograms of samples with positive hits contained evidence of interference, which accounts for the > 25 % difference in quantitation values. Field

duplicate precision was met for all results except DDD in the sediment duplicates. These results are already qualified for other noncompliances.

Inorganic Analyses - Qualifications/Edits

20. Continuing calibration recovery for potassium was greater than 125%. All results are rejected.
21. CRI recovery for cadmium and silver were noncompliant. All cadmium results are estimated and all positive silver results are estimated.
22. Sample spike recovery was noncompliant for nine analytes. The analytes and sample results needing qualification are listed below.

Mercury	J(+)		all water samples
Copper	R(+)		all water samples
Manganese	R(+)		all water samples
Arsenic	J(+)	UJ(nd)	all water samples
Selenium	R(+)	R (nd)	all water samples
Chromium	J(+)	UJ(nd)	all water samples
Lead	J(+)	UJ(nd)	all water samples
Silver	J(+)	UJ(nd)	all water samples
Thallium	J(+)	UJ(nd)	all water samples

23. Lab duplicate precision was noncompliant for several analytes. All results are qualified as estimated for the following compounds unless they were qualified previously: Al, Sb, Ca, Cu, Fe, Pb, Mg, Mn, Ni, Zn, Ar, Cr, K. and V.
24. Field duplicate precision was not met for the following analytes in samples SCMW002XXX92XX/XD: Ar, Ca, Cr, Cu, Pb, Mn, Hg, V, and Zn. All results in these samples for the above analytes are estimated.
25. ICP serial dilution criteria were not met for zinc and potassium. Positive sample results were qualified only if they were greater than 10X the IDL.

Inorganic Analyses - Comments

Please see items 20 - 25 under **Qualifications/Edits**. All appropriate QC criteria were reviewed and found acceptable unless noted under **Qualifications/Edits**.

EPTOX Analyses - Qualifications/Edits

26. CRI standard recoveries did not meet criteria for cadmium and silver.. Positive silver results and all cadmium results are estimated.
27. Spike sample recovery was noncompliant for mercury, chromium, lead and selenium. Positive mercury results and all chromium, lead, and selenium results are estimated.

EPTOX Analyses - Comments

Please see items 26 - 27 under **Qualifications/Edits**. All appropriate QC criteria were reviewed and found acceptable unless noted under **Qualifications/Edits**.

RCRA Analyses - Qualifications/Edits

There are no qualifications or edits to these data.

RCRA Analyses - Comments

Data were reviewed for hold time, duplicate precision, spike sample recovery and method blank contamination. All QC results were compliant.

Definition of Data Qualifiers

Organic Data Qualifiers

- J - Indicates an estimated concentration because results are either below the contract required detection level (CRQL) or quality control criteria were not met.
- JJ - Validation qualifier for concentrations below the CRQL.
- U - Indicates that compound was analyzed but not detected.
- UJ - Indicates that quantitation level was estimated because QC criteria were not met.
- B - Indicates analyte was detected in both the sample and the associated laboratory method blank.
- E - Indicates that the analyte concentration exceeded the calibration range of the GC/MS and that a re-analysis of a diluted sample is required.
- D - Indicates that sample concentration was obtained by dilution to bring result within calibration range.
- R - Indicates that data is unusable because QC criteria were not met.
- N - Indicates presumptive evidence of a compound. This flag is used for TICs where the identification is based on a library search and is applied to all TIC results. For general classes of compounds (hydrocarbons, etc.) this flag is not used.
- P - This flag is used for pesticides/PCBs when there is greater than 25% difference between the concentrations on the two columns used for analysis.
- C - This flag applies to pesticide/PCBs results when the identification has been confirmed by GC/MS.
- A - Indicates that a TIC is a suspected aldol-condensation product.
- X - Laboratory-defined qualifier used to provide additional information not covered by the other qualifiers.

Inorganic Data Qualifiers

- E - The reported concentration is estimated because of the presence of an interference.
- J - Indicates an estimated concentration because QC criteria were not met.

- R - Indicates that data is unusable because QC criteria were not met.
- M - Duplicate injection precision criteria were not met.
- N - Spiked sample recovery not within control limits.
- s - The reported concentration was determined by the method of standard additions.
- W - Postdigestion spike for furnace atomic adsorption analysis is outside control limits.
- - Concentration reported is below CRQL.
- * - Duplicate analysis not within control limits.
- + - Correlation coefficient for the method of standard additions was less than 0.995

Other Notations

- NR - Analysis not requested.
- NA - Analysis requested but not performed.
- - Compound analyzed but is less than the CRQL.

APPENDIX E

APPENDIX E-1

SOIL

E.C. Jordan Co.

Table 1
Laboratory Report of Analysis

SAMPLE LOCATION: SCBS001X0492XX		SCBS001X0892XX	SCBS002X0292XX	SCBS002X0492XX	SCBS003X0492XX	SCBS004X0792XX	SCBS005X0292XX	SCBS008X1092XX
LAB NUMBER:	1269709 #	1269709 #	1269702 #	1269703 #	1269713 #	1269707 #	1267001 #	1267004 #
DATE SAMPLED:	05/29/92	05/29/92	05/28/92	05/28/92	05/29/92	05/29/92	05/28/92	05/28/92
DATE ANALYZED:	06/05/92	06/05/92	06/05/92	06/05/92	06/06/92	06/05/92	06/05/92	06/05/92
ANALYTE	SON-03/90 - II CRQL							
Chloromethane	10	12 U	12 U	12 U	13 U	12 U	11 U	13 U
Bromomethane	10	12 U	12 U	12 U	13 U	12 U	11 U	13 U
Vinyl Chloride	10	12 U	12 U	12 U	13 U	12 U	11 U	13 U
Chloroethane	10	12 U	12 U	12 U	13 U	12 U	11 U	13 U
Methylene Chloride	10	3 BJ	3 BJ	5 BJ	4 BJ	26 B	15 B	3 BJ
Acetone	10	12 U	17 B	12 U	13 U	17 U	11 U	14
Carbon Disulfide	10	12 U	12 U	12 U	13 U	12 U	11 U	13 U
1,1-Dichloroethene	10	12 U	12 U	12 U	13 U	12 U	11 U	13 U
1,1-Dichloroethane	10	12 U	12 U	12 U	13 U	12 U	11 U	13 U
1,2-Dichloroethene (total)	10	12 U	12 U	12 U	13 U	12 U	11 U	13 U
Chloroform	10	12 U	12 U	12 U	13 U	12 U	11 U	13 U
1,2-Dichloroethane	10	12 U	12 U	12 U	13 U	12 U	11 U	13 U
2-Butanone	10	12 U	12 U	12 U	13 U	12 U	11 U	13 U
1,1,1-Trichloroethane	10	12 U	12 U	12 U	13 U	12 U	11 U	13 U
Carbon Tetrachloride	10	12 U	12 U	12 U	13 U	12 U	11 U	13 U
Bromodichloromethane	10	12 U	12 U	12 U	13 U	12 U	11 U	13 U
1,2-Dichloropropane	10	12 U	12 U	12 U	13 U	12 U	11 U	13 U
cis-1,3-Dichloropropene	10	12 U	12 U	12 U	13 U	12 U	11 U	13 U
Trichloroethene	10	12 U	12 U	12 U	13 U	12 U	11 U	13 U
Dibromochloromethane	10	12 U	12 U	12 U	13 U	12 U	11 U	13 U
1,1,2-Trichloroethane	10	12 U	12 U	12 U	13 U	12 U	11 U	13 U
Benzene	10	12 U	5 J	12 U	13 U	12 U	11 U	13 U
trans-1,3-Dichloropropene	10	12 U	12 U	12 U	13 U	12 U	11 U	13 U
Bromoform	10	12 U	12 U	12 U	13 U	12 U	11 U	13 U
4-Methyl-2-Pentanone	10	12 U	12 U	12 U	13 U	12 U	11 U	13 U
2-Hexanone	10	12 U	12 U	12 U	13 U	12 U	11 U	13 U
Tetrachloroethene	10	2 J	12 U	12 U	13 U	12 U	11 U	13 U
1,1,2,2-Tetrachloroethane	10	12 U	12 U	12 U	13 U	12 U	11 U	13 U
Toluene	10	12 U	12 U	12 U	13 U	12 U	11 U	13 U
Chlorobenzene	10	12 U	12 U	12 U	13 U	12 U	11 U	13 U
Ethylbenzene	10	12 U	12 U	12 U	13 U	12 U	11 U	13 U
Styrene	10	12 U	12 U	12 U	13 U	12 U	11 U	13 U
Total Xylenes	10	12 U	12 U	12 U	13 U	12 U	11 U	13 U

Associated Method Blank:
Associated Equipment Blank:
Associated Field Blank:
Associated Trip Blank:

Site: STAUFFER CHEMICAL
#: Level IV Validation

Table 1
Laboratory Report of Analysis

ANALYTE	SOW-03/90 - II CROL	SCBS008X1092XX LAB NUMBER: 1267005 # DATE SAMPLED: 05/28/92 DATE ANALYZED: 06/05/92	SCBS009X0492XX 1267007 # 05/28/92 06/05/92	SCBS010X0492XX 1265604 # 05/27/92 06/01/92	SCBS011X1092XX 1267006 # 05/28/92 06/05/92	SCBS012X0692XX 1265605 # 05/27/92 06/04/92	SCBS013X0692XX 1265601 # 05/27/92 06/01/92	SCBS014X0492XX 1265606 # 05/27/92 06/04/92	SCBS014X0792XX 1265607 # 05/27/92 06/04/92
Chloromethane	10	14 U	13 U	12 U	11 U	13 U	13 U	14 U	13 U
Bromomethane	10	14 U	13 U	12 U	11 U	13 U	13 U	14 U	13 U
Vinyl Chloride	10	14 U	13 U	12 U	11 U	13 U	13 U	14 U	13 U
Chloroethane	10	14 U	13 U	12 U	11 U	13 U	13 U	14 U	13 U
Methylene Chloride	10	3 BJ	2 BJ	10 BJ	1 BJ	13 U	25 B	6 J	2 J
Acetone	10	16	11 J	15	10 J	13 U	24	38	13 U
Carbon Disulfide	10	14 U	13 U	2 J	11 U	13 U	13 U	14 U	13 U
1,1-Dichloroethene	10	14 U	13 U	12 U	11 U	13 U	13 U	14 U	13 U
1,1-Dichloroethane	10	14 U	13 U	12 U	11 U	13 U	13 U	14 U	13 U
1,2-Dichloroethene (total)	10	14 U	2 J	12 U	11 U	13 U	13 U	14 U	13 U
Chloroform	10	14 U	13 U	12 U	11 U	13 U	13 U	14 U	13 U
1,2-Dichloroethane	10	14 U	13 U	12 U	11 U	13 U	13 U	14 U	13 U
2-Butanone	10	14 U	13 U	12 U	11 U	13 U	13 U	14 U	13 U
1,1,1-Trichloroethane	10	14 U	13 U	12 U	11 U	13 U	13 U	14 U	13 U
Carbon Tetrachloride	10	14 U	13 U	12 U	11 U	3 J	13 U	14 U	13 U
Bromodichloromethane	10	14 U	13 U	12 U	11 U	13 U	13 U	14 U	13 U
1,2-Dichloropropane	10	14 U	13 U	12 U	11 U	13 U	13 U	14 U	13 U
cis-1,3-Dichloropropene	10	14 U	13 U	12 U	11 U	13 U	13 U	14 U	13 U
Trichloroethene	10	14 U	18	12 U	11 U	13 U	13 U	14 U	13 U
Dibromochloromethane	10	14 U	13 U	12 U	11 U	13 U	13 U	14 U	13 U
1,1,2-Trichloroethane	10	14 U	13 U	12 U	11 U	13 U	13 U	14 U	13 U
Benzene	10	14 U	13 U	12 U	11 U	13 U	13 U	14 U	13 U
trans-1,3-Dichloropropene	10	14 U	13 U	12 U	11 U	13 U	13 U	14 U	13 U
Bromoform	10	14 U	13 U	12 U	11 U	13 U	13 U	14 U	13 U
4-Methyl-2-Pentanone	10	14 U	13 U	12 U	11 U	13 U	13 U	14 U	13 U
2-Hexanone	10	14 U	13 U	12 U	11 U	13 U	13 U	14 U	13 U
Tetrachloroethene	10	14 U	30	7 J	11 U	1 J	13 U	14 U	13 U
1,1,2,2-Tetrachloroethane	10	14 U	13 U	12 U	11 U	13 U	13 U	14 U	13 U
Toluene	10	14 U	13 U	12 U	11 U	13 U	13 U	14 U	13 U
Chlorobenzene	10	14 U	13 U	12 U	11 U	13 U	13 U	14 U	13 U
Ethylbenzene	10	14 U	13 U	12 U	11 U	13 U	13 U	14 U	13 U
Styrene	10	14 U	13 U	12 U	11 U	13 U	13 U	14 U	13 U
Total Xylenes	10	14 U	13 U	12 U	11 U	13 U	13 U	14 U	13 U

Dilution Factor:
Percent Solids:

1.00 71
1.00 84
1.00 76
1.00 88
1.00 77
1.00 74
1.00 79

Associated Method Blank:
Associated Equipment Blank:
Associated Field Blank:
Associated Trip Blank:

D0167
SCQS001XXX92SB
D0167
SCQS001XXX92SB
D0078
SCQS001XXX92SB
D0153
SCQS001XXX92SB
D0153
SCQS001XXX92SB
D0078
SCQS001XXX92SB
D0153
SCQS001XXX92SB

Site: STAUFFER CHEMICAL
#: Level IV Validation

Table 1
Laboratory Report of Analysis

SAMPLE LOCATION: SCBS015X0692XX SCBS015X0892XX SCBS016X0492XX SCBS017X0292XD SCBS017X0292XX SCBS018X0392XX
 LAB NUMBER: 1265602 # 1265603 # 1269702 # 1269701 # 1269705 # 1269708 #
 DATE SAMPLED: 05/27/92 05/27/92 05/29/92 05/29/92 05/29/92 05/29/92
 DATE ANALYZED: 06/01/92 06/01/92 06/06/92 06/06/92 06/05/92 06/05/92

ANALYTE	SOM-03/90 - 11 CRQL	13	U	13	U	15	U	14	U	12	U	11	U	13	U
Chloromethane	10	13	U	13	U	15	U	14	U	12	U	11	U	13	U
Bromomethane	10	13	U	13	U	15	U	14	U	12	U	11	U	13	U
Vinyl Chloride	10	13	U	13	U	15	U	14	U	12	U	11	U	13	U
Chloroethane	10	13	U	13	U	15	U	14	U	12	U	11	U	13	U
Methylene Chloride	10	6 BJ		7 BJ		9 BJ		8 BJ		4 BJ		2 BJ		3 BJ	
Acetone	28	16		13		120		120		12		11		13	
Carbon Disulfide	10	13	U	13	U	15	U	14	U	12	U	11	U	13	U
1,1-Dichloroethene	10	13	U	13	U	15	U	14	U	12	U	11	U	13	U
1,1-Dichloroethane	10	13	U	13	U	15	U	14	U	12	U	11	U	13	U
1,2-Dichloroethene (total)	10	13	U	13	U	15	U	14	U	12	U	11	U	13	U
Chloroform	10	13	U	13	U	15	U	14	U	12	U	11	U	13	U
1,2-Dichloroethane	10	13	U	13	U	15	U	14	U	12	U	11	U	13	U
2-Butanone	10	13	U	13	U	15	U	14	U	12	U	11	U	13	U
1,1,1-Trichloroethane	10	13	U	13	U	15	U	14	U	12	U	11	U	13	U
Carbon Tetrachloride	10	13	U	13	U	15	U	14	U	12	U	11	U	13	U
Bromodichloromethane	10	13	U	13	U	15	U	14	U	12	U	11	U	13	U
1,2-Dichloropropane	10	13	U	13	U	15	U	14	U	12	U	11	U	13	U
cis-1,3-Dichloropropene	10	13	U	13	U	15	U	14	U	12	U	11	U	13	U
Trichloroethene	10	13	U	13	U	15	U	14	U	12	U	11	U	13	U
Dibromochloromethane	10	13	U	13	U	15	U	14	U	12	U	11	U	13	U
1,1,2-Trichloroethane	10	13	U	13	U	15	U	14	U	12	U	11	U	13	U
Benzene	10	13	U	13	U	15	U	14	U	12	U	11	U	13	U
trans-1,3-Dichloropropene	10	13	U	13	U	15	U	14	U	12	U	11	U	13	U
Bromoform	10	13	U	13	U	15	U	14	U	12	U	11	U	13	U
4-Methyl-2-Pentanone	10	13	U	13	U	15	U	14	U	12	U	11	U	13	U
2-Hexanone	10	13	U	13	U	15	U	14	U	12	U	11	U	13	U
Tetrachloroethene	10	13	U	13	U	15	U	14	U	12	U	11	U	13	U
1,1,2,2-Tetrachloroethane	10	13	U	13	U	15	U	14	U	12	U	11	U	13	U
Toluene	10	13	U	13	U	15	U	14	U	12	U	11	U	13	U
Chlorobenzene	10	13	U	13	U	15	U	14	U	12	U	11	U	13	U
Ethylbenzene	10	13	U	13	U	15	U	14	U	12	U	11	U	13	U
Styrene	10	13	U	13	U	15	U	14	U	12	U	11	U	13	U
Total Xylenes	10	13	U	13	U	15	U	14	U	12	U	11	U	13	U

Dilution Factor: 1.00 79 1.00 77 1.00 67 1.00 71 1.00 85 1.00 88 1.00 79

Associated Method Blank: D0078 SCQS001XXX92SB SCQS001XXX92SB SCQS001XXX92SB SCQS001XXX92SB SCQS001XXX92SB SCQS001XXX92SB
 Associated Equipment Blank: SCQS001XXX92SB SCQS001XXX92SB SCQS001XXX92SB SCQS001XXX92SB SCQS001XXX92SB SCQS001XXX92SB
 Associated Field Blank: - - - - - -
 Associated Trip Blank: - - - - - -

Site: STAUFFER CHEMICAL
 #: Level IV Validation

Table 2
Validation / Summary Table

SAMPLE LOCATION: SCBS001X0492XX		SCBS001X0892XX		SCBS002X0292XX		SCBS002X0492XX		SCBS003X0492XX		SCBS004X0792XX		SCBS005X0292XX		SCBS008X1092XD			
LAB NUMBER: 1269710 #		LAB NUMBER: 1269709 #		LAB NUMBER: 1267002 #		LAB NUMBER: 1267003 #		LAB NUMBER: 1267002 #		LAB NUMBER: 1269713 #		LAB NUMBER: 1267001 #		LAB NUMBER: 1267004 #			
DATE SAMPLED: 05/29/92		DATE SAMPLED: 05/29/92		DATE SAMPLED: 05/28/92		DATE SAMPLED: 05/28/92		DATE SAMPLED: 05/28/92		DATE SAMPLED: 05/29/92		DATE SAMPLED: 05/28/92		DATE SAMPLED: 05/28/92			
DATE ANALYZED: 06/05/92		DATE ANALYZED: 06/05/92		DATE ANALYZED: 06/05/92		DATE ANALYZED: 06/05/92		DATE ANALYZED: 06/05/92		DATE ANALYZED: 06/05/92		DATE ANALYZED: 06/05/92		DATE ANALYZED: 06/05/92			
ANALYTE		SOW-03/90 - 11 CRQL															
Chloromethane	10	12	UJ	12	U	12	U	13	U	12	U	11	UJ	11	U	13	U
Bromomethane	10	12	U	12	U	12	U	13	U	12	U	11	U	11	U	13	U
Vinyl Chloride	10	12	U	12	U	12	U	13	U	12	U	11	U	11	U	13	U
Chloroethane	10	12	U	12	U	12	U	13	U	12	U	11	U	11	U	13	U
Methylene Chloride	10	12	U	12	U	12	U	13	U	26	U	11	U	15	U	13	U
Acetone	10	12	U	17	U	12	U	13	U	17	J	11	U	11	U	14	U
Carbon Disulfide	10	12	U	12	U	12	U	13	U	12	U	11	U	11	U	13	U
1,1-Dichloroethene	10	12	U	12	U	12	U	13	U	12	U	11	U	11	U	13	U
1,1-Dichloroethane	10	12	U	12	U	12	U	13	U	12	U	11	U	11	U	13	U
1,2-Dichloroethene (total)	10	12	U	12	U	12	U	13	U	12	U	11	U	11	U	13	U
Chloroform	10	12	U	12	U	12	U	13	U	12	U	11	U	11	U	13	U
1,2-Dichloroethane	10	12	U	12	U	12	U	13	U	12	U	11	U	11	U	13	U
2-Butanone	10	12	U	12	U	12	U	13	U	12	U	11	U	11	U	13	U
1,1,1-Trichloroethane	10	12	U	12	U	12	U	13	U	12	U	11	U	11	U	13	U
Carbon Tetrachloride	10	12	U	12	U	12	U	13	U	12	U	11	U	11	U	13	U
Bromodichloromethane	10	12	U	12	U	12	U	13	U	12	U	11	U	11	U	13	U
1,2-Dichloropropane	10	12	U	12	U	12	U	13	U	12	U	11	U	11	U	13	U
cis-1,3-Dichloropropene	10	12	U	12	U	12	U	13	U	12	U	11	U	11	U	13	U
Trichloroethene	10	12	U	12	U	12	U	13	U	12	U	11	U	11	U	13	U
Dibromochloromethane	10	12	U	12	U	12	U	13	U	12	U	11	U	11	U	13	U
1,1,2-Trichloroethane	10	12	U	12	U	12	U	13	U	12	U	11	U	11	U	13	U
Benzene	10	12	U	5	JJ	12	U	13	U	12	U	11	U	11	U	13	U
trans-1,3-Dichloropropene	10	12	U	12	U	12	U	13	U	12	U	11	U	11	U	13	U
Bromoform	10	12	U	12	U	12	U	13	U	12	U	11	U	11	U	13	U
4-Methyl-2-Pentanone	10	12	U	12	U	12	U	13	U	12	U	11	U	11	U	13	U
2-Hexanone	10	12	U	12	U	12	U	13	U	12	U	11	U	11	U	13	U
Tetrachloroethene	10	2	JJ	12	U	12	U	13	U	12	U	11	U	11	U	13	U
1,1,2,2-Tetrachloroethane	10	12	U	12	U	12	U	13	U	12	U	11	U	11	U	13	U
Toluene	10	12	U	12	U	12	U	13	U	12	U	11	U	11	U	13	U
Chlorobenzene	10	12	U	12	U	12	U	13	U	12	U	11	U	11	U	13	U
Ethylbenzene	10	12	U	12	U	12	U	13	U	12	U	11	U	11	U	13	U
Styrene	10	12	U	12	U	12	U	13	U	12	U	11	U	11	U	13	U
Total Xylenes	10	12	U	12	U	12	U	13	U	12	U	11	U	11	U	13	U
Dilution Factor:		1.00	82	1.00	82	1.00	84	1.00	78	1.00	83	1.00	88	1.00	88	1.00	78
Percent Solids:																	
Associated Method Blank:		D0177	SCQS001XXX92SB	D0177	SCQS001XXX92SB	D0167	SCQS001XXX92SB	D0167	SCQS001XXX92SB	D0191	SCQS001XXX92SB	D0177	SCQS001XXX92SB	D0167	SCQS001XXX92SB	D0167	SCQS001XXX92SB
Associated Equipment Blank:																	
Associated Field Blank:																	
Associated Trip Blank:																	
Site: STAUFFER CHEMICAL																	
#: Level IV Validation																	

Table 2
Validation / Summary Table

SOW-03/90 - II CRQL									
ANALYTE	SCBS008X1092XX LAB NUMBER: DATE SAMPLED: DATE ANALYZED:	SCBS009X0492XX LAB NUMBER: DATE SAMPLED: DATE ANALYZED:	SCBS010X0492XX LAB NUMBER: DATE SAMPLED: DATE ANALYZED:	SCBS011X1092XX LAB NUMBER: DATE SAMPLED: DATE ANALYZED:	SCBS012X0692XX LAB NUMBER: DATE SAMPLED: DATE ANALYZED:	SCBS013X0692XX LAB NUMBER: DATE SAMPLED: DATE ANALYZED:	SCBS014X0492XX LAB NUMBER: DATE SAMPLED: DATE ANALYZED:	SCBS014X0792XX LAB NUMBER: DATE SAMPLED: DATE ANALYZED:	
Chloromethane	14 U	13 U	12 U	11 U	13 U	13 U	14 U	13 U	U
Bromomethane	14 U	13 U	12 U	11 U	13 U	13 U	14 U	13 U	U
Vinyl Chloride	14 U	13 U	12 U	11 U	13 U	13 U	14 U	13 U	U
Chloroethane	14 U	13 U	12 U	11 U	13 U	13 U	14 U	13 U	U
Methylene Chloride	14 U	13 U	12 U	11 U	13 U	13 U	14 U	13 U	U
Acetone	16 U	11 JJ	15 U	10 JJ	13 U	24 U	38 JJ	13 JJ	U
Carbon Disulfide	14 U	13 U	2 JJ	11 U	13 U	13 U	14 U	13 U	U
1,1-Dichloroethane	14 U	13 U	12 U	11 U	13 U	13 U	14 U	13 U	U
1,1-Dichloroethane	14 U	13 U	12 U	11 U	13 U	13 U	14 U	13 U	U
1,2-Dichloroethane (total)	14 U	2 JJ	12 U	11 U	13 U	13 U	14 U	13 U	U
Chloroform	14 U	13 U	12 U	11 U	13 U	13 U	14 U	13 U	U
1,2-Dichloroethane	14 U	13 U	12 U	11 U	13 U	13 U	14 U	13 U	U
2-Butanone	14 U	13 U	12 U	11 U	13 U	13 U	14 U	13 U	U
1,1,1-Trichloroethane	14 U	13 U	12 U	11 U	3 JJ	13 U	14 U	13 U	U
Carbon Tetrachloride	14 U	13 U	12 U	11 U	13 U	13 U	14 U	13 U	U
Bromodichloromethane	14 U	13 U	12 U	11 U	13 U	13 U	14 U	13 U	U
1,2-Dichloropropane	14 U	13 U	12 U	11 U	13 U	13 U	14 U	13 U	U
cis-1,3-Dichloropropene	14 U	13 U	12 U	11 U	13 U	13 U	14 U	13 U	U
Trichloroethene	14 U	18 U	12 U	11 U	13 U	13 U	14 U	13 U	U
Dibromochloromethane	14 U	13 U	12 U	11 U	13 U	13 U	14 U	13 U	U
1,1,2-Trichloroethane	14 U	13 U	12 U	11 U	13 U	13 U	14 U	13 U	U
Benzene	14 U	13 U	12 U	11 U	13 U	13 U	14 U	13 U	U
trans-1,3-Dichloropropene	14 U	13 U	12 U	11 U	13 U	13 U	14 U	13 U	U
Bromoform	14 U	13 U	12 U	11 U	13 U	13 U	14 U	13 U	U
4-Methyl-2-Pentanone	14 U	13 U	12 U	11 U	13 U	13 U	14 U	13 U	U
2-Hexanone	14 U	13 U	12 U	11 U	13 U	13 U	14 U	13 U	U
Tetrachloroethene	14 U	30 U	7 JJ	11 U	1 JJ	13 U	14 U	13 U	U
1,1,2,2-Tetrachloroethane	14 U	13 U	12 U	11 U	13 U	13 U	14 U	13 U	U
Toluene	14 U	13 U	12 U	11 U	13 U	13 U	14 U	13 U	U
Chlorobenzene	14 U	13 U	12 U	11 U	13 U	13 U	14 U	13 U	U
Ethylbenzene	14 U	13 U	12 U	11 U	13 U	13 U	14 U	13 U	U
Styrene	14 U	13 U	12 U	11 U	13 U	13 U	14 U	13 U	U
total Xylenes	14 U	13 U	12 U	11 U	13 U	13 U	14 U	13 U	U
Dilution factor:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Percent Solids:	71	76	84	88	77	77	74	79	79
Associated Method Blank:	D0167	D0167	D0078	D0167	D0153	D0078	D0153	D0153	D0153
Associated Equipment Blank:	SCQS001XXX92SB	SCQS001XXX92SB	SCQS001XXX92SB	SCQS001XXX92SB	SCQS001XXX92SB	SCQS001XXX92SB	SCQS001XXX92SB	SCQS001XXX92SB	SCQS001XXX92SB
Associated Field Blank:	-	-	-	-	-	-	-	-	-
Associated Trip Blank:	-	-	-	-	-	-	-	-	-
Site:	STAUFFER CHEMICAL								
#:	Level IV Validation								

Table 2
Validation / Summary Table

SAMPLE LOCATION: SCBS015X0692XX SCBS015X0892XX SCBS016X0492XD SCBS016X0492XX SCBS017X0292XD SCBS017X0292XX SCBS018X0392XX
 LAB NUMBER: 1265602 # 1265603 # 1269702 # 1269701 # 1269706 # 1269705 # 1269708 #
 DATE SAMPLED: 05/27/92 05/27/92 05/29/92 05/29/92 05/29/92 05/29/92 05/29/92
 DATE ANALYZED: 06/01/92 06/01/92 06/06/92 06/06/92 06/05/92 06/05/92 06/05/92

ANALYTE	SOM-03/90 - II CRQL	13	U	13	U	15	U	14	U	12	UJ	11	UJ	13	UJ
Chloromethane	10	13	U	13	U	15	U	14	U	12	UJ	11	UJ	13	UJ
Bromomethane	10	13	U	13	U	15	U	14	U	12	U	11	U	13	U
Vinyl Chloride	10	13	U	13	U	15	U	14	U	12	U	11	U	13	U
Chloroethane	10	13	U	13	U	15	U	14	U	12	U	11	U	13	U
Methylene Chloride	10	13	U	13	U	15	U	14	U	12	U	11	U	13	U
Acetone	10	28	13	16	13	120	J	120	J	12	U	11	U	13	U
Carbon Disulfide	10	13	U	13	U	15	U	14	U	12	U	11	U	13	U
1,1-Dichloroethene	10	13	U	13	U	15	U	14	U	12	U	11	U	13	U
1,1-Dichloroethane	10	13	U	13	U	15	U	14	U	12	U	11	U	13	U
1,2-Dichloroethene (total)	10	13	U	13	U	15	U	14	U	12	U	11	U	13	U
Chloroform	10	13	U	13	U	15	U	14	U	12	U	11	U	13	U
1,2-Dichloroethane	10	13	U	13	U	15	U	14	U	12	U	11	U	13	U
2-Butanone	10	13	U	13	U	15	U	14	U	12	U	11	U	13	U
1,1,1-Trichloroethane	10	13	U	13	U	15	U	14	U	12	U	11	U	13	U
Carbon Tetrachloride	10	13	U	13	U	15	U	14	U	12	U	11	U	13	U
Bromodichloromethane	10	13	U	13	U	15	U	14	U	12	U	11	U	13	U
1,2-Dichloropropane	10	13	U	13	U	15	U	14	U	12	U	11	U	13	U
cis-1,3-Dichloropropene	10	13	U	13	U	15	U	14	U	12	U	11	U	13	U
Trichloroethene	10	13	U	13	U	15	U	14	U	12	U	11	U	13	U
Dibromochloromethane	10	13	U	13	U	15	U	14	U	12	U	11	U	13	U
1,1,2-Trichloroethane	10	13	U	13	U	15	U	14	U	12	U	11	U	13	U
Benzene	10	13	U	13	U	15	U	14	U	12	U	11	U	13	U
trans-1,3-Dichloropropene	10	13	U	13	U	15	U	14	U	12	U	11	U	13	U
Bromoform	10	13	U	13	U	15	U	14	U	12	U	11	U	13	U
4-Methyl-2-Pentanone	10	13	U	13	U	15	U	14	U	12	U	11	U	13	U
2-Hexanone	10	13	U	13	U	15	U	14	U	12	U	11	U	13	U
Tetrachloroethene	10	13	U	13	U	15	U	14	U	12	U	11	U	13	U
1,1,2,2-Tetrachloroethane	10	13	U	13	U	15	U	14	U	12	U	11	U	13	U
Toluene	10	13	U	13	U	15	U	14	U	12	U	11	U	13	U
Chlorobenzene	10	13	U	13	U	15	U	14	U	12	U	11	U	13	U
Ethylbenzene	10	13	U	13	U	15	U	14	U	12	U	11	U	13	U
Styrene	10	13	U	13	U	15	U	14	U	12	U	11	U	13	U
Total Xylenes	10	13	U	13	U	15	U	14	U	12	U	11	U	13	U
Dilution Factor:		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Percent Solids:		79	77	67	71	85	88	79	85	88	79	88	79	85	79

Associated Method Blank: D0078 D0078 D0191 D0177 D0177 D0177 D0177
 Associated Equipment Blank: SCQS001XXX92SB SCQS001XXX92SB SCQS001XXX92SB SCQS001XXX92SB SCQS001XXX92SB SCQS001XXX92SB
 Associated Field Blank: - - - - -
 Associated Trip Blank: - - - - -

Site: STAUFFER CHEMICAL
 #: Level IV Validation

Table 3

SAMPLE LOCATION: SCBS001X0492XX		SCBS001X0892XX	SCBS002X0292XX	SCBS003X0492XX	SCBS004X0792XX	SCBS005X0292XX	SCBS008X1092XX
LAB NUMBER:	1269710 #	1269709 #	1267002 #	1267003 #	1269713 #	1267001 #	1267004 #
DATE SAMPLED:	05/29/92	05/29/92	05/28/92	05/28/92	05/29/92	05/28/92	05/28/92
DATE ANALYZED:	06/05/92	06/05/92	06/05/92	06/05/92	06/06/92	06/05/92	06/05/92
ANALYTE	SOW-03/90 - II	CRQL					
Chloromethane	10	-	-	-	-	-	-
Bromomethane	10	-	-	-	-	-	-
Vinyl Chloride	10	-	-	-	-	-	-
Chloroethane	10	-	-	-	-	-	-
Methylene Chloride	10	-	-	-	-	-	-
Acetone	10	-	-	17 J	-	-	14
Carbon Disulfide	10	-	-	-	-	-	-
1,1-Dichloroethene	10	-	-	-	-	-	-
1,1-Dichloroethane	10	-	-	-	-	-	-
1,2-Dichloroethene (total)	10	-	-	-	-	-	-
Chloroform	10	-	-	-	-	-	-
1,2-Dichloroethane	10	-	-	-	-	-	-
2-Butanone	10	-	-	-	-	-	-
1,1,1-Trichloroethane	10	-	-	-	-	-	-
Carbon Tetrachloride	10	-	-	-	-	-	-
Bromodichloromethane	10	-	-	-	-	-	-
1,2-Dichloropropane	10	-	-	-	-	-	-
cis-1,3-Dichloropropene	10	-	-	-	-	-	-
Trichloroethene	10	-	-	-	-	-	-
Dibromochloromethane	10	-	-	-	-	-	-
1,1,2-Trichloroethane	10	-	-	-	-	-	-
Benzene	10	-	-	-	-	-	-
trans-1,3-Dichloropropene	10	-	-	-	-	-	-
Bromoform	10	-	-	-	-	-	-
4-Methyl-2-Pentanone	10	-	-	-	-	-	-
2-Hexanone	10	-	-	-	-	-	-
Tetrachloroethene	10	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	10	-	-	-	-	-	-
Toluene	10	-	-	-	-	-	-
Chlorobenzene	10	-	-	-	-	-	-
Ethylbenzene	10	-	-	-	-	-	-
Styrene	10	-	-	-	-	-	-
Total Xylenes	10	-	-	-	-	-	-
Dilution Factor:		1.00	1.00	1.00	1.00	1.00	1.00
Percent Solids:		82	84	78	83	88	78
Associated Method Blank: SCQ5001XXX92SB D0177 D0177 D0167 D0191 D0177 D0167 D0167							
Associated Equipment Blank: SCQ5001XXX92SB D0177 D0177 D0167 D0167 D0167 D0167 D0167							
Associated Trip Blank: SCQ5001XXX92SB D0177 D0177 D0167 D0167 D0167 D0167 D0167							

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Table 3

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Table 3

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Table 1
Laboratory Report of Analysis

ANALYTE	SOW-03/90 - II CRQL	SCBS001X0492XX	SCBS001X0892XX	SCBS002X0292XX	SCBS002X0492XX	SCBS003X0492XX	SCBS004X0792XX	SCBS005X0292XX
Phenol	330	400 U	400 U	390 U	420 U	400 U	370 U	370 U
bis(2-Chloroethyl) ether	330	400 U	400 U	390 U	420 U	400 U	370 U	370 U
2-Chlorophenol	330	400 U	400 U	390 U	420 U	400 U	370 U	370 U
1,3-Dichlorobenzene	330	400 U	400 U	390 U	420 U	400 U	370 U	370 U
1,4-Dichlorobenzene	330	400 U	400 U	390 U	420 U	400 U	370 U	370 U
1,2-Dichlorobenzene	330	400 U	400 U	390 U	420 U	400 U	370 U	370 U
2-Methylphenol	330	400 U	400 U	370 U	420 U	400 U	370 U	370 U
2,2'-oxybis(1-Chloropropane)	330	400 U	400 U	390 U	420 U	400 U	370 U	370 U
4-Methylphenol	330	400 U	400 U	370 U	420 U	400 U	370 U	370 U
4-Methylphenol	330	400 U	400 U	390 U	420 U	400 U	370 U	370 U
2,2'-oxybis(1-Chloropropane)	330	400 U	400 U	390 U	420 U	400 U	370 U	370 U
N-Nitroso-di-n-propylamine	330	400 U	400 U	390 U	420 U	400 U	370 U	370 U
Hexachloroethane	330	400 U	400 U	390 U	420 U	400 U	370 U	370 U
Nitrobenzene	330	400 U	400 U	390 U	420 U	400 U	370 U	370 U
Isophorone	330	400 U	400 U	390 U	420 U	400 U	370 U	370 U
2-Nitrophenol	330	400 U	400 U	390 U	420 U	400 U	370 U	370 U
2,4-Dimethylphenol	330	400 U	400 U	390 U	420 U	400 U	370 U	370 U
bis(2-Chloroethoxy)methane	330	400 U	400 U	390 U	420 U	400 U	370 U	370 U
2,4-Dichlorophenol	330	400 U	400 U	390 U	420 U	400 U	370 U	370 U
1,2,4-Trichlorobenzene	330	400 U	400 U	390 U	420 U	400 U	370 U	370 U
Naphthalene	330	400 U	400 U	390 U	420 U	400 U	370 U	370 U
4-Chloroaniline	330	400 U	400 U	390 U	420 U	400 U	370 U	370 U
Hexachlorobutadiene	330	400 U	400 U	390 U	420 U	400 U	370 U	370 U
4-Chloro-3-Methylphenol	330	400 U	400 U	390 U	420 U	400 U	370 U	370 U
2-Methylnaphthalene	330	400 U	400 U	390 U	420 U	400 U	370 U	370 U
Hexachlorocyclopentadiene	330	400 U	400 U	390 U	420 U	400 U	370 U	370 U
2,4,6-Trichlorophenol	330	400 U	400 U	390 U	420 U	400 U	370 U	370 U
2,4,5-Trichlorophenol	800	980 U	980 U	950 U	1000 U	960 U	910 U	910 U
2-Chloronaphthalene	330	400 U	400 U	390 U	420 U	400 U	370 U	370 U
2-Nitroaniline	800	980 U	980 U	950 U	1000 U	960 U	910 U	910 U
Dimethylphthalate	330	400 U	400 U	390 U	420 U	400 U	370 U	370 U
Acenaphthylene	330	400 U	400 U	390 U	420 U	400 U	370 U	370 U
2,6-Dinitrotoluene	330	400 U	400 U	390 U	420 U	400 U	370 U	370 U

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Table 1

Associated Method Blank:
Associated Equipment Blank:

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Table 1
Laboratory Report of Analysis

ANALYTE	SOW-03/90 - 11 CRQL	SCBS008X1092XD LAB NUMBER: DATE SAMPLED: DATE EXTRACTED: DATE ANALYZED:	SCBS008X1092XX 1267005 # 05/28/92 06/02/92 06/19/92	SCBS009X0492XX 1267007 # 05/28/92 06/02/92 06/19/92	SCBS010X0492XX 1265604 # 05/27/92 06/01/92 06/22/92	SCBS011X1092XX 1267006 # 05/28/92 06/02/92 06/19/92	SCBS012X0692XX 1265605 # 05/27/92 06/01/92 06/22/92	SCBS013X0692XX 1265601 # 05/27/92 06/01/92 06/19/92	SCBS013X0692XX 1265601 D # 05/27/92 06/01/92 06/24/92
3-Nitroaniline	800	1000 U	1100 U	1100 U	950 U	910 U	1000 U	1000 U	2100 U
Acenaphthene	330	25 J	110 J	430 U	29 J	120 J	33 J	33 J	32 OJ
2,4-Dinitrophenol	800	1000 U	1100 U	1100 U	950 U	910 U	1000 U	1000 U	2100 U
4-Nitrophenol	800	1000 U	1100 U	1100 U	950 U	910 U	1000 U	1000 U	2100 U
Bibenzofuran	330	430 U	37 J	20 J	390 U	38 J	91 J	60 J	57 OJ
2,4-Dinitrotoluene	330	430 U	460 U	430 U	390 U	370 U	430 U	430 U	860 U
Diethylphthalate	330	430 U	460 U	430 U	390 U	370 U	430 U	430 U	12 OJ
4-Chlorophenyl-phenylether	330	430 U	460 U	430 U	390 U	370 U	430 U	430 U	860 U
Fluorene	330	430 U	120 J	430 U	52 J	60 J	72 J	66 J	57 OJ
4-Nitroaniline	800	1000 U	1100 U	1100 U	950 U	910 U	1000 U	1000 U	2100 U
4,6-Dinitro-2-methylphenol	800	1000 U	1100 U	1100 U	950 U	910 U	1000 U	1000 U	2100 U
N-Nitrosodiphenylamine	330	430 U	460 U	430 U	390 U	370 U	430 U	430 U	49 OJ
4-Bromophenyl-phenylether	330	430 U	460 U	430 U	390 U	370 U	430 U	430 U	860 U
Hexachlorobenzene	330	430 U	140 J	150 J	94 J	51 J	370 J	38 J	30 OJ
Pentachlorophenol	800	1000 U	1100 U	1100 U	950 U	910 U	1000 U	1000 U	2100 U
Phenanthrene	330	190 J	560 J	260 J	800 J	440 J	480 J	540 J	530 OJ
Anthracene	330	28 J	190 J	53 J	83 J	64 J	64 J	100 J	80 OJ
Carbazole	330	11 J	31 J	23 J	44 J	29 J	38 J	38 J	39 OJ
Di-n-butylphthalate	330	64 J	460 U	100 J	180 J	370 U	120 J	130 J	140 OJ
Fluoranthene	330	230 J	970 J	250 J	540 J	520 J	270 J	690 J	680 OJ
Pyrene	330	220 J	1500 J	420 J	420 J	370 J	260 J	630 J	560 OJ
Butylbenzylphthalate	330	430 U	460 U	430 U	390 U	370 U	430 U	430 U	860 U
3,3'-Dichlorobenzidine	330	430 U	460 U	430 U	390 U	370 U	430 U	430 U	860 U
Benzo(a)Anthracene	330	98 J	530 J	160 J	330 J	200 J	290 J	290 J	230 OJ
Chrysene	330	150 J	760 J	210 J	480 J	290 J	640 J	410 J	320 OJ
bis(2-Ethylhexyl)phthalate	330	260 BJ	430 BJ	320 BJ	290 BJ	170 BJ	290 BJ	480 B	310 BJ
Di-n-octylphthalate	330	36 J	49 J	430 U	3 J	5 J	10 J	7 J	7 OJ
Benzo(b)Fluoranthene	330	94 J	330 J	120 J	220 J	220 J	290 J	230 J	170 OJ
Benzo(k)Fluoranthene	330	68 J	240 J	97 J	290 J	200 J	310 J	170 J	170 OJ
Benzo(a)Pyrene	330	430 U	240 J	430 U	220 J	120 J	330 J	220 J	170 OJ
Indeno(1,2,3-c,d)Pyrene	330	430 U	180 J	430 U	390 U	150 J	190 J	430 U	860 U
Dibenz(a,h)Anthracene	330	430 U	460 U	430 U	390 U	370 U	430 U	430 U	860 U
Benzo(g,h,i)perylene	330	430 U	460 U	430 U	390 U	370 U	430 U	430 U	860 U
Dilution Factor:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00
Percent Solids:	77	71	76	84	88	77	77	77	77
Associated Method Blank:	F1371	F1371	F1371	H6344	F1371	H6344	H6344	H6344	H6344
Associated Equipment Blank:	SCQS001XXX92SB	SCQS001XXX92SB	SCQS001XXX92SB	SCQS001XXX92SB	SCQS001XXX92SB	SCQS001XXX92SB	SCQS001XXX92SB	SCQS001XXX92SB	SCQS001XXX92SB
Associated Field Blank:									

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Table 1

Laboratory Report of Analysis

ANALYTE	SON-03/90 - II CRQL	SCBS014X0492XX LAB NUMBER: DATE SAMPLED: DATE EXTRACTED: DATE ANALYZED:	SCBS014X0792XX LAB NUMBER: DATE SAMPLED: DATE EXTRACTED: DATE ANALYZED:	SCBS015X0692XX LAB NUMBER: DATE SAMPLED: DATE EXTRACTED: DATE ANALYZED:	SCBS015X0892XX LAB NUMBER: DATE SAMPLED: DATE EXTRACTED: DATE ANALYZED:	SCBS016X0492XD LAB NUMBER: DATE SAMPLED: DATE EXTRACTED: DATE ANALYZED:	SCBS016X0492XX LAB NUMBER: DATE SAMPLED: DATE EXTRACTED: DATE ANALYZED:	SCBS017X0292XD LAB NUMBER: DATE SAMPLED: DATE EXTRACTED: DATE ANALYZED:	SCBS017X0292XX LAB NUMBER: DATE SAMPLED: DATE EXTRACTED: DATE ANALYZED:
Phenol	330	1800 U	3300 U	420 U	430 U	270 BJ	670 BJ	390 U	370 U
bis(2-Chloroethyl)ether	330	1800 U	3300 U	420 U	430 U	990 U	930 U	390 U	370 U
2-Chlorophenol	330	1800 U	3300 U	420 U	430 U	990 U	930 U	390 U	370 U
1,3-Dichlorobenzene	330	1800 U	3300 U	420 U	430 U	990 U	930 U	390 U	370 U
1,4-Dichlorobenzene	330	1800 U	3300 U	420 U	430 U	990 U	930 U	390 U	370 U
2,2-Dichlorobenzene	330	1800 U	3300 U	420 U	430 U	990 U	930 U	390 U	370 U
2-Methylphenol	330	1800 U	3300 U	420 U	430 U	990 U	930 U	390 U	370 U
2,2'-oxybis(1-Chloropropane)	330	1800 U	3300 U	420 U	430 U	990 U	930 U	390 U	370 U
4-Methylphenol	330	1800 U	3300 U	420 U	430 U	990 U	930 U	390 U	370 U
4-Nitrosodi-n-propylamine	330	1800 U	3300 U	420 U	430 U	990 U	930 U	390 U	370 U
hexachloroethane	330	1800 U	3300 U	420 U	430 U	990 U	930 U	390 U	370 U
nitrobenzene	330	1800 U	3300 U	420 U	430 U	990 U	930 U	390 U	370 U
sophorone	330	1800 U	3300 U	420 U	430 U	990 U	930 U	390 U	370 U
2,4-Dinitrophenol	330	1800 U	3300 U	420 U	430 U	990 U	930 U	390 U	370 U
2,4-Dimethylphenol	330	1800 U	3300 U	420 U	430 U	990 U	930 U	390 U	370 U
bis(2-Chloroethoxy)methane	330	1800 U	3300 U	420 U	430 U	990 U	930 U	390 U	370 U
2,4-Dichlorophenol	330	1800 U	3300 U	420 U	430 U	990 U	930 U	390 U	370 U
1,2,4-Trichlorobenzene	330	1800 U	3300 U	420 U	430 U	990 U	930 U	390 U	370 U
laphthalene	330	560 J	2400 J	55 J	30 J	640 J	1000 J	390 U	64 J
4-Chloroaniline	330	1800 U	3300 U	420 U	430 U	990 U	930 U	390 U	370 U
hexachlorobutadiene	330	1800 U	3300 U	420 U	430 U	990 U	930 U	390 U	370 U
4-Chloro-3-Methylphenol	330	1800 U	3300 U	420 U	430 U	990 U	930 U	390 U	370 U
2-Methylnaphthalene	330	640 J	1500 J	71 J	30 J	180 J	410 J	2 J	27 J
hexachlorocyclopentadiene	330	1800 U	3300 U	420 U	430 U	990 U	930 U	390 U	370 U
2,4,6-Trichlorophenol	330	1800 U	3300 U	420 U	430 U	990 U	930 U	390 U	370 U
2,4,5-Trichlorophenol	800	4300 U	8100 U	1000 U	1000 U	2400 U	2300 U	940 U	910 U
2-Chloronaphthalene	330	1800 U	3300 U	420 U	430 U	990 U	930 U	390 U	370 U
2-Nitroaniline	800	4300 U	8100 U	1000 U	1000 U	2400 U	2300 U	940 U	910 U
dimethylphthalate	330	1800 U	3300 U	420 U	430 U	990 U	930 U	390 U	370 U
acenaphthylene	330	1800 U	3300 U	420 U	430 U	990 U	930 U	390 U	370 U
2,6-Dinitrotoluene	330	1800 U	3300 U	420 U	430 U	990 U	930 U	390 U	370 U

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Table 1
Laboratory Report of Analysis

ANALYTE	SOM-03/90 - II CRCL	SCBS014X0492XX	SCBS014X0792XX	SCBS015X0692XX	SCBS015X0892XX	SCBS016X0492XX	SCBS017X0292XX	SCBS017X0292XX
3-Nitroaniline	800	4300 U	8100 U	1000 U	1000 U	2400 U	940 U	910 U
Acenaphthene	330	1500 J	3300 U	420 U	430 U	190 J	3 J	23 J
2,4-Dinitrophenol	800	4300 U	8100 U	1000 U	1000 U	2400 U	940 U	910 U
4-Nitrophenol	800	4300 U	8100 U	1000 U	1000 U	2400 U	940 U	910 U
Dibenzofuran	330	960 J	2800 J	13 J	9 J	240 J	2 J	50 J
2,4-Dinitrotoluene	330	1800 U	3300 U	420 U	430 U	990 U	390 U	370 U
Diethylphthalate	330	31 J	3300 U	25 J	20 J	990 U	10 J	9 J
4-Chlorophenyl-phenylether	330	1800 U	3300 U	420 U	430 U	990 U	390 U	370 U
Fluorene	330	2000 J	3300 U	420 U	430 U	990 U	390 U	61 J
4-Nitroaniline	800	4300 U	8100 U	1000 U	1000 U	2400 U	940 U	910 U
4,6-Dinitro-2-methylphenol	800	4300 U	8100 U	1000 U	1000 U	2400 U	940 U	910 U
N-Nitrosodiphenylamine	330	1800 U	3300 U	56 J	430 U	990 U	390 U	370 U
4-Bromophenyl-phenylether	330	1800 U	3300 U	420 U	430 U	990 U	390 U	370 U
Hexachlorobenzene	330	200 J	3300 U	74 J	76 J	990 U	390 U	370 U
Pentachlorophenol	800	4300 U	8100 U	1000 U	1000 U	2400 U	940 U	910 U
Phenanthrene	330	14000 J	24000 J	71 J	49 J	1800 J	37 J	380 J
Anthracene	330	2900 J	6200 J	66 J	8 J	270 J	6 J	52 J
Carbazole	330	1100 J	1700 J	420 U	430 U	180 J	390 U	28 J
Di-n-butylphthalate	330	830 J	2300 J	430 J	460 J	1500 J	87 J	1500 J
Fluoranthene	330	6800 J	18000 J	46 J	29 J	1300 J	70 J	470 J
Pyrene	330	5200 J	18000 J	45 J	38 J	1100 J	45 J	320 J
Butylbenzylphthalate	330	1800 U	3300 U	420 U	430 J	490 J	390 U	660 J
3,3'-Dichlorobenzidine	330	1800 U	3300 U	420 U	430 U	990 U	390 U	370 U
Benzo(a)Anthracene	330	5600 J	8600 J	13 J	430 U	470 J	49 J	130 J
Chrysene	330	6900 J	11000 J	20 J	430 U	500 J	42 J	160 J
Bis(2-Ethylhexyl)phthalate	330	260 BJ	3000 BJ	480 B	880 B	1200 B	170 BJ	2100 J
Di-n-octylphthalate	330	1800 U	3300 U	6 J	10 J	990 U	390 U	370 U
Benzo(b)Fluoranthene	330	3000 J	5200 J	420 U	430 U	820 J	390 U	98 J
Benzo(k)Fluoranthene	330	2900 J	4900 J	420 U	430 U	1200 J	390 U	100 J
Benzo(a)Pyrene	330	3600 J	7200 J	420 U	430 U	270 J	390 U	69 J
Indeno(1,2,3-c,d)Pyrene	330	1900 J	5800 J	420 U	430 U	990 U	390 U	370 U
Dibenz(a,h)Anthracene	330	1800 U	3300 U	420 U	430 U	990 U	390 U	370 U
Benzo(g,h,i)perylene	330	1700 J	4900 J	420 U	430 U	990 U	390 U	370 U
Dilution Factor:	4.00	8.00	1.00	1.00	1.00	2.00	1.00	1.00
Percent Solids:	74	79	79	77	67	71	85	88
Associated Method Blank:	H6344	H6344	H6344	H6344	H6358	H6358	H6389	H6325
Associated Equipment Blank:	SCAS001XXX92SB	SCAS001XXX92SB	SCAS001XXX92SB	SCAS001XXX92SB	SCAS001XXX92SB	SCAS001XXX92SB	SCAS001XXX92SB	SCAS001XXX92SB
Associated Field Blank:								

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Table 1
Laboratory Report of Analysis

ANALYTE	SOW-03/90 - II CRQL	SAMPLE LOCATION: SCBS018X0392XX	LAB NUMBER: 1269708 #	DATE SAMPLED: 05/29/92	DATE EXTRACTED: 06/03/92	DATE ANALYZED: 06/23/92	SCBS018X0392XX	LAB NUMBER: 1269708 D #	DATE SAMPLED: 05/29/92	DATE EXTRACTED: 06/03/92	DATE ANALYZED: 06/24/92
phenol	330		420 U					1300 U			
bis(2-Chloroethyl)ether	330		420 U					1300 U			
-Chlorophenol	330		420 U					1300 U			
3,3-Dichlorobenzene	330		420 U					1300 U			
4,4-Dichlorobenzene	330		420 U					1300 U			
2,2-Dichlorobenzene	330		420 U					1300 U			
-Methylphenol	330		420 U					1300 U			
2,2'-oxybis(1-Chloropropane)	330		420 U					1300 U			
-Methylphenol	330		420 U					1300 U			
i-Nitroso-di-n-propylamine	330		420 U					1300 U			
hexachloroethane	330		420 U					1300 U			
nitrobenzene	330		420 U					1300 U			
sophorone	330		420 U					1300 U			
-Nitrophenol	330		420 U					1300 U			
2,4-Dimethylphenol	330		420 U					1300 U			
bis(2-Chloroethoxy)methane	330		420 U					1300 U			
4,4-Dichlorophenol	330		420 U					1300 U			
2,4-Trichlorobenzene	330		420 U					1300 U			
laphthalene	330		10 J					1300 U			
-Chloroaniline	330		420 U					1300 U			
hexachlorobutadiene	330		420 U					1300 U			
-Chloro-3-Methylphenol	330		420 U					1300 U			
i-Methylnaphthalene	330		7 J					1300 U			
hexachlorocyclopentadiene	330		420 U					1300 U			
4,6-Trichlorophenol	330		420 U					1300 U			
4,5-Trichlorophenol	800		1000 U					3000 U			
-Chloronaphthalene	330		420 U					1300 U			
-Nitroaniline	800		1000 U					3000 U			
dimethylphthalate	330		420 U					1300 U			
acenaphthylene	330		420 U					1300 U			
6-Dinitrotoluene	330		420 U					1300 U			

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Table 1
Laboratory Report of Analysis

SAMPLE LOCATION: SCBS018X0392XX
 LAB NUMBER: 1269708 #
 DATE SAMPLED: 05/29/92
 DATE EXTRACTED: 06/03/92
 DATE ANALYZED: 06/24/92

ANALYTE	SOW-03/90 - II CRQL	1000 U	3000 U
3-Nitroaniline	800	U	3000 U
Acenaphthene	330	J	1300 U
2,4-Dinitrophenol	800	U	3000 U
4-Nitrophenol	1000	U	3000 U
Dibenzofuran	330	J	1300 U
2,4-Dinitrotoluene	330	U	1300 U
Diethylphthalate	330	J	1300 U
4-Chlorophenyl-phenylether	330	U	1300 U
Fluorene	330	J	1300 U
4-Nitroaniline	800	U	3000 U
4,6-Dinitro-2-methylphenol	800	U	3000 U
N-Nitrosodiphenylamine	330	U	1300 U
4-Bromophenyl-phenylether	330	U	1300 U
Hexachlorobenzene	330	U	1300 U
Pentachlorophenol	800	U	3000 U
Phenanthrene	330	J	50 DJ
Anthracene	330	U	1300 U
Carbazole	330	U	1300 U
Di-n-butylphthalate	330	U	1600 D
Fluoranthene	330	J	90 DJ
Pyrene	330	J	50 DJ
Butylbenzylphthalate	330	U	1300 U
3,3'-Dichlorobenzidine	330	U	1300 U
Benzo(a)Anthracene	330	J	1300 U
Chrysene	330	J	1300 U
bis(2-Ethylhexyl)phthalate	330	EB	7000 BD
Di-n-octylphthalate	330	U	1300 U
Benzo(b)Fluoranthene	330	U	1300 U
Benzo(k)Fluoranthene	330	U	1300 U
Benzo(a)Pyrene	330	U	1300 U
Indeno(1,2,3-c,d)Pyrene	330	U	1300 U
Dibenz(a,h)Anthracene	330	U	1300 U
Benzo(g,h,i)perylene	330	U	1300 U
Dilution Factor:	1.00		3.00
Percent Solids:	79		79

Associated Method Blank: H6358
 Associated Equipment Blank: SCQS001XXX9258
 Associated Field Blank: SCQS001XXX9258

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 #: Level IV Validation

Table 2

SAMPLE LOCATION:		SCBS001X0492XX	SCBS002X0292XX	SCBS001X0892XX	SCBS002X0492XX	SCBS003X0492XX	SCBS004X0792XX	SCBS005X0292XX	SCBS008X1092XX								
LAB NUMBER:	1269710 #	1269702 #	1269703 #	1269709 #	1269700 #	1269713 #	1269707 #	1267001 #	1267004 #								
DATE SAMPLED:	05/29/92	05/28/92	05/28/92	05/29/92	05/28/92	05/29/92	05/29/92	05/28/92	05/28/92								
DATE EXTRACTED:	06/03/92	06/02/92	06/02/92	06/03/92	06/02/92	06/03/92	06/03/92	06/02/92	06/02/92								
DATE ANALYZED:	06/23/92	06/19/92	06/19/92	06/23/92	06/19/92	06/24/92	06/23/92	06/19/92	06/19/92								
ANALYTE		SOM-03/90 - II CRQL															
Phenol	330	400	U	400	U	390	U	420	U	400	U	370	U	370	U	430	U
Bis(2-Chloroethyl) ether	330	400	U	400	U	390	U	420	U	400	U	370	U	370	U	430	U
2-Chlorophenol	330	400	U	400	U	390	U	420	U	400	U	370	U	370	U	430	U
1,3-Dichlorobenzene	330	400	U	400	U	390	U	420	U	400	U	370	U	370	U	430	U
1,4-Dichlorobenzene	330	400	U	400	U	390	U	420	U	400	U	370	U	370	U	430	U
1,2-Dichlorobenzene	330	400	U	400	U	390	U	420	U	400	U	370	U	370	U	430	U
2-Methylphenol	330	400	U	400	U	370	UJ	420	UJ	400	U	370	U	370	UJ	430	UJ
2,2'-oxybis(1-Chloropropane)	330	400	U	400	U	390	U	420	U	400	U	370	U	370	U	430	U
1-Methylphenol	330	400	U	400	U	370	UJ	420	UJ	400	U	370	U	370	UJ	430	UJ
1-Nitroso-di-n-propylamine	330	400	U	400	U	390	U	420	U	400	U	370	U	370	U	430	U
hexachloroethane	330	400	U	400	U	390	U	420	U	400	U	370	U	370	U	430	U
Nitrobenzene	330	400	U	400	U	390	U	420	U	400	U	370	U	370	U	430	U
sophorone	330	400	U	400	U	390	U	420	U	400	U	370	U	370	U	430	U
2-Nitrophenol	330	400	U	400	U	390	U	420	U	400	U	370	U	370	U	430	U
2,4-Dimethylphenol	330	400	U	400	U	390	U	420	U	400	U	370	U	370	U	430	U
Bis(2-Chloroethoxy)methane	330	400	U	400	U	390	U	420	U	400	U	370	U	370	U	430	U
2,4-Dichlorophenol	330	400	U	400	U	390	U	420	U	400	U	370	U	370	U	430	U
1,2,4-Trichlorobenzene	330	400	U	400	U	390	U	420	U	400	U	370	U	370	U	430	U
1,2,4-Trichlorobenzene	330	400	U	400	U	390	U	420	U	400	U	370	U	370	U	33	JJ
1,2,4-Trichlorobenzene	330	400	U	400	U	390	U	420	U	400	U	370	U	370	U	430	U
1-Chloroaniline	330	400	U	400	U	390	U	420	U	400	U	370	U	370	U	430	U
1-Chloroaniline	330	400	U	400	U	390	U	420	U	400	U	370	U	370	U	430	U
hexachlorobutadiene	330	400	UJ	400	UJ	390	U	420	U	400	U	370	UJ	370	U	430	U
3-Chloro-3-Methylphenol	330	400	U	400	U	390	U	420	U	400	U	370	U	370	U	430	U
2-Methylnaphthalene	330	400	U	400	U	390	U	420	U	400	U	370	U	370	U	430	U
hexachlorocyclopentadiene	330	400	UJ	400	UJ	390	U	420	U	400	UJ	370	UJ	370	U	430	U
2,4,6-Trichlorophenol	330	400	U	400	U	390	U	420	U	400	U	370	U	370	U	430	U
2,4,5-Trichlorophenol	800	980	U	980	U	950	U	1000	U	960	U	910	U	910	U	1000	U
2,4,5-Trichlorophenol	330	400	U	400	U	390	U	420	U	400	U	370	U	370	U	430	U
2-Chloronaphthalene	800	980	U	980	U	950	U	1000	U	960	U	910	U	910	U	1000	U
2-Nitroaniline	330	400	U	400	U	390	U	420	U	400	U	370	U	370	U	430	U
dimethylphthalate	330	400	U	400	U	390	U	420	U	400	U	370	U	370	U	430	U
acenaphthylene	330	400	U	400	U	390	U	420	U	400	U	370	U	370	U	430	U
2,6-Dinitrotoluene	330	400	U	400	U	390	U	420	U	400	U	370	U	370	U	430	U

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Table 2

SAMPLE LOCATION: SCBS001X0492XX		SCBS001X0892XX		SCBS002X0292XX		SCBS002X0492XX		SCBS003X0492XX		SCBS004X0792XX		SCBS005X0292XX		SCBS008X1092XX	
LAB NUMBER:	1269710 #	1269709 #	1269702 #	1267003 #	1269713 #	1269707 #	1267001 #	1267004 #	DATE SAMPLED:	DATE EXTRACTED:	DATE ANALYZED:	DATE SAMPLED:	DATE EXTRACTED:	DATE ANALYZED:	DATE SAMPLED:
DATE SAMPLED:	05/29/92	05/29/92	05/28/92	06/02/92	06/03/92	05/29/92	05/28/92	05/28/92	06/03/92	06/03/92	06/19/92	05/29/92	06/02/92	06/19/92	05/28/92
DATE EXTRACTED:	06/23/92	06/23/92	06/19/92	06/19/92	06/19/92	06/19/92	06/19/92	06/19/92	06/24/92	06/23/92	06/19/92	06/23/92	06/19/92	06/19/92	06/19/92
DATE ANALYZED:	06/23/92	06/23/92	06/19/92	06/19/92	06/19/92	06/19/92	06/19/92	06/19/92	06/24/92	06/23/92	06/19/92	06/23/92	06/19/92	06/19/92	06/19/92
ANALYTE	SOW-03/90 - II CRQL														
3-Nitroaniline	800	980	U	950	U	1000	U	960	U	910	U	910	U	1000	U
Acenaphthene	330	400	U	390	U	85	JJ	400	U	2	JJ	370	U	25	JJ
2,4-Dinitrophenol	800	980	U	950	U	1000	U	960	UJ	910	U	910	U	1000	U
4-Nitrophenol	800	980	U	950	U	1000	U	960	U	910	U	910	U	1000	U
Dibenzofuran	330	400	U	8	JJ	79	JJ	400	U	370	U	370	U	430	U
2,4-Dinitrotoluene	330	400	U	390	U	420	U	400	U	370	U	370	U	430	U
Diethylphthalate	330	400	U	390	U	420	U	400	U	6	JJ	370	U	430	U
4-Chlorophenyl-phenylether	330	400	U	390	U	420	U	400	U	370	U	370	U	430	U
Fluorene	330	400	U	390	U	130	JJ	400	U	370	U	370	U	430	U
4-Nitroaniline	800	980	U	950	U	1000	U	960	U	910	U	910	U	1000	U
4,6-Dinitro-2-methylphenol	800	980	U	950	U	1000	U	960	U	910	U	910	U	1000	U
N-Nitrosodiphenylamine	330	400	U	390	U	420	U	400	U	370	U	370	U	430	U
4-Bromophenyl-phenylether	330	400	U	390	U	420	U	400	U	370	U	370	U	430	U
Hexachlorobenzene	330	400	U	160	JJ	300	JJ	400	U	370	U	370	U	430	U
Pentachlorophenol	800	980	U	950	U	1000	U	960	U	910	U	910	U	1000	U
Phenanthrene	330	400	U	230	JJ	120	JJ	16	JJ	370	U	370	U	190	JJ
Anthracene	330	400	U	390	U	89	JJ	400	U	370	U	370	U	11	JJ
Carbazole	330	400	U	390	U	89	JJ	400	U	370	U	370	U	11	JJ
Di-n-butylphthalate	330	1700	JJ	73	JJ	420	U	1700	JJ	2000	JJ	370	U	64	JJ
Fluoranthene	330	71	JJ	330	JJ	2300	J	26	JJ	370	U	370	U	230	JJ
Pyrene	330	50	JJ	330	JJ	2300	J	16	JJ	370	U	370	UJ	220	JJ

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Table 2
Validation / Summary Table

ANALYTE	SOW-03/90 - II CRQL	SCBS008X1092XX LAB NUMBER: 1267005 # DATE SAMPLED: 05/28/92 DATE EXTRACTED: 06/02/92 DATE ANALYZED: 06/19/92	SCBS009X0492XX 1267007 # 05/28/92 06/02/92 06/19/92	SCBS010X0492XX 1265604 # 05/27/92 06/01/92 06/22/92	SCBS011X1092XX 1267006 # 05/28/92 06/02/92 06/19/92	SCBS012X0692XX 1265605 # 05/27/92 06/01/92 06/22/92	SCBS013X0692XX 1265601 # 05/27/92 06/01/92 06/19/92	SCBS014X0492XX 1265606 # 05/27/92 06/01/92 06/22/92	SCBS014X0792XX 1265607 # 05/27/92 06/01/92 06/23/92
Phenol	330	460 U	430 U	390 U	370 U	430 U	430 U	1800 U	3300 U
bis(2-Chloroethyl) ether	330	460 U	430 U	390 U	370 U	430 U	430 U	1800 U	3300 U
2-Chlorophenol	330	460 U	430 U	390 U	370 U	430 U	430 U	1800 U	3300 U
1,3-Dichlorobenzene	330	460 U	430 U	390 U	370 U	430 U	430 U	1800 U	3300 U
1,4-Dichlorobenzene	330	460 U	430 U	390 U	370 U	430 U	430 U	1800 U	3300 U
1,2-Dichlorobenzene	330	460 U	430 U	390 U	370 U	430 U	430 U	1800 U	3300 U
2-Methylphenol	330	460 UJ	430 UJ	390 U	370 UJ	430 U	430 U	1800 U	3300 U
2,2'-oxybis(1-Chloropropane)	330	460 U	430 U	390 U	370 U	430 U	430 U	1800 U	3300 U
4-Methylphenol	330	460 UJ	430 UJ	390 U	370 UJ	430 U	430 U	1800 U	3300 U
4-Nitrophenol	330	460 U	430 U	390 U	370 U	430 U	430 U	1800 U	3300 U
N-Nitroso-di-n-propylamine	330	460 U	430 U	390 U	370 U	430 U	430 U	1800 U	3300 U
Hexachloroethane	330	99 JJ	430 U	440 U	85 JJ	260 JJ	85 JJ	1800 U	3300 U
Nitrobenzene	330	460 U	430 U	390 U	370 U	430 U	430 U	1800 U	3300 U
Isophorone	330	460 U	430 U	390 U	370 U	430 U	430 U	1800 U	3300 U
2-Nitrophenol	330	460 U	430 U	390 U	370 U	430 U	430 U	1800 U	3300 U
2,4-Dimethylphenol	330	460 U	430 U	390 U	370 U	430 U	430 U	1800 U	3300 U
bis(2-Chloroethoxy)methane	330	460 U	430 U	390 U	370 U	430 U	430 U	1800 U	3300 U
2,4-Dichlorophenol	330	460 U	430 U	390 U	370 U	430 U	430 U	1800 U	3300 U
1,2,4-Trichlorobenzene	330	460 U	430 U	82 JJ	370 U	430 U	430 U	1800 U	3300 U
Naphthalene	330	42 JJ	39 JJ	33 JJ	87 JJ	110 JJ	83 JJ	560 JJ	2400 JJ
4-Chloroaniline	330	460 U	430 U	390 U	370 U	430 U	430 U	1800 U	3300 U
Hexachlorobutadiene	330	50 JJ	430 U	340 JJ	370 U	51 JJ	39 JJ	1800 U	3300 U
4-Chloro-3-Methylphenol	330	460 U	430 U	390 U	370 U	430 U	430 U	1800 U	3300 U
2-Methylnaphthalene	330	19 JJ	19 JJ	32 JJ	15 JJ	150 JJ	93 JJ	640 JJ	1500 JJ
Hexachlorocyclopentadiene	330	460 U	430 U	390 U	370 U	430 U	430 U	1800 U	3300 U
2,4,6-Trichlorophenol	330	460 U	430 U	390 U	370 U	430 U	430 U	1800 U	3300 U
2,4,5-Trichlorophenol	800	1100 U	1100 U	950 U	910 U	1000 U	1000 U	4300 U	8100 U
2-Chloronaphthalene	330	460 U	430 U	390 U	370 U	430 U	430 U	1800 U	3300 U
2-Nitroaniline	800	1100 U	1100 U	950 U	910 U	1000 U	1000 U	4300 U	8100 U
Dimethylphthalate	330	460 U	430 U	390 U	370 U	430 U	430 U	1800 U	3300 U
Acenaphthylene	330	460 U	430 U	7 JJ	370 U	49 JJ	7 JJ	1800 U	60 JJ
2,6-Dinitrotoluene	330	460 U	430 U	390 U	370 U	430 U	430 U	1800 U	3300 U

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Table 2
Validation / Summary Table

ANALYTE	SOW-03/90 - II CRQL	SCBS008X1092XX	SCBS009X0492XX	SCBS010X0492XX	SCBS011X1092XX	SCBS012X0692XX	SCBS013X0692XX	SCBS014X0492XX	SCBS014X0792XX
3-Nitroaniline	800	1100 U	1100 U	950 U	910 U	1000 U	1000 U	4300 U	8100 U
Acenaphthene	330	110 JJ	430 U	29 JJ	120 JJ	36 JJ	33 JJ	1500 JJ	3300 U
2,4-Dinitrophenol	800	1100 U	1100 U	950 U	910 U	1000 U	1000 U	4300 U	8100 U
4-Nitrophenol	800	1100 U	1100 U	950 U	910 U	1000 U	1000 U	4300 U	8100 U
Dibenzofuran	330	37 JJ	20 JJ	390 U	38 JJ	91 JJ	60 JJ	960 JJ	2800 JJ
2,4-Dinitrotoluene	330	460 U	430 U	390 U	370 U	430 U	430 U	1800 U	3300 U
Diethylphthalate	330	460 U	430 U	390 U	370 U	38 JJ	14 JJ	31 JJ	3300 U
4-Chlorophenyl-phenylether	330	460 U	430 U	390 U	370 U	430 U	430 U	1800 U	3300 U
Fluorene	330	120 JJ	430 U	52 JJ	60 JJ	72 JJ	66 JJ	2000 JJ	3300 U
4-Nitroaniline	800	1100 U	1100 U	950 U	910 U	1000 U	1000 U	4300 U	8100 U
4,6-Dinitro-2-methylphenol	800	1100 U	1100 U	950 U	910 U	1000 U	1000 U	4300 U	8100 U
N-Nitrosodiphenylamine	330	460 U	430 U	390 U	370 U	430 U	430 U	1800 U	3300 U
4-Bromophenyl-phenylether	330	460 U	430 U	390 U	370 U	430 U	430 U	1800 U	3300 U
Hexachlorobenzene	330	140 JJ	150 JJ	94 JJ	51 JJ	370 JJ	38 JJ	200 JJ	3300 U
Pentachlorophenol	800	1100 U	1100 U	950 U	910 U	1000 U	1000 U	4300 U	8100 U
Phenanthrene	330	560 J	260 JJ	800 JJ	440 JJ	480 JJ	540 J	14000 JJ	24000 JJ
Anthracene	330	190 JJ	53 JJ	83 JJ	64 JJ	64 JJ	100 JJ	2900 JJ	6200 JJ
Carbazole	330	31 JJ	23 JJ	44 JJ	29 JJ	30 JJ	38 JJ	1100 JJ	1700 JJ
Di-n-butylphthalate	330	460 U	100 JJ	180 JJ	370 U	120 JJ	130 JJ	830 JJ	2300 JJ
Fluoranthene	330	970 J	250 JJ	540 JJ	520 JJ	270 JJ	690 JJ	6800 JJ	18000 JJ
Pyrene	330	1500 J	280 JJ	420 JJ	370 JJ	260 JJ	630 JJ	5200 JJ	18000 JJ
Butylbenzylphthalate	330	460 U	430 U	390 U	370 U	430 U	430 U	1800 U	3300 U
3,3'-Dichlorobenzidine	330	460 U	430 U	390 U	370 U	430 U	430 U	1800 U	3300 U
Benzo(a)Anthracene	330	530 J	160 JJ	330 JJ	200 JJ	390 JJ	290 JJ	5600 JJ	8600 JJ
Chrysene	330	760 J	210 JJ	480 JJ	290 JJ	640 JJ	410 JJ	6900 JJ	11000 JJ
bis(2-Ethylhexyl)phthalate	330	460 U	430 U	390 U	370 U	430 U	480 U	1800 U	3300 U
Di-n-octylphthalate	330	49 JJ	430 U	3 JJ	5 JJ	10 JJ	7 JJ	1800 U	3300 U
Benzo(k)Fluoranthene	330	330 JJ	120 JJ	220 JJ	220 JJ	290 JJ	230 JJ	3000 JJ	5200 JJ
Benzo(a)Pyrene	330	240 JJ	97 JJ	290 JJ	200 JJ	310 JJ	170 JJ	2900 JJ	4900 JJ
Indeno(1,2,3-c,d)Pyrene	330	180 JJ	430 U	390 U	120 JJ	330 JJ	220 JJ	3600 JJ	7200 JJ
Dibenz(a,h)Anthracene	330	460 U	430 U	390 U	150 JJ	190 JJ	430 U	1900 JJ	5800 JJ
Benzo(g,h,i)perylene	330	460 U	430 U	390 U	370 U	430 U	430 U	1800 U	3300 U
Benzo(g,h,i)perylene	330	460 U	430 U	390 U	370 U	430 U	430 U	1700 JJ	4900 JJ
Dilution Factor:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	4.00	8.00
Percent Solids:	71	76	84	88	77	77	77	74	79
Associated Method Blank:	F1371	F1371	H6344	F1371	H6344	H6344	H6344	H6344	H6344
Associated Equipment Blank:	SCQS001XXX92SB	SCQS001XXX92SB	SCQS001XXX92SB	SCQS001XXX92SB	SCQS001XXX92SB	SCQS001XXX92SB	SCQS001XXX92SB	SCQS001XXX92SB	SCQS001XXX92SB
Associated Field Blank:									

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Table 2
Validation / Summary Table

ANALYTE	SOW-03/90 - II CROL	SCBS015X0692XX LAB NUMBER: DATE SAMPLED: DATE EXTRACTED: DATE ANALYZED:	SCBS015X0892XX 1265603 # 05/27/92 06/01/92 06/19/92	SCBS016X0492X0 1269702 # 05/29/92 06/03/92 06/22/92	SCBS016X0492XX 1269701 # 05/29/92 06/03/92 06/22/92	SCBS017X0292X0 1269706 # 05/29/92 06/18/92 06/23/92	SCBS017X0292XX 1269705 # 05/29/92 06/08/92 06/23/92	SCBS018X0392XX 1269708 # 05/29/92 06/03/92 06/23/92
Phenol	330	420 U	430 U	990 U	670 JJ	390 UJ	370 UJ	420 U
bis(2-Chloroethyl)ether	330	420 U	430 U	990 U	930 U	390 UJ	370 UJ	420 U
2-Chlorophenol	330	420 U	430 U	990 U	930 U	390 UJ	370 UJ	420 U
1,3-Dichlorobenzene	330	420 U	430 U	990 U	930 U	390 UJ	370 UJ	420 U
1,4-Dichlorobenzene	330	420 U	430 U	990 U	930 U	390 UJ	370 UJ	420 U
1,2-Dichlorobenzene	330	420 U	430 U	990 U	930 U	390 UJ	370 UJ	420 U
2-Methylphenol	330	420 U	430 U	110 JJ	27 JJ	390 UJ	370 UJ	420 U
2,2'-oxybis(1-Chloropropane)	330	420 U	430 U	990 U	930 U	390 UJ	370 UJ	420 U
4-Methylphenol	330	420 U	430 U	120 JJ	340 J	390 UJ	370 UJ	420 U
N-Nitroso-di-n-propylamine	330	420 U	430 U	990 U	930 U	390 UJ	370 UJ	420 U
Hexachloroethane	330	420 U	430 U	990 U	930 U	390 UJ	370 UJ	420 U
Nitrobenzene	330	420 U	430 U	990 U	930 U	390 UJ	370 UJ	420 U
Isophorone	330	420 U	430 U	990 U	930 U	390 UJ	370 UJ	420 U
2-Nitrophenol	330	420 U	430 U	990 U	930 U	390 UJ	370 UJ	420 U
2,4-Dimethylphenol	330	420 U	430 U	39 JJ	83 JJ	390 UJ	370 UJ	420 U
bis(2-Chloroethoxy)methane	330	420 U	430 U	990 U	930 U	390 UJ	370 UJ	420 U
2,4-Dichlorophenol	330	420 U	430 U	990 U	930 U	390 UJ	370 UJ	420 U
1,2,4-Trichlorobenzene	330	420 U	430 U	990 U	930 U	390 UJ	370 UJ	420 U
Naphthalene	330	55 JJ	30 JJ	640 JJ	1000 U	390 UJ	64 JJ	10 JJ
4-Chloroaniline	330	420 U	430 U	990 U	930 U	390 UJ	370 UJ	420 U
Hexachlorobutadiene	330	420 U	430 U	990 U	930 U	390 UJ	370 UJ	420 U
4-Chloro-3-Methylphenol	330	420 U	430 U	990 U	930 U	390 UJ	370 UJ	420 U
2-Methylnaphthalene	330	71 JJ	30 JJ	180 JJ	410 JJ	2 JJ	27 JJ	7 JJ
Hexachlorocyclopentadiene	330	420 U	430 U	990 UJ	930 UJ	390 UJ	370 UJ	420 UJ
2,4,6-Trichlorophenol	330	420 U	430 U	990 U	930 U	390 UJ	370 UJ	420 U
2,4,5-Trichlorophenol	800	1000 U	1000 U	2400 U	2300 U	940 UJ	910 UJ	1000 U
2-Chloronaphthalene	330	420 U	430 U	990 U	930 U	390 UJ	370 UJ	420 U
2-Nitroaniline	800	1000 U	1000 U	2400 U	2300 U	940 UJ	910 UJ	1000 U
Dimethylphthalate	330	420 U	430 U	990 U	930 U	390 UJ	370 UJ	420 U
Acenaphthylene	330	420 U	430 U	990 U	13 JJ	390 UJ	7 JJ	420 U
2,6-Dinitrotoluene	330	420 U	430 U	990 U	930 U	390 UJ	370 UJ	420 U

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Table 2
Validation / Summary Table

ANALYTE	SOW-03/90 - II CRQL	SCBS015X0692XX	SCBS015X0892XX	SCBS016X0492XX	SCBS017X0292XX	SCBS017X0292XX	SCBS018X0392XX
3-Nitroaniline	800	1000 U	1000 U	2400 U	2300 U	940 UJ	1000 U
Acenaphthene	330	420 U	430 U	190 JJ	700 JJ	910 UJ	1000 U
2,4-Dinitrophenol	800	1000 U	1000 U	2400 U	2300 U	910 UJ	1000 U
4-Nitrophenol	800	1000 U	1000 U	2400 U	2300 U	910 UJ	1000 U
Dibenzofuran	330	13 JJ	9 JJ	240 JJ	840 JJ	50 JJ	3 JJ
2,4-Dinitrotoluene	330	420 U	430 U	990 U	930 U	370 UJ	420 U
Diethylphthalate	330	25 JJ	20 JJ	990 U	11 JJ	9 JJ	9 JJ
4-Chlorophenyl-phenylether	330	420 U	430 U	990 U	930 U	370 UJ	420 U
Fluorene	330	420 U	430 U	330 JJ	1200 JJ	61 JJ	4 JJ
4-Nitroaniline	800	1000 U	1000 U	2400 U	2300 U	910 UJ	1000 U
4,6-Dinitro-2-methylphenol	800	1000 U	1000 U	2400 U	2300 U	910 UJ	1000 U
N-Nitrosodiphenylamine	330	56 JJ	430 U	990 U	930 U	370 UJ	420 U
4-Bromophenyl-phenylether	330	420 U	430 U	990 U	930 U	370 UJ	420 U
Hexachlorobenzene	330	74 JJ	76 JJ	990 U	39 JJ	370 UJ	420 U
Pentachlorophenol	800	1000 U	1000 U	2400 U	2300 U	910 UJ	1000 U
Phenanthrene	330	71 JJ	49 JJ	1800 JJ	5600 JJ	380 JJ	420 U
Anthracene	330	66 JJ	8 JJ	270 JJ	1300 JJ	52 JJ	420 U
Carbazole	330	420 U	430 U	180 JJ	580 JJ	28 JJ	420 U
Di-n-butylphthalate	330	430	460	1500 JJ	1400 JJ	1500 JJ	1100 JJ
Fluoranthene	330	46 JJ	29 JJ	1300 JJ	3900 JJ	70 JJ	78 JJ
Pyrene	330	45 JJ	38 JJ	1100 JJ	2700 JJ	45 JJ	65 JJ
Butylbenzylphthalate	330	420 U	130 JJ	490 JJ	440 JJ	320 JJ	32 JJ
3,3'-Dichlorobenzidine	330	420 U	430 U	990 U	930 U	660 JJ	420 U
Benzo(a)Anthracene	330	13 JJ	430 U	470 JJ	1600 JJ	370 UJ	420 U
Chrysene	330	20 JJ	430 U	500 JJ	1900 JJ	130 JJ	24 JJ
bis(2-Ethylhexyl)phthalate	330	480 U	880 U	1200 JJ	1900 JJ	160 JJ	46 JJ
Di-n-octylphthalate	330	6 JJ	10 JJ	990 U	930 U	2100 JJ	7000 UDJ
Benzo(b)Fluoranthene	330	420 U	430 U	210 JJ	820 JJ	370 UJ	420 U
Benzo(k)Fluoranthene	330	420 U	430 U	340 JJ	1200 JJ	98 JJ	420 U
Benzo(a)Pyrene	330	420 U	430 U	270 JJ	1200 JJ	100 JJ	420 U
Indeno(1,2,3-c,d)Pyrene	330	420 U	430 U	990 U	660 JJ	69 JJ	420 U
Dibenz(a,h)Anthracene	330	420 U	430 U	990 U	930 U	370 UJ	420 U
Benzo(g,h,i)perylene	330	420 U	430 U	990 U	430 JJ	370 UJ	420 U
Dilution Factor:	1.00	1.00	1.00	2.00	2.00	1.00	1.00
Percent Solids:	79	77	67	71	85	88	79
Associated Method Blank:	H6344	H6344	H6358	H6358	H6389	H6325	H6358
Associated Equipment Blank:	SCQS001XXX92SB	SCQS001XXX92SB	SCQS001XXX92SB	SCQS001XXX92SB	SCQS001XXX92SB	SCQS001XXX92SB	SCQS001XXX92SB
Associated Field Blank:							

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Table 3
Summary Table

ANALYTE	SOW-03/90 - 11 CROL		SAMPLE LOCATION: SCBS001X0492XX		SCBS001X0892XX		SCBS002X0292XX		SCBS003X0492XX		SCBS004X0792XX		SCBS005X0292XX		SCBS008X1092XD	
	LAB NUMBER:	DATE SAMPLED:	DATE EXTRACTED:	DATE ANALYZED:	LAB NUMBER:	DATE SAMPLED:	DATE EXTRACTED:	DATE ANALYZED:	LAB NUMBER:	DATE SAMPLED:	DATE EXTRACTED:	DATE ANALYZED:	LAB NUMBER:	DATE SAMPLED:	DATE EXTRACTED:	DATE ANALYZED:
Phenol	330	-	-	-	1269709 #	05/29/92	06/03/92	06/23/92	1269713 #	05/29/92	06/03/92	06/24/92	1267001 #	05/28/92	06/02/92	06/19/92
bis(2-Chloroethyl)ether	330	-	-	-	1269709 #	05/29/92	06/03/92	06/23/92	1269713 #	05/29/92	06/03/92	06/24/92	1267001 #	05/28/92	06/02/92	06/19/92
2-Chlorophenol	330	-	-	-	1269709 #	05/29/92	06/03/92	06/23/92	1269713 #	05/29/92	06/03/92	06/24/92	1267001 #	05/28/92	06/02/92	06/19/92
1,3-Dichlorobenzene	330	-	-	-	1269709 #	05/29/92	06/03/92	06/23/92	1269713 #	05/29/92	06/03/92	06/24/92	1267001 #	05/28/92	06/02/92	06/19/92
1,4-Dichlorobenzene	330	-	-	-	1269709 #	05/29/92	06/03/92	06/23/92	1269713 #	05/29/92	06/03/92	06/24/92	1267001 #	05/28/92	06/02/92	06/19/92
1,2-Dichlorobenzene	330	-	-	-	1269709 #	05/29/92	06/03/92	06/23/92	1269713 #	05/29/92	06/03/92	06/24/92	1267001 #	05/28/92	06/02/92	06/19/92
2-Methylphenol	330	-	-	-	1269709 #	05/29/92	06/03/92	06/23/92	1269713 #	05/29/92	06/03/92	06/24/92	1267001 #	05/28/92	06/02/92	06/19/92
2,2'-oxybis(1-Chloropropane)	330	-	-	-	1269709 #	05/29/92	06/03/92	06/23/92	1269713 #	05/29/92	06/03/92	06/24/92	1267001 #	05/28/92	06/02/92	06/19/92
4-Methylphenol	330	-	-	-	1269709 #	05/29/92	06/03/92	06/23/92	1269713 #	05/29/92	06/03/92	06/24/92	1267001 #	05/28/92	06/02/92	06/19/92
N-Nitroso-di-n-propylamine	330	-	-	-	1269709 #	05/29/92	06/03/92	06/23/92	1269713 #	05/29/92	06/03/92	06/24/92	1267001 #	05/28/92	06/02/92	06/19/92
Hexachloroethane	330	-	-	-	1269709 #	05/29/92	06/03/92	06/23/92	1269713 #	05/29/92	06/03/92	06/24/92	1267001 #	05/28/92	06/02/92	06/19/92
Nitrobenzene	330	-	-	-	1269709 #	05/29/92	06/03/92	06/23/92	1269713 #	05/29/92	06/03/92	06/24/92	1267001 #	05/28/92	06/02/92	06/19/92
Isophorone	330	-	-	-	1269709 #	05/29/92	06/03/92	06/23/92	1269713 #	05/29/92	06/03/92	06/24/92	1267001 #	05/28/92	06/02/92	06/19/92
2-Nitrophenol	330	-	-	-	1269709 #	05/29/92	06/03/92	06/23/92	1269713 #	05/29/92	06/03/92	06/24/92	1267001 #	05/28/92	06/02/92	06/19/92
2,4-Dimethylphenol	330	-	-	-	1269709 #	05/29/92	06/03/92	06/23/92	1269713 #	05/29/92	06/03/92	06/24/92	1267001 #	05/28/92	06/02/92	06/19/92
bis(2-Chloroethoxy)methane	330	-	-	-	1269709 #	05/29/92	06/03/92	06/23/92	1269713 #	05/29/92	06/03/92	06/24/92	1267001 #	05/28/92	06/02/92	06/19/92
2,4-Dichlorophenol	330	-	-	-	1269709 #	05/29/92	06/03/92	06/23/92	1269713 #	05/29/92	06/03/92	06/24/92	1267001 #	05/28/92	06/02/92	06/19/92
1,2,4-Trichlorobenzene	330	-	-	-	1269709 #	05/29/92	06/03/92	06/23/92	1269713 #	05/29/92	06/03/92	06/24/92	1267001 #	05/28/92	06/02/92	06/19/92
Naphthalene	330	-	-	-	1269709 #	05/29/92	06/03/92	06/23/92	1269713 #	05/29/92	06/03/92	06/24/92	1267001 #	05/28/92	06/02/92	06/19/92
4-Chloroaniline	330	-	-	-	1269709 #	05/29/92	06/03/92	06/23/92	1269713 #	05/29/92	06/03/92	06/24/92	1267001 #	05/28/92	06/02/92	06/19/92
Hexachlorobutadiene	330	-	-	-	1269709 #	05/29/92	06/03/92	06/23/92	1269713 #	05/29/92	06/03/92	06/24/92	1267001 #	05/28/92	06/02/92	06/19/92
4-Chloro-3-Methylphenol	330	-	-	-	1269709 #	05/29/92	06/03/92	06/23/92	1269713 #	05/29/92	06/03/92	06/24/92	1267001 #	05/28/92	06/02/92	06/19/92
2-Methylnaphthalene	330	-	-	-	1269709 #	05/29/92	06/03/92	06/23/92	1269713 #	05/29/92	06/03/92	06/24/92	1267001 #	05/28/92	06/02/92	06/19/92
Hexachlorocyclopentadiene	330	-	-	-	1269709 #	05/29/92	06/03/92	06/23/92	1269713 #	05/29/92	06/03/92	06/24/92	1267001 #	05/28/92	06/02/92	06/19/92
2,4,6-Trichlorophenol	330	-	-	-	1269709 #	05/29/92	06/03/92	06/23/92	1269713 #	05/29/92	06/03/92	06/24/92	1267001 #	05/28/92	06/02/92	06/19/92
2,4,5-Trichlorophenol	800	-	-	-	1269709 #	05/29/92	06/03/92	06/23/92	1269713 #	05/29/92	06/03/92	06/24/92	1267001 #	05/28/92	06/02/92	06/19/92
2-Chloronaphthalene	330	-	-	-	1269709 #	05/29/92	06/03/92	06/23/92	1269713 #	05/29/92	06/03/92	06/24/92	1267001 #	05/28/92	06/02/92	06/19/92
2-Nitroaniline	800	-	-	-	1269709 #	05/29/92	06/03/92	06/23/92	1269713 #	05/29/92	06/03/92	06/24/92	1267001 #	05/28/92	06/02/92	06/19/92
Dimethylphthalate	330	-	-	-	1269709 #	05/29/92	06/03/92	06/23/92	1269713 #	05/29/92	06/03/92	06/24/92	1267001 #	05/28/92	06/02/92	06/19/92
Acenaphthylene	330	-	-	-	1269709 #	05/29/92	06/03/92	06/23/92	1269713 #	05/29/92	06/03/92	06/24/92	1267001 #	05/28/92	06/02/92	06/19/92
2,6-Dinitrotoluene	330	-	-	-	1269709 #	05/29/92	06/03/92	06/23/92	1269713 #	05/29/92	06/03/92	06/24/92	1267001 #	05/28/92	06/02/92	06/19/92

Site: STAUFFER CHEMICAL
#: Level IV Validation

Table 3
Summary Table

ANALYTE	SOW-03/90 - 11 CRQL	SCBS001X0492XX	SCBS001X0892XX	SCBS002X0292XX	SCBS002X0492XX	SCBS003X0492XX	SCBS004X0792XX	SCBS005X0292XX	SCBS008X1092XD
3-Nitroaniline	800	-	-	-	-	-	-	-	-
Acenaphthene	330	-	-	-	-	-	-	-	-
2,4-Dinitrophenol	800	-	-	-	-	-	-	-	-
4-Nitrophenol	800	-	-	-	-	-	-	-	-
Dibenzofuran	330	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	330	-	-	-	-	-	-	-	-
Diethylphthalate	330	-	-	-	-	-	-	-	-
4-Chlorophenyl-phenylether	330	-	-	-	-	-	-	-	-
Fluorene	330	-	-	-	-	-	-	-	-
4-Nitroaniline	800	-	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	800	-	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	330	-	-	-	-	-	-	-	-
4-Bromophenyl-phenylether	330	-	-	-	-	-	-	-	-
Hexachlorobenzene	330	-	-	-	-	-	-	-	-
Pentachlorophenol	800	-	-	-	-	-	-	-	-
Phenanthrene	330	-	-	-	-	-	-	-	-
Anthracene	330	-	-	-	-	-	-	-	-
Carbazole	330	-	-	-	-	-	-	-	-
Di-n-butylphthalate	330	1700	-	-	-	-	2000	-	-
Fluoranthene	330	-	-	-	-	-	-	-	-
Pyrene	330	-	-	-	-	-	-	-	-
Butylbenzylphthalate	330	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	330	-	-	-	-	-	-	-	-
Benzo(a)Anthracene	330	-	-	-	-	-	-	-	-
Chrysene	330	-	-	-	-	-	-	-	-
Bis(2-Ethylhexyl)phthalate	330	-	-	-	-	-	2800 J	-	-
Di-n-octylphthalate	330	-	-	-	-	-	-	-	-
Benzo(b)Fluoranthene	330	-	-	-	-	-	-	-	-
Benzo(k)Fluoranthene	330	-	-	-	-	-	-	-	-
Benzo(a)Pyrene	330	-	-	-	-	-	-	-	-
Indeno(1,2,3-c,d)Pyrene	330	-	-	-	-	-	-	-	-
Dibenz(a,h)Anthracene	330	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	330	-	-	-	-	-	-	-	-
Dilution Factor:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Percent Solids:	82	82	84	78	83	88	82	77	77
Associated Method Blank:	H6358	H6358	F1371	F1371	H6358	H6358	F1371	F1371	F1371
Associated Equipment Blank:	SCQS001XXX92SB	SCQS001XXX92SB	SCQS001XXX92SB	SCQS001XXX92SB	SCQS001XXX92SB	SCQS001XXX92SB	SCQS001XXX92SB	SCQS001XXX92SB	SCQS001XXX92SB
Associated Field Blank:									

Site: STAUFFER CHEMICAL
#: Level IV Validation

Table 3
Summary Table

SAMPLE LOCATION: SCBS008X1092XX			SOW-03/90 - 11 CROL											
LAB NUMBER:	1267005 #	SCBS009X0492XX	1267007 #	1265604 #	SCBS010X0492XX	1267006 #	SCBS011X1092XX	1265605 #	SCBS012X0692XX	1265601 #	SCBS013X0692XX	1265606 #	SCBS014X0492XX	1265607 #
DATE SAMPLED:	05/28/92	05/28/92	05/28/92	05/27/92	05/27/92	05/28/92	05/27/92	05/27/92	05/27/92	05/27/92	05/27/92	05/27/92	05/27/92	05/27/92
DATE EXTRACTED:	06/02/92	06/02/92	06/02/92	06/01/92	06/01/92	06/02/92	06/02/92	06/01/92	06/01/92	06/01/92	06/01/92	06/01/92	06/01/92	06/01/92
DATE ANALYZED:	06/19/92	06/19/92	06/19/92	06/22/92	06/22/92	06/19/92	06/19/92	06/22/92	06/22/92	06/19/92	06/19/92	06/22/92	06/22/92	06/23/92
ANALYTE														
Phenol	330	-	-	-	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethyl) ether	330	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Chlorophenol	330	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	330	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	330	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	330	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylphenol	330	-	-	-	-	-	-	-	-	-	-	-	-	-
2,2'-oxybis(1-Chloropropane)	330	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Methylphenol	330	-	-	-	-	-	-	-	-	-	-	-	-	-
N-Nitroso-di-n-propylamine	330	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachloroethane	330	-	-	-	440	-	-	-	-	-	-	-	-	-
Nitrobenzene	330	-	-	-	-	-	-	-	-	-	-	-	-	-
Isophorone	330	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Nitrophenol	330	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	330	-	-	-	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	330	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	330	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	330	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	330	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloroaniline	330	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	330	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloro-3-Methylphenol	330	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylnaphthalene	330	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	330	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	330	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	800	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Chloronaphthalene	330	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Nitroaniline	800	-	-	-	-	-	-	-	-	-	-	-	-	-
Dimethylphthalate	330	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	330	-	-	-	-	-	-	-	-	-	-	-	-	-
2,6-Dinitrotoluene	330	-	-	-	-	-	-	-	-	-	-	-	-	-

Site: STAUFFER CHEMICAL
#: Level IV Validation

Table 3
Summary Table

ANALYTE	SOW-03/90 - II CRQL	SCBS008X1092XX	SCBS009X0492XX	SCBS010X0492XX	SCBS011X1092XX	SCBS012X0692XX	SCBS013X0692XX	SCBS014X0492XX	SCBS014X0792XX
3-Nitroaniline	800	-	-	-	-	-	-	-	-
Acenaphthene	330	-	-	-	-	-	-	-	-
2,4-Dinitrophenol	800	-	-	-	-	-	-	-	-
4-Nitrophenol	800	-	-	-	-	-	-	-	-
Dibenzofuran	330	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	330	-	-	-	-	-	-	-	-
Diethylphthalate	330	-	-	-	-	-	-	-	-
4-Chlorophenyl-phenylether	330	-	-	-	-	-	-	-	-
Fluorene	330	-	-	-	-	-	-	-	-
4-Nitroaniline	800	-	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	800	-	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	330	-	-	-	-	-	-	-	-
4-Bromophenyl-phenylether	330	-	-	-	-	-	-	-	-
Hexachlorobenzene	330	-	-	-	-	-	-	-	-
Pentachlorophenol	800	-	-	-	-	-	-	-	-
Phenanthrene	330	560 J	-	800	440	480	540 J	14000	24000
Anthracene	330	-	-	-	-	-	-	2900	6200
Carbazole	330	-	-	-	-	-	-	-	-
Di-n-butylphthalate	330	-	-	-	-	-	-	-	-
Fluoranthene	330	970 J	-	540	520	-	690 J	6800	18000
Pyrene	330	1500 J	-	420	-	-	630 J	5200	18000
Butylbenzylphthalate	330	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	330	-	-	-	-	-	-	-	-
Benzo(a)Anthracene	330	530 J	-	-	-	-	-	5600	8600
Chrysene	330	760 J	-	480	-	640	-	6900	11000
Bis(2-Ethylhexyl)phthalate	330	-	-	-	-	-	-	-	-
Di-n-octylphthalate	330	-	-	-	-	-	-	-	-
Benzo(b)Fluoranthene	330	-	-	-	-	-	-	3000	5200
Benzo(k)Fluoranthene	330	-	-	-	-	-	-	2900	4900
Benzo(a)Pyrene	330	-	-	-	-	-	-	3600	7200
Indeno(1,2,3-c,d)Pyrene	330	-	-	-	-	-	-	1900	5800
Di-benz(a,h)Anthracene	330	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	330	-	-	-	-	-	-	-	-
Dilution Factor:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	4.00	8.00
Percent Solids:	71	76	84	88	77	77	77	74	79
Associated Method Blank:	F1371	F1371	H6344	F1371	H6344	H6344	H6344	H6344	H6344
Associated Equipment Blank:	SCQS001XXX92SB	SCQS001XXX92SB	SCQS001XXX92SB	SCQS001XXX92SB	SCQS001XXX92SB	SCQS001XXX92SB	SCQS001XXX92SB	SCQS001XXX92SB	SCQS001XXX92SB
Associated Field Blank:									

Site: STAUFFER CHEMICAL
#: Level IV Validation

Table 3
Summary Table

SAMPLE LOCATION: SCBS015X0692XX											
LAB NUMBER: 1265602 #											
DATE SAMPLED: 05/27/92											
DATE EXTRACTED: 06/01/92											
DATE ANALYZED: 06/22/92											
SCBS015X0892XX											
SCBS016X0492X0											
SCBS016X0492XX											
SCBS017X0292X0											
SCBS017X0292XX											
SCBS018X0392XX											
SCBS015X0692XX											
SCBS016X0492XX											
SCBS017X0292XX											
SCBS018X0392XX											
SCBS015X0692XX											
SCBS016X0492XX											
SCBS017X0292XX											
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SCBS018X0392XX											
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SCBS016X0492XX											
SCBS017X0292XX											
SCBS018X0392XX											
SCBS015X0692XX</											

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Table 1
Laboratory Report of Analysis

SAMPLE LOCATION: SCBS001X0492XX		SCBS001X0892XX		SCBS002X0292XX		SCBS002X0492XX		SCBS003X0492XX		SCBS004X0792XX		SCBS005X0292XX		SCBS008X1092XD	
LAB NUMBER: 1269710 #		1269709 #		1267002 #		1267003 #		1269713 #		1269707 #		1267001 #		1267004 #	
DATE SAMPLED: 05/29/92		05/29/92		05/28/92		05/28/92		05/29/92		05/29/92		05/28/92		05/28/92	
DATE EXTRACTED: 06/03/92		06/03/92		06/02/92		06/02/92		06/03/92		06/03/92		06/02/92		06/02/92	
DATE ANALYZED: 06/25/92		06/25/92		06/22/92		06/22/92		06/25/92		06/25/92		06/22/92		06/22/92	
SOW-03/90 - II CRQL															
ANALYTE															
alpha-BHC	1.7	2.1	U	2.1	U	6.1	U	8.7	U	2	U	1.9	U	1.9	U
beta-BHC	1.7	2.1	U	2.1	U	6.1	U	8.7	U	2	U	1.9	U	1.9	U
delta-BHC	1.7	2.1	U	2.1	U	6.1	U	8.7	U	2	U	1.9	U	1.9	U
gamma-BHC (Lindane)	1.7	2.1	U	2.1	U	6.1	U	8.7	U	2	U	1.9	U	1.9	U
Heptachlor	1.7	2.1	U	2.1	U	6.1	U	8.7	U	2	U	1.9	U	1.9	U
Aldrin	1.7	2.1	U	2.1	U	6.1	U	8.7	U	2	U	1.9	U	1.9	U
Heptachlor Epoxide	1.7	2.1	U	2.1	U	6.1	U	8.7	U	2	U	1.9	U	1.9	U
Endosulfan I	1.7	2.1	U	2.1	U	6.1	U	8.7	U	2	U	1.9	U	1.9	U
Dieldrin	3.3	4	U	4	U	12	U	17	U	4	U	3.7	U	3.8	U
4,4'-DDE	3.3	4	U	4	U	12	U	5.6 JP	JP	4	U	3.7	U	3.8	U
Endrin	3.3	4	U	4	U	12	U	7.2 JP	JP	4	U	3.7	U	3.8	U
Endosulfan II	3.3	4	U	4	U	12	U	17	U	4	U	3.7	U	3.8	U
4,4'-DDD	3.3	4	U	4	U	5.3 JP	JP	17	U	4	U	3.7	U	3.8	U
Endrin Aldehyde	3.3	4	U	4	U	4.3 J	J	17	U	4	U	3.7	U	3.8	U
Endosulfan Sulfate	3.3	4	U	4	U	12	U	17	U	4	U	3.7	U	3.8	U
4,4'-DDT	3.3	4	U	4	U	6.7 JP	JP	11 J	J	4	U	3.7	U	3.8	U
Methoxychlor	17	21	U	21	U	61	U	87	U	20	U	19	U	19	U
Endrin Ketone	3.3	4	U	4	U	12	U	17	U	4	U	3.7	U	3.8	U
alpha-Chlordane	1.7	2.1	U	2.1	U	6.1	U	8.7	U	2	U	1.9	U	1.9	U
gamma-Chlordane	1.7	2.1	U	2.1	U	6.1	U	8.7	U	2	U	1.9	U	1.9	U
Toxaphene	170	210	U	210	U	610	U	870	U	200	U	190	U	190	U
Aroclor-1016	33	40	U	40	U	120	U	170	U	40	U	37	U	38	U
Aroclor-1221	67	82	U	82	U	240	U	340	U	81	U	76	U	76	U
Aroclor-1232	33	40	U	40	U	120	U	170	U	40	U	37	U	38	U
Aroclor-1242	33	40	U	40	U	120	U	170	U	40	U	37	U	38	U
Aroclor-1248	33	40	U	40	U	120	U	170	U	40	U	37	U	38	U
Aroclor-1254	33	40	U	40	U	120	U	170	U	40	U	37	U	38	U
Aroclor-1260	33	40	U	40	U	120	U	170	U	40	U	37	U	38	U
Dilution Factor:	1.00	1.00		1.00		3.00		4.00		1.00		1.00		1.00	
Percent Solids:	82	82		82		84		78		83		88		88	
Associated Method Blank:	PBLK473	PBLK473		PBLK473		PBSR70608		PBSR70608		PBLK473		PBLK473		PBSR70608	
Associated Equipment Blank:	SCQS001XXX92SB	SCQS001XXX92SB		SCQS001XXX92SB		SCQS001XXX92SB		SCQS001XXX92SB		SCQS001XXX92SB		SCQS001XXX92SB		SCQS001XXX92SB	
Associated Field Blank:	SCQS001XXX92SB	SCQS001XXX92SB		SCQS001XXX92SB		SCQS001XXX92SB		SCQS001XXX92SB		SCQS001XXX92SB		SCQS001XXX92SB		SCQS001XXX92SB	

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#: Level IV Validation

Table 1
Laboratory Report of Analysis

SAMPLE LOCATION: SCBS008X1092XX		SCBS009X0492XX		SCBS010X0492XX		SCBS011X1092XX		SCBS012X0692XX		SCBS013X0692XX		SCBS014X0492XX					
LAB NUMBER: 1267005 #		1267007 #		1265604 #		1267006 #		1265605 #		1265601 #		1265606 #					
DATE SAMPLED: 05/28/92		05/28/92		05/27/92		05/28/92		05/27/92		05/27/92		05/27/92					
DATE EXTRACTED: 06/02/92		06/02/92		06/01/92		06/02/92		06/01/92		06/01/92		06/01/92					
DATE ANALYZED: 06/22/92		06/22/92		06/16/92		06/22/92		06/24/92		06/15/92		06/17/92					
ANALYTE		SOM-03/90 - II CRQL															
alpha-BHC	1.7	7.2	U	18	U	110	U	2	U	5.8	U	2.2	U	6.6	U	7	U
beta-BHC	1.7	14	P	18	U	110	U	2	U	5.8	U	2.2	U	6.6	U	7	U
delta-BHC	1.7	7.2	U	18	U	110	U	2	U	4.4	J	2.2	U	6.6	U	7	U
gamma-BHC (Lindane)	1.7	7.2	U	18	U	110	U	2	U	5.8	U	2.2	U	6.6	U	7	U
Heptachlor	1.7	3.1	JP	68	P	110	U	2	U	1.9	JP	2.2	U	6.6	U	7	U
Aldrin	1.7	7.2	U	18	U	110	U	27	P	5.8	U	2.2	U	6.6	U	7	U
Heptachlor Epoxide	1.7	7.2	U	18	U	110	U	29	P	5.8	U	2.3	P	6.6	U	7	U
Endosulfan I	1.7	7.2	U	35	U	110	U	24	P	5.8	U	2.2	U	6.6	U	7	U
Dieldrin	3.3	14	U	35	U	220	U	3.9	U	11	U	8.9	U	13	U	14	U
4,4'-DDE	3.3	14	U	240	U	220	U	3.9	U	11	U	4.3	U	13	U	11	JP
Endrin	3.3	16	P	28	JP	220	U	3.9	U	11	U	4.3	U	13	U	14	U
Endosulfan II	3.3	11	J	35	U	220	U	3.9	U	11	U	5	P	13	U	14	U
4,4'-DDD	3.3	11	JP	35	U	220	U	3.9	U	11	U	4.3	U	13	U	14	U
Endrin Aldehyde	3.3	11	JP	35	U	220	U	3.9	U	11	U	4.3	U	13	U	14	U
Endosulfan Sulfate	3.3	14	U	35	U	220	U	3.9	U	11	U	4.3	U	13	U	14	U
4,4'-DDT	3.3	7.1	JP	35	U	220	U	3.9	U	11	U	4.3	U	13	U	14	U
Methoxychlor	17	23	JP	180	U	1100	U	20	U	45	J	22	U	66	U	70	U
Endrin Ketone	3.3	14	U	35	U	220	U	3.9	U	11	U	4.3	U	13	U	14	U
alpha-Chlordane	1.7	7.2	U	18	U	110	U	2	U	5.8	U	2.2	U	6.6	U	7	U
gamma-Chlordane	1.7	16	P	170	U	110	U	26	P	5.8	P	2.2	U	2.4	JP	7	U
Toxaphene	170	720	U	1800	U	11000	U	200	U	580	U	220	U	660	U	700	U
Aroclor-1016	33	140	U	350	U	2200	U	39	U	110	U	43	U	130	U	140	U
Aroclor-1221	67	280	U	710	U	4400	U	80	U	230	U	87	U	260	U	280	U
Aroclor-1232	33	140	U	350	U	2200	U	39	U	110	U	43	U	130	U	140	U
Aroclor-1242	33	140	U	350	U	2200	U	39	U	110	U	43	U	130	U	140	U
Aroclor-1248	33	140	U	350	U	14000	P	39	U	110	U	43	U	130	U	140	U
Aroclor-1254	33	140	U	350	U	2200	U	39	U	110	U	43	U	130	U	140	U
Aroclor-1260	33	140	U	350	U	12000	P	39	U	110	U	270	P	130	U	140	U

Dilution Factor: 3.00
Percent Solids: 71Associated Method Blank: PBLK451
Associated Equipment Blank: SCQS001XXX92SB
Associated Field Blank: SCQS001XXX92SBSite: STAUFFER CHEMICAL
#: Level IV Validation

Table 1
Laboratory Report of Analysis

SAMPLE LOCATION:	SCBS014X0792XX	SCBS015X0692XX	SCBS015X0892XX	SCBS016X0492XD	SCBS016X0492XX	SCBS017X0292XD	SCBS017X0292XX	SCBS018X0392XX
LAB NUMBER:	1265607 #	1265602 #	1265603 #	1269702 #	1269701 #	1269706 #	1269705 #	1269708 #
DATE SAMPLED:	05/27/92	05/27/92	05/27/92	05/29/92	05/29/92	05/29/92	05/29/92	05/29/92
DATE EXTRACTED:	06/01/92	06/01/92	06/01/92	06/03/92	06/03/92	06/03/92	06/03/92	06/03/92
DATE ANALYZED:	06/24/92	06/15/92	06/15/92	06/24/92	06/24/92	06/25/92	06/25/92	06/25/92
ANALYTE	SOW-03/90 - I1 CRQL							
alpha-BHC	1.7	1.7	2.2 U	2.2 U	13 U	12 U	1.9 U	2.2 U
beta-BHC	1.7	1.7	2.2 U	2.2 U	13 U	12 U	1.9 U	2.2 U
delta-BHC	1.7	1.7	2.2 U	2.2 U	13 U	12 U	1.9 U	2.2 U
gamma-BHC (Lindane)	1.7	1.7	2.2 U	2.2 U	8.5 J	8.9 JP	1.9 U	2.2 U
Heptachlor	1.7	1.7	2.2 U	2.2 U	13 U	12 U	1.9 U	2.2 U
Aldrin	1.7	28 P	2.2 U	2.2 U	7.4 JP	8.3 J	1.9 U	2.2 U
Heptachlor Epoxide	1.7	8.6 U	2.2 U	2.2 U	13 U	2.4 JP	1.9 U	2.2 U
Endosulfan I	1.7	8.6 U	2.2 U	2.2 U	13 U	12 U	1.9 U	2.2 U
Dieldrin	3.3	17 U	4.2 U	4.3 U	25 U	23 U	3.7 U	4.2 U
4,4'-DDE	3.3	17 U	4.2 U	4.3 U	9.4 JP	23 U	3.7 U	4.2 U
Endrin	3.3	17 U	4.2 U	4.3 U	11 JP	23 U	3.7 U	4.2 U
Endosulfan II	3.3	17 U	4.2 U	4.3 U	5.5 JP	8.4 JP	3.7 U	4.2 U
4,4'-DDD	3.3	17 U	4.2 U	4.3 U	25 U	23 U	3.7 U	4.2 U
Endrin Aldehyde	3.3	17 U	4.2 U	4.3 U	25 U	23 U	3.8 U	4.2 U
Endosulfan Sulfate	3.3	17 U	4.2 U	4.3 U	25 U	23 U	3.7 U	4.2 U
4,4'-DDT	3.3	17 U	4.2 U	4.3 U	25 U	23 U	3.7 U	4.2 U
Methoxychlor	17	86 U	22 U	22 U	130 U	24 JP	19 U	22 U
Endrin Ketone	3.3	17 U	4.2 U	4.3 U	25 U	23 U	3.7 U	4.2 U
alpha-Chlordane	1.7	8.6 U	2.2 U	2.2 U	13 U	3.6 JP	1.9 U	2.2 U
gamma-Chlordane	1.7	8.6 U	2.2 U	2.2 U	13 U	12 U	1.9 U	2.2 U
Toxaphene	170	860 U	220 U	220 U	1300 U	1200 U	190 U	220 U
Aroclor-1016	33	42 U	43 U	43 U	250 U	230 U	37 U	42 U
Aroclor-1221	67	340 U	85 U	87 U	500 U	470 U	76 U	85 U
Aroclor-1232	33	170 U	42 U	43 U	250 U	230 U	37 U	42 U
Aroclor-1242	33	170 U	42 U	43 U	250 U	230 U	37 U	42 U
Aroclor-1248	33	170 U	42 U	43 U	250 U	230 U	37 U	42 U
Aroclor-1254	33	170 U	42 U	43 U	250 U	230 U	37 U	42 U
Aroclor-1260	33	170 U	42 U	43 U	250 U	230 U	37 U	42 U
Dilution Factor:	4.00	1.00	1.00	5.00	5.00	5.00	1.00	1.00
Percent Solids:	79	79	77	67	71	85	88	79
Associated Method Blank:	PBLK451	PBLK449	PBLK449	PBLK473	PBLK473	PBLK473	PBLK473	PBLK473
Associated Equipment Blank:	SCQS001XXX92SB	SCQS001XXX92SB	SCQS001XXX92SB	SCQS001XXX92SB	SCQS001XXX92SB	SCQS001XXX92SB	SCQS001XXX92SB	SCQS001XXX92SB
Associated Field Blank:								

Site: STAUFFER CHEMICAL
#: Level IV Validation

Table 2
Validation / Summary Table

SAMPLE LOCATION:	SCBS001X0492XX	SCBS001X0892XX	SCBS002X0292XX	SCBS002X0492XX	SCBS003X0492XX	SCBS004X0792XX	SCBS005X0292XX	SCBS008X1092XD
LAB NUMBER:	1269710 #	1269709 #	1267002 #	1267003 #	1269713 #	1269707 #	1267001 #	1267004 #
DATE SAMPLED:	05/29/92	05/29/92	05/28/92	05/28/92	05/29/92	05/29/92	05/28/92	05/28/92
DATE EXTRACTED:	06/03/92	06/03/92	06/02/92	06/02/92	06/03/92	06/03/92	06/02/92	06/02/92
DATE ANALYZED:	06/25/92	06/25/92	06/22/92	06/22/92	06/25/92	06/25/92	06/22/92	06/22/92

ANALYTE SOW-03/90 - II CRQL

alpha-BHC	1.7	2.1	6.1	8.7	2	1.9	1.9	2.2
beta-BHC	1.7	2.1	6.1	8.7	2	1.9	1.9	2.2
delta-BHC	1.7	2.1	6.1	8.7	2	1.9	1.9	2.2
gamma-BHC (Lindane)	1.7	2.1	6.1	8.7	2	1.9	1.9	2.2
Heptachlor	1.7	2.1	6.1	8.7	2	1.9	1.9	2.2
Aldrin	1.7	2.1	6.1	8.7	2	1.9	1.9	2.2
Heptachlor Epoxide	1.7	2.1	6.1	8.7	2	1.9	1.9	2.2
Endosulfan I	1.7	2.1	6.1	8.7	2	1.9	1.9	2.2
Dieldrin	3.3	4	12	17	4	3.7	3.8	4.3
4,4'-DDE	3.3	4	12	5.6 JJ	4	3.7	3.8	4.3
Endrin	3.3	4	12	7.2 JJ	4	3.7	3.8	4.3
Endosulfan II	3.3	4	12	17	4	3.7	3.8	4.3
4,4'-DDD	3.3	4	5.3 JJ	17	4	3.7	3.8	4.3
Endrin Aldehyde	3.3	4	4.3 JJ	17	4	3.7	3.8	4.3
Endosulfan Sulfate	3.3	4	12	17	4	3.7	3.8	4.3
4,4'-DDT	3.3	4	6.7 JJ	11 JJ	4	3.7	3.8	4.3
Methoxychlor	17	21	61	87	20	19	19	22
Endrin Ketone	3.3	4	12	17	4	3.7	3.8	4.3
alpha-Chlordane	1.7	2.1	6.1	8.7	2	1.9	1.9	2.2
gamma-Chlordane	1.7	2.1	6.1	8.7	2	1.9	1.9	2.2
Toxaphene	170	210	610	870	200	190	190	220
Aroclor-1016	33	40	120	170	40	37	38	43
Aroclor-1221	67	82	240	340	81	76	76	87
Aroclor-1232	33	40	120	170	40	37	38	43
Aroclor-1242	33	40	120	170	40	37	38	43
Aroclor-1248	33	40	120	170	40	37	38	43
Aroclor-1254	33	40	120	170	40	37	38	43
Aroclor-1260	33	40	120	170	40	37	38	43
Dilution Factor:	1.00	1.00	3.00	4.00	1.00	1.00	1.00	1.00
Percent Solids:	82	82	84	78	83	88	88	77

Associated Method Blank:	PBLK473	PBSR7060B	PBLK473	PBSR7060A	PBSR7060B
Associated Equipment Blank:	SCQS001XXX92S8	SCQS001XXX92S8	SCQS001XXX92S8	SCQS001XXX92S8	SCQS001XXX92S8
Associated Field Blank:					

Site: STAUFFER CHEMICAL
#: Level IV Validation

Table 2
Validation / Summary Table

ANALYTE	SOM-03/90 - II CRQL	SCBS008X1092XX	SCBS009X0492XX	SCBS010X0492XX	SCBS011X1092XX	SCBS012X0692XX	SCBS013X0692XX	SCBS014X0492XX	SCBS014X0792XX
alpha-BHC	1.7	7.2 U	18 U	2 U	5.8 U	2.2 U	6.6 U	7 U	8.6 UR
beta-BHC	1.7	14 J	18 U	2 U	5.8 U	2.2 U	6.6 U	7 U	8.6 UR
delta-BHC	1.7	7.2 U	18 U	2 U	5.8 U	2.2 U	6.6 U	7 U	8.6 UR
gamma-BHC (Lindane)	1.7	7.2 U	18 U	2 U	5.8 U	2.2 U	6.6 U	7 U	8.6 UR
Heptachlor	1.7	7.2 U	68 J	2 U	5.8 U	2.2 U	6.6 U	7 U	28 J
Aldrin	1.7	7.2 U	18 U	27 J	5.8 U	2.2 U	6.6 U	7 U	8.6 UR
Heptachlor Epoxide	1.7	7.2 U	18 U	29 J	5.8 U	2.2 U	6.6 U	7 U	8.6 UR
Endosulfan I	1.7	7.2 U	35 U	24 J	5.8 U	2.2 U	6.6 U	7 U	8.6 UR
Dieldrin	3.3	14 U	35 U	3.9 U	11 U	8.9 U	13 U	14 U	17 UR
4,4'-DDE	3.3	14 U	240 U	3.9 U	11 U	4.3 U	13 U	11 JJ	17 UR
Endrin	3.3	16 J	28 JJ	3.9 U	11 U	4.3 U	13 U	14 U	17 UR
Endosulfan II	3.3	11 JJ	35 U	3.9 U	11 U	5 J	13 U	14 U	17 UR
4,4'-DDD	3.3	11 JJ	35 U	3.9 U	11 U	4.3 U	13 U	14 U	17 UR
Endrin Aldehyde	3.3	11 JJ	35 U	3.9 U	11 U	4.3 U	13 U	14 U	17 UR
Endosulfan Sulfate	3.3	14 U	35 U	3.9 U	11 U	4.3 U	13 U	14 U	17 UR
4,4'-DDT	3.3	7.1 JJ	35 U	3.9 U	11 U	4.3 U	13 U	14 U	17 UR
Methoxychlor	17	23 JJ	180 U	20 U	45 JJ	22 U	66 U	70 U	86 UR
Endrin Ketone	3.3	14 U	35 U	3.9 U	11 U	4.3 U	13 U	14 U	17 UR
alpha-Chlordane	1.7	7.2 U	18 U	2 U	5.8 U	2.2 U	6.6 U	7 U	8.6 UR
gamma-Chlordane	1.7	16 J	170 U	26 J	5.8 J	2.2 U	2.4 JJ	7 U	8.6 UR
Toxaphene	170	720 U	1800 U	200 U	580 U	220 U	660 U	700 U	860 UR
Aroclor-1016	33	140 U	350 U	39 U	110 U	43 U	130 U	140 U	170 UR
Aroclor-1221	67	280 U	710 U	80 U	230 U	87 U	260 U	280 U	340 UR
Aroclor-1232	33	140 U	350 U	39 U	110 U	43 U	130 U	140 U	170 UR
Aroclor-1242	33	140 U	350 U	39 U	110 U	43 U	130 U	140 U	170 UR
Aroclor-1248	33	140 U	14000 DJ	39 U	110 U	43 U	130 U	140 U	170 UR
Aroclor-1254	33	140 U	350 U	39 U	110 U	43 U	130 U	140 U	170 UR
Aroclor-1260	33	140 U	12000 DJ	39 U	110 U	270 J	130 U	140 U	170 UR
Dilution Factor:	3.00	71	8.00	1.00	3.00	1.00	3.00	3.00	4.00
Percent Solids:			76	84	88	77	77	73	79

Associated Method Blank: PBLK451 PBLK451 PBLK451 PBLK451 PBLK451 PBLK451 PBLK451 PBLK451 PBLK451 PBLK451
Associated Equipment Blank: SCQS001XXX92SB SCQS001XXX92SB SCQS001XXX92SB SCQS001XXX92SB SCQS001XXX92SB SCQS001XXX92SB SCQS001XXX92SB SCQS001XXX92SB SCQS001XXX92SB SCQS001XXX92SB
Associated Field Blank:

Site: STAUFFER CHEMICAL
#: Level IV Validation

Table 2
Validation / Summary Table

SAMPLE LOCATION: SCBS015X0692XX		SCBS015X0892XX	SCBS016X0492XX	SCBS017X0292XX	SCBS018X0392XX
LAB NUMBER:	1265602 #	1265603 #	1269702 #	1269701 #	1269705 #
DATE SAMPLED:	05/27/92	05/27/92	05/29/92	05/29/92	05/29/92
DATE EXTRACTED:	06/01/92	06/01/92	06/03/92	06/03/92	06/03/92
DATE ANALYZED:	06/15/92	06/15/92	06/24/92	06/24/92	06/25/92
SOW-03/90 - II CRQL					
ANALYTE	1.7	2.2	U	2.2	U
alpha-BHC	1.7	2.2	U	13	U
beta-BHC	1.7	2.2	U	13	U
delta-BHC	1.7	2.2	U	13	U
gamma-BHC (Lindane)	1.7	2.2	U	8.5 JJ	8.9 JJ
Heptachlor	1.7	2.2	U	13	U
Aldrin	1.7	2.2	U	7.4 JJ	8.3 JJ
Heptachlor Epoxide	1.7	2.2	U	13	U
Endosulfan I	1.7	2.2	U	13	U
Dieldrin	3.3	4.2	U	25	U
4,4'-DDE	3.3	4.2	U	9.4 JJ	23
Endrin	3.3	4.2	U	11 JJ	23
Endosulfan II	3.3	4.2	U	5.5 JJ	8.4 JJ
4,4'-DDD	3.3	4.2	U	25	U
Endrin Aldehyde	3.3	4.2	U	25	U
Endosulfan Sulfate	3.3	4.2	U	25	U
4,4'-DDT	3.3	4.2	U	25	U
Methoxychlor	17	22	U	130	U
Endrin Ketone	3.3	4.2	U	25	U
alpha-Chlordane	1.7	2.2	U	13	U
gamma-Chlordane	1.7	2.2	U	13	U
Toxaphene	170	220	U	1300	U
Aroclor-1016	33	42	U	250	U
Aroclor-1221	67	85	U	500	U
Aroclor-1232	33	42	U	250	U
Aroclor-1242	33	42	U	250	U
Aroclor-1248	33	42	U	250	U
Aroclor-1254	33	42	U	250	U
Aroclor-1260	33	42	U	250	U
Dilution Factor:					
Percent Solids:					
Associated Method Blank:					
Associated Equipment Blank:					
Associated Field Blank:					

Site: STAUFFER CHEMICAL
#: Level IV Validation

Table 3
Summary Table

SAMPLE LOCATION: SCBS001X0492XX		SCBS001X0892XX	SCBS002X0292XX	SCBS002X0492XX	SCBS003X0492XX	SCBS004X0792XX	SCBS005X0292XX	SCBS008X1092XX
LAB NUMBER:	1269710 #	1269709 #	1267002 #	1267003 #	1269713 #	1269707 #	1267001 #	1267004 #
DATE SAMPLED:	05/29/92	05/29/92	05/28/92	05/28/92	05/29/92	05/29/92	05/28/92	05/28/92
DATE EXTRACTED:	06/03/92	06/03/92	06/02/92	06/02/92	06/03/92	06/03/92	06/02/92	06/02/92
DATE ANALYZED:	06/25/92	06/25/92	06/22/92	06/22/92	06/25/92	06/25/92	06/22/92	06/22/92
ANALYTE	SOW-03/90 - 11 CRQL							
alpha-BHC	1.7	-	-	-	-	-	-	-
beta-BHC	1.7	-	-	-	-	-	-	-
delta-BHC	1.7	-	-	-	-	-	-	-
gamma-BHC (Lindane)	1.7	-	-	-	-	-	-	-
Heptachlor	1.7	-	-	-	-	-	-	-
Aldrin	1.7	-	-	-	-	-	-	-
Heptachlor Epoxide	1.7	-	-	-	-	-	-	-
Endosulfan I	1.7	-	-	-	-	-	-	-
Dieldrin	3.3	-	-	-	-	-	-	-
4,4'-DDE	3.3	-	-	-	-	-	-	-
Endrin	3.3	-	-	-	-	-	-	-
Endosulfan II	3.3	-	-	-	-	-	-	-
4,4'-DDD	3.3	-	-	-	-	-	-	-
Endrin Aldehyde	3.3	-	-	-	-	-	-	-
Endosulfan Sulfate	3.3	-	-	-	-	-	-	-
4,4'-DDT	3.3	-	-	-	-	-	-	-
Methoxychlor	17	-	-	-	-	-	-	-
Endrin Ketone	3.3	-	-	-	-	-	-	-
alpha-Chlordane	1.7	-	-	-	-	-	-	-
gamma-Chlordane	1.7	-	-	-	-	-	-	-
Toxaphene	170	-	-	-	-	-	-	-
Aroclor-1016	33	-	-	-	-	-	-	-
Aroclor-1221	67	-	-	-	-	-	-	-
Aroclor-1232	33	-	-	-	-	-	-	-
Aroclor-1242	33	-	-	-	-	-	-	-
Aroclor-1248	33	-	-	-	-	-	-	-
Aroclor-1254	33	-	-	-	-	-	-	-
Aroclor-1260	33	-	-	-	-	-	-	-
Dilution Factor:	1.00	1.00	3.00	4.00	1.00	1.00	1.00	1.00
Percent Solids:	82	82	84	78	83	88	88	77
Associated Method Blank:	PBLK473	PBLK473	PBSR7060B	PBSR7060B	PBLK473	PBLK473	PBSR7060A	PBSR7060B
Associated Equipment Blank:	SCQS001XXX92SB	SCQS001XXX92SB	SCQS001XXX92SB	SCQS001XXX92SB	SCQS001XXX92SB	SCQS001XXX92SB	SCQS001XXX92SB	SCQS001XXX92SB
Associated Field Blank:								

Site: STAUFFER CHEMICAL
#: Level IV Validation

Table 3
Summary Table

SOM-03/90 - II CRQL									
ANALYTE	SAMPLE LOCATION: SCBS008X1092XX	LAB NUMBER: 1267005 #	SCBS009X0492XX	SCBS010X0492XX	SCBS011X1092XX	SCBS012X0692XX	SCBS013X0692XX	SCBS014X0492XX	SCBS014X0792XX
alpha-BHC	1.7	-	-	-	-	-	-	-	1265607 #
beta-BHC	1.7	14 J	-	-	-	-	-	-	05/27/92
delta-BHC	1.7	-	-	-	-	-	-	-	06/01/92
gamma-BHC (Lindane)	1.7	-	-	-	-	-	-	-	06/24/92
Heptachlor	1.7	-	68 J	-	-	-	-	-	28
Aldrin	1.7	-	-	27 J	-	-	-	-	J
Heptachlor Epoxide	1.7	-	-	29 J	-	2.3 J	-	-	R
Endosulfan I	1.7	-	-	24 J	-	8.9	-	-	R
Dieldrin	3.3	-	35	-	-	-	-	-	R
4,4'-DDE	3.3	-	240	-	-	-	-	-	R
Endrin	3.3	16 J	-	-	-	-	-	-	R
Endosulfan II	3.3	-	-	-	-	5 J	-	-	R
4,4'-DDD	3.3	-	-	-	-	-	-	-	R
Endrin Aldehyde	3.3	-	-	-	-	-	-	-	R
Endosulfan Sulfate	3.3	-	-	-	-	-	-	-	R
4,4'-DDT	3.3	-	-	-	-	-	-	-	R
Methoxychlor	17	-	-	-	-	-	-	-	R
Endrin Ketone	3.3	-	-	-	-	-	-	-	R
alpha-Chlordane	1.7	-	-	-	-	-	-	-	R
gamma-Chlordane	1.7	16 J	170	26 J	5.8 J	-	-	-	R
Toxaphene	170	-	-	-	-	-	-	-	R
Aroclor-1016	33	-	-	-	-	-	-	-	R
Aroclor-1221	67	-	-	-	-	-	-	-	R
Aroclor-1232	33	-	-	-	-	-	-	-	R
Aroclor-1242	33	-	-	-	-	-	-	-	R
Aroclor-1248	33	-	14000 DJ	-	-	-	-	-	R
Aroclor-1254	33	-	-	-	-	-	-	-	R
Aroclor-1260	33	-	12000 DJ	-	-	270 J	-	-	R
Dilution Factor:	3.00	71	8.00	1.00	3.00	1.00	3.00	3.00	4.00
Percent Solids:	71	76	76	84	88	77	77	73	79

Associated Method Blank: PBLK451 PBLK451 PBLK451 PBLK451 PBLK451 PBLK451 PBLK451 PBLK451 PBLK451 PBLK451
Associated Equipment Blank: SCQS001XXX92SB SCQS001XXX92SB SCQS001XXX92SB SCQS001XXX92SB SCQS001XXX92SB SCQS001XXX92SB SCQS001XXX92SB SCQS001XXX92SB SCQS001XXX92SB SCQS001XXX92SB
Associated Field Blank:

Site: STAUFFER CHEMICAL
#: Level IV Validation

Table 3
Summary Table

SAMPLE LOCATION: SCBS015X0692XX											
LAB NUMBER: 1265602 #											
DATE SAMPLED: 05/27/92											
DATE EXTRACTED: 06/01/92											
DATE ANALYZED: 06/15/92											
SOW-03/90 - II CRQL											
ANALYTE											
alpha-BHC	1.7	-	-	-	-	-	-	-	-	-	-
beta-BHC	1.7	-	-	-	-	-	-	-	-	-	-
delta-BHC	1.7	-	-	-	-	-	-	-	-	-	-
gamma-BHC (Lindane)	1.7	-	-	-	-	-	-	-	-	-	-
Heptachlor	1.7	-	-	-	-	-	-	-	-	-	-
Aldrin	1.7	-	-	-	-	-	-	-	-	-	-
Heptachlor Epoxide	1.7	-	-	-	-	-	-	-	-	-	-
Endosulfan I	1.7	-	-	-	-	-	-	-	-	-	-
Diieldrin	3.3	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	3.3	-	-	-	-	-	-	-	-	-	-
Endrin	3.3	-	-	-	-	-	-	-	-	-	-
Endosulfan II	3.3	-	-	-	-	-	-	-	-	-	-
4,4'-DDD	3.3	-	-	-	-	-	-	-	-	-	-
Endrin Aldehyde	3.3	-	-	-	-	-	-	-	-	-	-
Endosulfan Sulfate	3.3	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	3.3	-	-	-	-	-	-	-	-	-	-
Methoxychlor	17	-	-	-	-	-	-	-	-	-	-
Endrin Ketone	3.3	-	-	-	-	-	-	-	-	-	-
alpha-Chlordane	1.7	-	-	-	-	-	-	-	-	-	-
gamma-Chlordane	1.7	-	-	-	-	-	-	-	-	-	-
Toxaphene	170	-	-	-	-	-	-	-	-	-	-
Aroclor-1016	33	-	-	-	-	-	-	-	-	-	-
Aroclor-1221	67	-	-	-	-	-	-	-	-	-	-
Aroclor-1232	33	-	-	-	-	-	-	-	-	-	-
Aroclor-1242	33	-	-	-	-	-	-	-	-	-	-
Aroclor-1248	33	-	-	-	-	-	-	-	-	-	-
Aroclor-1254	33	-	-	-	-	-	-	-	-	-	-
Aroclor-1260	33	-	-	-	-	-	-	-	-	-	-
Dilution Factor: 1.00											
Percent Solids: 79											
Associated Method Blank: PBLK449											
Associated Equipment Blank: SCQS001XXX92SB											
Associated Field Blank: SCQS001XXX92SB											
SCBS015X0692XX											
SCBS015X0892XX											
SCBS016X0492XD											
SCBS016X0492XX											
SCBS017X0292XD											
SCBS017X0292XX											
SCBS018X0392XX											
SCBS019X0392XX											
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SCBS0											

Table 1
Laboratory Report of Analysis

SAMPLE LOCATION: SCBS001X0492XX SCBS001X0892XX SCBS002X0292XX SCBS002X0492XX SCBS003X0492XX SCBS004X0792XX SCBS005X0292XX SCBS008X1092XD
LAB NUMBER: T69710 # T69709 # T67002 # T67003 # T69713 # T69707 # T67001 # T67004 #
DATE SAMPLED: 05/29/92 05/29/92 05/28/92 05/28/92 05/29/92 05/29/92 05/28/92 05/28/92

ANALYTE	SOM-03/90 - II CRQL	40	12000	34000	45800	21200	11100	13400	13800
Aluminum	40	20500	12000	34000	45800	21200	11100	13400	13800
Antimony	12	31.9	34.2	416	945	20.0	14.6	9.7	91.7
Arsenic	2	7.6	14.2	5.9	6.2	3.6	2.6	4.4	9.8
Barium	40	97.4	104	69.7	72.8	152	97.8	84.4	182
Beryllium	1	0.93	0.60	0.53	0.34	1.0	0.51	0.66	0.68
Cadmium	1	0.93	0.93	0.91	0.98	0.92	0.86	0.87	0.98
Calcium	1000	13300	53500	15700	13600	8980	53600	4060	41300
Chromium	2	26.0	19.3	73.7	78.5	25.8	13.7	17.8	30.1
Cobalt	10	13.9	11.3	12.3	20.8	14.8	8.9	9.1	13.5
Copper	5	319	242	9640	20200	14.0	29.1	9.4	617
Iron	20	27600	19000	23000	16800	29600	19400	22400	27200
Lead	0.6	94.0	120	439	396	11.6	4.1	14.0	107
Magnesium	1000	5970	12800	4370	3030	5660	6580	4390	9810
Manganese	3	1050	797	492	483	1390	913	2280	714
Mercury	0.04	0.12	0.12	0.12	0.25	0.12	0.11	0.11	0.15
Nickel	8	89.0	21.2	655	1070	24.1	12.7	14.1	42.0
Potassium	1000	2640	2110	1430	829	2280	2400	1390	2590
Selenium	1	1.2	1.2	1.2	1.3	1.2	1.1	1.1	1.3
Silver	2	2.4	2.4	5.7	10.6	2.4	2.2	2.3	2.6
Sodium	1000	271	1220	137	124	139	111	110	2130
Thallium	2	1.2	1.2	1.2	1.3	1.2	1.1	1.1	1.3
Vanadium	10	44.5	29.4	34.7	28.4	40.5	27.0	28.4	29.7
Zinc	4	180	63.8	392	709	93.4	35.7	100	207
Cyanide	2	0.66	0.54	0.53	0.62	0.52	0.48	0.62	0.49

Percent Solids: 82 84 78 83 88 88 88 78

Associated Method Blank: PBSC641 PBSC641 PBSC641 PBSC641 PBSC641 PBSC641 PBSC641 PBSC641
Associated Equipment Blank: SCQS001XXX92SB SCQS001XXX92SB SCQS001XXX92SB SCQS001XXX92SB SCQS001XXX92SB SCQS001XXX92SB SCQS001XXX92SB SCQS001XXX92SB
Associated Field Blank: SCQS001XXX92SB SCQS001XXX92SB SCQS001XXX92SB SCQS001XXX92SB SCQS001XXX92SB SCQS001XXX92SB SCQS001XXX92SB SCQS001XXX92SB

Site: STAUFFER CHEMICAL
#: Level IV Validation

Table 1
Laboratory Report of Analysis

SAMPLE LOCATION: SCBS008X1092XX SCBS009X0492XX SCBS010X0492XX SCBS011X1092XX SCBS012X0692XX SCBS013X0692XX SCBS014X0492XX SCBS014X0792XX
LAB NUMBER: T67005 # T67007 # 265604 # 265606 # 265601 # 265606 # 265607 #
DATE SAMPLED: 05/28/92 05/28/92 05/27/92 05/28/92 05/27/92 05/27/92 05/27/92 05/27/92

ANALYTE	SOW-03/90 - II CRQL	17900	26300	16000	10800	16500	22200	3220	17300
Aluminum	40	17900	26300	16000	10800	16500	22200	3220	17300
Antimony	12	156	240	65.4	25.1	25.2	17.9	18.7	86.9
Arsenic	2	12.8	9.4	17.1	28.9	8.7	13.3	6.7	14.9
Barium	40	194	101	159	89.2	115	241	40.1	163
Beryllium	1	0.81	0.36	0.80	0.31	0.87	1.1	0.35	0.33
Cadmium	1	1.1	1.0	15.6	0.86	0.99	0.99	1.0	0.96
Calcium	1000	45200	89800	45300	39800	39400	4000	259000	43600
Chromium	2	64.9	46.3	28.8	20.7	127	55.1	10.4	44.3
Cobalt	10	14.4	7.4	13.2	9.1	12.6	14.3	6.4	33.0
Copper	5	1880	2910	158	1050	756	923	48.4	911
Iron	20	26500	39700	35400	21300	27600	39900	8610	25300
Lead	0.6	188	246	84.9	140	139	786	59.0	577
Magnesium	1000	9180	11900	7920	6760	9020	4990	11900	6870
Manganese	3	756	287	778	527	483	185	107	436
Mercury	0.04	0.58	132	0.45	0.49	1.5	0.99	0.47	0.51
Nickel	8	88.7	113	30.9	34.9	72.4	92.8	127	79.3
Potassium	1000	2580	766	3240	1330	2370	2490	1230	2820
Selenium	1	1.4	1.3	1.2	3.1	1.3	1.3	1.3	1.3
Silver	2	2.8	2.6	2.4	2.2	2.6	2.6	29.4	4.1
Sodium	1000	1700	127	449	178	211	192	4040	343
Thallium	2	1.4	1.3	1.2	1.1	1.3	1.3	1.3	1.3
Vanadium	10	32.0	25.9	36.3	20.5	27.6	46.6	13.2	36.7
Zinc	4	461	334	10900	95.2	279	460	168	364
Cyanide	2	0.71	0.69	0.48	0.51	0.65	0.57	0.60	0.56
Percent Solids:		71	76	84	88	77	77	74	79

Associated Method Blank: PBSC641
Associated Equipment Blank: SCQS001XXX92SB
Associated Field Blank: SCQS001XXX92SB

Site: STAUFFER CHEMICAL
#: Level IV Validation

Table 1
Laboratory Report of Analysis

SAMPLE LOCATION: SCBS015X0692XX SCBS015X0892XX SCBS016X0492X SCBS017X0292XD SCBS017X0292XX SCBS018X0392XX
 LAB NUMBER: 265602 # 265603 # 169702 # 169701 # 169706 # 169705 # 169708 #
 DATE SAMPLED: 05/27/92 05/27/92 05/29/92 05/29/92 05/29/92 05/29/92 05/29/92

ANALYTE	SOW-03/90 - 11 CRQL	40	8090	E*	4640	E*	18100	*	14700	*	18400	*	13100	*	26500	*
Aluminum	12	10.9	10.9	[N*]	14.8	[N*]	13.4	[I]*	19.6	*	19.0	*	25.2	*	28.2	*
Antimony	2	2.4	2.4	[NS*]	2.2	[N*]	2.4	[I]	2.8	*	4.5	*	4.0	*	5.6	S
Arsenic	40	64.5	64.5	E	51.3	[E]	139	E*	135	E*	113	E*	90.0	E*	128	E*
Barium	1	0.33	0.33	U	0.34	U	0.60	[I]	0.37	U	0.96	[I]	0.72	[I]	1.1	[I]
Beryllium	1	0.97	0.97	UN*	0.99	UN*	1.1	U	1.1	U	0.90	U	0.86	U	0.96	U
Cadmium	1000	86400	86400	E	159000	E	43600	E*	43000	E*	50600	E*	52600	E*	14400	E*
Calcium	2	13.1	13.1	*	12.6	*	27.2	N*	21.4	N*	23.6	N*	17.4	N*	57.3	N*
Chromium	10	6.0	6.0	[I]	4.1	[I]	11.9	[I]	10.0	[I]	12.3	[I]	10.7	[I]	13.9	[I]
Cobalt	5	86.1	86.1	EN*	41.9	EN*	50.5	[I]	38.3	[I]	17.4	[I]	16.8	[I]	16.8	[I]
Copper	20	14000	14000	E*	12700	E*	24700	*	22900	*	25000	*	21400	*	32400	*
Iron	0.6	29.0	29.0	*	14.0	*	25.4	S*	17.4	S*	24.7	S*	18.0	S*	33.6	S*
Lead	1000	19400	19400	E*	80800	E*	15900	*	14500	*	19400	*	18300	*	9820	*
Magnesium	3	493	493	E	2320	E	752	E*	799	E*	757	E*	690	E*	780	E*
Manganese	0.04	0.14	0.14	U	0.13	U	0.15	UN*	0.14	UN*	0.12	UN*	0.11	UN*	0.13	UN*
Mercury	8	40.9	40.9	U	48.3	U	80.5	N*	83.1	N*	20.3	N*	16.1	N*	27.0	N*
Nickel	1000	1920	1920	[I]	1160	[I]	2840	[I]	1540	[I]	3380	[I]	2020	[I]	4110	[I]
Potassium	1	1.3	1.3	U	1.3	U	1.5	UN	1.4	UN	1.2	UN	1.1	UNW	1.3	UNW
Selenium	2	2.5	2.5	U	8.0	U	3.0	UN	2.8	UN	2.3	UN	2.3	UN	2.5	UN
Silver	1000	815	815	[I]	1720	[I]	21400	E*	22300	E*	125	[E]*	158	[E]*	343	[E]*
Sodium	2	1.3	1.3	U	1.3	U	1.5	U	1.4	U	1.2	U	1.1	U	1.3	U
Thallium	10	19.9	19.9	E	14.7	E	36.6	N*	30.4	N*	37.8	N*	29.3	N*	50.4	N*
Vanadium	4	187	187	E	195	E	68.0	N*	59.6	N*	123	N*	124	N*	217	N*
Zinc	2	0.54	0.54	U	0.50	U	0.74	U	0.76	U	0.48	U	0.43	U	0.62	U
Cyanide																
Percent Solids:		79	79		77		67		71		85		88		79	

Associated Method Blank: PBSC637 PBSC641 PBSC641 PBSC641 PBSC641
 Associated Equipment Blank: SCQS001XXX92SB SCQS001XXX92SB SCQS001XXX92SB SCQS001XXX92SB SCQS001XXX92SB
 Associated Field Blank: SCQS001XXX92SB SCQS001XXX92SB SCQS001XXX92SB SCQS001XXX92SB SCQS001XXX92SB

Site: STAUFFER CHEMICAL
 #: Level IV Validation

Table 2
Validation / Summary Table

SAMPLE LOCATION: SCBS001X0492XX		SCBS001X0892XX		SCBS002X0292XX		SCBS002X0492XX		SCBS003X0492XX		SCBS004X0792XX		SCBS005X0292XX		SCBS008X1092XX		
LAB NUMBER: T69710 #		LAB NUMBER: T69709 #		LAB NUMBER: T67002 #		LAB NUMBER: T67003 #		LAB NUMBER: T69713 #		LAB NUMBER: T69707 #		LAB NUMBER: T67001 #		LAB NUMBER: T67004 #		
DATE SAMPLED: 05/29/92		DATE SAMPLED: 05/29/92		DATE SAMPLED: 05/28/92		DATE SAMPLED: 05/28/92		DATE SAMPLED: 05/29/92		DATE SAMPLED: 05/29/92		DATE SAMPLED: 05/28/92		DATE SAMPLED: 05/28/92		
ANALYTE	SOW-03/90 - II CRQL															
Aluminum	40	20500	J	12000	J	34000	J	45800	J	21200	J	11100	J	13400	J	13800
Antimony	12	31.9	J	34.2	J	416	J	945	J	20.0	J	14.6	J	9.7	J	91.7
Arsenic	2	7.6	J	14.2	J	5.9	J	6.2	J	3.6	J	2.6	J	4.4	J	9.8
Barium	40	97.4	J	104	J	69.7	J	72.8	J	152	J	97.8	J	84.4	J	182
Beryllium	1	0.93	U	0.60	U	0.53	U	0.34	U	1.0	U	0.51	U	0.66	U	0.68
Cadmium	1	0.93	U	0.93	U	0.91	U	0.98	U	0.92	U	0.86	U	0.87	U	0.98
Calcium	1000	13300	J	53500	J	15700	J	13600	J	8980	J	53600	J	4060	J	41300
Chromium	2	26.0	J	19.3	J	73.7	J	78.5	J	25.8	J	13.7	J	17.8	J	30.1
Cobalt	10	13.9	J	11.3	U	12.3	J	20.8	J	14.8	J	8.9	U	9.1	U	13.5
Copper	5	319	J	242	J	9640	J	20200	J	14.0	J	29.1	J	9.4	J	617
Iron	20	27600	J	19000	J	23000	J	16800	J	29600	J	19400	J	22400	J	27200
Lead	0.6	94.0	J	120	J	439	J	396	J	11.6	J	4.1	J	14.0	J	107
Magnesium	1000	5970	J	12800	J	4370	J	3030	J	5660	J	6580	J	4390	J	9810
Manganese	3	1050	J	797	J	492	J	483	J	1390	J	913	J	2280	J	714
Mercury	0.04	0.12	U	0.12	U	0.12	U	0.25	J	0.12	U	0.11	U	0.11	U	0.15
Nickel	8	89.0	J	21.2	J	655	J	1070	J	24.1	J	12.7	J	14.1	J	42.0
Potassium	1000	2640	J	2110	J	1430	J	829	U	2280	J	2400	J	1390	J	2590
Selenium	1	1.2	U	1.2	U	1.2	U	1.3	U	1.2	U	1.1	U	1.1	U	1.3
Silver	2	2.4	U	2.4	U	5.7	J	10.6	J	2.4	U	2.2	U	2.3	U	2.6
Sodium	1000	271	U	1220	J	137	U	124	U	139	U	111	U	110	U	2130
Thallium	2	1.2	U	1.2	U	1.2	U	1.3	U	1.2	U	1.1	U	1.1	U	1.3
Vanadium	10	44.5	J	29.4	J	34.7	J	28.4	J	40.5	J	27.0	J	28.4	J	29.7
Zinc	4	180	J	63.8	J	392	J	709	J	93.4	J	35.7	J	100	J	207
Cyanide	2	0.66	U	0.54	U	0.53	U	0.62	U	0.52	U	0.48	U	0.62	U	0.49
Percent Solids:		82		82		84		78		83		88		88		78

Table 2
Validation / Summary Table

SAMPLE LOCATION: SCBS008X1092XX SCBS009X0492XX SCBS010X0492XX SCBS011X1092XX SCBS012X0692XX SCBS013X0692XX SCBS014X0492XX SCBS014X0792XX
LAB NUMBER: T67005 # T67007 # T67007 # T67006 # T65605 # T65601 # T65606 # T65607 #
DATE SAMPLED: 05/28/92 05/28/92 05/27/92 05/28/92 05/27/92 05/27/92 05/27/92 05/27/92

ANALYTE	SOM-03/90 - 11 CRQL	17900	26300	16000	10800	16500	22200	3220	17300
Aluminum	40	156	240	65.4	25.1	25.2	17.9	18.7	17300
Antimony	12	12.8	9.4	17.1	28.9	8.7	13.3	6.7	86.9
Arsenic	2	194	101	159	89.2	115	241	40.1	14.9
Barium	40	0.81	0.36	0.80	0.31	0.87	1.1	0.35	163
Beryllium	1	1.1	1.0	15.6	0.86	0.99	0.99	1.0	0.33
Cadmium	1	45200	89800	45300	39800	39400	4000	259000	0.96
Calcium	1000	64.9	46.3	28.8	20.7	127	55.1	10.4	43600
Chromium	2	14.4	7.4	13.2	9.1	12.6	14.3	6.4	44.3
Cobalt	10	1880	2910	158	1050	756	923	48.4	33.0
Copper	5	26500	39700	35400	21300	27600	39900	8610	911
Iron	20	188	246	84.9	140	139	786	59.0	25300
Lead	0.6	9180	11900	7920	6760	9020	4990	11900	577
Magnesium	1000	756	287	778	527	483	185	107	6870
Manganese	3	0.58	132	0.45	0.49	1.5	0.99	0.47	436
Mercury	0.04	88.7	113	30.9	34.9	72.4	92.8	127	0.51
Nickel	8	2580	766	3240	1330	2370	2490	1230	79.3
Potassium	1000	1.4	1.3	1.2	3.1	1.3	1.3	1.3	2820
Selenium	1	2.8	2.6	2.4	2.2	2.6	2.6	29.4	1.3
Silver	2	1700	127	449	178	211	192	4040	4.1
Sodium	1000	1.4	1.3	1.2	1.1	1.3	1.3	1.3	343
Thallium	2	32.0	25.9	36.3	20.5	27.6	46.6	13.2	1.3
Vanadium	10	461	334	10900	95.2	279	460	168	36.7
Zinc	4	0.71	0.69	0.48	0.51	0.65	0.57	0.60	364
Cyanide	2								0.56
Percent Solids:		71	76	84	88	77	77	74	79

Associated Method Blank: PBSC641 PBSC637 PBSC641 PBSC637 PBSC637 PBSC637 PBSC637 PBSC637
Associated Equipment Blank: SCQS001XXX92SB SCQS001XXX92SB SCQS001XXX92SB SCQS001XXX92SB SCQS001XXX92SB SCQS001XXX92SB SCQS001XXX92SB
Associated Field Blank: SCQS001XXX92SB SCQS001XXX92SB SCQS001XXX92SB SCQS001XXX92SB SCQS001XXX92SB SCQS001XXX92SB SCQS001XXX92SB

Site: STAUFFER CHEMICAL
#: Level IV Validation

Table 2
Validation / Summary Table

Inorganic Soil Analysis (mg/kg)

SAMPLE LOCATION: SCBS015X0692XX SCBS015X0892XX SCBS016X0492XX SCBS017X0292XX SCBS017X0292XX SCBS018X0392XX
LAB NUMBER: 265602 # 265603 # T69702 # T69701 # T69705 # T69708 #
DATE SAMPLED: 05/27/92 05/27/92 05/29/92 05/29/92 05/29/92 05/29/92

ANALYTE	SOM-03/90 - II CRQL	8090	4640	18100	14700	18400	13100	26500
Aluminum	40	10.9	14.8	13.4	19.6	19.0	25.2	28.2
Antimony	12	2.4	2.2	2.4	2.8	4.5	4.0	5.6
Arsenic	2	64.5	51.3	139	135	113	90.0	128
Barium	40	0.33	0.34	0.60	0.37	0.96	0.72	1.1
Beryllium	1	0.97	0.99	1.1	1.1	0.90	0.86	0.96
Cadmium	1	86400	15900	43600	43000	50600	52600	14400
Calcium	2	13.1	12.6	27.2	21.4	23.6	17.4	57.3
Chromium	2	6.0	4.1	11.9	10.0	12.3	10.7	13.9
Cobalt	10	86.1	41.9	50.5	38.3	17.4	16.8	16.8
Copper	5	14000	12700	24700	22900	25000	21400	32400
Iron	20	29.0	14.0	25.4	17.4	24.7	18.0	33.6
Lead	0.6	19400	80800	15900	14500	19400	18300	9820
Magnesium	1000	493	2320	752	799	757	690	780
Manganese	3	0.14	0.13	0.15	0.14	0.12	0.11	0.13
Mercury	0.04	40.9	48.3	80.5	83.1	20.3	16.1	27.0
Nickel	8	1920	1160	2840	1540	3380	2020	4110
Potassium	1000	1.3	1.3	1.5	1.4	1.2	1.1	1.3
Selenium	1	2.5	8.0	3.0	2.8	2.3	2.3	2.5
Silver	2	815	1720	21400	22300	125	158	343
Sodium	1000	1.3	1.3	1.5	1.4	1.2	1.1	1.3
Thallium	2	19.9	14.7	36.6	30.4	37.8	29.3	50.4
Vanadium	10	187	195	68.0	59.6	123	124	217
Zinc	4	0.54	0.50	0.74	0.76	0.48	0.43	0.62
Cyanide	2							
Percent Solids:		79	77	67	71	85	88	79
Associated Method Blank:	PBSC637	PBSC637	PBSC641	PBSC641	PBSC641	PBSC641	PBSC641	PBSC641
Associated Equipment Blank:	SCQS001XXX92S8	SCQS001XXX92S8	SCQS001XXX92S8	SCQS001XXX92S8	SCQS001XXX92S8	SCQS001XXX92S8	SCQS001XXX92S8	SCQS001XXX92S8
Associated Field Blank:								

Site: STAUFFER CHEMICAL
#: Level IV Validation

Table 3
Summary Table

SAMPLE LOCATION:	SCBS001X0492XX	SCBS001X0892XX	SCBS002X092XX	SCBS002X0492XX	SCBS003X0492XX	SCBS004X0792XX	SCBS005X0292XX	SCBS008X1092XD
LAB NUMBER:	T69710 #	T69709 #	T67002 #	T67003 #	T69713 #	T69707 #	T67001 #	T67004 #
DATE SAMPLED:	05/29/92	05/29/92	05/28/92	05/28/92	05/29/92	05/29/92	05/28/92	05/28/92

SOW-03/90 - II CROL									
ANALYTE	20500	12000	34000	45800	21200	11100	13400	13800	
Aluminum	40							13800	
Antimony	31.9 J	34.2 J	416 J	945 J	20.0 J	14.6 J	-	91.7 J	
Arsenic	7.6	14.2	5.9	6.2	3.6	2.6	4.4	9.8	
Barium	40	104 J	69.7	72.8	152 J	97.8 J	84.4	182 J	
Beryllium	1	-	-	-	-	-	-	-	
Cadmium	1	-	-	-	-	-	-	-	
Calcium	1000	53500 J	15700 J	13600 J	8980 J	53600 J	4060	41300 J	
Chromium	2	26.0 J	73.7 J	78.5 J	25.8 J	13.7 J	17.8 J	30.1 J	
Cobalt	10	13.9	12.3	20.8	14.8	-	-	13.5	
Copper	5	319 J	9640 J	20200 J	14.0 J	29.1 J	9.4 J	617 J	
Iron	20	27600	23000	16800	29600	19400	22400	27200	
Lead	0.6	94.0 J	439 J	396 J	11.6 J	4.1 J	14.0 J	107 J	
Magnesium	1000	5970	4370	3030	5660	6580	4390	9810	
Manganese	3	1050 J	492 J	483 J	1390 J	913 J	2280 J	714 J	
Mercury	0.04	-	-	0.25 J	-	-	-	0.15 J	
Nickel	8	89.0 J	655 J	1070 J	24.1 J	12.7 J	14.1 J	42.0 J	
Potassium	1000	2640	2110	-	2280	2400	1390	2590	
Selenium	1	-	-	-	-	-	-	-	
Silver	2	-	5.7 J	10.6 J	-	-	-	-	
Sodium	1000	-	-	-	-	-	-	-	
Thallium	2	-	-	-	-	-	-	2130	
Vanadium	10	44.5	29.4	28.4	40.5	27.0	28.4	29.7	
Zinc	4	180 J	63.8 J	709 J	93.4 J	35.7 J	100 J	207 J	
Cyanide	2	-	-	-	-	-	-	-	

Percent Solids:	82	84	78	83	88	88	78

Associated Method Blank:	PBSC641	PBSC641	PBSC641	PBSC641	PBSC641	PBSC641	PBSC641
Associated Equipment Blank:	SCQS001XXX92SB	SCQS001XXX92SB	SCQS001XXX92SB	SCQS001XXX92SB	SCQS001XXX92SB	SCQS001XXX92SB	SCQS001XXX92SB
Associated Field Blank:	-	-	-	-	-	-	-

Site: STAUFFER CHEMICAL
#: Level IV Validation

Table 3
Summary Table

SAMPLE LOCATION:	SCBS008X1092XX	SCBS009X0492XX	SCBS010X0492XX	SCBS011X1092XX	SCBS012X0692XX	SCBS013X0692XX	SCBS014X0492XX
LAB NUMBER:	T67005 #	T67007 #	265604 #	167006 #	265605 #	265601 #	265607 #
DATE SAMPLED:	05/28/92	05/28/92	05/27/92	05/28/92	05/27/92	05/27/92	05/27/92

[illegible]

Site: STAUFFER CHEMICAL
#: Level IV Validation

PROJECT: NYSDEC PSA-6 Stauffer Chemical

Inorganic Soil Analysis (mg/kg)

Table 3
Summary Table

SAMPLE LOCATION:	SCBS015X0692XX	SCBS015X0892XX	SCBS016X0492XD	SCBS016X0492XX	SCBS017X0292XD	SCBS017X0292XX	SCBS018X0392XX
LAB NUMBER:	265602 #	265603 #	169702 #	169701 #	169706 #	169705 #	169708 #
DATE SAMPLED:	05/27/92	05/27/92	05/29/92	05/29/92	05/29/92	05/29/92	05/29/92

[illegible]

Associated Method Blank:	PBSC637	PBSC641	PBSC641	PBSC641	PBSC641	PBSC641
Associated Equipment Blank:	SCQS001XXX92SB	SCQS001XXX92SB	SCQS001XXX92SB	SCQS001XXX92SB	SCQS001XXX92SB	SCQS001XXX92SB
Associated Field Blank:	-	-	-	-	-	-

Site: STAUFFER CHEMICAL
#: Level IV Validation

Table 1
Laboratory Report of Analysis

SAMPLE LOCATION:	SCBS001X0492XX	SCBS001X0892XX	SCBS002X0292XX	SCBS002X0492XX	SCBS003X0492XX	SCBX004X0792XX	SCBS005X0292XX	SCBS008X1092XD
LAB NUMBER:	1269710	1269709	1267002	1267003	1269713	1269707	1267001	1267004
DATE SAMPLED:	05/29/92	05/29/92	05/28/92	05/28/92	05/29/92	05/29/92	05/28/92	05/28/92
ANALYTE	RL							
Ignitability (degree F)	-	>212	>212	>212	>212	>212	>212	>212
Corrosivity (pH)	-	7.4	7.7	7.6	7.4	8.6	7.2	8.4
Reactive Cyanide (mg/kg)	1.0	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Reactive Sulfide (mg/kg)	1.0	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Associated Method Blank:	BKSC12697	BKSC12697	BKSC12670	BKSC12670	BKSC12697	BKSC12697	BKSC12670	BKSC12670
Associated Equipment Blank:	SCQS001XXX92SB	SCQS001XXX92SB	SCQS001XXX92SB	SCQS001XXX92SB	SCQS001XXX92SB	SCQS001XXX92SB	SCQS001XXX92SB	SCQS001XXX92SB
Associated Field Blank:								

SITE: STAUFFER CHEMICAL

PROJECT: NYSDC PSA-6 Stauffer Chemical

Miscellaneous Soil Analysis

12-Aug-92

Table 1
Laboratory Report of Analysis

SAMPLE LOCATION: SCBS008X1092XX SCBS009X0492XX SCBS010X0492XX SCBS011X1092XX SCBS012X0692XX SCBS013X0692XX SCBS014X0492XX SCBS014X0792XX
LAB NUMBER: 1267005 1267007 1265604 1267006 1265605 1265601 1265606 1265607
DATE SAMPLED: 05/28/92 05/28/92 05/27/92 05/28/92 05/27/92 05/27/92 05/27/92 05/27/92

ANALYTE RL

Ignitability (degree F) -
Corrosivity (pH) -
Reactive Cyanide (mg/kg) 1.0
Reactive Sulfide (mg/kg) 1.0

>212 7.7 1 U 1 U >212 7.7 1 U 1 U >212 7.1 1 U 1 U >212 6.2 1 U 1 U >212 8.4 1 U 1 U >212 7.9 1 1

Associated Method Blank: BKSC12670 BKSC12656 BKSC12656 BKSC12656 BKSC12656 BKSC12656 BKSC12656 BKSC12656
Associated Equipment Blank: SCQS001XXX92SB SCQS001XXX92SB SCQS001XXX92SB SCQS001XXX92SB SCQS001XXX92SB SCQS001XXX92SB SCQS001XXX92SB SCQS001XXX92SB
Associated Field Blank:

SITE: STAUFFER CHEMICAL

Table 1
Laboratory Report of Analysis

SAMPLE LOCATION: SCBS015X0692XX SCBS015X0892XX SCBS016X0492XD SCBS016X0492XX SCBS017X0292XD SCBS017X0292XX SCBS018X0392XX
LAB NUMBER: 1265602 1265603 1269702 1269701 1269706 1269705 1269708
DATE SAMPLED: 05/27/92 05/27/92 05/29/92 05/29/92 05/29/92 05/29/92 05/29/92

ANALYTE	RL
Ignitability (degree F)	-
Corrosivity (pH)	-
Reactive Cyanide (mg/kg)	1.0
Reactive Sulfide (mg/kg)	1.0

Associated Method Blank: BKSC12656 BKSC12697 BKSC12697 BKSC12697 BKSC12697 BKSC12697 BKSC12697
Associated Equipment Blank: SCQS001XXX92SB SCQS001XXX92SB SCQS001XXX92SB SCQS001XXX92SB SCQS001XXX92SB SCQS001XXX92SB SCQS001XXX92SB
Associated Field Blank:

SITE: STAUFFER CHEMICAL

PROJECT: NYSDC PSA-6 Stauffer Chemical

Miscellaneous Soil Analysis

12-Aug-92

Table 2
Validation / Summary Table

SAMPLE LOCATION: SCBS001X0492XX SCBS001X0892XX SCBS002X0292XX SCBS002X0492XX SCBS003X0492XX SCBS004X0792XX SCBS005X0292XX SCBS008X1092XD
LAB NUMBER: 1269710 1269709 1267002 1267003 1269713 1269707 1267001 1267004
DATE SAMPLED: 05/29/92 05/29/92 05/28/92 05/28/92 05/29/92 05/29/92 05/28/92 05/28/92

ANALYTE	RL
Ignitability (degree F)	-
Corrosivity (ph)	-
Reactive Cyanide (mg/kg)	1.0
Reactive Sulfide (mg/kg)	1.0

Associated Method Blank: BKSC12697 BKSC12697 BKSC12670 BKSC12670 BKSC12697 BKSC12670 BKSC12670 BKSC12670
Associated Equipment Blank: SCQS001XXX92SB SCQS001XXX92SB SCQS001XXX92SB SCQS001XXX92SB SCQS001XXX92SB SCQS001XXX92SB SCQS001XXX92SB
Associated Field Blank:

SITE: STAUFFER CHEMICAL

Table 2
Validation / Summary Table

SAMPLE LOCATION: SCBS008X1092XX SCBS009X0492XX SCBS010X0492XX SCBS011X1092XX SCBS012X0692XX SCBS013X0692XX SCBS014X0492XX SCBS014X0792XX
 LAB NUMBER: 1267005 1267007 1265604 1267006 1265605 1265601 1265606 1265607
 DATE SAMPLED: 05/28/92 05/28/92 05/27/92 05/28/92 05/27/92 05/27/92 05/27/92 05/27/92

ANALYTE RL

Ignitability (degree F)	-	>212	>212	>212	>212	>212	>212	>212	>212	>212	>212	>212
Corrosivity (pH)	-	7.7	6.3	7.7	6.9	7.1	6.2	8.4	7.9	8.4	7.9	7.9
Reactive Cyanide (mg/kg)	1.0	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Reactive Sulfide (mg/kg)	1.0	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

Associated Method Blank: BKSC12670 BKSC12670 BKSC12656 BKSC12656 BKSC12656 BKSC12656 BKSC12656 BKSC12656
 Associated Equipment Blank: SCQS001XXX92SB SCQS001XXX92SB SCQS001XXX92SB SCQS001XXX92SB SCQS001XXX92SB SCQS001XXX92SB SCQS001XXX92SB SCQS001XXX92SB
 Associated Field Blank:

SITE: STAUFFER CHEMICAL

Miscellaneous Soil Analysis

PROJECT: NYSDEC PSA-6 Stauffer Chemical

Table 2
Validation / Summary Table

ANALYTE	RL	SCBS015X0692XX LAB NUMBER: DATE SAMPLED:	SCBS015X0892XX LAB NUMBER: DATE SAMPLED:	SCBS016X0492XD LAB NUMBER: DATE SAMPLED:	SCBS017X0292XD LAB NUMBER: DATE SAMPLED:	SCBS017X0292XX LAB NUMBER: DATE SAMPLED:	SCBS018X0392XX LAB NUMBER: DATE SAMPLED:
Ignitability (degree F)	-	>212	>212	>212	>212	>212	>212
Corrosivity (pH)	-	8.9	8.8	10.5	8.1	8.2	6.9
Reactive Cyanide (mg/kg)	1.0	1 U	1 U	1 U	1 U	1 U	1 U
Reactive Sulfide (mg/kg)	1.0	1 U	1 U	1 U	1 U	1 U	1 U

Associated Method Blank:	BKSC12656	BKSC12656	BKSC12697	BKSC12697	BKSC12697	BKSC12697
Associated Equipment Blank:	SCQS001XXX92SB	SCQS001XXX92SB	SCQS001XXX92SB	SCQS001XXX92SB	SCQS001XXX92SB	SCQS001XXX92SB
Associated Field Blank:	-	-	-	-	-	-

SITE: STAUFFER CHEMICAL

Table 3
Summary Table

SAMPLE LOCATION: SCBS001X0492XX SCBS001X0892XX SCBS002X0292XX SCBS002X0492XX SCBX004X0792XX SCBS005X0292XX SCBS008X1092XD
LAB NUMBER: 1269710 1269709 1267002 1267003 1269707 1267001 1267004
DATE SAMPLED: 05/29/92 05/29/92 05/28/92 05/28/92 05/29/92 05/28/92 05/28/92

ANALYTE RL

Ignitability (degree f) - - - - -
Corrosivity (ph) - 7.4 9.2 7.7 7.6 8.6 7.2 8.4
Reactive Cyanide (mg/kg) 1.0 - - - - -
Reactive Sulfide (mg/kg) 1.0 - - - - -

Associated Method Blank: BKSC12697 BKSC12697 BKSC12670 BKSC12670 BKSC12697 BKSC12670 BKSC12670 BKSC12670
Associated Equipment Blank: SCQS001XXX92SB SCQS001XXX92SB SCQS001XXX92SB SCQS001XXX92SB SCQS001XXX92SB SCQS001XXX92SB SCQS001XXX92SB
Associated Field Blank: - - - - -

SITE: STAUFFER CHEMICAL

Table 3
Summary Table

SAMPLE LOCATION: SCBS008X1092XX SCBS009X0492XX SCBS010X0492XX SCBS011X1092XX SCBS012X0692XX SCBS013X0692XX SCBS014X0492XX SCBS014X0792XX
LAB NUMBER: 1267005 1267007 1265604 1267006 1265605 1265601 1265606 1265607
DATE SAMPLED: 05/28/92 05/28/92 05/27/92 05/28/92 05/27/92 05/27/92 05/27/92 05/27/92

ANALYTE RL

Ignitability (degree F) -
Corrosivity (pH) -
Reactive Cyanide (mg/kg) 1.0
Reactive Sulfide (mg/kg) 1.0

Associated Method Blank: BKSC12670 BKSC12656 BKSC12670 BKSC12656 BKSC12656 BKSC12656 BKSC12656 BKSC12656
Associated Equipment Blank: SCQS001XXX92SB SCQS001XXX92SB SCQS001XXX92SB SCQS001XXX92SB SCQS001XXX92SB SCQS001XXX92SB SCQS001XXX92SB SCQS001XXX92SB
Associated Field Blank: - - - - - - - -

SITE: STAUFFER CHEMICAL

Table 3
Summary Table

SAMPLE LOCATION: SCBS015X0692XX SCBS015X0892XX SCBS016X0492XD SCBS016X0492XX SCBS017X0292XD SCBS017X0292XX SCBS018X0392XX
LAB NUMBER: 1265602 1265603 1269702 1269701 1269706 1269705 1269708
DATE SAMPLED: 05/27/92 05/27/92 05/29/92 05/29/92 05/29/92 05/29/92 05/29/92

ANALYTE RL

Ignitability (degree F) -
Corrosivity (pH) -
Reactive Cyanide (mg/kg) 1.0
Reactive Sulfide (mg/kg) 1.0

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Associated Method Blank: BKSC12656 BKSC12656 BKSC12697 BKSC12697 BKSC12697 BKSC12697 BKSC12697
Associated Equipment Blank: SCQS001XXX92S8 SCQS001XXX92S8 SCQS001XXX92S8 SCQS001XXX92S8 SCQS001XXX92S8 SCQS001XXX92S8 SCQS001XXX92S8
Associated Field Blank: - - - - - - -

SITE: STAUFFER CHEMICAL

PROJECT: NYSDC PSA-6 Stauffer Chemical

Miscellaneous Soil Analysis

18-Aug-92

Table 1
Laboratory Report of Analysis

SAMPLE LOCATION: SCQS001XXX92S8
LAB NUMBER: 1269714
DATE SAMPLED: 05/29/92

ANALYTE	RL
Ignitability (degree F)	- >212
Corrosivity (pH)	- 8.1
Reactive Cyanide (mg/kg)	1.0 1 U
Reactive Sulfide (mg/kg)	1.0 1 U

Associated Method Blank: BKSC12697
Associated Equipment Blank: -
Associated Field Blank: -

Site: STAUFFER CHEMICAL

PROJECT: NYSDEC PSA-6 Stauffer Chemical

Miscellaneous Soil Analysis (ug/L)

12-Aug-92

Table 1
Laboratory Report of Analysis

SAMPLE LOCATION: SCBS001X0492XX SCBS001X0892XX SCBS002X0292XX SCBS002X0492XX SCBS003X0492XX SCBS004X0792XX SCBS005X0292XX SCBS008X1092XX
LAB NUMBER: E69710 E69709 E67002 E67003 E69713 E69707 E67001 E67004
DATE SAMPLED: 05/29/92 05/29/92 05/28/92 05/28/92 05/29/92 05/29/92 05/28/92 05/28/92
DATE EXTRACTED: 06/16/92 06/16/92 06/16/92 06/16/92 06/16/92 06/16/92 06/16/92 06/16/92
DATE ANALYZED: 06/23/92 06/23/92 06/23/92 06/23/92 06/23/92 06/23/92 06/23/92 06/23/92

ANALYTE

Arsenic	47.8 U	47.8 U	47.8 U	47.8 U	47.8 U	47.8 U	47.8 U	47.8 U
Barium	534	458	767	1220	708	1260	966	445
Cadmium	9.0	3.8 U	6.3	25.2	3.8 U	3.8 U	3.8 U	3.8 U
Chromium	3.9 U*	3.9 U*	3.9 U*	3.9 U*	3.9 U*	3.9 U*	3.9 U*	3.9 U*
Lead	37.9 U*	37.9 U*	37.9 U*	114 *	37.9 U*	37.9 U*	37.9 U*	37.9 U*
Mercury	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Selenium	36.3	33.1 U	33.1 U	36.6	44.6	33.1 U	33.1 U	33.1 U
Silver	9.9 UN	9.9 UN	9.9 UN	9.9 UN	9.9 UN	9.9 UN	9.9 UN	9.9 UN

Associated Method Blank: BKSC641EPTOX BKSC641EPTOX BKSC641EPTOX BKSC641EPTOX BKSC641EPTOX
Associated Equipment Blank: - - - - -
Associated Field Blank: - - - - -

SITE: STAUFFER CHEMICAL

12-Aug-92

Miscellaneous Soil Analysis (ug/L)

PROJECT: NYSDEC PSA-6 Stauffer Chemical

Table 1
Laboratory Report of Analysis

SAMPLE LOCATION: SCBS008X1092XX SCBS009X0492XX SCBS010X0492XX SCBS011X1092XX SCBS012X0692XX SCBS013X0692XX SCBS014X0492XX SCBS014X0792XX
LAB NUMBER: E67005 E67007 E67004 E67006 E67005 E67001 E67006 E67007
DATE SAMPLED: 05/28/92 05/28/92 05/27/92 05/28/92 05/27/92 05/27/92 05/27/92 05/27/92
DATE EXTRACTED: 06/16/92 06/16/92 06/01/92 06/16/92 06/01/92 06/01/92 06/01/92 06/01/92
DATE ANALYZED: 06/23/92 06/23/92 06/20/92 06/23/92 06/20/92 06/20/92 06/20/92 06/20/92

ANALYTE	SCBS008X1092XX	SCBS009X0492XX	SCBS010X0492XX	SCBS011X1092XX	SCBS012X0692XX	SCBS013X0692XX	SCBS014X0492XX	SCBS014X0792XX
Arsenic	47.8 U	47.8 U	47.8 U	47.8 U	47.8 U	58.4 U	47.8 U	47.8 U
Barium	302	109 U	548 U	244	140 U	253 U	559 U	219 U
Cadmium	11.2	23.3	18.7 U	12.1	18.9 U	12.0 U	5.4 U	3.8 U
Chromium	3.9 U*	3.9 U*	3.9 U	3.9 U*	3.9 U	3.9 U	3.9 U	3.9 U
Lead	87.5 *	37.9 U*	37.9 U	77.2 *	37.9 U	425 U	37.9 U	97.8 U
Mercury	0.20 U	27.9	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Selenium	33.1 U	33.1 U	33.1 U	33.1 U	33.1 U	33.1 U	33.1 U	33.1 U
Silver	9.9 UN	9.9 UN	9.9 U	9.9 UN	9.9 U	9.9 U	11.8 U	9.9 U

=====
Associated Method Blank: BKSC641EPTOX
Associated Equipment Blank:
Associated Field Blank:
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BKSC641EPTOX BKSC637EPTOX BKSC641EPTOX BKSC637EPTOX BKSC637EPTOX BKSC637EPTOX BKSC637EPTOX BKSC637EPTOX

SITE: STAUFFER CHEMICAL

PROJECT: NYSDEC PSA-6 Stauffer Chemical

Miscellaneous Soil Analysis (ug/L)

Table 1
Laboratory Report of Analysis

ANALYTE	SCBS015X0692XX				SCBS015X0892XX				SCBS016X0492XX				SCBS017X0292XX				SCBS017X0292XX				SCBS018X0392XX			
	EP5602				EP5603				E69702				E69706				E69705				E69708			
	DATE SAMPLED: 05/27/92				05/27/92				05/29/92				05/29/92				05/29/92				05/29/92			
	DATE EXTRACTED: 06/01/92				06/01/92				06/16/92				06/16/92				06/16/92				06/16/92			
	DATE ANALYZED: 06/20/92				06/20/92				06/23/92				06/23/92				06/23/92				06/23/92			
Arsenic	47.8 U	682 U	47.8 U	742 U	47.8 U	447 U	47.8 U	69.5 U	47.8 U	1150 U	47.8 U	47.8 U	47.8 U	1220 U	47.8 U	47.8 U	47.8 U	748 U	47.8 U	47.8 U	47.8 U	47.8 U	47.8 U	47.8 U
Barium	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
Cadmium	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U
Chromium	37.9 U	37.9 U	37.9 U	37.9 U	37.9 U	37.9 U	37.9 U	37.9 U	37.9 U	37.9 U	37.9 U	37.9 U	37.9 U	37.9 U	37.9 U	37.9 U	37.9 U	37.9 U	37.9 U	37.9 U	37.9 U	37.9 U	37.9 U	37.9 U
Lead	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Mercury	33.1 U	33.1 U	33.1 U	33.1 U	33.1 U	33.1 U	33.1 U	33.1 U	33.1 U	33.1 U	33.1 U	33.1 U	33.1 U	33.1 U	33.1 U	33.1 U	33.1 U	33.1 U	33.1 U	33.1 U	33.1 U	33.1 U	33.1 U	33.1 U
Selenium	9.9 U	9.9 U	9.9 U	9.9 U	9.9 U	9.9 U	9.9 U	9.9 U	9.9 U	9.9 U	9.9 U	9.9 U	9.9 U	9.9 U	9.9 U	9.9 U	9.9 U	9.9 U	9.9 U	9.9 U	9.9 U	9.9 U	9.9 U	9.9 U
Silver																								

Associated Method Blank: BKSC637EPTOX
Associated Equipment Blank:
Associated Field Blank:

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SITE: STAUFFER CHEMICAL

Table 2
Validation / Summary Table

SAMPLE LOCATION: SCBS001X0492XX SCBS001X0892XX SCBS002X0292XX SCBS003X0492XX SCBS004X0792XX SCBS005X0292XX SCBS008X1092XD
LAB NUMBER: E69710 E69709 E67002 E67003 E69707 E67001 E67004
DATE SAMPLED: 05/29/92 05/29/92 05/28/92 05/29/92 05/29/92 05/28/92 05/28/92
DATE EXTRACTED: 06/16/92 06/16/92 06/16/92 06/16/92 06/16/92 06/16/92 06/16/92
DATE ANALYZED: 06/23/92 06/23/92 06/23/92 06/23/92 06/23/92 06/23/92 06/23/92

ANALYTE

Arsenic	47.8 U	47.8 U	47.8 U	47.8 U	47.8 U	47.8 U	47.8 U
Barium	534	458	767	1220	1260	966	445
Cadmium	9.0 J	3.8 UJ	6.3 J	25.2 J	3.8 UJ	3.8 UJ	3.8 UJ
Chromium	3.9 UJ	3.9 UJ	3.9 UJ	3.9 UJ	3.9 UJ	3.9 UJ	3.9 UJ
Lead	37.9 UJ	37.9 UJ	37.9 UJ	114 J	37.9 UJ	37.9 UJ	37.9 UJ
Mercury	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Selenium	36.3	33.1 U	33.1 U	36.6	33.1 U	33.1 U	33.1 U
Silver	9.9 UJ	9.9 UJ	9.9 UJ	9.9 UJ	9.9 UJ	9.9 UJ	9.9 UJ

Associated Method Blank: BKSC641EPTOX - - - - - BKSC641EPTOX BKSC641EPTOX
Associated Equipment Blank: - - - - -
Associated Field Blank: - - - - -

SITE: STAUFFER CHEMICAL

Table 2
Validation / Summary Table

ANALYTE	SAMPLE LOCATION: SCBS008X1092XX		SCBS009X0492XX		SCBS010X0492XX		SCBS011X1092XX		SCBS012X0692XX		SCBS013X0692XX		SCBS014X0492XX		SCBS014X0792XX	
	LAB NUMBER:	DATE SAMPLED:	LAB NUMBER:	DATE SAMPLED:	LAB NUMBER:	DATE SAMPLED:	LAB NUMBER:	DATE SAMPLED:	LAB NUMBER:	DATE SAMPLED:	LAB NUMBER:	DATE SAMPLED:	LAB NUMBER:	DATE SAMPLED:	LAB NUMBER:	DATE SAMPLED:
Arsenic	E67005	05/28/92	E67007	05/28/92	EP5604	05/27/92	E67006	05/28/92	EP5605	05/27/92	EP5601	05/27/92	EP5606	05/27/92	EP5607	05/27/92
Barium		06/16/92		06/16/92		06/01/92		06/16/92		06/01/92		06/01/92		06/01/92		06/01/92
Cadmium		06/23/92		06/23/92		06/20/92		06/23/92		06/20/92		06/20/92		06/20/92		06/20/92
Chromium																
Lead																
Mercury																
Selenium																
Silver																

Associated Method Blank: BKSC641EPTOX
 Associated Equipment Blank:
 Associated Field Blank:

SITE: STAUFFER CHEMICAL

PROJECT: NYSDEC PSA-6 Stauffer Chemical

Miscellaneous Soil Analysis (ug/L)

Table 2
Validation / Summary Table

SAMPLE LOCATION: SCBS015X0692XX SCBS015X0892XX SCBS016X0492XX SCBS017X0292XX SCBS017X0292XX SCBS018X0392XX
 LAB NUMBER: EP5602 EP5603 E69702 E69706 E69705 E69708
 DATE SAMPLED: 05/27/92 05/27/92 05/29/92 05/29/92 05/29/92 05/29/92
 DATE EXTRACTED: 06/01/92 06/01/92 06/16/92 06/16/92 06/16/92 06/16/92
 DATE ANALYZED: 06/20/92 06/20/92 06/23/92 06/23/92 06/23/92 06/23/92

ANALYTE

Arsenic	47.8 U	47.8 U	69.5	47.8 U	47.8 U	47.8 U
Barium	682 U	742 U	476	1150	1220	748
Cadmium	3.8 UJ	3.8 UJ	3.8 UJ	3.8 UJ	3.8 UJ	3.8 UJ
Chromium	3.9 UJ	3.9 UJ	22.3 J	3.9 UJ	3.9 UJ	3.9 UJ
Lead	37.9 U	37.9 U	50.7 J	37.9 UJ	37.9 UJ	44.8 J
Mercury	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Selenium	33.1 U	33.1 U	33.1 U	33.1 U	33.1 U	33.1 U
Silver	9.9 U	9.9 U	9.9 UJ	9.9 UJ	9.9 UJ	9.9 UJ

Associated Method Blank: BKSC637EPTOX BKSC641EPTOX BKSC641EPTOX BKSC641EPTOX
 Associated Equipment Blank: - - - -
 Associated Field Blank: - - - -

SITE: STAUFFER CHEMICAL

Table 3
Summary Table

SAMPLE LOCATION: SCBS001X0492XX SCBS001X0892XX SCBS002X0292XX SCBS003X0492XX SCBS004X0792XX SCBS005X0292XX SCBS008X1092XD
 LAB NUMBER: E69710 E69709 E67002 E69713 E69707 E67001 E67004
 DATE SAMPLED: 05/29/92 05/29/92 05/28/92 05/29/92 05/29/92 05/28/92 05/28/92
 DATE EXTRACTED: 06/16/92 06/16/92 06/16/92 06/16/92 06/16/92 06/16/92 06/16/92
 DATE ANALYZED: 06/23/92 06/23/92 06/23/92 06/23/92 06/23/92 06/23/92 06/23/92

ANALYTE

Arsenic	-	-	-	-	-	-	-
Barium	534	458	767	708	1260	966	445
Cadmium	9.0 J	-	6.3 J	-	-	-	-
Chromium	-	-	-	-	-	-	-
Lead	-	-	-	-	-	-	-
Mercury	-	-	-	-	-	-	-
Selenium	36.3	-	-	44.6	-	-	-
Silver	-	-	-	-	-	-	-

Associated Method Blank: BKSC641EPTOX BKSC641EPTOX BKSC641EPTOX BKSC641EPTOX
 Associated Equipment Blank: - - - -
 Associated Field Blank: - - - -

SITE: STAUFFER CHEMICAL

Table 3
Summary Table

SAMPLE LOCATION: SCBS008X1092XX SCBS009X0492XX SCBS010X0492XX SCBS011X1092XX SCBS012X0692XX SCBS013X0692XX SCBS014X0492XX SCBS014X0792XX
LAB NUMBER: E67005 E67007 E67004 E67006 E67005 E67001 E67006 E67007
DATE SAMPLED: 05/28/92 05/28/92 05/27/92 05/28/92 05/27/92 05/27/92 05/27/92 05/27/92
DATE EXTRACTED: 06/16/92 06/16/92 06/01/92 06/16/92 06/01/92 06/01/92 06/01/92 06/01/92
DATE ANALYZED: 06/23/92 06/23/92 06/20/92 06/23/92 06/20/92 06/20/92 06/20/92 06/20/92

ANALYTE

Arsenic
Barium
Cadmium
Chromium
Lead
Mercury
Selenium
Silver

-
302
11.2 J
-
87.5 J
-
-
-

-
-
23.3 J
-
27.9
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244
12.1 J
77.2 J
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Associated Method Blank: BKSC641EPTOX BKSC641EPTOX BKSC637EPTOX BKSC637EPTOX BKSC637EPTOX BKSC637EPTOX BKSC637EPTOX
Associated Equipment Blank: - - - - - - -
Associated Field Blank: - - - - - - -

SITE: STAUFFER CHEMICAL

Table 3
Summary Table

SAMPLE LOCATION: SCBS015X0692XX SCBS015X0892XX SCBS016X0492XD SCBS016X0492XX SCBS017X0292XD SCBS017X0292XX SCBS018X0392XX
 LAB NUMBER: EP5602 EP5603 E69702 E69701 E69706 E69705 E69708
 DATE SAMPLED: 05/27/92 05/27/92 05/29/92 05/29/92 05/29/92 05/29/92 05/29/92
 DATE EXTRACTED: 06/01/92 06/01/92 06/16/92 06/16/92 06/16/92 06/16/92 06/16/92
 DATE ANALYZED: 06/20/92 06/20/92 06/23/92 06/23/92 06/23/92 06/23/92 06/23/92

ANALYTE

Arsenic	-	-	-	69.5	-	-	-	-
Barium	-	-	447	476	1150	1220	748	-
Cadmium	-	-	-	-	-	-	-	-
Chromium	-	-	10.4 J	22.3 J	-	-	-	-
Lead	-	-	-	50.7 J	-	-	44.8 J	-
Mercury	-	-	-	-	-	-	-	-
Selenium	-	-	-	-	-	-	-	-
Silver	-	-	-	-	-	-	-	-

Associated Method Blank: BKSC637EPTOX
 Associated Equipment Blank:
 Associated Field Blank:

BKSC641EPTOX
 BKSC641EPTOX
 BKSC641EPTOX

SITE: STAUFFER CHEMICAL

APPENDIX E

APPENDIX E-2
GROUNDWATER

E.C. Jordan Co.

Table 1
Laboratory Report of Analysis

SAMPLE LOCATION: SCHW001XXX92XX SCHW002XXX92X0 SCHW003XXX92XX SCHW004XXX92XX SCHW006XXX92XX SCHW007XXX92XX
LAB NUMBER: 1315008 # 1315011 # 1315010 # 1315016 # 1315009 # 1315015 # 1315014 #
DATE SAMPLED: 06/29/92 06/29/92 06/29/92 06/30/92 06/29/92 06/29/92
DATE ANALYZED: 07/06/92 07/06/92 07/06/92 07/06/92 07/06/92 07/06/92

ANALYTE	SQM-03/90 - 11 CRQL	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Chloromethane	10	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Bromomethane	10	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Vinyl Chloride	10	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Chloroethane	10	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Methylene Chloride	10	43	8	8	BJ	8	BJ	8	BJ	8	BJ	8	BJ	7	8J	8	BJ
Acetone	10	9	BJ	6	BJ	8	BJ	8	BJ	8	BJ	8	BJ	10	U	10	U
Carbon Disulfide	10	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
1,1-Dichloroethene	10	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
1,1-Dichloroethane	10	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
1,2-Dichloroethene (total)	10	7	J	10	U	7	J	10	U	10	U	10	U	10	U	10	U
1,2-Dichloroethane	10	10	U	10	U	5	J	10	U	10	U	10	U	10	U	10	U
Chloroform	10	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
1,2-Dichloroethane	10	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
2-Butanone	10	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
1,1,1-Trichloroethane	10	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Carbon Tetrachloride	10	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Bromodichloromethane	10	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
1,2-Dichloropropane	10	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
cis-1,3-Dichloropropene	10	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Trichloroethene	10	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Dibromochloromethane	10	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
1,1,2-Trichloroethane	10	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Benzene	10	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
trans-1,3-Dichloropropene	10	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Bromoform	10	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
4-Methyl-2-Pentanone	10	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
2-Hexanone	10	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Tetrachloroethene	10	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
1,1,2,2-Tetrachloroethane	10	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Toluene	10	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Chlorobenzene	10	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Ethylbenzene	10	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Styrene	10	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Total Xylenes	10	2	J	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Dilution Factor:		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Associated Method Blank: K2889 K2889 K2889 K2889 K2889 K2889
Associated Equipment Blank: SCQS001XXX92XX SCQS001XXX92XX SCQS001XXX92XX SCQS001XXX92XX SCQS001XXX92XX SCQS001XXX92XX
Associated Field Blank: SCQT001XXX92XX SCQT001XXX92XX SCQT001XXX92XX SCQT001XXX92XX SCQT001XXX92XX SCQT001XXX92XX
Associated Trip Blank: SCQT001XXX92XX SCQT001XXX92XX SCQT001XXX92XX SCQT001XXX92XX SCQT001XXX92XX SCQT001XXX92XX

Site: STAUFFER CHEMICAL
#: Level IV Validation

Table 2

Dilution Factor:

Site: STAUFFER CHEMICAL
#: Level IV Validation

Table 3

[illegible]

page 1

Table 1
Laboratory Report of Analysis

SAMPLE LOCATION: SCQS001XXX92SB SCQS001XXX92XX SCQS002XXX92XX
 LAB NUMBER: 1269714 1315023 1315024
 DATE SAMPLED: 05/29/92 06/30/92 06/30/92
 DATE ANALYZED: 06/04/92 07/06/92 07/08/92

ANALYTE	SOW-03/90 - 11 CRQL			
Chloromethane	10	10	U	10 U
Bromomethane	10	10	U	10 U
Vinyl Chloride	10	10	U	10 U
Chloroethane	10	10	U	10 U
Methylene Chloride	10	11 B	4 BJ	4 BJ
Acetone	10	27 B	6 BJ	6 BJ
Carbon Disulfide	10	10	U	10 U
1,1-Dichloroethene	10	10	U	10 U
1,1-Dichloroethane	10	10	U	10 U
1,2-Dichloroethene (total)	10	10	U	10 U
Chloroform	10	10	U	10 U
1,2-Dichloroethane	10	10	U	10 U
2-Butanone	10	5 BJ	10 U	10 U
1,1,1-Trichloroethane	10	10	U	10 U
Carbon Tetrachloride	10	10	U	10 U
Bromodichloromethane	10	10	U	10 U
1,2-Dichloropropane	10	10	U	10 U
cis-1,3-Dichloropropene	10	10	U	10 U
Trichloroethene	10	10	U	10 U
Dibromochloromethane	10	10	U	10 U
1,1,2-Trichloroethane	10	10	U	10 U
Benzene	10	10	U	10 U
trans-1,3-Dichloropropene	10	10	U	10 U
Bromoform	10	10	U	10 U
4-Methyl-2-Pentanone	10	10	U	10 U
2-Hexanone	10	10	U	10 U
Tetrachloroethene	10	10	U	10 U
1,1,2,2-Tetrachloroethane	10	10	U	10 U
Toluene	10	10	U	10 U
Chlorobenzene	10	10	U	10 U
Ethylbenzene	10	10	U	10 U
Styrene	10	10	U	10 U
Total Xylenes	10	10	U	10 U
Dilution Factor:		1.00	1.00	1.00

Associated Method Blank: E6143 K2889 K2927
 Associated Equipment Blank: - - -
 Associated Field Blank: - - -
 Associated Trip Blank: - - -

Site: STAUFFER CHEMICAL

Table 1
Laboratory Report of Analysis

SAMPLE LOCATION: SCQS001XXX92SB SCQS001XXX92XX SCQS002XXX92XX
LAB NUMBER: 1269714 1315023 1315024
DATE SAMPLED: 05/29/92 06/30/92 06/30/92
DATE ANALYZED: 06/04/92 07/06/92 07/08/92

ANALYTE	SQU-03/90 - 11 CRQL			
Chloromethane	10	10	10	10
Bromomethane	10	10	10	10
Vinyl Chloride	10	10	10	10
Chloroethane	10	10	10	10
Methylene Chloride	10	3 BJ	11 B	4 BJ
Acetone	10	10	27 B	6 BJ
Carbon Disulfide	10	10	10	10
1,1-Dichloroethene	10	10	10	10
1,1-Dichloroethane	10	10	10	10
1,2-Dichloroethene (total)	10	10	10	10
Chloroform	10	10	10	10
1,2-Dichloroethane	10	10	10	10
2-Butanone	10	10	5 BJ	10
1,1,1-Trichloroethane	10	10	10	10
Carbon Tetrachloride	10	10	10	10
Bromodichloromethane	10	10	10	10
1,2-Dichloropropane	10	10	10	10
cis-1,3-Dichloropropene	10	10	10	10
Trichloroethene	10	10	10	10
Dibromochloromethane	10	10	10	10
1,1,2-Trichloroethane	10	10	10	10
Benzene	10	10	10	10
trans-1,3-Dichloropropene	10	10	10	10
Bromoform	10	10	10	10
4-Methyl-2-Pentanone	10	10	10	10
2-Hexanone	10	10	10	10
Tetrachloroethene	10	10	10	10
1,1,2,2-Tetrachloroethane	10	10	10	10
Toluene	10	10	10	10
Chlorobenzene	10	10	10	10
Ethylbenzene	10	10	10	10
Styrene	10	10	10	10
Total Xylenes	10	10	10	10
Dilution Factor: 1.00 1.00 1.00				

Associated Method Blank: E6143 K2889 K2927
Associated Equipment Blank: - - -
Associated Field Blank: - - -
Associated Trip Blank: - - -

Site: STAUFFER CHEMICAL

Table 1
Laboratory Report of Analysis

SAMPLE LOCATION: SCQT001XXX92XX
LAB NUMBER: 1315025
DATE SAMPLED: 06/30/92
DATE ANALYZED: 07/08/92

ANALYTE	SOW-03/90 - II CRQL	
Chloromethane	10	10 U
Bromomethane	10	10 U
Vinyl Chloride	10	10 U
Chloroethane	10	10 U
Methylene Chloride	10	4 BJ
Acetone	10	6 BJ
Carbon Disulfide	10	10 U
1,1-Dichloroethene	10	10 U
1,1-Dichloroethane	10	10 U
1,2-Dichloroethene (total)	10	10 U
Chloroform	10	10 U
1,2-Dichloroethane	10	10 U
2-Butanone	10	10 U
1,1,1-Trichloroethane	10	10 U
Carbon Tetrachloride	10	10 U
Bromodichloromethane	10	10 U
1,2-Dichloropropane	10	10 U
cis-1,3-Dichloropropene	10	10 U
Trichloroethene	10	10 U
Dibromochloromethane	10	10 U
1,1,2-Trichloroethane	10	10 U
Benzene	10	10 U
trans-1,3-Dichloropropene	10	10 U
Bromoform	10	10 U
4-Methyl-2-Pentanone	10	10 U
2-Hexanone	10	10 U
Tetrachloroethene	10	10 U
1,1,2,2-Tetrachloroethane	10	10 U
Toluene	10	10 U
Chlorobenzene	10	10 U
Ethylbenzene	10	10 U
Styrene	10	10 U
Total Xylenes	10	10 U
Dilution Factor:		1.00

Associated Method Blank: K2927
Associated Equipment Blank: -
Associated Field Blank: -
Associated Trip Blank: -

Site: STAUFFER CHEMICAL

Table 1
Laboratory Report of AnalysisSAMPLE LOCATION: SCQT001XXX92XX
LAB NUMBER: 1315025
DATE SAMPLED: 06/30/92
DATE ANALYZED: 07/08/92

ANALYTE	SOW-03/90 - II CRQL	
Chloromethane	10	10 U
Bromomethane	10	10 U
Vinyl Chloride	10	10 U
Chloroethane	10	10 U
Methylene Chloride	10	4 BJ
Acetone	10	6 BJ
Carbon Disulfide	10	10 U
1,1-Dichloroethene	10	10 U
1,1-Dichloroethane	10	10 U
1,2-Dichloroethene (total)	10	10 U
Chloroform	10	10 U
1,2-Dichloroethane	10	10 U
2-Butanone	10	10 U
1,1,1-Trichloroethane	10	10 U
Carbon Tetrachloride	10	10 U
Bromodichloromethane	10	10 U
1,2-Dichloropropane	10	10 U
cis-1,3-Dichloropropene	10	10 U
Trichloroethene	10	10 U
Dibromochloromethane	10	10 U
1,1,2-Trichloroethane	10	10 U
Benzene	10	10 U
trans-1,3-Dichloropropene	10	10 U
Bromoform	10	10 U
4-Methyl-2-Pentanone	10	10 U
2-Hexanone	10	10 U
Tetrachloroethene	10	10 U
1,1,2,2-Tetrachloroethane	10	10 U
Toluene	10	10 U
Chlorobenzene	10	10 U
Ethylbenzene	10	10 U
Styrene	10	10 U
Total Xylenes	10	10 U
Dilution Factor:		1.00

Associated Method Blank: K2927
Associated Equipment Blank: -
Associated Field Blank: -
Associated Trip Blank: -

Site: STAUFFER CHEMICAL

Table 1
Laboratory Report of Analysis

ANALYTE	SOW-03/90 - II CRQL	SAMPLE LOCATION: SCHW001XXX92XX	SCHW002XXX92XD	SCHW002XXX92XX	SCHW003XXX92XX	SCHW003XXX92XX	SCHW003XXX92XX	SCHW004XXX92XX	SCHW004XXX92XX	SCHW006XXX92XX	SCHW007XXX92XX
		LAB NUMBER: 1315008 #	1315011 #	1315010 #	1315016 #	1315016 R #	1315009 #	1315015 #	1315014 #		
		DATE SAMPLED: 06/29/92	06/29/92	06/29/92	06/30/92	06/30/92	06/29/92	06/29/92	06/29/92		
		DATE EXTRACTED: 07/05/92	07/05/92	07/05/92	07/05/92	07/13/92	07/05/92	07/05/92	07/05/92		
		DATE ANALYZED: 07/10/92	07/11/92	07/10/92	07/10/92	07/17/92	07/10/92	07/10/92	07/10/92		
Phenol	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethyl)ether	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylphenol	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,2'-oxybis(1-Chloropropane)	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methylphenol	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachloroethane	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Nitrobenzene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Isophorone	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Nitrophenol	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dimethylphenol	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethoxy)methane	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dichlorophenol	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloro-3-Methylphenol	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol	25	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
2,4,5-Trichlorophenol	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chloronaphthalene	25	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
2-Nitroaniline	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dimethylphthalate	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U

Site: STAUFFER CHEMICAL
#: Level IV Validation

Table 1

Associated Method Blank:
Associated Equipment Blank:
Associated Field Blank:

page 1b

Table 2
Validation / Summary Table

ANALYTE	SOW-03/90 - II CRQL		SAMPLE LOCATION: SCMW001XXX92XX		SCMW002XXX92XD		SCMW002XXX92XX		SCMW003XXX92XX		SCMW004XXX92XX		SCMW006XXX92XX		SCMW007XXX92XX							
	LAB NUMBER:	1315008 #	DATE SAMPLED:	06/29/92	DATE EXTRACTED:	07/05/92	DATE ANALYZED:	07/10/92	1315008 #	06/29/92	1315011 #	06/29/92	1315010 #	06/29/92	1315016 R #	06/30/92	1315009 #	06/29/92	1315015 #	06/29/92	1315014 #	06/29/92
	DATE EXTRACTED:	07/05/92	DATE ANALYZED:	07/10/92	1315008 #	06/29/92	1315011 #	06/29/92	1315010 #	06/29/92	1315016 R #	06/30/92	1315009 #	06/29/92	1315015 #	06/29/92	1315014 #	06/29/92	1315015 #	06/29/92	1315014 #	06/29/92
	DATE ANALYZED:	07/10/92	07/11/92	07/10/92	07/10/92	07/10/92	07/10/92	07/10/92	07/10/92	07/10/92	07/10/92	07/10/92	07/10/92	07/10/92	07/10/92	07/10/92	07/10/92	07/10/92	07/10/92	07/10/92	07/10/92	07/10/92
Phenol	10	U	10	U	10	U	10	U	10	U	10	UJ	10	U	10	U	10	U	10	U	10	U
bis(2-Chloroethyl) ether	10	U	10	U	10	U	10	U	10	U	10	UJ	10	U	10	U	10	U	10	U	10	U
2-Chlorophenol	10	U	10	U	10	U	10	U	10	U	10	UJ	10	U	10	U	10	U	10	U	10	U
1,3-Dichlorobenzene	10	U	10	U	10	U	10	U	10	U	10	UJ	10	U	10	U	10	U	10	U	10	U
1,4-Dichlorobenzene	10	U	10	U	10	U	10	U	10	U	10	UJ	10	U	10	U	10	U	10	U	10	U
1,2-Dichlorobenzene	10	U	10	U	10	U	10	U	10	U	10	UJ	10	U	10	U	10	U	10	U	10	U
2-Methylphenol	10	U	10	U	10	U	10	U	10	U	10	UJ	10	U	10	U	10	U	10	U	10	U
2,2'-oxybis(1-Chloropropane)	10	U	10	U	10	U	10	U	10	U	10	UJ	10	U	10	U	10	U	10	U	10	U
4-Methylphenol	10	U	10	U	10	U	10	U	10	U	10	UJ	10	U	10	U	10	U	10	U	10	U
N-Nitroso-di-n-propylamine	10	U	10	U	10	U	10	U	10	U	10	UJ	10	U	10	U	10	U	10	U	10	U
Hexachloroethane	10	U	10	U	10	U	10	U	10	U	10	UJ	10	U	10	U	10	U	10	U	10	U
Nitrobenzene	10	U	10	U	10	U	10	U	10	U	10	UJ	10	U	10	U	10	U	10	U	10	U
Isophorone	10	U	10	U	10	U	10	U	10	U	10	UJ	10	U	10	U	10	U	10	U	10	U
2-Nitrophenol	10	U	10	U	10	U	10	U	10	U	10	UJ	10	U	10	U	10	U	10	U	10	U
2,4-Dimethylphenol	10	U	10	U	10	U	10	U	10	U	10	UJ	10	U	10	U	10	U	10	U	10	U
bis(2-Chloroethoxy)methane	10	U	10	U	10	U	10	U	10	U	10	UJ	10	U	10	U	10	U	10	U	10	U
2,4-Dichlorophenol	10	U	10	U	10	U	10	U	10	U	10	UJ	10	U	10	U	10	U	10	U	10	U
1,2,4-Trichlorobenzene	10	U	10	U	10	U	10	U	10	U	10	UJ	10	U	10	U	10	U	10	U	10	U
Naphthalene	10	U	10	U	10	U	10	U	10	U	10	UJ	10	U	10	U	10	U	10	U	10	U
4-Chloroaniline	10	U	10	U	10	U	10	U	10	U	10	UJ	10	U	10	U	10	U	10	U	10	U
Hexachlorobutadiene	10	U	10	U	10	U	10	U	10	U	10	UJ	10	U	10	U	10	U	10	U	10	U
4-Chloro-3-Methylphenol	10	U	10	U	10	U	10	U	10	U	10	UJ	10	U	10	U	10	U	10	U	10	U
2-Methylnaphthalene	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ
Hexachlorocyclopentadiene	10	U	10	U	10	U	10	U	10	U	10	UJ	10	U	10	U	10	U	10	U	10	U
2,4,6-Trichlorophenol	25	U	25	U	25	U	25	U	25	U	25	UJ	25	U	25	U	25	U	25	U	25	U
2,4,5-Trichlorophenol	25	U	25	U	25	U	25	U	25	U	25	UJ	25	U	25	U	25	U	25	U	25	U
2-Chloronaphthalene	10	U	10	U	10	U	10	U	10	U	10	UJ	10	U	10	U	10	U	10	U	10	U
2-Nitroaniline	25	U	25	U	25	U	25	U	25	U	25	UJ	25	U	25	U	25	U	25	U	25	U
Dimethylphthalate	10	U	10	U	10	U	10	U	10	U	10	UJ	10	U	10	U	10	U	10	U	10	U
Acenaphthylene	10	U	10	U	10	U	10	U	10	U	10	UJ	10	U	10	U	10	U	10	U	10	U
2,6-Dinitrotoluene	10	U	10	U	10	U	10	U	10	U	10	UJ	10	U	10	U	10	U	10	U	10	U

Site: STAUFFER CHEMICAL
#: Level IV Validation

Table 2

Dilution Factor:	1.00	1.00	1.00	1.00	1.00

F1873
X92XX

Table 3
Summary Table

SAMPLE LOCATION: SCHW001XXX92XX									
LAB NUMBER: 1315008 #									
DATE SAMPLED: 06/29/92									
DATE EXTRACTED: 07/05/92									
DATE ANALYZED: 07/10/92									
SCHW002XXX92XD									
1315011 #									
06/29/92									
07/05/92									
07/11/92									
SCHW002XXX92XX									
1315010 #									
06/29/92									
07/05/92									
07/10/92									
SCHW003XXX92XX									
1315016 R #									
06/30/92									
07/13/92									
07/17/92									
SCHW004XXX92XX									
1315009 #									
06/29/92									
07/05/92									
07/10/92									
SCHW006XXX92XX									
1315015 #									
06/29/92									
07/05/92									
07/10/92									
SCHW007XXX92XX									
1315014 #									
06/29/92									
07/05/92									
07/10/92									
ANALYTE									
SCHW-03/90 - 11 CRQL									
Phenol	10	-	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	10	-	-	-	-	-	-	-	-
2-Chlorophenol	10	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	10	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	10	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	10	-	-	-	-	-	-	-	-
2-Methylphenol	10	-	-	-	-	-	-	-	-
2,2'-oxybis(1-Chloropropane)	10	-	-	-	-	-	-	-	-
4-Methylphenol	10	-	-	-	-	-	-	-	-
N-Nitroso-di-n-propylamine	10	-	-	-	-	-	-	-	-
Hexachloroethane	10	-	-	-	-	-	-	-	-
Nitrobenzene	10	-	-	-	-	-	-	-	-
Isophorone	10	-	-	-	-	-	-	-	-
2-Nitrophenol	10	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	10	-	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	10	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	10	-	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	10	-	-	-	-	-	-	-	-
Naphthalene	10	-	-	-	-	-	-	-	-
4-Chloroaniline	10	-	-	-	-	-	-	-	-
Hexachlorobutadiene	10	-	-	-	-	-	-	-	-
4-Chloro-3-Methylphenol	10	-	-	-	-	-	-	-	-
2-Methylnaphthalene	10	-	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	10	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	10	-	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	25	-	-	-	-	-	-	-	-
2-Chloronaphthalene	10	-	-	-	-	-	-	-	-
2-Nitroaniline	25	-	-	-	-	-	-	-	-
Dimethylphthalate	10	-	-	-	-	-	-	-	-
Acenaphthylene	10	-	-	-	-	-	-	-	-
2,6-Dinitrotoluene	10	-	-	-	-	-	-	-	-

Site: STAUFFER CHEMICAL
#: Level IV Validation

Table 3
Summary Table

SAMPLE LOCATION: SCHW001XXX92XX SCHW002XXX92X0 SCHW002XXX92XX SCHW003XXX92XX SCHW004XXX92XX SCHW006XXX92XX SCHW007XXX92XX													
LAB NUMBER: 1315008 #		1315011 #		1315010 #		1315016 R #		1315009 #		1315015 #		1315014 #	
DATE SAMPLED: 06/29/92		06/29/92		06/29/92		06/30/92		06/29/92		06/29/92		06/29/92	
DATE EXTRACTED: 07/05/92		07/05/92		07/05/92		07/13/92		07/05/92		07/05/92		07/05/92	
DATE ANALYZED: 07/10/92		07/11/92		07/10/92		07/17/92		07/10/92		07/10/92		07/10/92	
SOL-03/90 - II CRQL													
ANALYTE													
3-Nitroaniline	25	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthene	10	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrophenol	25	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	25	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	10	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	10	-	-	-	-	-	-	-	-	-	-	-	-
Diethylphthalate	10	-	-	-	-	-	-	-	-	-	-	-	-
4-Chlorophenyl-phenylether	10	-	-	-	-	-	-	-	-	-	-	-	-
Fluorene	10	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitroaniline	25	-	-	-	-	-	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	25	-	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	10	-	-	-	-	-	-	-	-	-	-	-	-
4-Bromophenyl-phenylether	10	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobenzene	10	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	25	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	10	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	10	-	-	-	-	-	-	-	-	-	-	-	-
Carbazole	10	-	-	-	-	-	-	-	-	-	-	-	-
Di-n-butylphthalate	10	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	10	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	10	-	-	-	-	-	-	-	-	-	-	-	-
Butylbenzylphthalate	10	-	-	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	10	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)Anthracene	10	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	10	-	-	-	-	-	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate	10	-	-	-	-	-	-	-	-	-	-	-	-
Di-n-octylphthalate	10	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)Fluoranthene	10	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)Fluoranthene	10	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)Pyrene	10	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-c,d)pyrene	10	-	-	-	-	-	-	-	-	-	-	-	-
Dibenz(a,h)Anthracene	10	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	10	-	-	-	-	-	-	-	-	-	-	-	-
Dilution Factor: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00													
Associated Method Blank: F1873 F1873 F1873 F1969 F1873 F1873 F1873 F1873													
Associated Equipment Blank: SCQS001XXX92XX SCQS001XXX92XX SCQS001XXX92XX SCQS001XXX92XX SCQS001XXX92XX SCQS001XXX92XX SCQS001XXX92XX													
Associated Field Blank: - - - - - - - - - - - - - - -													

Site: STAUFFER CHEMICAL
#: Level IV Validation

Table 1
Laboratory Report of Analysis

SAMPLE LOCATION: SCQS001XXX92S8 SCQS001XXX92XX SCQS002XXX92XX
LAB NUMBER: 1269714 1315023 1315024
DATE SAMPLED: 05/29/92 06/30/92 06/30/92
DATE EXTRACTED: 06/03/92 07/05/92 07/05/92
DATE ANALYZED: 06/12/92 07/10/92 07/10/92

ANALYTE	SDW-03/90 - II CRQL			
Phenol	10	10	U	10
bis(2-Chloroethyl)ether	10	10	U	10
2-Chlorophenol	10	10	U	10
1,3-Dichlorobenzene	10	10	U	10
1,4-Dichlorobenzene	10	10	U	10
1,2-Dichlorobenzene	10	10	U	10
2-Methylphenol	10	10	U	10
2,2'-oxybis(1-Chloropropane)	10	10	U	10
4-Methylphenol	10	10	U	10
N-Nitroso-di-n-propylamine	10	10	U	10
Hexachloroethane	10	10	U	10
Nitrobenzene	10	10	U	10
Isophorone	10	10	U	10
2-Nitrophenol	10	10	U	10
2,4-Dimethylphenol	10	10	U	10
bis(2-Chloroethoxy)methane	10	10	U	10
2,4-Dichlorophenol	10	10	U	10
1,2,4-Trichlorobenzene	10	10	U	10
Naphthalene	10	10	U	10
4-Chloroaniline	10	10	U	10
Hexachlorobutadiene	10	10	U	10
4-Chloro-3-Methylphenol	10	10	U	10
2-Methylnaphthalene	10	10	U	10
Hexachlorocyclopentadiene	10	10	U	10
2,4,6-Trichlorophenol	10	10	U	10
2,4,5-Trichlorophenol	25	25	U	25
2-Chloronaphthalene	10	10	U	10
2-Nitroaniline	25	25	U	25
Dimethylphthalate	10	10	U	10
Acenaphthylene	10	10	U	10
2,6-Dinitrotoluene	10	10	U	10

Site: STAUFFER CHEMICAL

Table 1
Laboratory Report of Analysis

SAMPLE LOCATION: SCQS001XXX92S8 SCQS001XXX92XX SCQS002XXX92XX
LAB NUMBER: 1269714 1315023 1315024
DATE SAMPLED: 05/29/92 06/30/92 06/30/92
DATE EXTRACTED: 06/03/92 07/05/92 07/05/92
DATE ANALYZED: 06/12/92 07/10/92 07/10/92

ANALYTE	SOW-03/90 - II CROL			
3-Nitroaniline	25	25	25	25
Acenaphthene	10	10	10	10
2,4-Dinitrophenol	25	25	25	25
4-Nitrophenol	25	25	25	25
Dibenzofuran	10	10	10	10
2,4-Dinitrotoluene	10	10	10	10
Diethylphthalate	10	10	10	10
4-Chlorophenyl-phenylether	10	10	10	10
Fluorene	10	10	10	10
4-Nitroaniline	25	25	25	25
4,6-Dinitro-2-methylphenol	25	25	25	25
N-Nitrosodiphenylamine	10	10	10	10
4-Bromophenyl-phenylether	10	10	10	10
Hexachlorobenzene	10	10	10	10
Pentachlorophenol	25	25	25	25
Phenanthrene	10	10	10	10
Anthracene	10	10	10	10
Carbazole	10	10	10	10
Di-n-butylphthalate	10	10	10	10
Fluoranthene	10	10	10	10
Pyrene	10	10	10	10
Butylbenzylphthalate	10	10	10	10
3,3'-Dichlorobenzidine	10	10	10	10
Benzo(a)Anthracene	10	10	10	10
Chrysene	10	10	10	10
bis(2-Ethylhexyl)phthalate	10	15	2	1
Di-n-octylphthalate	10	10	10	10
Benzo(b)Fluoranthene	10	10	10	10
Benzo(k)Fluoranthene	10	10	10	10
Benzo(a)Pyrene	10	10	10	10
Indeno(1,2,3-c,d)Pyrene	10	10	10	10
Dibenz(a,h)Anthracene	10	10	10	10
Benzo(g,h,i)perylene	10	10	10	10

Dilution Factor:

1.00 1.00 1.00

Associated Method Blank:
Associated Equipment Blank:
Associated Field Blank:

F1873

F1873

H6217

Site: STAUFFER CHEMICAL

Table 1
Laboratory Report of Analysis

SAMPLE LOCATION: SCQS001XXX92SB SCQS001XXX92XX SCQS002XXX92XX
LAB NUMBER: 1269714 1315023 1315024
DATE SAMPLED: 05/29/92 06/30/92 06/30/92
DATE EXTRACTED: 06/03/92 07/05/92 07/05/92
DATE ANALYZED: 06/12/92 07/10/92 07/10/92

ANALYTE	SOW-03/90 - 11 CRQL				
Phenol	10	10	U	10	U
Bis(2-Chloroethyl)ether	10	10	U	10	U
2-Chlorophenol	10	10	U	10	U
1,3-Dichlorobenzene	10	10	U	10	U
1,4-Dichlorobenzene	10	10	U	10	U
1,2-Dichlorobenzene	10	10	U	10	U
2-Methylphenol	10	10	U	10	U
2,2'-oxybis(1-Chloropropane)	10	10	U	10	U
4-Methylphenol	10	10	U	10	U
N-Nitroso-di-n-propylamine	10	10	U	10	U
Hexachloroethane	10	10	U	10	U
Nitrobenzene	10	10	U	10	U
Isophorone	10	10	U	10	U
2-Nitrophenol	10	10	U	10	U
2,4-Dimethylphenol	10	10	U	10	U
Bis(2-Chloroethoxy)methane	10	10	U	10	U
2,4-Dichlorophenol	10	10	U	10	U
1,2,4-Trichlorobenzene	10	10	U	10	U
Naphthalene	10	10	U	10	U
4-Chloroaniline	10	10	U	10	U
Hexachlorobutadiene	10	10	U	10	U
4-Chloro-3-Methylphenol	10	10	U	10	U
2-Methylnaphthalene	10	10	U	10	U
Hexachlorocyclopentadiene	10	10	U	10	U
2,4,6-Trichlorophenol	25	25	U	25	U
2,4,5-Trichlorophenol	25	25	U	25	U
2-Chloronaphthalene	10	10	U	10	U
2-Nitroaniline	25	25	U	25	U
Dimethylphthalate	10	10	U	10	U
Acenaphthylene	10	10	U	10	U
2,6-Dinitrotoluene	10	10	U	10	U

Site: STAUFFER CHEMICAL

Table 1
Laboratory Report of Analysis

SAMPLE LOCATION: SCOS001XX92SB SCOS001XX92XX SCOS002XX92XX
LAB NUMBER: 1269714 1315023 1315024
DATE SAMPLED: 05/29/92 06/30/92 06/30/92
DATE EXTRACTED: 06/03/92 07/05/92 07/05/92
DATE ANALYZED: 06/12/92 07/10/92 07/10/92

ANALYTE	SOW-03/90 - II CRQL			
3-Nitroaniline	25	25	25	25
Acenaphthene	10	10	10	10
2,4-Dinitrophenol	25	25	25	25
4-Nitrophenol	25	25	25	25
Dibenzofuran	10	10	10	10
2,4-Dinitrotoluene	10	10	10	10
Diethylphthalate	10	10	10	10
4-Chlorophenyl-phenylether	10	10	10	10
Fluorene	10	10	10	10
4-Nitroaniline	25	25	25	25
4,6-Dinitro-2-methylphenol	25	25	25	25
N-Nitrosodiphenylamine	10	10	10	10
4-Bromophenyl-phenylether	10	10	10	10
Hexachlorobenzene	10	10	10	10
Pentachlorophenol	25	25	25	25
Phenanthrene	10	10	10	10
Anthracene	10	10	10	10
Carbazole	10	10	10	10
Di-n-butylphthalate	10	10	10	10
Fluoranthene	10	10	10	10
Pyrene	10	10	10	10
Butylbenzylphthalate	10	10	10	10
3,3'-Dichlorobenzidine	10	10	10	10
Benzo(a)Anthracene	10	10	10	10
Chrysene	10	10	10	10
bis(2-Ethylhexyl)phthalate	10	15	2	1
Di-n-octylphthalate	10	10	10	10
Benzo(b)Fluoranthene	10	10	10	10
Benzo(k)Fluoranthene	10	10	10	10
Benzo(a)Pyrene	10	10	10	10
Indeno(1,2,3-c,d)Pyrene	10	10	10	10
Dibenz(a,h)Anthracene	10	10	10	10
Benzo(g,h,i)perylene	10	10	10	10

Dilution Factor:

1.00

2.00

2.00

Associated Method Blank:
Associated Equipment Blank:
Associated Field Blank:

H6217

F1873

F1873

Site: STAUFFER CHEMICAL

Table 1
Laboratory Report of Analysis

ANALYTE	SOW-03/90 - II CRQL	DATE SAMPLED:	DATE EXTRACTED:	DATE ANALYZED:	SCMW001XXX92XX	SCMW002XXX92XD	SCMW002XXX92XX	SCMW003XXX92XX	SCMW004XXX92XX	SCMW006XXX92XX	SCMW007XXX92XX
		LAB NUMBER:	1315008 #	1315011 #	1315010 #	1315016 #	1315009 #	1315015 #	1315014 #		
		DATE SAMPLED:	06/29/92	06/29/92	06/30/92	06/29/92	06/29/92	06/29/92	06/29/92	06/29/92	06/29/92
		DATE EXTRACTED:	07/06/92	07/06/92	07/06/92	07/06/92	07/06/92	07/06/92	07/06/92	07/06/92	07/06/92
		DATE ANALYZED:	07/18/92	07/18/92	07/18/92	07/18/92	07/18/92	07/18/92	07/18/92	07/18/92	07/18/92
alpha-BHC	0.05	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
beta-BHC	0.05	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
delta-BHC	0.05	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
gamma-BHC (Lindane)	0.05	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
Heptachlor	0.05	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
Aldrin	0.05	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
Heptachlor Epoxide	0.05	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
Endosulfan I	0.05	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
Diieldrin	0.1	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
4,4'-DDE	0.1	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
Endrin	0.1	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
Endosulfan II	0.1	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
4,4'-DDD	0.1	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
Endrin Aldehyde	0.1	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
Endosulfan Sulfate	0.1	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
4,4'-DDT	0.1	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
Methoxychlor	0.5	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Endrin Ketone	0.1	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
alpha-Chlor-dane	0.05	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
gamma-Chlordane	0.05	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
Toxaphene	5	5	U	5	U	5	U	5	U	5	U
Aroclor-1016	1	1	U	1	U	1	U	1	U	1	U
Aroclor-1221	2	2	U	2	U	2	U	2	U	2	U
Aroclor-1232	1	1	U	1	U	1	U	1	U	1	U
Aroclor-1242	1	1	U	1	U	1	U	1	U	1	U
Aroclor-1248	1	1	U	1	U	1	U	1	U	1	U
Aroclor-1254	1	1	U	1	U	1	U	1	U	1	U
Aroclor-1260	1	1	U	1	U	1	U	1	U	1	U
Dilution Factor:		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Associated Method Blank:
Associated Equipment Blank:
Associated Field Blank:

PBLK398

PBLK398

PBLK398

PBLK398

PBLK398

PBLK398

PBLK398

PBLK398

PBLK398

PBLK398

Site: STAUFFER CHEMICAL
#: Level IV Validation

Pesticides/PCBs Aqueous Analysis (ug/L)

PROJECT: NYSDEC PSA-6 Stauffer Chemical

Table 2
Validation / Summary Table

SAMPLE LOCATION: SCMU001XXX92XX		SCMU002XXX92X0		SCMU003XXX92XX		SCMU004XXX92XX		SCMU006XXX92XX		SCMU007XXX92XX	
LAB NUMBER:	1315008 #	1315011 #	1315010 #	1315016 #	1315009 #	1315015 #	1315014 #	DATE SAMPLED:	06/29/92	06/29/92	06/29/92
DATE EXTRACTED:	07/06/92	07/06/92	07/06/92	07/06/92	07/06/92	07/06/92	07/06/92	DATE EXTRACTED:	07/06/92	07/06/92	07/06/92
DATE ANALYZED:	07/18/92	07/18/92	07/18/92	07/18/92	07/18/92	07/18/92	07/18/92	DATE ANALYZED:	07/18/92	07/18/92	07/18/92
ANALYTE	SOW-03/90 - II CRQL										
alpha-BHC	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
beta-BHC	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
delta-BHC	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
gamma-BHC (Lindane)	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Heptachlor	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Aldrin	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Heptachlor Epoxide	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Endosulfan I	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Dieldrin	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
4,4'-DDE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Endrin	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Endosulfan II	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
4,4'-DDD	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Endrin Aldehyde	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Endosulfan Sulfate	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
4,4'-DDT	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Methoxychlor	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Endrin Ketone	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
alpha-Chlordane	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
gamma-Chlordane	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Toxaphene	5	5	5	5	5	5	5	5	5	5	5
Aroclor-1016	1	1	1	1	1	1	1	1	1	1	1
Aroclor-1221	2	2	2	2	2	2	2	2	2	2	2
Aroclor-1232	1	1	1	1	1	1	1	1	1	1	1
Aroclor-1242	1	1	1	1	1	1	1	1	1	1	1
Aroclor-1248	1	1	1	1	1	1	1	1	1	1	1
Aroclor-1254	1	1	1	1	1	1	1	1	1	1	1
Aroclor-1260	1	1	1	1	1	1	1	1	1	1	1
Dilution Factor: 1.00											

Associated Method Blank:	PBLK398	PBLK398	PBLK398	PBLK398	PBLK398
Associated Equipment Blank:	SCQS001XXX92XX	SCQS001XXX92XX	SCQS001XXX92XX	SCQS001XXX92XX	SCQS001XXX92XX
Associated Field Blank:	-	-	-	-	-

Site: STAUFFER CHEMICAL
#: Level IV Validation

Table 3
Summary Table

ANALYTE	SOW-03/90 - II CRQL	SAMPLE LOCATION: SCHW001XXX92XX	SCHW002XXX92XD	SCHW002XXX92XX	SCHW002XXX92XX	SCHW003XXX92XX	SCHW004XXX92XX	SCHW006XXX92XX	SCHW007XXX92XX
		LAB NUMBER: 1315008 #	1315011 #	1315010 #	1315016 #	1315009 #	1315015 #	1315014 #	
		DATE SAMPLED: 06/29/92	06/29/92	06/29/92	06/30/92	06/29/92	06/29/92	06/29/92	
		DATE EXTRACTED: 07/06/92	07/06/92	07/06/92	07/06/92	07/06/92	07/06/92	07/06/92	
		DATE ANALYZED: 07/18/92	07/18/92	07/18/92	07/18/92	07/18/92	07/18/92	07/18/92	
alpha-BHC	0.05	-	R	R	-	-	-	-	-
beta-BHC	0.05	-	R	R	-	-	-	-	-
delta-BHC	0.05	-	R	R	-	-	-	-	-
gamma-BHC (Lindane)	0.05	-	R	R	-	-	-	-	-
Heptachlor	0.05	-	R	R	-	-	-	-	-
Aldrin	0.05	-	R	R	-	-	-	-	-
Heptachlor Epoxide	0.05	-	R	R	-	-	-	-	-
Endosulfan I	0.05	-	R	R	-	-	-	-	-
Dieldrin	0.1	-	R	R	-	-	-	-	-
4,4'-DDE	0.1	-	R	R	-	-	-	-	-
Endrin	0.1	-	R	R	-	-	-	-	-
Endosulfan II	0.1	-	R	R	-	-	-	-	-
4,4'-DDD	0.1	-	R	R	-	-	-	-	-
Endrin Aldehyde	0.1	-	R	R	-	-	-	-	-
Endosulfan Sulfate	0.1	-	R	R	-	-	-	-	-
4,4'-DDT	0.1	-	R	R	-	-	-	-	-
Methoxychlor	0.5	-	R	R	-	-	-	-	-
Endrin ketone	0.1	-	R	R	-	-	-	-	-
alpha-Chlordane	0.05	-	R	R	-	-	-	-	-
gamma-Chlordane	0.05	-	R	R	-	-	-	-	-
Toxaphene	5	-	R	R	-	-	-	-	-
Aroclor-1016	1	-	R	R	-	-	-	-	-
Aroclor-1221	2	-	R	R	-	-	-	-	-
Aroclor-1232	1	-	R	R	-	-	-	-	-
Aroclor-1242	1	-	R	R	-	-	-	-	-
Aroclor-1248	1	-	R	R	-	-	-	-	-
Aroclor-1254	1	-	R	R	-	-	-	-	-
Aroclor-1260	1	-	R	R	-	-	-	-	-
Dilution Factor:		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Associated Method Blank: PBLK398
Associated Equipment Blank: SCQS001XXX92XX
Associated Field Blank: SCQS001XXX92XX

Site: STAUFFER CHEMICAL
#: Level IV Validation

Table 1
Laboratory Report of Analysis

SAMPLE LOCATION: SCQS001XXX92SB SCQS001XXX92XX SCQS002XXX92XX
 LAB NUMBER: 1269714 1315023 1315024
 DATE SAMPLED: 05/29/92 06/30/92 06/30/92
 DATE EXTRACTED: 06/03/92 07/06/92 07/06/92
 DATE ANALYZED: 06/24/92 07/18/92 07/18/92

ANALYTE	SOW-03/90 - II CRQL				
alpha-BHC	0.05	0.05	U	0.05	U
beta-BHC	0.05	0.05	U	0.05	U
delta-BHC	0.05	0.05	U	0.05	U
gamma-BHC (Lindane)	0.05	0.05	U	0.05	U
Heptachlor	0.05	0.078	P	0.05	U
Aldrin	0.05	0.05	U	0.05	U
Heptachlor Epoxide	0.05	0.05	U	0.05	U
Endosulfan I	0.05	0.05	U	0.05	U
Dieldrin	0.1	0.1	U	0.1	U
4,4'-DDE	0.1	0.1	U	0.1	U
Endrin	0.1	0.1	U	0.1	U
Endosulfan II	0.1	0.1	U	0.1	U
4,4'-DDD	0.1	0.1	U	0.1	U
Endrin Aldehyde	0.1	0.1	U	0.1	U
Endosulfan Sulfate	0.1	0.1	U	0.1	U
4,4'-DDT	0.1	0.1	U	0.1	U
Methoxychlor	0.5	0.5	U	0.5	U
Endrin Ketone	0.1	0.1	U	0.1	U
alpha-Chlordane	0.05	0.05	U	0.05	U
gamma-Chlordane	0.05	0.05	U	0.05	U
Toxaphene	5	5	U	5	U
Aroclor-1016	1	1	U	1	U
Aroclor-1221	2	2	U	2	U
Aroclor-1232	1	1	U	1	U
Aroclor-1242	1	1	U	1	U
Aroclor-1248	1	1	U	1	U
Aroclor-1254	1	1	U	1	U
Aroclor-1260	1	1	U	1	U
Dilution Factor:		1.00	1.00	1.00	1.00

Associated Method Blank: PBLK467
 Associated Equipment Blank: PBLK398
 Associated Field Blank: PBLK398

Site: STAUFFER CHEMICAL

Table 1
Laboratory Report of Analysis

ANALYTE	SOW-03/90 - II CRQL			
	SCQS001XXX92S8	SCQS001XXX92XX	SCQS002XXX92XX	
alpha-BHC	0.05	0.05 U	0.05 U	0.05 U
beta-BHC	0.05	0.05 U	0.05 U	0.05 U
delta-BHC	0.05	0.05 U	0.05 U	0.05 U
gamma-BHC (Lindane)	0.05	0.05 U	0.05 U	0.05 U
Heptachlor	0.05	0.078 P	0.05 U	0.05 U
Aldrin	0.05	0.05 U	0.05 U	0.05 U
Heptachlor Epoxide	0.05	0.05 U	0.05 U	0.05 U
Endosulfan I	0.05	0.05 U	0.05 U	0.05 U
Dieldrin	0.1	0.1 U	0.1 U	0.1 U
4,4'-DDE	0.1	0.1 U	0.1 U	0.1 U
Endrin	0.1	0.1 U	0.1 U	0.1 U
Endosulfan II	0.1	0.1 U	0.1 U	0.1 U
4,4'-DDD	0.1	0.1 U	0.1 U	0.1 U
Endrin Aldehyde	0.1	0.1 U	0.1 U	0.1 U
Endosulfan Sulfate	0.1	0.1 U	0.1 U	0.1 U
4,4'-DDT	0.1	0.1 U	0.1 U	0.1 U
Methoxychlor	0.5	0.5 U	0.5 U	0.5 U
Endrin Ketone	0.1	0.1 U	0.1 U	0.1 U
alpha-Chlordane	0.05	0.05 U	0.05 U	0.05 U
gamma-Chlordane	0.05	0.05 U	0.05 U	0.05 U
Toxaphene	5	5 U	5 U	5 U
Aroclor-1016	1	1 U	1 U	1 U
Aroclor-1221	2	2 U	2 U	2 U
Aroclor-1232	1	1 U	1 U	1 U
Aroclor-1242	1	1 U	1 U	1 U
Aroclor-1248	1	1 U	1 U	1 U
Aroclor-1254	1	1 U	1 U	1 U
Aroclor-1260	1	1 U	1 U	1 U
Dilution Factor:				1.00

Associated Method Blank: PBLK467 PBLK398 PBLK398
 Associated Equipment Blank: - - -
 Associated Field Blank: - - -

Site: STAUFFER CHEMICAL

Table 1

SAMPLE LOCATION:	SCHW001XX92XX	SCHW002XXX92X0	SCHW002KXX92XX	SCHW003XXX92XX	SCHW004XXX92XX	SCHW006XX92XX	SCHW007XX92XX
LAB NUMBER:	N31508 #	N31511 #	N31510 #	N31516 #	N31509 #	N31515 #	N31514 #
DATE SAMPLED:	06/29/92	06/29/92	06/29/92	06/30/92	06/29/92	06/29/92	06/29/92

SOW-03/90 - II CRQL														
ANALYTE	200	34500	*	11700	*	15700	*	4270	*	2310	94.7	*	719	*
Aluminum	60	235	*	240	*	315	*	61.3	U*	61.3	U*	76.7	61.3	U*
Antimony	10	21.9	NS*	5.6	UN*	5.6	UN*	68.6	U	104	U	5.6	5.6	U*
Arsenic	200	381		88.2	[]	120	[]	1.1	[]	1.1	[]	165	56.8	[]
Barium	5	2.2	[]	1.1	U	1.1	U	1.1	U	1.1	U	1.1	1.1	U
Beryllium	5	5.3	U	5.3	U	5.3	U	5.3	U	5.3	U	5.3	5.3	U
Cadmium	5	645000	*	250000		324000	*	144000	*	149000	*	232000	321000	U
Calcium	5000	14.7	N	41.1	N	60.9	N	11.2	N	7.2	UN	7.2	7.3	[] N
Chromium	10	39.6	[]	38.5	[]	52.3	[]	8.1	U	8.1	U	8.1	8.1	U
Cobalt	50	1630	N*	964	N*	1280	N*	18.9	[] N*	8.5	[] N	7.1	7.1	U*
Copper	25	160000	*	21500	*	27700	*	3480	*	2510	*	1000	1010	*
Iron	100	373	N	386	*	531	N	12.9	*	3.7	*	3.3	3.3	U*
Lead	3	186000	*	63500	*	82400	*	36900	*	48300	*	48000	83400	*
Magnesium	5000	9760	N*	1700	N*	2190	*	246	N*	125	N*	65.0	150	N*
Manganese	15	0.30		0.20	U	0.20	U	0.20	U	0.20	U	0.20	0.20	U
Mercury	0.2	120	*	181	*	232	*	18.6	U*	18.6	U*	18.6	19.3	[]*
Nickel	40	17700	*	3580	[]*	5960	*	4230	[]*	2830	[]*	1790	4500	[]*
Potassium	5000	56.0	UN	56.0	UN	56.0	UN	5.6	UN	56.0	UN	56.0	56.0	UN
Selenium	5	10.3	UN	10.3	UN	10.3	UN	10.3	UN	25.2	N	10.3	10.3	UN
Silver	10	106000		26800		36100		25900		38500		487000	623000	
Sodium	5000	5.6	UN	5.6	UN	5.6	UN	5.6	UN	5.6	UN	5.6	5.6	UN
Thallium	10	67.6	[]*	13.6	[]*	21.8	[]*	9.3	[]*	6.7	U*	6.7	11.7	[]*
Vanadium	50	446	E*	348	E*	506	E*	103	E*	99.5	E*	80.9	231	E*
Zinc	20	10.0	U	10.0	U	10.0	U	10.0	U	10.0	U	10.0	10.0	U
Cyanide	10	10.0	U	10.0	U	10.0	U	10.0	U	10.0	U	10.0	10.0	U

Associated Method Blank:	P8SDG686	P8SDG686	P8SDG686	P8SDG686	P8SDG686	P8SDG686
Associated Equipment Blank:	SCQS001XXX92XX	SCQS001XXX92XX	SCQS001XXX92XX	SCQS001XXX92XX	SCQS001XXX92XX	SCQS001XXX92XX
Associated Field Blank:	-	-	-	-	-	-

Site: STAUFFER CHEMICAL
#: Level IV Validation

Table 2
Validation / Summary Table

ANALYTE		SOW-03/90 - 11 CRQL		SAMPLE LOCATION: SCHW001XXX92XX		SCHW002XXX92XD		SCHW002XXX92XX		SCHW003XXX92XX		SCHW004XXX92XX		SCHW006XXX92XX		SCHW007XXX92XX	
LAB NUMBER:		N31508 #		N31511 #		N31510 #		N31516 #		N31509 #		N31515 #		N31514 #		N31514 #	
DATE SAMPLED:		06/29/92		06/29/92		06/29/92		06/29/92		06/29/92		06/29/92		06/29/92		06/29/92	
Aluminum	200	34500	J	11700	J	15700	J	4270	J	2310	J	947	J	719	J		
Antimony	60	235	J	240	J	315	J	61.3	UJ	61.3	UJ	76.7	J	61.3	UJ		
Arsenic	10	21.9	J	5.6	UJ	5.6	J	5.6	UJ	5.6	UJ	5.6	UJ	5.6	UJ		
Barium	200	381	J	88.2	UJ	120	UJ	68.6	UJ	104	UJ	165	UJ	56.8	UJ		
Beryllium	5	2.2	UJ	1.1	UJ	1.1	UJ	1.1	UJ	1.1	UJ	1.1	UJ	1.1	UJ		
Cadmium	5	5.3	UJ	5.3	UJ	5.3	UJ	5.3	UJ	5.3	UJ	5.3	UJ	5.3	UJ		
Calcium	5000	645000	J	250000	J	324000	J	144000	J	149000	J	232000	J	321000	J		
Chromium	10	147	J	41.1	J	60.9	J	11.2	J	7.2	UJ	7.2	UJ	7.3	UJ		
Cobalt	50	39.6	UJ	38.5	UJ	52.3	UJ	8.1	UJ	8.1	UJ	8.1	UJ	8.1	UJ		
Copper	25	1630	R	964	R	1280	R	18.9	R	8.5	R	7.1	UJ	7.1	UJ		
Iron	100	160000	J	21500	J	27700	J	3480	J	2510	J	1000	J	1010	J		
Lead	3	373	J	386	J	531	J	12.9	J	3.7	J	3.3	UJ	3.3	UJ		
Magnesium	5000	186000	J	63500	J	82400	J	36900	J	48300	J	48000	J	83400	J		
Manganese	15	9760	R	1700	R	2190	R	246	R	125	R	65.0	R	150	R		
Mercury	0.2	0.30	J	0.20	UJ	0.20	UJ	0.20	UJ	0.20	UJ	0.20	UJ	0.20	UJ		
Nickel	40	120	J	181	J	232	J	18.6	UJ	18.6	UJ	18.6	UJ	19.3	UJ		
Potassium	5000	17700	R	3580	R	5960	R	4230	R	2830	R	1790	R	4500	R		
Selenium	5	56.0	R	56.0	R	56.0	R	5.6	R	56.0	R	56.0	R	56.0	R		
Silver	10	10.3	UJ	10.3	UJ	10.3	UJ	10.3	UJ	25.2	J	10.3	UJ	10.3	UJ		
Sodium	5000	106000	J	26800	J	36100	J	25900	J	38500	J	487000	J	623000	J		
Thallium	10	5.6	UJ	5.6	UJ	5.6	UJ	5.6	UJ	5.6	UJ	5.6	UJ	5.6	UJ		
Vanadium	50	67.6	J	13.6	UJ	21.8	UJ	9.3	UJ	6.7	UJ	6.7	UJ	11.7	UJ		
Zinc	20	446	J	348	J	506	J	103	J	99.5	J	80.9	J	231	J		
Cyanide	10	10.0	UJ	10.0	UJ	10.0	UJ	10.0	UJ	10.0	UJ	10.0	UJ	10.0	UJ		

Associated Method Blank:
Associated Equipment Blank:
Associated Field Blank:PBS0G686
SCQS001XXX92XXPBS0G686
SCQS001XXX92XXPBS0G686
SCQS001XXX92XXPBS0G686
SCQS001XXX92XXPBS0G686
SCQS001XXX92XXPBS0G686
SCQS001XXX92XXPBS0G686
SCQS001XXX92XXPBS0G686
SCQS001XXX92XXSite: STAUFFER CHEMICAL
#: Level IV Validation

Table 3

Site: STAUFFER CHEMICAL
#: Level IV Validation

Table 1
Laboratory Report of Analysis

SAMPLE LOCATION: SCQS001XXX92SB SCQS001XXX92XX SCQS002XXX92XX
LAB NUMBER: 169714 N31523 N31524
DATE SAMPLED: 05/29/92 06/30/92 06/30/92

ANALYTE	SDW-03/90 - 11 CRQL				
Aluminum	200	36.3 U	67.7 U*	36.2 U*	
Antimony	60	35.7 U	61.3 U*	61.3 U*	
Arsenic	10	5.0 U	5.6 UN*	5.6 UN*	
Barium	200	9.1 U	16.2 U	16.2 U	
Beryllium	5	1.3 U	1.1 U	1.1 U	
Cadmium	5	3.8 U	5.3 U	5.3 U	
Calcium	5000	519 U	1120 U*	1120 U*	
Chromium	10	3.9 U	7.2 UN	7.2 UN	
Cobalt	50	6.9 U	8.1 U	8.1 U	
Copper	25	3.9 U	7.1 UN*	7.1 UN*	
Iron	100	35.4 U	77.9 U*	31.6 U*	
Lead	3	3.0 UN	3.3 U*	4.1 *	
Magnesium	5000	446 U	1110 U*	1110 U*	
Manganese	15	1.3 U	1.3 UN*	1.3 UN*	
Mercury	0.2	0.20 U	0.20 U	0.20 U	
Nickel	40	30.6 U	18.6 U*	18.6 U*	
Potassium	5000	238 U	1790 U*	1790 U*	
Selenium	5	5.0 U	5.6 UN	5.6 UN	
Silver	10	9.9 U	10.3 UN	10.3 UN	
Sodium	5000	482 U	1100 U	1100 U	
Thallium	10	5.0 U	5.6 UN	5.6 UN	
Vanadium	50	4.8 U	6.7 U*	6.7 U*	
Zinc	20	4.5 U	14.8 U*	10.1 U*	
Cyanide	10	10.0 U	10.0 U	10.0 U	

Associated Method Blank: PBSC641
Associated Equipment Blank: SCQS001XXX92SB
Associated Field Blank: -

PBSC686

PBSC686

Site: STAUFFER CHEMICAL

Table 1
Laboratory Report of AnalysisSAMPLE LOCATION: SCQS001XXX92SB SCQS001XXX92XX SCQS002XXX92XX
LAB NUMBER: T69714 N31523 # N31524 #
DATE SAMPLED: 05/29/92 06/30/92 06/30/92

ANALYTE	SOW-03/90 - 11 CRQL			
Aluminum	200	36.3 U	67.7 U*	36.2 U*
Antimony	60	35.7 U	61.3 U*	61.3 U*
Arsenic	10	5.0 U	5.6 UN*	5.6 UN*
Barium	200	9.1 U	16.2 U	16.2 U
Beryllium	5	1.3 U	1.1 U	1.1 U
Cadmium	5	3.8 U	5.3 U	5.3 U
Calcium	5000	519 U	1120 U*	1120 U*
Chromium	10	3.9 U	7.2 UN	7.2 UN
Cobalt	50	6.9 U	8.1 U	8.1 U
Copper	25	3.9 U	7.1 UN*	7.1 UN*
Iron	100	35.4 U	77.9 U*	31.6 U*
Lead	3	3.0 UM	3.3 U*	4.1 *
Magnesium	5000	446 U	1110 U*	1110 U*
Manganese	15	1.3 U	1.3 UN*	1.3 UN*
Mercury	0.2	0.20 U	0.20 U	0.20 U
Nickel	40	30.6 U	18.6 U*	18.6 U*
Potassium	5000	238 U	1790 U*	1790 U*
Selenium	5	5.0 U	5.6 UN	5.6 UN
Silver	10	9.9 U	10.3 UN	10.3 UN
Sodium	5000	482 U	1100 U	1100 U
Thallium	10	5.0 U	5.6 UN	5.6 UNW
Vanadium	50	4.8 U	6.7 U*	6.7 U*
Zinc	20	4.5 U	14.8 U*	10.1 U*
Cyanide	10	10.0 U	10.0 U	10.0 U

Associated Method Blank: PBSC641 PBSDG686 PBSDG686
Associated Equipment Blank: SCQS001XXX92SB
Associated Field Blank: -

Site: STAUFFER CHEMICAL

APPENDIX E

APPENDIX E-3
SURFACE WATER

E.C. Jordan Co.

Table 1
Laboratory Report of Analysis

SAMPLE	LOCATION:	SCSW001XXX92XD	SCSW001XXX92XD	SCSW001XXX92XD	SCSW001XXX92XX	SCSW002XXX92XX	SCSW003XXX92XX
LAB NUMBER:	1315018 #	1315017 D #	1315017 #	1315017 D #	1315019 #	1315022 #	1315022 #
DATE SAMPLED:	06/30/92	06/30/92	06/30/92	06/30/92	06/30/92	06/30/92	06/30/92
DATE EXTRACTED:	07/05/92	07/05/92	07/05/92	07/05/92	07/05/92	07/05/92	07/05/92
DATE ANALYZED:	07/11/92	07/13/92	07/11/92	07/11/92	07/11/92	07/10/92	07/10/92
ANALYTE	SOW-03/90 - II CRQL						
3-Nitroaniline	25 U	50 U	25 U	50 U	25 U	25 U	25 U
Acenaphthene	10 U	20 U	10 U	20 U	20 U	10 U	10 U
2,4-Dinitrophenol	25 U	50 U	25 U	50 U	50 U	25 U	25 U
4-Nitrophenol	25 U	50 U	25 U	50 U	50 U	25 U	25 U
Dibenzofuran	10 U	20 U	10 U	20 U	20 U	10 U	10 U
2,4-Dinitrotoluene	10 U	20 U	10 U	20 U	20 U	10 U	10 U
Diethylphthalate	120 U	120 D	41 U	46 D	46 D	16 U	10 U
4-Chlorophenyl-phenylether	10 U	20 U	10 U	20 U	20 U	10 U	10 U
Fluorene	10 U	20 U	10 U	20 U	20 U	10 U	10 U
4-Nitroaniline	25 U	50 U	25 U	50 U	50 U	25 U	25 U
4,6-Dinitro-2-methylphenol	25 U	50 U	25 U	50 U	50 U	25 U	25 U
N-Nitrosodiphenylamine	10 U	20 U	10 U	20 U	20 U	10 U	10 U
4-Bromophenyl-phenylether	10 U	20 U	10 U	20 U	20 U	10 U	10 U
Hexachlorobenzene	10 U	20 U	10 U	20 U	20 U	10 U	10 U
Pentachlorophenol	25 U	50 U	25 U	50 U	50 U	25 U	25 U
Phenanthrene	10 U	2 DJ	10 U	20 U	20 U	10 U	10 U
Anthracene	10 U	20 U	10 U	20 U	20 U	1 J	10 U
Carbazole	10 U	20 U	10 U	20 U	20 U	10 U	10 U
Di-n-butylphthalate	10 U	20 U	10 U	20 U	20 U	10 U	10 U
Fluoranthene	10 U	2 DJ	10 U	20 U	20 U	10 U	10 U
Pyrene	10 U	2 DJ	10 U	20 U	20 U	1 J	10 U
Butylbenzylphthalate	10 U	20 U	10 U	20 U	20 U	10 U	10 U
3,3'-Dichlorobenzidine	10 U	20 U	10 U	20 U	20 U	10 U	10 U
Benzo(a)Anthracene	10 U	20 U	10 U	20 U	20 U	10 U	10 U
Chrysene	10 U	20 U	10 U	20 U	20 U	10 U	10 U
bis(2-Ethylhexyl)phthalate	10 U	3 BJ	1 BJ	4 BDJ	1 BJ	1 BJ	1 BJ
Di-n-octylphthalate	10 U	20 U	10 U	20 U	20 U	10 U	10 U
Benzo(b)Fluoranthene	10 U	20 U	10 U	20 U	20 U	10 U	10 U
Benzo(k)Fluoranthene	10 U	20 U	10 U	20 U	20 U	10 U	10 U
Benzo(a)Pyrene	10 U	20 U	10 U	20 U	20 U	10 U	10 U
Indeno(1,2,3-c,d)Pyrene	10 U	20 U	10 U	20 U	20 U	10 U	10 U
Dibenz(a,h)Anthracene	10 U	20 U	10 U	20 U	20 U	10 U	10 U
Benzo(g,h,i)perylene	10 U	20 U	10 U	20 U	20 U	10 U	10 U
Dilution Factor:	1.00	2.00	1.00	2.00	2.00	1.00	1.00

	F1873	F1873	F1873	F1873	F1873
Associated Method Blank:	SCQS001XXX92XX	SCQS001XXX92XX	SCQS001XXX92XX	SCQS001XXX92XX	SCQS001XXX92XX
Associated Equipment Blank:	-	-	-	-	-
Associated Field Blank:	-	-	-	-	-

Site: STAUFFER CHEMICAL
#: Level IV Validation

Table 2
Validation / Summary Table

SAMPLE LOCATION: SCSW001XXX92X0 SCSW001XXX92XX SCSW002XXX92XX SCSW003XXX92XX
 LAB NUMBER: 1315018 # 1315017 # 1315019 # 1315022 #
 DATE SAMPLED: 06/30/92 06/30/92 06/30/92 06/30/92
 DATE EXTRACTED: 07/05/92 07/05/92 07/05/92 07/05/92
 DATE ANALYZED: 07/11/92 07/11/92 07/10/92 07/10/92

ANALYTE	SOW-03/90 - II CRQL				
Phenol	10	53	38	10	10
bis(2-Chloroethyl) ether	10	10	10	10	10
2-Chlorophenol	10	10	10	10	10
1,3-Dichlorobenzene	10	10	10	10	10
1,4-Dichlorobenzene	10	10	10	10	10
1,2-Dichlorobenzene	10	10	10	10	10
2-Methylphenol	10	10	10	10	10
2,2'-oxybis(1-Chloropropane)	10	10	10	10	10
4-Methylphenol	10	130	110	10	10
N-Nitroso-di-n-propylamine	10	10	10	10	10
Hexachloroethane	10	10	10	10	10
Nitrobenzene	10	10	10	10	10
Isophorone	10	10	10	10	10
2-Nitrophenol	10	10	10	10	10
2,4-Dimethylphenol	10	10	10	10	10
bis(2-Chloroethoxy)methane	10	10	10	10	10
2,4-Dichlorophenol	10	10	10	10	10
1,2,4-Trichlorobenzene	10	10	10	10	10
Naphthalene	10	10	10	10	10
4-Chloroaniline	10	10	10	10	10
Hexachlorobutadiene	10	10	10	10	10
4-Chloro-3-Methylphenol	10	10	10	10	10
2-Methylnaphthalene	10	10	10	10	10
Hexachlorocyclopentadiene	10	10	10	10	10
2,4,6-Trichlorophenol	10	10	10	10	10
2,4,5-Trichlorophenol	25	25	25	25	25
2-Chloronaphthalene	10	10	10	10	10
2-Nitroaniline	25	25	25	25	25
Dimethylphthalate	10	10	10	10	10
Acenaphthylene	10	10	10	10	10
2,6-Dinitrotoluene	10	10	10	10	10

Site: STAUFFER CHEMICAL
 #: Level IV Validation

Table 2
Validation / Summary Table

ANALYTE	SOW-03/90 - II CRQL				Dilution Factor:			
	25	10	25	10	1.00	1.00	1.00	1.00
3-Nitroaniline	25	10	25	10	1.00	1.00	1.00	1.00
Acenaphthene	10	10	10	10	1.00	1.00	1.00	1.00
2,4-Dinitrophenol	25	25	25	25	1.00	1.00	1.00	1.00
4-Nitrophenol	25	25	25	25	1.00	1.00	1.00	1.00
Dibenzofuran	10	10	10	10	1.00	1.00	1.00	1.00
2,4-Dinitrotoluene	10	10	10	10	1.00	1.00	1.00	1.00
Diethylphthalate	120	120	120	120	1.00	1.00	1.00	1.00
4-Chlorophenyl-phenylether	10	10	10	10	1.00	1.00	1.00	1.00
Fluorene	10	10	10	10	1.00	1.00	1.00	1.00
4-Nitroaniline	25	25	25	25	1.00	1.00	1.00	1.00
4,6-Dinitro-2-methylphenol	25	25	25	25	1.00	1.00	1.00	1.00
N-Nitrosodiphenylamine	10	10	10	10	1.00	1.00	1.00	1.00
4-Bromophenyl-phenylether	10	10	10	10	1.00	1.00	1.00	1.00
Hexachlorobenzene	10	10	10	10	1.00	1.00	1.00	1.00
Pentachlorophenol	25	25	25	25	1.00	1.00	1.00	1.00
Phenanthrene	10	10	10	10	1.00	1.00	1.00	1.00
Anthracene	10	10	10	10	1.00	1.00	1.00	1.00
Carbazole	10	10	10	10	1.00	1.00	1.00	1.00
Di-n-butylphthalate	10	10	10	10	1.00	1.00	1.00	1.00
Fluoranthene	10	10	10	10	1.00	1.00	1.00	1.00
Pyrene	10	10	10	10	1.00	1.00	1.00	1.00
Butylbenzylphthalate	10	10	10	10	1.00	1.00	1.00	1.00
3,3'-Dichlorobenzidine	10	10	10	10	1.00	1.00	1.00	1.00
Benzo(a)Anthracene	10	10	10	10	1.00	1.00	1.00	1.00
Chrysene	10	10	10	10	1.00	1.00	1.00	1.00
bis(2-Ethylhexyl)phthalate	10	10	10	10	1.00	1.00	1.00	1.00
Di-n-octylphthalate	10	10	10	10	1.00	1.00	1.00	1.00
Benzo(b)Fluoranthene	10	10	10	10	1.00	1.00	1.00	1.00
Benzo(k)Fluoranthene	10	10	10	10	1.00	1.00	1.00	1.00
Benzo(a)Pyrene	10	10	10	10	1.00	1.00	1.00	1.00
Indeno(1,2,3-c,d)Pyrene	10	10	10	10	1.00	1.00	1.00	1.00
Dibenz(a,h)Anthracene	10	10	10	10	1.00	1.00	1.00	1.00
Benzo(g,h,i)perylene	10	10	10	10	1.00	1.00	1.00	1.00

Associated Method Blank: F1873
Associated Equipment Blank: SCQS001XXX92XX
Associated Field Blank: SCQS001XXX92XX

Site: STAUFFER CHEMICAL
#: Level IV Validation

Table 3
Summary Table

ANALYTE	SOW-03/90 - II CRQL	SCSW001XXX92XD LAB NUMBER: DATE SAMPLED: DATE EXTRACTED: DATE ANALYZED:	SCSW001XXX92XX 1315017 # 06/30/92 07/05/92 07/11/92	SCSW002XXX92XX 1315019 # 06/30/92 07/05/92 07/10/92	SCSW003XXX92XX 1315022 # 06/30/92 07/05/92 07/10/92
Phenol	10	53	38	-	-
Bis(2-Chloroethyl) ether	10	-	-	-	-
2-Chlorophenol	10	-	-	-	-
1,3-Dichlorobenzene	10	-	-	-	-
1,4-Dichlorobenzene	10	-	-	-	-
1,2-Dichlorobenzene	10	-	-	-	-
2-Methylphenol	10	-	-	-	-
2,2'-oxybis(1-Chloropropane)	10	-	-	-	-
4-Methylphenol	10	130 D	110 D	-	-
N-Nitroso-di-n-propylamine	10	-	-	-	-
Hexachloroethane	10	-	-	-	-
Nitrobenzene	10	-	-	-	-
Isophorone	10	-	-	-	-
2-Nitrophenol	10	-	-	-	-
2,4-Dimethylphenol	10	-	-	-	-
Bis(2-Chloroethoxy)methane	10	-	-	-	-
2,4-Dichlorophenol	10	-	-	-	-
1,2,4-Trichlorobenzene	10	-	-	-	-
Naphthalene	10	-	-	-	-
4-Chloroaniline	10	-	-	-	-
Hexachlorobutadiene	10	-	-	-	-
4-Chloro-3-Methylphenol	10	-	-	-	-
2-Methylnaphthalene	10	-	-	-	-
Hexachlorocyclopentadiene	10	-	-	-	-
2,4,6-Trichlorophenol	10	-	-	-	-
2,4,5-Trichlorophenol	25	-	-	-	-
2-Chloronaphthalene	10	-	-	-	-
2-Nitroaniline	25	-	-	-	-
Dimethylphthalate	10	-	-	-	-
Acenaphthylene	10	-	-	-	-
2,6-Dinitrotoluene	10	-	-	-	-

Site: STAUFFER CHEMICAL
#: Level IV Validation

Table 3
Summary Table

SAMPLE LOCATION: SCSW001XXX92XD SCSW001XXX92XX SCSW002XXX92XX SCSW003XXX92XX
 LAB NUMBER: 1315018 # 1315017 # 1315019 # 1315022 #
 DATE SAMPLED: 06/30/92 06/30/92 06/30/92 06/30/92
 DATE EXTRACTED: 07/05/92 07/05/92 07/05/92 07/05/92
 DATE ANALYZED: 07/11/92 07/11/92 07/10/92 07/10/92

ANALYTE	SOW-03/90 - 11 CRQL	1.00	1.00	1.00	1.00
3-Nitroaniline	25	-	-	-	-
Acenaphthene	10	-	-	-	-
2,4-Dinitrophenol	25	-	-	R	R
4-Nitrophenol	25	-	-	-	-
Dibenzofuran	10	-	-	-	-
2,4-Dinitrotoluene	10	-	-	-	-
Diethylphthalate	10	120 0	41 J	16 J	-
4-Chlorophenyl-phenylether	10	-	-	-	-
Fluorene	10	-	-	-	-
4-Nitroaniline	25	-	-	-	-
4,6-Dinitro-2-methylphenol	25	-	-	R	R
N-Nitrosodiphenylamine	10	-	-	-	-
4-Bromophenyl-phenylether	10	-	-	-	-
Hexachlorobenzene	10	-	-	-	-
Pentachlorophenol	25	-	-	-	-
Phenanthrene	10	-	-	-	-
Anthracene	10	-	-	-	-
Carbazole	10	-	-	-	-
Di-n-butylphthalate	10	-	-	-	-
Fluoranthene	10	-	-	-	-
Pyrene	10	-	-	-	-
Butylbenzylphthalate	10	-	-	-	-
3,3'-Dichlorobenzidine	10	-	-	-	-
Benzo(a)Anthracene	10	-	-	-	-
Chrysene	10	-	-	-	-
Bis(2-Ethylhexyl)phthalate	10	-	-	-	-
Di-n-octylphthalate	10	-	-	-	-
Benzo(b)Fluoranthene	10	-	-	-	-
Benzo(k)Fluoranthene	10	-	-	-	-
Benzo(a)Pyrene	10	-	-	-	-
Indeno(1,2,3-c,d)Pyrene	10	-	-	-	-
0ibenz(a,h)Anthracene	10	-	-	-	-
Benzo(g,h,i)perylene	10	-	-	-	-
Dilution Factor:	1.00	1.00	1.00	1.00	1.00

Associated Method Blank: F1873 F1873 F1873 F1873
 Associated Equipment Blank: SCSW001XXX92XX SCSW001XXX92XX SCSW001XXX92XX SCSW001XXX92XX
 Associated Field Blank:

Site: STAUFFER CHEMICAL
 #: Level IV Validation

Table 1
Laboratory Report of Analysis

SAMPLE LOCATION:	SCSW001XXX92XD	SCSW001XXX92XX	SCSW002XXX92XX	SCSW003XXX92XX
LAB NUMBER:	1315018 #	1315017 #	1315019 #	1315022 #
DATE SAMPLED:	06/30/92	06/30/92	06/30/92	06/30/92
DATE EXTRACTED:	07/06/92	07/06/92	07/06/92	07/06/92
DATE ANALYZED:	07/21/92	07/21/92	07/21/92	07/18/92
ANALYTE	SOW-03/90 - II CRQL			
alpha-BHC	0.05	0.05	0.05	0.05
beta-BHC	0.05	0.05	0.05	0.05
delta-BHC	0.05	0.05	0.05	0.05
gamma-BHC (Lindane)	0.05	0.05	0.05	0.05
Heptachlor	0.05	0.05	0.05	0.05
Aldrin	0.05	0.05	0.05	0.05
Heptachlor Epoxide	0.05	0.05	0.05	0.05
Endosulfan I	0.05	0.05	0.05	0.05
Dieldrin	0.1	0.1	0.1	0.1
4,4'-DDE	0.1	0.1	0.1	0.1
Endrin	0.1	0.1	0.1	0.1
Endosulfan II	0.1	0.1	0.1	0.1
4,4'-DDD	0.1	0.1	0.1	0.1
Endrin Aldehyde	0.1	0.1	0.1	0.1
Endosulfan Sulfate	0.1	0.1	0.1	0.1
4,4'-DDT	0.1	0.1	0.1	0.1
Methoxychlor	0.5	0.5	0.5	0.5
Endrin Ketone	0.1	0.1	0.1	0.1
alpha-Chlordane	0.05	0.05	0.05	0.05
gamma-Chlordane	0.05	0.05	0.05	0.05
Toxaphene	5	5	5	5
Aroclor-1016	1	1	1	1
Aroclor-1221	2	2	2	2
Aroclor-1232	1	1	1	1
Aroclor-1242	1	1	1	1
Aroclor-1248	1	1	1	1
Aroclor-1254	1	1	1	1
Aroclor-1260	1	1	1	1
Dilution Factor:	1.00	1.00	1.00	1.00

Associated Method Blank:	PBLK3003	PBLK3002	PBLK3003	PBLK3098
Associated Equipment Blank:	SCQS001XXX92XX	SCQS001XXX92XX	SCQS001XXX92XX	SCQS001XXX92XX
Associated Field Blank:	-	-	-	-

Site: STAUFFER CHEMICAL
#: Level IV Validation

Table 2
Validation / Summary Table

SAMPLE LOCATION: SCSW001XXX92X0		SCSW001XXX92XX		SCSW002XXX92XX		SCSW003XXX92XX	
LAB NUMBER:	1315018 #	1315017 #	1315019 #	1315022 #	1315022 #	1315022 #	1315022 #
DATE SAMPLED:	06/30/92	06/30/92	06/30/92	06/30/92	06/30/92	06/30/92	06/30/92
DATE EXTRACTED:	07/06/92	07/06/92	07/06/92	07/06/92	07/06/92	07/06/92	07/06/92
DATE ANALYZED:	07/21/92	07/21/92	07/21/92	07/21/92	07/21/92	07/21/92	07/21/92
SOW-03/90 - II CROL							
ANALYTE	0.05	0.05	0.05	0.05	0.05	0.05	0.05
alpha-BHC	0.05	0.05	0.05	0.05	0.05	0.05	0.05
beta-BHC	0.05	0.05	0.05	0.05	0.05	0.05	0.05
delta-BHC	0.05	0.05	0.05	0.05	0.05	0.05	0.05
gamma-BHC (Lindane)	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Heptachlor	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Aldrin	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Heptachlor Epoxide	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Endosulfan I	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Dieldrin	0.1	0.1	0.1	0.1	0.1	0.1	0.1
4,4'-DDE	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Endrin	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Endosulfan II	0.1	0.1	0.1	0.1	0.1	0.1	0.1
4,4'-DDD	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Endrin Aldehyde	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Endosulfan Sulfate	0.1	0.1	0.1	0.1	0.1	0.1	0.1
4,4'-DDT	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Methoxychlor	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Endrin Ketone	0.1	0.1	0.1	0.1	0.1	0.1	0.1
alpha-Chlordane	0.05	0.05	0.05	0.05	0.05	0.05	0.05
gamma-Chlordane	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Toxaphene	5	5	5	5	5	5	5
Aroclor-1016	1	1	1	1	1	1	1
Aroclor-1221	2	2	2	2	2	2	2
Aroclor-1232	1	1	1	1	1	1	1
Aroclor-1242	1	1	1	1	1	1	1
Aroclor-1248	1	1	1	1	1	1	1
Aroclor-1254	1	1	1	1	1	1	1
Aroclor-1260	1	1	1	1	1	1	1
Dilution factor: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00							

Dilution Factor:

Associated Method Blank:
Associated Equipment Blank:
Associated Field Blank:

Site: STAUFFER CHEMICAL
#: Level IV Validation

Table 3
Summary Table

SAMPLE LOCATION: SCSW001XXX92XD SCSW001XXX92XX SCSW002XXX92XX SCSW003XXX92XX
 LAB NUMBER: 1315018 # 1315017 # 1315019 # 1315022 #
 DATE SAMPLED: 06/30/92 06/30/92 06/30/92 06/30/92
 DATE EXTRACTED: 07/06/92 07/06/92 07/06/92 07/06/92
 DATE ANALYZED: 07/21/92 07/21/92 07/21/92 07/18/92

ANALYTE	SOW-03/90 - I I CRQL				
alpha-BHC	0.05	-	-	-	-
beta-BHC	0.05	-	-	-	-
delta-BHC	0.05	-	-	-	-
gamma-BHC (Lindane)	0.05	-	-	-	-
Heptachlor	0.05	-	-	-	-
Aldrin	0.05	-	-	-	-
Heptachlor Epoxide	0.05	-	-	-	-
Endosulfan I	0.05	-	-	-	-
Dieldrin	0.1	-	-	-	-
4,4'-DDE	0.1	-	-	-	-
Endrin	0.1	-	-	-	-
Endosulfan II	0.1	-	-	-	-
4,4'-DDD	0.1	-	-	-	-
Endrin Aldehyde	0.1	-	-	-	-
Endosulfan Sulfate	0.1	-	-	-	-
4,4'-DDT	0.1	-	-	-	-
Methoxychlor	0.5	-	-	-	-
Endrin ketone	0.1	-	-	-	-
alpha-Chlordane	0.05	-	-	-	-
gamma-Chlordane	0.05	-	-	-	-
Toxaphene	5	-	-	-	-
Aroclor-1016	1	-	-	-	-
Aroclor-1221	2	-	-	-	-
Aroclor-1232	1	-	-	-	-
Aroclor-1242	1	-	-	-	-
Aroclor-1248	1	-	-	-	-
Aroclor-1254	1	-	-	-	-
Aroclor-1260	1	-	-	-	-
Dilution Factor: 1.00 1.00 1.00 1.00					

Associated Method Blank: PBLK3003 PBLK3002 PBLK3003 PBLK3003 PBLK3003
 Associated Equipment Blank: SCSW001XXX92XX SCSW001XXX92XX SCSW001XXX92XX SCSW001XXX92XX SCSW001XXX92XX
 Associated Field Blank: - - - - -

Site: STAUFFER CHEMICAL
 #: Level IV Validation

Table 1
Laboratory Report of Analysis

SAMPLE LOCATION: SCSW001XXX92XD SCSW001XXX92XX SCSW003XXX92XX
LAB NUMBER: N31518 # N31517 # N31519 # N31522 #
DATE SAMPLED: 06/30/92 06/30/92 06/30/92 06/30/92

ANALYTE SOW-03/90 - II CRQL

Aluminum	200	41400 *	15500 *	77300 *	4590 *
Antimony	60	309 *	133 *	283 *	61.3 U*
Arsenic	10	48.3 NS*	18.9 NS*	49.2 N*	5.6 UNW*
Barium	200	262	129 []	301	25.7 []
Beryllium	5	2.1 []	1.1 U	3.9 []	1.1 U
Cadmium	5	5.3 U	5.3 U	5.3 U	5.3 U
Calcium	5000	63200 *	47000 *	40700 *	30500 *
Chromium	10	304 N	90.1 N	732 N	22.2 N
Cobalt	50	29.2 []	8.1 U	28.8 []	8.1 U
Copper	25	3070 N*	974 N*	2510 N*	127 N*
Iron	100	139000 *	53700 *	111000 *	4030 *
Lead	3	1530 N	479 N	1300 N	56.9 *
Magnesium	5000	23500 *	14600 *	15500 *	6670 *
Manganese	15	1410 N*	855 *	601 N*	232 N*
Mercury	0.2	0.92	0.22	0.50	0.20 U
Nickel	40	177 *	59.6 *	145 *	19.5 []*
Potassium	5000	13000 *	9870 *	20000 *	2540 []*
Selenium	5	5.6 UNW	5.6 UNW	5.6 UNW	5.6 UN
Silver	10	10.3 UN	10.3 UN	10.3 UN	10.3 UN
Sodium	5000	105000	94600	944000	153000
Thallium	10	5.6 UN	5.6 UN	5.6 UNW	5.6 UN
Vanadium	50	211 *	67.2 *	336 *	6.7 U*
Zinc	20	4200 E*	1760 E*	3890 E*	2030 E*
Cyanide	10	20.0	20.0	30.0	10.0 U

Associated Method Blank:
Associated Equipment Blank:
Associated Field Blank:

PBSDG686

PBSDG686

PBSDG686

PBSDG686

Site: STAUFFER CHEMICAL
#: Level IV Validation

Table 2

Associated Method Blank:
Associated Equipment Blank:
Associated Field Blank:

Site: STAUFFER CHEMICAL
#: Level IV Validation

Table 3

Site: STAUFFER CHEMICAL
#: Level IV Validation



APPENDIX E-4

SEDIMENT

E.C. Jordan Co.



Table 1
Laboratory Report of Analysis

ANALYTE	SDM-03/90 - II CRQL	SCSD001XXX92XD LAB NUMBER: DATE SAMPLED: DATE ANALYZED:	SCSD001XXX92XX 1315001 # 06/30/92 07/08/92	SCSD002XXX92XX 1315003 # 06/30/92 07/08/92	SCSD002XXX92XX 1315003 D # 06/30/92 07/08/92	SCSD003XXX92XX 1315005 # 06/30/92 07/08/92	SCSD004XXX92XX 1315006 # 06/30/92 07/08/92	SCSD005XXX92XX 1315007 # 06/30/92 07/08/92
Chloromethane	10	22 U	24 U	29 U	150 U	100 U	24 U	14 U
Bromomethane	10	22 U	24 U	29 U	150 U	100 U	24 U	14 U
Vinyl Chloride	10	22 U	24 U	29 U	150 U	100 U	24 U	14 U
Chloroethane	10	22 U	24 U	29 U	150 U	100 U	24 U	14 U
Methylene Chloride	10	21 BJ	25 B	30 B	26 BDJ	120	8 BJ	2 BJ
Acetone	10	110 B	160 B	880 BE	1700 BD	1500	24 U	7 BJ
Carbon Disulfide	10	22 U	24 U	29 U	150 U	14 J	24 U	14 U
1,1-Dichloroethene	10	22 U	24 U	29 U	150 U	100 U	24 U	14 U
1,1-Dichloroethane	10	22 U	24 U	29 U	150 U	100 U	24 U	14 U
1,2-Dichloroethene (total)	10	22 U	24 U	29 U	150 U	100 U	24 U	14 U
1,2-Dichloroethane	10	22 U	24 U	29 U	150 U	100 U	24 U	14 U
Chloroform	10	22 U	24 U	29 U	150 U	100 U	24 U	14 U
1,2-Dichloroethane	10	22 U	24 U	340	400 D	300	24 U	14 U
2-Butanone	10	71	49	29 U	150 U	100 U	24 U	14 U
1,1,1-Trichloroethane	10	22 U	24 U	29 U	150 U	100 U	24 U	14 U
Carbon Tetrachloride	10	22 U	24 U	29 U	150 U	100 U	24 U	14 U
Bromodichloromethane	10	22 U	24 U	29 U	150 U	100 U	24 U	14 U
1,2-Dichloropropane	10	22 U	24 U	29 U	150 U	100 U	24 U	14 U
cis-1,3-Dichloropropene	10	22 U	24 U	29 U	150 U	100 U	24 U	14 U
Trichloroethene	10	22 U	24 U	29 U	150 U	100 U	24 U	14 U
Dibromochloromethane	10	22 U	24 U	29 U	150 U	100 U	24 U	14 U
1,1,2-Trichloroethane	10	22 U	24 U	29 U	150 U	100 U	24 U	14 U
Benzene	10	22 U	24 U	29 U	150 U	100 U	24 U	14 U
trans-1,3-Dichloropropene	10	22 U	24 U	29 U	150 U	100 U	24 U	14 U
Bromoform	10	22 U	24 U	29 U	150 U	100 U	24 U	14 U
4-Methyl-2-Pentanone	10	22 U	24 U	29 U	150 U	100 U	24 U	14 U
2-Hexanone	10	22 U	24 U	29 U	150 U	100 U	24 U	14 U
Tetrachloroethene	10	22 U	24 U	29 U	150 U	100 U	24 U	14 U
1,1,2,2-Tetrachloroethane	10	22 U	24 U	29 U	150 U	100 U	24 U	14 U
Toluene	10	140	31	25 J	130 DJ	100 U	24 U	14 U
Chlorobenzene	10	22 U	24 U	29 U	150 U	100 U	24 U	14 U
Ethylbenzene	10	22 U	24 U	29 U	150 U	100 U	24 U	14 U
Styrene	10	22 U	24 U	29 U	150 U	100 U	24 U	14 U
Total Xylenes	10	22 U	24 U	29 U	150 U	100 U	24 U	14 U
Dilution Factor:	1.00	1.00	1.00	1.00	15.0	1.00	1.00	1.00
Percent Solids:	46	42	34	34	34	10	42	73
Associated Method Blank:	G7696	G7696	G7696	G7696	G7711	G7696	G7711	G7711
Associated Equipment Blank:	SCQS002XXX92XX	SCQS002XXX92XX	SCQS002XXX92XX	SCQS002XXX92XX	SCQS002XXX92XX	SCQS002XXX92XX	SCQS002XXX92XX	SCQS002XXX92XX
Associated Field Blank:	-	-	-	-	-	-	-	-
Associated Trip Blank:	-	-	-	-	-	-	-	-

Site: STAUFFER CHEMICAL
#: Level IV Validation

Table 2

Associated Method Blank:
Associated Equipment Blank:
Associated Field Blank:
Associated Trip Blank:

page 1

Table 3

page 1

Table 1
Laboratory Report of Analysis

ANALYTE	SOW-03/90 - II CRQL	SCSD001XX92XD	SCSD001XX92XX	SCSD002XX92XX	SCSD003XX92XX	SCSD003XX92XX	SCSD003XX92XX	SCSD004XX92XX	SCSD005XX92XX
Phenol	330	720 U	200 J	1900 U	1900 U	1900 U	1900 U	3300 U	6600 U
bis(2-Chloroethyl) ether	330	720 U	790 U	1900 U	1900 U	1900 U	1900 U	3300 U	6600 U
2-Chlorophenol	330	720 U	790 U	1900 U	1900 U	1900 U	1900 U	3300 U	6600 U
1,3-Dichlorobenzene	330	720 U	790 U	1900 U	1900 U	1900 U	1900 U	3300 U	6600 U
1,4-Dichlorobenzene	330	720 U	790 U	1900 U	1900 U	1900 U	1900 U	3300 U	6600 U
1,2-Dichlorobenzene	330	720 U	790 U	1900 U	1900 U	1900 U	1900 U	3300 U	6600 U
2-Methylphenol	330	720 U	790 U	1900 U	1900 U	1900 U	1900 U	3300 U	6600 U
2,2'-oxybis(1-Chloropropane)	330	720 U	790 U	1900 U	1900 U	1900 U	1900 U	3300 U	6600 U
4-Methylphenol	330	720 U	2700 U	1200 J	1200 J	870 J	870 J	9000 U	5700 U
N-Nitroso-di-n-propylamine	330	720 U	790 U	1900 U	1900 U	1900 U	1900 U	3300 U	6600 U
Hexachloroethane	330	720 U	790 U	1900 U	1900 U	1900 U	1900 U	3300 U	6600 U
Nitrobenzene	330	720 U	790 U	1900 U	1900 U	1900 U	1900 U	3300 U	6600 U
2-Nitrophenol	330	720 U	790 U	1900 U	1900 U	1900 U	1900 U	3300 U	6600 U
2,4-Dimethylphenol	330	720 U	790 U	1900 U	1900 U	1900 U	1900 U	3300 U	6600 U
bis(2-Chloroethoxy)methane	330	720 U	790 U	1900 U	1900 U	1900 U	1900 U	3300 U	6600 U
2,4-Dichlorophenol	330	720 U	790 U	1900 U	1900 U	1900 U	1900 U	3300 U	6600 U
1,2,4-Trichlorobenzene	330	720 U	790 U	1900 U	1900 U	1900 U	1900 U	3300 U	6600 U
Naphthalene	330	720 U	790 U	65 J	65 J	1100 J	800 DJ	3300 U	800 U
4-Chloroaniline	330	720 U	790 U	1900 U	1900 U	1900 U	1900 U	3300 U	6600 U
Hexachlorobutadiene	330	720 U	790 U	1900 U	1900 U	1900 U	1900 U	3300 U	6600 U
4-Chloro-3-Methylphenol	330	720 U	790 U	1900 U	1900 U	1900 U	1900 U	3300 U	6600 U
2-Methylnaphthalene	330	720 U	9 J	45 J	45 J	1900 U	1900 U	3300 U	390 DJ
Hexachlorocyclopentadiene	330	720 U	790 U	1900 U	1900 U	1900 U	1900 U	3300 U	6600 U
2,4,6-Trichlorophenol	330	720 U	790 U	1900 U	1900 U	1900 U	1900 U	3300 U	6600 U
2,4,5-Trichlorophenol	800	1700 U	1900 U	4700 U	4700 U	4700 U	4700 U	8000 U	16000 U
2-Chloronaphthalene	330	720 U	790 U	1900 U	1900 U	1900 U	1900 U	3300 U	6600 U
2-Nitroaniline	800	1700 U	1900 U	4700 U	4700 U	4700 U	4700 U	8000 U	16000 U
Dimethylphthalate	330	720 U	790 U	1900 U	1900 U	1900 U	1900 U	3300 U	6600 U
Acenaphthylene	330	720 U	790 U	1900 U	1900 U	1900 U	1900 U	3300 U	6600 U
2,6-Dinitrotoluene	330	720 U	790 U	1900 U	1900 U	1900 U	1900 U	3300 U	6600 U

Site: STAUFFER CHEMICAL
#: Level IV Validation

Table 1
Laboratory Report of Analysis

SAMPLE LOCATION: SCSD001XXX92XX		SCSD001XXX92XX	SCSD002XXX92XX	SCSD003XXX92XX	SCSD004XXX92XX	SCSD005XXX92XX
LAB NUMBER: 1315002 #		1315002 #	1315003 #	1315003 R #	1315005 #	1315005 D #
DATE SAMPLED: 06/30/92		06/30/92	06/30/92	06/30/92	06/30/92	06/30/92
DATE EXTRACTED: 07/06/92		07/06/92	07/06/92	07/06/92	07/06/92	07/06/92
DATE ANALYZED: 07/28/92		07/28/92	07/25/92	07/27/92	07/25/92	07/27/92
ANALYTE	SOH-03/90 - II CRQL	1700 U	4700 U	4700 U	8000 U	16000 U
3-Nitroaniline	800	1900 U	4700 U	4700 U	8000 U	16000 U
Acenaphthene	330	16 J	150 J	130 J	3100 J	2300 DJ
2,4-Dinitrophenol	800	1900 U	4700 U	4700 U	8000 U	16000 U
4-Nitrophenol	800	1900 U	4700 U	4700 U	8000 U	16000 U
Dibenzofuran	330	14 J	110 J	99 J	2200 J	1700 DJ
2,4-Dinitrotoluene	330	790 U	1900 U	1900 U	3300 U	6600 U
Diethylphthalate	330	790 U	1900 U	1900 U	3300 U	6600 U
4-Chlorophenyl-phenylether	330	790 U	1900 U	1900 U	3300 U	6600 U
Fluorene	330	27 J	180 J	1900 U	3000 J	2600 DJ
4-Nitroaniline	800	1900 U	4700 U	4700 U	8000 U	16000 U
4,6-Dinitro-2-methylphenol	800	1900 U	4700 U	4700 U	8000 U	16000 U
N-Nitrosodiphenylamine	330	790 U	1900 U	1900 U	3300 U	6600 U
4-Bromophenyl-phenylether	330	790 U	1900 U	1900 U	3300 U	6600 U
Hexachlorobenzene	330	790 U	1900 U	1900 U	3300 U	6600 U
Pentachlorophenol	800	1900 U	4700 U	4700 U	8000 U	16000 U
Phenanthrene	330	270 J	2500 J	2100 J	31000 D	23000 D
Anthracene	330	790 U	390 J	340 J	5500 J	3900 DJ
Carbazole	330	720 U	150 J	110 J	1700 J	1100 DJ
Di-n-butylphthalate	330	790 U	0.00 U	1900 U	3300 U	6600 U
Fluoranthene	330	260 J	2700 J	2000 J	27000 U	16000 D
Pyrene	330	25 J	1600 J	1400 J	3300 U	11000 D
Butylbenzylphthalate	330	790 U	1900 U	1900 U	3300 U	6600 U
3,3'-Dichlorobenzidine	330	790 U	1900 U	1900 U	3300 U	6600 U
Benzo(a)Anthracene	330	120 J	1200 J	920 J	11000 U	7300 D
Chrysene	330	290 J	2200 J	1900 J	14000 U	10000 D
bis(2-Ethylhexyl)phthalate	330	210 BJ	1800 BJ	1300 BJ	11000 B	7200 BD
Di-n-octylphthalate	330	790 U	1900 U	1900 U	3300 U	6600 U
Benzo(b)Fluoranthene	330	160 J	750 J	630 J	4100 U	3900 DJ
Benzo(k)Fluoranthene	330	150 J	1000 J	840 J	7700 U	5600 DJ
Benzo(a)Pyrene	330	150 J	1000 J	880 J	6400 U	5500 DJ
Indeno(1,2,3-c,d)Pyrene	330	790 U	1900 U	170 J	4500 U	2900 DJ
Dibenz(a,h)Anthracene	330	790 U	1900 U	1900 U	930 J	6600 U
Benzo(g,h,i)perylene	330	790 U	1900 U	1900 U	2900 J	6600 U
Dilution Factor:		1.00	2.00	2.00	1.00	2.00
Percent Solids:		46	34	34	10	10
Associated Method Blank:		B9111	B9111	B9111	B9111	B9111
Associated Equipment Blank:		SCQS002XXX92XX	SCQS002XXX92XX	SCQS002XXX92XX	SCQS002XXX92XX	SCQS002XXX92XX
Associated Field Blank:		SCQS002XXX92XX	SCQS002XXX92XX	SCQS002XXX92XX	SCQS002XXX92XX	SCQS002XXX92XX

Site: STAUFFER CHEMICAL
#: Level IV Validation

Table 2
Validation / Summary Table

ANALYTE	SOW-03/90 - II CROL		SAMPLE LOCATION: SCS0001XX92XX		SCSD001XX92XX		SCSD002XX92XX		SCSD003XX92XX		SCSD004XX92XX		SCSD005XX92XX	
	LAB NUMBER:	DATE SAMPLED:	LAB NUMBER:	DATE SAMPLED:	LAB NUMBER:	DATE SAMPLED:	LAB NUMBER:	DATE SAMPLED:	LAB NUMBER:	DATE SAMPLED:	LAB NUMBER:	DATE SAMPLED:	LAB NUMBER:	DATE SAMPLED:
Phenol	330	720 UJ	1315002 #	06/30/92	1315001 #	06/30/92	1315003 #	06/30/92	1315005 #	06/30/92	1315006 #	06/30/92	1315007 #	06/30/92
bis(2-Chloroethyl) ether	330	720 UJ	1315002 #	07/06/92	1315001 #	07/06/92	1315003 #	07/06/92	1315005 #	07/06/92	1315006 #	07/06/92	1315007 #	07/06/92
2-Chlorophenol	330	720 UJ	1315002 #	07/28/92	1315001 #	07/28/92	1315003 #	07/28/92	1315005 #	07/28/92	1315006 #	07/28/92	1315007 #	07/28/92
1,3-Dichlorobenzene	330	720 UJ	1315002 #		1315001 #		1315003 #		1315005 #		1315006 #		1315007 #	
1,4-Dichlorobenzene	330	720 UJ	1315002 #		1315001 #		1315003 #		1315005 #		1315006 #		1315007 #	
1,2-Dichlorobenzene	330	720 UJ	1315002 #		1315001 #		1315003 #		1315005 #		1315006 #		1315007 #	
2-Methylphenol	330	720 UJ	1315002 #		1315001 #		1315003 #		1315005 #		1315006 #		1315007 #	
2,2'-oxybis(1-Chloropropane)	330	720 UJ	1315002 #		1315001 #		1315003 #		1315005 #		1315006 #		1315007 #	
4-Methylphenol	330	720 UJ	1315002 #		1315001 #		1315003 #		1315005 #		1315006 #		1315007 #	
N-Nitroso-di-n-propylamine	330	720 UJ	1315002 #		1315001 #		1315003 #		1315005 #		1315006 #		1315007 #	
Hexachloroethane	330	720 UJ	1315002 #		1315001 #		1315003 #		1315005 #		1315006 #		1315007 #	
Nitrobenzene	330	720 UJ	1315002 #		1315001 #		1315003 #		1315005 #		1315006 #		1315007 #	
Isophorone	330	720 UJ	1315002 #		1315001 #		1315003 #		1315005 #		1315006 #		1315007 #	
2-Nitrophenol	330	720 UJ	1315002 #		1315001 #		1315003 #		1315005 #		1315006 #		1315007 #	
2,4-Dimethylphenol	330	720 UJ	1315002 #		1315001 #		1315003 #		1315005 #		1315006 #		1315007 #	
bis(2-Chloroethoxy)methane	330	720 UJ	1315002 #		1315001 #		1315003 #		1315005 #		1315006 #		1315007 #	
2,4-Dichlorophenol	330	720 UJ	1315002 #		1315001 #		1315003 #		1315005 #		1315006 #		1315007 #	
1,2,4-Trichlorobenzene	330	720 UJ	1315002 #		1315001 #		1315003 #		1315005 #		1315006 #		1315007 #	
Naphthalene	330	720 UJ	1315002 #		1315001 #		1315003 #		1315005 #		1315006 #		1315007 #	
4-Chloroaniline	330	720 UJ	1315002 #		1315001 #		1315003 #		1315005 #		1315006 #		1315007 #	
Hexachlorobutadiene	330	720 UJ	1315002 #		1315001 #		1315003 #		1315005 #		1315006 #		1315007 #	
4-Chloro-3-Methylphenol	330	720 UJ	1315002 #		1315001 #		1315003 #		1315005 #		1315006 #		1315007 #	
2-Methylnaphthalene	330	720 UJ	1315002 #		1315001 #		1315003 #		1315005 #		1315006 #		1315007 #	
Hexachlorocyclopentadiene	330	720 UJ	1315002 #		1315001 #		1315003 #		1315005 #		1315006 #		1315007 #	
2,4,6-Trichlorophenol	330	720 UJ	1315002 #		1315001 #		1315003 #		1315005 #		1315006 #		1315007 #	
2,4,5-Trichlorophenol	800	1700 UJ	1315002 #		1315001 #		1315003 #		1315005 #		1315006 #		1315007 #	
2-Chloronaphthalene	330	720 UJ	1315002 #		1315001 #		1315003 #		1315005 #		1315006 #		1315007 #	
2-Nitroaniline	800	1700 UJ	1315002 #		1315001 #		1315003 #		1315005 #		1315006 #		1315007 #	
Dimethylphthalate	330	720 UJ	1315002 #		1315001 #		1315003 #		1315005 #		1315006 #		1315007 #	
Acenaphthylene	330	720 UJ	1315002 #		1315001 #		1315003 #		1315005 #		1315006 #		1315007 #	
2,6-Dinitrotoluene	330	720 UJ	1315002 #		1315001 #		1315003 #		1315005 #		1315006 #		1315007 #	

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Table 2
Validation / Summary Table

ANALYTE	SOW-03/90 - II CRQL	1700 UJ	1315002 #	SCSD001XX92XD	1315001 #	SCSD001XX92XX	1315003 #	SCSD002XX92XX	1315005 #	SCSD003XX92XX	1315006 #	SCSD004XX92XX	1315007 #	SCSD005XX92XX
3-Nitroaniline	800	1700 UJ	1315002 #	SCSD001XX92XD	1315001 #	SCSD001XX92XX	1315003 #	SCSD002XX92XX	1315005 #	SCSD003XX92XX	1315006 #	SCSD004XX92XX	1315007 #	SCSD005XX92XX
Acenaphthene	330	720 UJ	06/30/92	07/06/92	07/25/92	07/25/92	06/30/92	07/06/92	07/25/92	06/30/92	07/06/92	07/25/92	06/30/92	07/06/92
2,4-Dinitrophenol	800	1700 UJ	06/30/92	07/06/92	07/25/92	07/25/92	06/30/92	07/06/92	07/25/92	06/30/92	07/06/92	07/25/92	06/30/92	07/06/92
4-Nitrophenol	800	1700 UJ	06/30/92	07/06/92	07/25/92	07/25/92	06/30/92	07/06/92	07/25/92	06/30/92	07/06/92	07/25/92	06/30/92	07/06/92
Dibenzofuran	330	720 UJ	06/30/92	07/06/92	07/25/92	07/25/92	06/30/92	07/06/92	07/25/92	06/30/92	07/06/92	07/25/92	06/30/92	07/06/92
2,4-Dinitrotoluene	330	720 UJ	06/30/92	07/06/92	07/25/92	07/25/92	06/30/92	07/06/92	07/25/92	06/30/92	07/06/92	07/25/92	06/30/92	07/06/92
Diethylphthalate	330	720 UJ	06/30/92	07/06/92	07/25/92	07/25/92	06/30/92	07/06/92	07/25/92	06/30/92	07/06/92	07/25/92	06/30/92	07/06/92
4-Chlorophenyl-phenylether	330	720 UJ	06/30/92	07/06/92	07/25/92	07/25/92	06/30/92	07/06/92	07/25/92	06/30/92	07/06/92	07/25/92	06/30/92	07/06/92
Fluorene	330	720 UJ	06/30/92	07/06/92	07/25/92	07/25/92	06/30/92	07/06/92	07/25/92	06/30/92	07/06/92	07/25/92	06/30/92	07/06/92
4-Nitroaniline	800	1700 UJ	06/30/92	07/06/92	07/25/92	07/25/92	06/30/92	07/06/92	07/25/92	06/30/92	07/06/92	07/25/92	06/30/92	07/06/92
4,6-Dinitro-2-methylphenol	800	1700 UJ	06/30/92	07/06/92	07/25/92	07/25/92	06/30/92	07/06/92	07/25/92	06/30/92	07/06/92	07/25/92	06/30/92	07/06/92
N-Nitrosodiphenylamine	330	720 UJ	06/30/92	07/06/92	07/25/92	07/25/92	06/30/92	07/06/92	07/25/92	06/30/92	07/06/92	07/25/92	06/30/92	07/06/92
4-Bromophenyl-phenylether	330	720 UJ	06/30/92	07/06/92	07/25/92	07/25/92	06/30/92	07/06/92	07/25/92	06/30/92	07/06/92	07/25/92	06/30/92	07/06/92
Hexachlorobenzene	330	720 UJ	06/30/92	07/06/92	07/25/92	07/25/92	06/30/92	07/06/92	07/25/92	06/30/92	07/06/92	07/25/92	06/30/92	07/06/92
Pentachlorophenol	800	1700 UJ	06/30/92	07/06/92	07/25/92	07/25/92	06/30/92	07/06/92	07/25/92	06/30/92	07/06/92	07/25/92	06/30/92	07/06/92
Phenanthrene	330	720 UJ	06/30/92	07/06/92	07/25/92	07/25/92	06/30/92	07/06/92	07/25/92	06/30/92	07/06/92	07/25/92	06/30/92	07/06/92
Anthracene	330	720 UJ	06/30/92	07/06/92	07/25/92	07/25/92	06/30/92	07/06/92	07/25/92	06/30/92	07/06/92	07/25/92	06/30/92	07/06/92
Carbazole	330	720 UJ	06/30/92	07/06/92	07/25/92	07/25/92	06/30/92	07/06/92	07/25/92	06/30/92	07/06/92	07/25/92	06/30/92	07/06/92
Di-n-butylphthalate	330	720 UJ	06/30/92	07/06/92	07/25/92	07/25/92	06/30/92	07/06/92	07/25/92	06/30/92	07/06/92	07/25/92	06/30/92	07/06/92
Fluoranthene	330	720 UJ	06/30/92	07/06/92	07/25/92	07/25/92	06/30/92	07/06/92	07/25/92	06/30/92	07/06/92	07/25/92	06/30/92	07/06/92
Pyrene	330	720 UJ	06/30/92	07/06/92	07/25/92	07/25/92	06/30/92	07/06/92	07/25/92	06/30/92	07/06/92	07/25/92	06/30/92	07/06/92
Butylbenzylphthalate	330	720 UJ	06/30/92	07/06/92	07/25/92	07/25/92	06/30/92	07/06/92	07/25/92	06/30/92	07/06/92	07/25/92	06/30/92	07/06/92
3,3'-Dichlorobenzidine	330	720 UJ	06/30/92	07/06/92	07/25/92	07/25/92	06/30/92	07/06/92	07/25/92	06/30/92	07/06/92	07/25/92	06/30/92	07/06/92
Benzo(a)Anthracene	330	720 UJ	06/30/92	07/06/92	07/25/92	07/25/92	06/30/92	07/06/92	07/25/92	06/30/92	07/06/92	07/25/92	06/30/92	07/06/92
Chrysene	330	720 UJ	06/30/92	07/06/92	07/25/92	07/25/92	06/30/92	07/06/92	07/25/92	06/30/92	07/06/92	07/25/92	06/30/92	07/06/92
bis(2-Ethylhexyl)phthalate	330	720 UJ	06/30/92	07/06/92	07/25/92	07/25/92	06/30/92	07/06/92	07/25/92	06/30/92	07/06/92	07/25/92	06/30/92	07/06/92
Di-n-octylphthalate	330	720 UJ	06/30/92	07/06/92	07/25/92	07/25/92	06/30/92	07/06/92	07/25/92	06/30/92	07/06/92	07/25/92	06/30/92	07/06/92
Benzo(b)Fluoranthene	330	720 UJ	06/30/92	07/06/92	07/25/92	07/25/92	06/30/92	07/06/92	07/25/92	06/30/92	07/06/92	07/25/92	06/30/92	07/06/92
Benzo(k)Fluoranthene	330	720 UJ	06/30/92	07/06/92	07/25/92	07/25/92	06/30/92	07/06/92	07/25/92	06/30/92	07/06/92	07/25/92	06/30/92	07/06/92
Benzo(a)Pyrene	330	720 UJ	06/30/92	07/06/92	07/25/92	07/25/92	06/30/92	07/06/92	07/25/92	06/30/92	07/06/92	07/25/92	06/30/92	07/06/92
Indeno(1,2,3-c,d)Pyrene	330	720 UJ	06/30/92	07/06/92	07/25/92	07/25/92	06/30/92	07/06/92	07/25/92	06/30/92	07/06/92	07/25/92	06/30/92	07/06/92
Dibenz(a,h)Anthracene	330	720 UJ	06/30/92	07/06/92	07/25/92	07/25/92	06/30/92	07/06/92	07/25/92	06/30/92	07/06/92	07/25/92	06/30/92	07/06/92
Benzo(g,h,i)perylene	330	720 UJ	06/30/92	07/06/92	07/25/92	07/25/92	06/30/92	07/06/92	07/25/92	06/30/92	07/06/92	07/25/92	06/30/92	07/06/92
Dilution Factor:	1.00	46	1.00	42	1.00	34	1.00	10	1.00	22	1.00	72	1.00	72
Percent Solids:	46	42	34	10	22	72	10	22	72	10	22	72	10	22
Associated Method Blank:	B9111	B9111	B9111	B9111	B9111	B9111	B9111	B9111	B9111	B9111	B9111	B9111	B9111	B9111
Associated Equipment Blank:	SCQS002XX92XX	SCQS002XX92XX	SCQS002XX92XX	SCQS002XX92XX	SCQS002XX92XX	SCQS002XX92XX	SCQS002XX92XX	SCQS002XX92XX	SCQS002XX92XX	SCQS002XX92XX	SCQS002XX92XX	SCQS002XX92XX	SCQS002XX92XX	SCQS002XX92XX
Associated Field Blank:	SCQS002XX92XX	SCQS002XX92XX	SCQS002XX92XX	SCQS002XX92XX	SCQS002XX92XX	SCQS002XX92XX	SCQS002XX92XX	SCQS002XX92XX	SCQS002XX92XX	SCQS002XX92XX	SCQS002XX92XX	SCQS002XX92XX	SCQS002XX92XX	SCQS002XX92XX

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Table 3
Summary Table

ANALYTE	SOW-03/90 - II CRQL	SCSD001XXX92X0	SCSD001XXX92XX	SCSD002XXX92XX	SCSD003XXX92XX	SCSD004XXX92XX	SCSD005XXX92XX
Phenol	330	-	-	-	R	-	-
bis(2-Chloroethyl)ether	330	-	-	-	R	-	-
2-Chlorophenol	330	-	-	-	R	-	-
1,3-Dichlorobenzene	330	-	-	-	R	-	-
1,4-Dichlorobenzene	330	-	-	-	R	-	-
1,2-Dichlorobenzene	330	-	-	-	R	-	-
2-Methylphenol	330	-	-	-	R	-	-
2,2'-oxybis(1-Chloropropane)	330	-	-	-	R	-	-
4-Methylphenol	330	-	-	-	R	-	-
N-Nitroso-di-n-propylamine	330	-	2700 J	-	R	-	-
Hexachloroethane	330	-	-	-	R	-	-
Nitrobenzene	330	-	-	-	R	-	-
Isophorone	330	-	-	-	R	-	-
2-Nitrophenol	330	-	-	-	R	-	-
2,4-Dimethylphenol	330	-	-	-	R	-	-
bis(2-Chloroethoxy)methane	330	-	-	-	R	-	-
2,4-Dichlorophenol	330	-	-	-	R	-	-
1,2,4-Trichlorobenzene	330	-	-	-	R	-	-
Naphthalene	330	-	-	-	R	-	-
4-Chloroaniline	330	-	-	-	R	-	-
Hexachlorobutadiene	330	-	-	-	R	-	-
4-Chloro-3-Methylphenol	330	-	-	-	R	-	-
2-Methylnaphthalene	330	-	-	-	R	-	-
Hexachlorocyclopentadiene	330	-	-	-	R	-	-
2,4,6-Trichlorophenol	330	-	-	-	R	-	-
2,4,5-Trichlorophenol	800	-	-	-	R	-	-
2-Chloronaphthalene	330	-	-	-	R	-	-
2-Nitroaniline	800	-	-	-	R	-	-
Dimethylphthalate	330	-	-	-	R	-	-
Acenaphthylene	330	-	-	-	R	-	-
2,6-Dinitrotoluene	330	-	-	-	R	-	-

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Table 3
Summary Table

ANALYTE		SOW-03/90 - II CRQL		SAMPLE LOCATION: SCS0001XX92XX		SCSD001XX92XX		SCSD002XX92XX		SCSD003XX92XX		SCSD004XX92XX		SCSD005XX92XX	
		LAB NUMBER: 1315002 #		DATE SAMPLED: 06/30/92		1315001 #		06/30/92		1315003 #		06/30/92		1315006 #	
		DATE EXTRACTED: 07/06/92		07/06/92		07/06/92		07/06/92		07/06/92		07/06/92		07/06/92	
		DATE ANALYZED: 07/28/92		07/28/92		07/25/92		07/25/92		07/25/92		07/25/92		07/27/92	
		800		-		-		-		-		-		-	
3-Nitroaniline		330		-		-		-		-		-		-	
Acenaphthene		800		-		-		-		-		-		-	
2,4-Dinitrophenol		800		-		-		-		-		-		-	
4-Nitrophenol		330		-		-		-		-		-		-	
Dibenzofuran		330		-		-		-		-		-		-	
2,4-Dinitrotoluene		330		-		-		-		-		-		-	
Diethylphthalate		330		-		-		-		-		-		-	
4-Chlorophenyl-phenylether		330		-		-		-		-		-		-	
Fluorene		330		-		-		-		-		-		-	
4-Nitroaniline		800		-		-		-		-		-		-	
4,6-Dinitro-2-methylphenol		800		-		-		-		-		-		-	
N-Nitrosodiphenylamine		330		-		-		-		-		-		-	
4-Bromophenyl-phenylether		330		-		-		-		-		-		-	
Hexachlorobenzene		330		-		-		-		-		-		-	
Pentachlorophenol		800		-		-		-		-		-		-	
Phenanthrene		330		-		-		-		-		-		-	
Anthracene		330		-		-		-		-		-		-	
Carbazole		330		-		-		-		-		-		-	
Di-n-butylphthalate		330		-		-		-		-		-		-	
Fluoranthene		330		-		-		-		-		-		-	
Pyrene		330		-		-		-		-		-		-	
Butylbenzylphthalate		330		-		-		-		-		-		-	
3,3'-Dichlorobenzidine		330		-		-		-		-		-		-	
Benzo(a)Anthracene		330		-		-		-		-		-		-	
Chrysene		330		-		-		-		-		-		-	
bis(2-Ethylhexyl)phthalate		330		-		-		-		-		-		-	
Di-n-octylphthalate		330		-		-		-		-		-		-	
Benzo(b)Fluoranthene		330		-		-		-		-		-		-	
Benzo(k)Fluoranthene		330		-		-		-		-		-		-	
Benzo(a)Pyrene		330		-		-		-		-		-		-	
Indeno(1,2,3-c,d)Pyrene		330		-		-		-		-		-		-	
Dibenz(a,h)Anthracene		330		-		-		-		-		-		-	
Benzo(g,h,i)perylene		330		-		-		-		-		-		-	
Dilution Factor:		1.00		1.00		1.00		1.00		1.00		1.00		1.00	
Percent Solids:		46		42		42		34		10		22		72	
Associated Method Blank:		B9111		B9111		B9111		B9111		B9111		B9111		B9111	
Associated Equipment Blank:		SCQS002XXX92XX		SCQS002XXX92XX		SCQS002XXX92XX		SCQS002XXX92XX		SCQS002XXX92XX		SCQS002XXX92XX		SCQS002XXX92XX	
Associated Field Blank:		-		-		-		-		-		-		-	

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Table 1
Laboratory Report of Analysis

ANALYTE	SOW-03/90 - 11 CRQL	SCSD001XXX92X0	SCSD001XXX92XX	SCSD002XXX92XX	SCSD003XXX92XX	SCSD004XXX92XX	SCSD005XXX92XX
alpha-BHC	1.7	3.7 U	12 U	5 U	17 U	4.6 U	2.4 U
beta-BHC	1.7	3.7 U	12 U	5 U	17 U	4.6 U	2.4 U
delta-BHC	1.7	3.7 U	12 U	5 U	17 U	4.6 U	2.4 U
gamma-BHC (Lindane)	1.7	3.7 U	12 U	5 U	17 U	4.6 U	2.4 U
Heptachlor	1.7	3.7 U	12 U	5 U	17 U	4.6 U	2.4 U
Aldrin	1.7	3.7 U	12 U	5 U	17 U	4.6 U	2.4 U
Heptachlor Epoxide	1.7	3.7 U	12 U	5 U	17 U	4.6 U	2.4 U
Endosulfan I	1.7	3.7 U	12 U	5 U	17 U	4.6 U	2.4 U
Dieldrin	3.3	7.2 U	24 U	9.7 U	33 U	9 U	4.6 U
4,4'-DDE	3.3	18	29	14	33 U	9.4	2.9 J
Endrin	3.3	6.8 JP	19 JP	8.4 JP	33 U	14 P	6.2 P
Endosulfan II	3.3	7.2 U	24 U	9.7 U	33 U	9 U	4.6 U
4,4'-DDD	3.3	8.8	10 JP	5.2 JP	33 U	9 U	4.6 U
Endrin Aldehyde	3.3	7.2 U	24 U	9.7 U	33 U	9 U	4.6 U
Endosulfan Sulfate	3.3	7.2 U	10 JP	9.7 U	33 U	9 U	4.6 U
4,4'-DDT	3.3	8.5 P	33 P	8.7 JP	33 U	11 P	5 P
Methoxychlor	17	37 U	120 U	50 U	170 U	46 U	24 U
Endrin Ketone	3.3	7.2 U	24 U	9.7 U	33 U	9 U	4.6 U
alpha-Chlordane	1.7	3.7 U	12 U	4.7 J	17 U	9.1	2.4 U
gamma-Chlordane	1.7	3.7 U	4.4 JP	5 U	17 U	4.6 U	2.4 U
Toxaphene	170	370 U	1200 U	500 U	1700 U	460 U	240 U
Aroclor-1016	33	72 U	240 U	97 U	330 U	90 U	46 U
Aroclor-1221	67	150 U	480 U	200 U	670 U	180 U	93 U
Aroclor-1232	33	72 U	240 U	97 U	330 U	90 U	46 U
Aroclor-1242	33	72 U	240 U	97 U	330 U	90 U	46 U
Aroclor-1248	33	72 U	240 U	97 U	330 U	90 U	46 U
Aroclor-1254	33	72 U	240 U	97 U	330 U	90 U	46 U
Aroclor-1260	33	72 U	240 U	97 U	330 U	90 U	46 U

Dilution Factor:
Percent Solids:

Associated Method Blank: PBLK3018 PBLK3018 PBLK3018 PBLK3018 PBLK3018 PBLK3018 PBLK3018
Associated Equipment Blank: SCQS002XXX92XX SCQS002XXX92XX SCQS002XXX92XX SCQS002XXX92XX SCQS002XXX92XX SCQS002XXX92XX
Associated Field Blank:

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Table 2
Validation / Summary Table

SDM-03/90 - II CRQL													
ANALYTE	1.7	3.7	UJ	12	UJ	5	UJ	17	UR	4.6	UJ	2.4	U
alpha-BHC	1.7	3.7	UJ	12	UJ	5	UJ	17	UR	4.6	UJ	2.4	U
beta-BHC	1.7	3.7	UJ	12	UJ	5	UJ	17	UR	4.6	UJ	2.4	U
delta-BHC	1.7	3.7	UJ	12	UJ	5	UJ	17	UR	4.6	UJ	2.4	U
gamma-BHC (Lindane)	1.7	3.7	UJ	12	UJ	5	UJ	17	UR	4.6	UJ	2.4	U
Heptachlor	1.7	3.7	UJ	12	UJ	5	UJ	17	UR	4.6	UJ	2.4	U
Aldrin	1.7	3.7	UJ	12	UJ	5	UJ	17	UR	4.6	UJ	2.4	U
Heptachlor Epoxide	1.7	3.7	UJ	12	UJ	5	UJ	17	UR	4.6	UJ	2.4	U
Endosulfan I	1.7	3.7	UJ	12	UJ	5	UJ	17	UR	4.6	UJ	2.4	U
Dieldrin	3.3	7.2	UJ	24	UJ	9.7	UJ	33	UR	9	UJ	2.4	U
4,4'-DDE	3.3	18	J	29	J	14	J	33	UR	9.4	J	2.9	JJ
Endrin	3.3	6.8	JJ	19	JJ	8.4	JJ	33	UR	14	J	6.2	J
Endosulfan II	3.3	7.2	UJ	24	UJ	9.7	UJ	33	UR	9	UJ	4.6	U
4,4'-DDD	3.3	8.8	J	10	JJ	5.2	JJ	33	UR	9	UJ	4.6	U
Endrin Aldehyde	3.3	7.2	UJ	24	UJ	9.7	UJ	33	UR	9	UJ	4.6	UJ
Endosulfan Sulfate	3.3	7.2	UJ	10	JJ	9.7	UJ	33	UR	9	UJ	4.6	UJ
4,4'-DDT	3.3	8.5	J	33	J	8.7	JJ	33	UR	11	J	5	J
Methoxychlor	17	37	UJ	120	UJ	50	UJ	170	UR	46	UJ	24	U
Endrin Ketone	3.3	7.2	UJ	24	UJ	9.7	UJ	33	UR	9	UJ	4.6	U
alpha-Chlordane	1.7	3.7	UJ	12	UJ	4.7	J	17	UR	9.1	J	2.4	U
gamma-Chlordane	1.7	3.7	UJ	4.4	JJ	5	UJ	17	UR	4.6	UJ	2.4	U
Toxaphene	170	370	UJ	1200	UJ	500	UJ	1700	UR	460	UJ	240	U
Aroclor-1016	33	72	UJ	240	UJ	97	UJ	330	UR	90	UJ	46	U
Aroclor-1221	67	150	UJ	480	UJ	200	UJ	670	UR	180	UJ	93	U
Aroclor-1232	33	72	UJ	240	UJ	97	UJ	330	UR	90	UJ	46	U
Aroclor-1242	33	72	UJ	240	UJ	97	UJ	330	UR	90	UJ	46	U
Aroclor-1248	33	72	UJ	240	UJ	97	UJ	330	UR	90	UJ	46	U
Aroclor-1254	33	72	UJ	240	UJ	97	UJ	330	UR	90	UJ	46	U
Aroclor-1260	33	72	UJ	240	UJ	97	UJ	330	UR	90	UJ	46	U
Dilution Factor: 1.00 3.00 1.00 1.00 1.00 1.00 1.00													
Percent Solids: 46 42 34 34 34 34 34													

Associated Method Blank: PBLK3018 PBLK3018 PBLK3018 PBLK3018 PBLK3018 PBLK3018 PBLK3018 PBLK3018 PBLK3018 PBLK3018 PBLK3018 PBLK3018 PBLK3018
Associated Equipment Blank: SCQS002XX92XX SCQS002XX92XX SCQS002XX92XX SCQS002XX92XX SCQS002XX92XX SCQS002XX92XX SCQS002XX92XX SCQS002XX92XX SCQS002XX92XX SCQS002XX92XX SCQS002XX92XX SCQS002XX92XX SCQS002XX92XX
Associated Field Blank:

Site: STAUFFER CHEMICAL
#: Level IV Validation

Table 3
Summary Table

SAMPLE LOCATION: SCSD001XXX92XD		SCSD001XXX92XX	SCSD002XXX92XX	SCSD003XXX92XX	SCSD004XXX92XX	SCSD005XXX92XX
LAB NUMBER:	1315002 #	1315001 #	1315003 #	1315005 #	1315006 #	1315007 #
DATE SAMPLED:	06/30/92	06/30/92	06/30/92	06/30/92	06/30/92	06/30/92
DATE EXTRACTED:	07/06/92	07/06/92	07/06/92	07/23/92	07/06/92	07/06/92
DATE ANALYZED:	07/28/92	07/28/92	07/28/92	07/29/92	07/29/92	07/29/92
SOW-03/90 - II CROL						
ANALYTE						
alpha-BHC	1.7	-	-	-	R	-
beta-BHC	1.7	-	-	-	R	-
delta-BHC	1.7	-	-	-	R	-
gamma-BHC (Lindane)	1.7	-	-	-	R	-
Heptachlor	1.7	-	-	-	R	-
Aldrin	1.7	-	-	-	R	-
Heptachlor Epoxide	1.7	-	-	-	R	-
Endosulfan I	1.7	-	-	-	R	-
Dieldrin	3.3	-	-	-	R	-
4,4'-DDE	3.3	18 J	29 J	14 J	R	9.4 J
Endrin	3.3	-	-	-	R	14 J
Endosulfan II	3.3	-	-	-	R	-
4,4'-DDD	3.3	8.8 J	-	-	R	-
Endrin Aldehyde	3.3	-	-	-	R	-
Endosulfan Sulfate	3.3	-	-	-	R	-
4,4'-DDT	3.3	8.5 J	33 J	-	R	11 J
Methoxychlor	17	-	-	-	R	-
Endrin Ketone	3.3	-	-	-	R	-
alpha-Chlordane	1.7	-	-	4.7 J	R	9.1 J
gamma-Chlordane	1.7	-	-	-	R	-
Toxaphene	170	-	-	-	R	-
Aroclor-1016	33	-	-	-	R	-
Aroclor-1221	67	-	-	-	R	-
Aroclor-1232	33	-	-	-	R	-
Aroclor-1242	33	-	-	-	R	-
Aroclor-1248	33	-	-	-	R	-
Aroclor-1254	33	-	-	-	R	-
Aroclor-1260	33	-	-	-	R	-
Dilution Factor:	1.00	3.00	1.00	1.00	1.00	1.00
Percent Solids:	46	42	34	10	42	72
Associated Method Blank: PBLK3018 PBLK3018 PBLK3020 PBLK3018 PBLK3018						
Associated Equipment Blank: SCQS002XXX92XX SCQS002XXX92XX SCQS002XXX92XX SCQS002XXX92XX SCQS002XXX92XX						
Associated Field Blank:						

Site: STAUFFER CHEMICAL
#: Level IV Validation

Table 1
Laboratory Report of Analysis

SAMPLE LOCATION: SCS001XXX92XX SCS001XXX92XD SCS002XXX92XX SCS003XXX92XX SCS004XXX92XX SCS005XXX92XX
LAB NUMBER: 1315001 1315002 1315003 1315005 1315006 1315007
DATE SAMPLED: 06/30/92 06/30/92 06/30/92 06/30/92 06/30/92 06/30/92

ANALYTE	RL
Ignitability (degree F)	212
Corrosivity (pH)	-
Reactive Cyanide (mg/kg)	1.0
Reactive Sulfide (mg/kg)	1.0

=====
Associated Method Blank: BKSDG686 BKSDG686 BKSDG686 BKSDG686 BKSDG686 BKSDG686
Associated Equipment Blank: SCQS002XXX92XX SCQS002XXX92XX SCQS002XXX92XX SCQS002XXX92XX SCQS002XXX92XX SCQS002XXX92XX
Associated Field Blank:
=====

Site: STAUFFER CHEMICAL

Table 2
Validation / Summary Table

SAMPLE LOCATION: SCS0001XXX92XX SCS0001XXX92XD SCS0002XXX92XX SCS0003XXX92XX SCS0004XXX92XX SCS0005XXX92XX
LAB NUMBER: 1315001 1315002 1315003 1315005 1315006 1315007
DATE SAMPLED: 06/30/92 06/30/92 06/30/92 06/30/92 06/30/92 06/30/92

ANALYTE	RL
Ignitability (degree F)	212
Corrosivity (pH)	>212
Reactive Cyanide (mg/kg)	6.27
Reactive Sulfide (mg/kg)	1.0

Associated Method Blank: BKSDG686 BKSDG686 BKSDG686 BKSDG686 BKSDG686 BKSDG686
Associated Equipment Blank: SCQS002XXX92XX SCQS002XXX92XX SCQS002XXX92XX SCQS002XXX92XX SCQS002XXX92XX SCQS002XXX92XX
Associated Field Blank: SCQS002XXX92XX SCQS002XXX92XX SCQS002XXX92XX SCQS002XXX92XX SCQS002XXX92XX SCQS002XXX92XX

Site: STAUFFER CHEMICAL

Table 3
Summary Table

SAMPLE LOCATION: SCSD001XXX92XX SCSD001XXX92XD SCSD002XXX92XX SCSD003XXX92XX SCSD004XXX92XX SCSD005XXX92XX
LAB NUMBER: 1315001 1315002 1315003 1315005 1315006 1315007
DATE SAMPLED: 06/30/92 06/30/92 06/30/92 06/30/92 06/30/92 06/30/92

ANALYTE	RL
Ignitability (degree F)	212
Corrosivity (pH)	-
Reactive Cyanide (mg/kg)	1.0
Reactive Sulfide (mg/kg)	1.0

Associated Method Blank: BKSDG686 BKSDG686 BKSDG686 BKSDG686 BKSDG686 BKSDG686
Associated Equipment Blank: SCQS002XXX92XX SCQS002XXX92XX SCQS002XXX92XX SCQS002XXX92XX SCQS002XXX92XX SCQS002XXX92XX
Associated Field Blank: - - - - -

Site: STAUFFER CHEMICAL

Miscellaneous Soil Analysis (ug/L)

PROJECT: NYSDEC PSA-6 Stauffer Chemical

Table 1
Laboratory Report of Analysis

SAMPLE LOCATION: SCSD001XXX92XX SCSD001XXX92XX SCSD001XXX92XX SCSD002XXX92XX SCSD005XXX92XX SCSD003XXX92XX SCSD004XXX92XX
 LAB NUMBER: E31502 E31501 E31503 E31507 E31505 N31509
 DATE SAMPLED: 06/30/92 06/30/92 06/30/92 06/30/92 06/30/92 06/30/92 06/30/92
 DATE EXTRACTED: 07/01/92 07/01/92 07/01/92 07/01/92 07/01/92 07/01/92 07/01/92
 DATE ANALYZED: 07/23/92 07/23/92 07/23/92 07/23/92 07/23/92 07/23/92 07/23/92

ANALYTE

Arsenic	55.9 U	55.9 U	55.9 U	55.9 U	55.9 U	55.9 U	55.9
Barium	427	269	468	438	745	745	213 IN
Cadmium	5.3 U	5.3 U	5.3 U	5.3 U	5.3 U	5.3 U	5.3
Chromium	7.2 U	8.0 U	7.2 U	7.2 U	8.0 U	8.0 U	7.2
Lead	53.4 U	53.4 U	53.4 U	53.4 U	324	324	5.3 U
Mercury	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.24
Selenium	88.6 U	88.6 U	88.6 U	88.6 U	88.6 U	88.6 U	88.6 U
Silver	10.6 U	10.6 U	10.3 U	37.2	10.3 U	10.3 U	25.2

Associated Method Blank: BKSCSDG686 BKSCSDG686 BKSCSDG686 BKSCSDG686
 Associated Equipment Blank: SCQS002XXX92XX SCQS002XXX92XX SCQS002XXX92XX SCQS002XXX92XX
 Associated Field Blank:

Site: STAUFFER CHEMICAL

Table 2
Validation / Summary Table

SAMPLE LOCATION: SCSD001XXX92XD SCSD001XXX92XX SCSD002XXX92XX SCSD005XXX92XX SCSD003XXX92XX SCSD004XXX92XX
LAB NUMBER: E31502 E31501 E31503 E31507 E31505 N31509
DATE SAMPLED: 06/30/92 06/30/92 06/30/92 06/30/92 06/30/92 06/30/92
DATE EXTRACTED: 07/01/92 07/01/92 07/01/92 07/01/92 07/01/92 07/01/92
DATE ANALYZED: 07/23/92 07/23/92 07/23/92 07/23/92 07/23/92 07/23/92

ANALYTE

Arsenic	55.9 UJ	55.9 UJ	55.9 UJ	55.9 UJ	55.9 UJ	55.9 J
Barium	427	269	468	438	745	213 [J]
Cadmium	5.3 UJ	5.3 UJ	5.3 UJ	5.3 UJ	5.3 UJ	5.3 J
Chromium	7.2 UJ	8.0 [J]	7.2 UJ	7.2 UJ	8.0 [J]	7.2 J
Lead	53.4 UJ	53.4 UJ	53.4 UJ	53.4 UJ	324 J	5.3 UJ
Mercury	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.24 J
Selenium	88.6 UJ	88.6 UJ	88.6 UJ	88.6 UJ	88.6 UJ	88.6 UJ
Silver	10.6 [J]	10.6 [J]	10.3 U	37.2 J	10.3 U	25.2 J

Associated Method Blank: BKSCSDG686 BKSCSDG686 BKSCSDG686 BKSCSDG686 BKSCSDG686 BKSCSDG686
Associated Equipment Blank: SCQS002XXX92XX SCQS002XXX92XX SCQS002XXX92XX SCQS002XXX92XX SCQS002XXX92XX SCQS002XXX92XX
Associated field Blank:

Site: STAUFFER CHEMICAL

Miscellaneous Soil Analysis (ug/L)

PROJECT: NYSDEC PSA-6 Stauffer Chemical

Table 3
Summary Table

IP	1	2	3	4
SAMPLE LOCATION:	SCSD001XXX92XD	SCSD002XXX92XX	SCSD003XXX92XX	SCSD004XXX92XX
LAB NUMBER:	E31502	E31503	E31505	N31509
DATE SAMPLED:	06/30/92	06/30/92	06/30/92	06/30/92
DATE EXTRACTED:	07/01/92	07/01/92	07/01/92	07/01/92
DATE ANALYZED:	07/23/92	07/23/92	07/23/92	07/23/92

ANALYTE

Arsenic	-	-	-	55.9 J
Barium	427	468	745	-
Cadmium	-	-	-	5.3 J
Chromium	-	-	-	7.2 J
Lead	-	-	324 J	-
Mercury	-	-	-	0.24 J
Selenium	-	-	-	-
Silver	-	-	-	25.2 J

=====

Associated Method Blank: BKSCSDG686 BKSCSDG686 BKSCSDG686

Associated Equipment Blank: SCQSD02XXX92XX SCQSD02XXX92XX SCQSD02XXX92XX

Associated Field Blank: SCQSD02XXX92XX SCQSD02XXX92XX SCQSD02XXX92XX

Site: STAUFFER CHEMICAL

APPENDIX F
BASE MAP AND SURVEY REPORT

E.C. Jordan Co.

New York State Department of Environmental Conservation

SUPERFUND STANDBY CONTRACT

Task Order Memorandum 'C'

STAUFFER CHEMICAL - NORTH LOVE CANAL

CONTROL REPORT

AUGUST 1992

OM P. POPLI, P.E.

Consulting Engineers & Land Surveyors

44 Saginaw Drive

Rochester, NY 14623

(716) 442-6940

INTRODUCTION

The purpose of this report is to summarize the results of mapping the 5-acre Stauffer Chemical Site surrounding the buried northern extension of the Love Canal in the Town of Lewiston, New York.

The survey control work to satisfy Task Order Memorandum 'C' was established in May and July 1992 by OM P. POPLI, P.E., by Thomas Reitz, P.L.S., Party Chief, under the supervision of Michael Ives, P.L.S.

SCOPE OF SERVICES

TASK ORDER MEMORANDUM 'C'

Surveying Services for the STAUFFER CHEMICAL - NORTH LOVE CANAL SITE Lewiston, New York

The terms and conditions of the Task Order Agreement between OM P. POPLI, P.E., P.L.S., (POPLI) and E.C. JORDAN CO. (JORDAN) govern the services provided to complete Task Order Memorandum 'C'.

Project Summary

JORDAN, under contract to the New York State Department of Environmental Conservation (NYSDEC) is performing a preliminary site assessment (PSA) at the Stauffer Chemical- North Love Canal Site. The purpose of the investigation is to confirm or deny the presence of hazardous waste disposal on-site and determine if a significant threat exists to public health and the environment.

To complete the horizontal and vertical control survey of Task 3, of the agreement, the services of a New York State licensed land surveyor were required.

Task 3 Surveying Services

POPLI has provided in this Control Report a map and coordinate and elevation summary table in accordance with the perimeters described in Task Order Memorandum 'C'.

This report includes a map showing:

1. The appropriate buried Canal boundaries as determined by analyzing aerial photographs and existing subdivision maps. Little surface evidence was available.
2. Eighteen (18) new test boring sites with ground elevations, seven (7) of which are monitoring well locations.
3. Five (5) surface water sediment/sampling locations.
4. The location of all culverts, sanitary manholes and catch basins within the mapped area.
5. Residential property boundaries within 500 feet of the buried canal as determined by the existing subdivision and tax map information.

6. Project benchmark set by others. All locations shown on the map are based on New York State Geodetic Coordinates (West Zone) and are tied from a perimeter survey with a precision of 1:115,000.
7. A summary table (Table 1) showing the geodetic coordinates and elevations of new test borings, wells and surface water/sediment sampling locations.

All elevations shown in the summary tables and on the map are based on approximate U.S. Geological Survey Datum found in the table of benches provided to POPLI as station 133+10 Upper Mountain Road C.R. 11, Project No. 77-11.

Located in Appendix A are the final adjusted coordinates, tabulated raw data for the baseline survey and the tabulated raw data for the field locations along with a copy of the field notes, all information provided to POPLI to conduct this work.

TEST LOACTION SUMMARY TABLE

NEW MONITORING WELLS

NORTHING	EASTING	ELEVATIONS			WELL
		CASING	RISER	GROUND	
1154917.8	389320.0	635.24	635.08	635.2	MW-1
1155437.2	389233.5	626.09	625.69	626.1	MW-2
1155952.9	389112.7	622.31	622.12	622.2	MW-3
1154837.6	389209.3	636.40	636.22	636.4	MW-4
1156347.1	389178.4	616.80	616.51	616.8	MW-5
1155861.3	389383.3	621.29	620.92	621.1	MW-6
1155481.4	389449.4	624.42	624.13	624.4	MW-7
1155541.3	389215.5			624.4	EXIST WELL 8

TEST BORNGS

1154546.5	389386.5			634.8	TB-8
1154679.0	389354.5			636.4	TB-9
1154804.6	389344.1			636.4	TB-10
1155006.7	389305.2			634.6	TB-11
1155164.8	389281.2			632.1	TB-12
1155329.6	389266.4			628.1	TB-13
1155535.2	389200.8			624.5	TB-14
1155699.9	389192.6			622.4	TB-15
1155841.5	389149.5			622.6	TB-16
1156042.5	389120.0			621.2	TB-17
1156229.6	389083.0			618.1	TB-18

TEST LOCATION SUMMARY TABLE
CONTINUED

SURFACE WATER / SEDIMENT SAMPLING LOCATIONS

NORTHING	EASTING	ELEVATIONS		GROUND	SAMPLE No.
		TOP OF GRATE	INVERT(S)		
1155625.7	389380.1	622.43	S.=620.29 N.=620.28 W.=620.43		SW/SD-1
1155865.9	389344.6	621.54	N.=619.41 S.=619.59 W.=619.57 E.=619.49		SW/SD-2
1156089.9	389303.7	621.12	W.=619.35 E.=618.97 S.=619.01		SW/SD-3
1156130.4	389349.2			619.18	SW/SD-4
1155300.2	389485.8			625.32	SW/SD-5

APPENDIX A

1. **Identify**
 2. **Describe**
 3. **Explain**
 4. **Interpret**
 5. **Apply**
 6. **Evaluate**
 7. **Design**
 8. **Implement**
 9. **Monitor**
 10. **Report**
 11. **Reflect**
 12. **Communicate**
 13. **Collaborate**
 14. **Lead**
 15. **Manage**
 16. **Organize**
 17. **Plan**
 18. **Research**
 19. **Teach**
 20. **Write**

Point	Northings	Eastings	Description
1	1152300.7000	3893269.1200	POWER
2	1151787.3200	3899175.3915	IPC
3	1154504.9400	389617.9300	SCOTT
4	1155003.4720	389738.8466	POL PK5
5	1155109.6230	389507.0535	IP7
6	1155145.8310	389328.0678	TRAV 9
7	1155469.6950	388262.7599	TRAV 11
8	1154011.0300	388664.2437	TRAV 12
9	1154504.9400	389617.9792	MON SCOTT
10	1154729.5450	389491.8504	POL MONT 5
11	1155369.0090	389462.2514	POL 7-8
12	1155634.1180	389416.4610	POL 8
13	1156032.2650	389149.0710	POL 9-10
14	1156023.4640	389135.2040	POL 10
15	1154980.4390	388397.4230	POL 11-12
16	1154681.9950	388334.9600	PK 6
121	1154980.5923	389336.5186	ED CANNAL
122	1154945.5169	389282.2804	ED CANNAL
123	1154917.8587	389319.9560	MW-1
124	1155006.7340	389305.2293	TB-11
125	1154837.5710	389209.2785	MW-4
126	1154822.9392	389091.5244	S.EP JARRETT
127	1154885.0572	389189.3950	S.EP JARRETT
128	1154941.9662	389278.4162	S.EP JARRETT
129	1155017.9331	389396.3422	S.EP JARRETT
130	1155035.0239	389385.6694	N.EP JARRETT
131	1154958.4604	389267.0488	N.EP JARRETT
132	1154902.1607	389179.0177	N.EP JARRETT
133	1154842.9587	389085.8536	N.EP JARRETT
134	1154814.1785	389092.1373	YARD DRAIN
135	1154850.2898	389077.3126	SAN MH
136	1154835.7275	389119.2306	SAN MH
137	1154875.2669	389189.3431	YARD DRAIN
138	1154935.4576	389284.2105	YARD DRAIN
139	1154990.4264	389368.9139	YARD DRAIN
140	1154997.3752	389372.8607	SAN MH
141	1155029.1052	389356.5354	SAN MH
142	1155042.4153	389363.3679	YARD DRAIN
143	1154939.3443	389216.2376	YARD DRAIN
144	1155076.3053	389485.3820	E. EP
145	1155096.5355	389500.9122	E. EP
146	1155132.1979	389505.1426	E. EP
147	1155165.3922	389501.1365	E. EP
148	1155277.0052	389481.1990	E. EP
149	1155367.5614	389444.4774	W EP
150	1155266.5993	389462.5592	W EP
151	1155149.8598	389483.0955	W EP
152	1155115.2724	389484.5600	W EP
153	1155099.2056	389479.6625	W EP
154	1155086.1332	389484.9715	W EP
155	1155041.1741	389449.0010	YARD DRAIN
156	1155085.9522	389518.7115	E. INV. 12" CMP
157	1155067.2053	389484.7492	SAN MH
158	1155108.4504	389477.7620	NE CB
159	1155364.7235	389431.3808	YARD DR
160	1155279.3772	389488.7100	COL DITCH
161	1155148.4356	389512.8132	COL DITCH
162	1155077.9019	389525.9505	COL DITCH
163	1155110.1561	389442.4855	COL DITCH

165	1155319.6579	389046.4070	EP
167	1155300.1810	389405.7640	TB 17
168	1155440.6060	389463.1998	SW/SD-5
169	1155481.4502	389449.4301	CL DITCH
170	1155336.7640	389432.3694	MW 7
171	1155507.2055	389245.8808	SAN MH
172	1155472.5624	389191.0356	E EDG CANNAL
173	1155437.2207	389333.4650	W. EDG CANNAL
174	1155535.2128	389200.8437	MW 2
175	1155541.7476	389215.4893	TB-14
176	1155699.3599	389192.5741	EXIST WELL 8
177	1155841.4850	389149.5433	TB-15
178	1155861.2993	389323.3429	TB-16
179	1155572.7543	389407.8486	MW 6
180	1155580.5061	389406.3580	W. EP
181	1155586.9799	389394.3339	W. EP
182	1155584.1039	389370.1027	W. EP
183	1155523.1786	389273.1529	W. EP
184	1155456.8105	389168.2278	W. EP
185	1155378.1570	389043.8558	W. EP
186	1155395.0693	389033.3271	EP
187	1155469.5241	389151.2182	EP
188	1155531.0602	389276.7457	EP
189	1155616.6588	389383.8118	EP
190	1155628.1729	389391.8672	EP
191	1155642.0186	389395.7719	EP
192	1155786.7070	389370.9202	EP
193	1155790.4857	389390.4993	EP
194	1155626.7246	389418.4330	EP
195	1155582.2989	389390.3680	EP
196	1155514.6306	389281.0994	NW CB
197	1155459.3343	389188.9311	YARD DRAIN
198	1155405.7808	389103.2228	YARD DRAIN
199	1155529.7347	389224.8020	YARD DRAIN
200	1155491.5440	389237.8893	SAN MH
201	1155577.5251	389305.1011	SAN MH
202	1155625.7154	389380.0636	YARD DRAIN
203	1155634.7457	389382.6751	NW CB SW/SD 1
204	1155621.7054	389430.6363	SAN MH
205	1155645.8254	389415.2462	CL DITCH
206	1155870.9632	389376.5413	CL DITCH
207	1155999.3705	389354.5683	EP
208	1156140.0722	389329.7888	EP
209	1156143.0275	389318.6082	EP
210	1156076.4054	389212.0268	EP
211	1156006.8494	389102.7286	EP
212	1155932.5226	388986.2902	EP
213	1155845.4342	388849.7932	EP
214	1156075.4720	388766.6014	EP
215	1155888.9628	388955.0393	EP
216	1155946.7545	389045.6592	EP
217	1156022.7393	389164.4449	EP
218	1156101.5097	389288.8270	EP
219	1156096.0413	389308.0098	EP
220	1156079.0043	389320.3606	EP
221	1155991.3444	389335.7556	EP
222	1155862.4446	389357.8564	EP
223	1155857.8170	389345.0933	SAN MH
224	1155865.9217	389344.6083	NW CB SW/SD 2
225	1155866.3644	389320.8389	W. INV. 12" CMP
226	1156005.4068	389364.4381	CL DITCH
227	1156067.2531	389319.5975	CL DITCH

229	1156187.1113	389150.3550	N. INV. 12" CMP
230	1156347.1488	389173.3663	MW 3
231	1156130.3737	389349.2441	SW/9D-4
232	1155952.9187	389112.7007	MW-3
237	1156042.4864	389119.9903	TB 17
234	1155980.3739	389097.0005	W. EDG. CANNAL
235	1156015.2372	389151.5284	E. EDGE CANNAL
236	1155229.8975	388379.4529	YARD DRAIN
237	1155350.4969	388911.8782	INV. 12" CMP
238	1155871.9133	388945.4474	CL DITCH
239	1155893.4463	388979.1675	W. INV. 12" CMP
240	1155905.1878	388998.1015	E. INV. 12" CMP
241	1155924.2277	389027.1641	CL DITCH
242	1155949.5387	389069.3409	W. INV. 12" CMP
243	1155959.0918	389082.9797	E. INV. 12" CMP
244	1155972.5088	389104.9169	CL DITCH
245	1155989.3679	389130.4416	W. INV. 12" CMP
246	1156041.7523	389211.7001	E. INV. 12" CMP
247	1156055.3061	389232.4648	W. INV. 12" CMP
248	1156065.6937	389249.9291	E. INV. 12" CMP
249	1156082.3538	389277.2955	CL DITCH
250	1156089.1018	389298.3096	TOP 12" CMP
251	1156089.8909	389303.7077	NW CB SW/SD 3
252	1156127.8296	389344.2299	TOP 12" CMP
253	1156098.5552	389296.9826	SAN MH
254	1156132.2214	389281.5204	SAN MH
255	1156055.5804	389156.5043	SAN MH
256	1156094.0835	389133.0406	SAN MH
257	1155978.3353	389099.0716	SAN MH
258	1155910.0842	388931.3290	SAN MH
259	1155870.3778	388875.3122	YARD DRAIN
260	1155926.7644	388957.3171	YARD DRAIN
261	1155978.5414	389038.1863	YARD DRAIN
262	1156048.6276	389150.5264	YARD DRAIN
263	1156142.1708	389292.3583	YARD DRAIN
264	1156169.4553	389347.7324	TOP 12" CMP
265	1156229.6432	389083.0445	TB 18
266	1156309.0133	389038.9013	W. EDG. CANNAL
267	1155845.4852	388849.8609	EP
268	1155778.0343	388744.0191	EP
269	1155692.7863	388610.4618	EP
270	1155621.6919	388498.2351	EP
271	1155552.1998	388389.3011	EP
272	1155464.6518	388251.1866	EP
273	1155435.8170	388279.8265	EP
274	1155458.4802	388287.7565	EP
275	1155471.7047	388299.8987	EP
276	1155568.0704	388451.3294	EP
277	1155662.2322	388599.5140	EP
278	1155750.4687	388738.4291	EP
279	1155828.3094	388859.7607	YARD DRAIN
280	1155776.0715	388796.5368	W. INV. 12" CMP
281	1155722.7300	388710.2931	E. INV. 12" CMP
282	1155693.7548	388661.1213	W. INV. 12" CMP
283	1155683.2305	388647.5277	E. INV. 12" CMP
284	1155659.3369	388608.4686	W. INV. 12" CMP
285	1155631.3769	388566.1661	E. INV. 12" CMP
286	1155596.4303	388510.4442	W. INV. 12" CMP
287	1155554.4955	388443.4187	E. INV. 12" CMP
288	1155543.6886	388425.9102	W. INV. 12" CMP
289	1155522.2395	388407.4548	TOP 12" CMP
290	1155514.2127	388387.3076	TOP 12" CMP

292	1155713.0386	388335.4750	NW CB
293	1155491.9532	388346.1639	TOP 12" CMP
294	1155597.9283	388433.9440	YARD DRAIN
295	1155644.3770	388528.1584	YARD DRAIN
296	1155711.7163	388625.7300	YARD DRAIN
297	1155747.6283	388632.9782	YARD DRAIN
298	1155801.5160	388767.5856	YARD DRAIN
299	1155837.3704	388822.7251	YARD DRAIN
300	1155811.4197	388846.2999	SNA MH
301	1155774.4189	388710.1174	SAN MH
302	1155697.0585	388670.4202	SAN MH
303	1155550.6526	388432.9608	SAN MH
304	1155491.2246	388246.6146	1/2" IP
307	1155012.5781	388397.9830	EP
308	1155006.2568	388410.0290	EP
309	1155006.8448	388421.2749	EP
310	1155073.5793	388526.4193	EP
311	1155143.9084	388637.2584	EP
312	1155215.4915	388749.9411	EP
313	1155232.5171	388856.0435	EP
314	1155394.9681	389033.3860	EP
315	1155377.9576	389043.8496	EP
316	1155299.5136	388919.7944	EP
317	1155233.6796	388816.2571	EP
318	1155157.3040	388695.8292	EP
319	1155087.1467	388585.2739	EP
320	1154995.3830	388441.0380	EP
321	1154981.4376	388426.6038	EP
322	1154965.6103	388417.4171	EP
323	1154953.7345	388415.3171	EP
324	1155018.5549	388407.5861	N. INV. 12" CMP
325	1155011.4562	388409.2594	CB
326	1155105.7996	388565.2798	YARD DRAIN
327	1155178.8128	388672.4845	YARD DRAIN
328	1155231.2116	388754.1789	YARD DRAIN
329	1155263.5312	388806.4777	YARD DRAIN
330	1155286.8107	388842.7495	YARD DRAIN
331	1155337.1126	388925.9114	YARD DRAIN
332	1155391.8625	389012.6023	YARD DRAIN
333	1155355.0146	389023.9779	YARD DRAIN
334	1155301.0400	388938.3641	YARD DRAIN
335	1155253.1856	388862.2013	YARD DRAIN
336	1155214.5091	388799.9699	YARD DRAIN
337	1155191.6006	388764.8313	YARD DRAIN
338	1155139.0462	388681.0407	NW CB
339	1155070.9144	388653.6770	YARD DRAIN
340	1155097.8674	388600.8715	YARD DRAIN
341	1155049.3830	388544.5866	YARD DRAIN
342	1154969.9528	388422.6997	NW CB
343	1155163.4692	388645.2094	SAN MH
344	1155314.6594	388883.5721	SAN MH
345	1155278.3890	388897.4400	SAN MH
346	1155122.3802	388649.7923	SAN MH
347	1154838.1079	389072.2515	EP
348	1154776.3228	388980.7569	EP
349	1154708.6392	388873.5035	EP
350	1154640.6051	388765.3080	EP
351	1154572.7597	388657.9268	EP
352	1154516.6682	388567.2541	EP
353	1154517.7656	388554.1385	EP
354	1154524.0195	388539.4137	EP
355	1154457.4370	388526.5796	EP

357	1154495.7512	388574.5603	EP
358	1154566.1190	388634.6351	EP
359	1154638.6016	388799.6574	EP
360	1154738.5224	388955.5729	EP
361	1154825.6775	389095.9773	EP
362	1154768.5583	389018.5939	YARD DRAIN
363	1154708.5454	388922.5592	YARD DRAIN
364	1154652.1813	388833.0978	YARD DRAIN
365	1154617.1526	388777.0698	YARD DRAIN
366	1154595.0742	388743.0166	YARD DRAIN
367	1154476.3958	388563.6193	NE CB
368	1154531.7204	388546.6521	N. INV. 12" CMP
369	1154554.8780	388535.1212	NE CB
370	1154531.7303	388568.2966	YARD DRAIN
371	1154612.9590	388704.6675	YARD DRAIN
372	1154664.2007	388782.6436	YARD DRAIN
373	1154690.3323	388824.9904	YARD DRAIN
374	1154729.4654	388888.2493	YARD DRAIN
375	1154790.6488	388983.5595	YARD DRAIN
376	1154622.9727	388780.4245	SAN MH
377	1154650.9040	388765.4827	SAN MH
378	1154806.7522	389105.3190	IP
379	1154703.8142	388819.1518	IP
380	1154508.1617	389420.6419	PK @ EDG. CANNAL
381	1154269.5716	389520.9675	PK @ EDG. CANNAL
382	1154546.4943	389386.5302	TB 8
383	1154496.3939	389401.6460	EDG. ASPH DR
384	1154548.0988	389381.9774	EDG. ASPH DR
385	1154551.0626	389365.3104	EDG. ASPH DR
386	1154484.5356	389369.6870	EDG. ASPH DR
387	1154298.2597	389116.8860	EP
388	1154598.0629	389564.5321	EP
389	1154579.0762	389575.7781	EP
390	1154281.3640	389131.2940	EP
392	1155684.0687	389044.6749	CL DTCH
393	1155731.3798	389125.5954	CL DTCH
394	1155787.9679	389218.9337	CL DTCH
395	1155859.6464	389336.1927	TOP 12" CMP
397	1155389.8873	389229.2114	HSE 1144
398	1155400.3098	389295.4443	HSE 1144
399	1155472.5691	389191.0693	PK
400	1155609.3614	389244.6904	HSE 1143
401	1155588.3648	389185.4541	HSE 1143
402	1155592.6382	389208.2962	HSE 1143
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411	1155042.1865	389356.4398	HSE 1145
412	1154913.5079	389435.5578	PK
413	1154929.7654	389417.6672	HSE 1176
414	1154968.0473	389404.6763	HSE 1176
415	1154980.1321	389415.9399	HSE 1176
416	1154993.9576	389434.2690	HSE 1176
417	1155130.5058	389239.2075	HSE 1179
418	1155099.2043	389262.0008	HSE 1179
419	1155117.2736	389237.3758	HSE 1179
420	1154894.8707	389346.1480	TB 10

421	1154605.6941	389353.7200
423	1154616.1644	389409.5950
424	1154562.3472	389539.4245
425	1154587.3927	389530.7094
426	1154127.8692	389567.4480
427	1154107.2221	389568.9312
428	1153975.4727	389578.1778
429	1153974.0420	389535.2306
430	1154000.8231	389533.4455
431	1154149.3512	389523.2473
432	1154317.9770	389512.1894
433	1154396.0641	389506.8319
434	1154415.9479	389505.5296
436	1154571.5901	389496.2771
437	1154335.6738	389516.4769
438	1154276.4730	389509.6922
439	1154317.0087	389424.8157
440	1154370.5078	389444.3111

HSE 1169
HSE 1169
CL DTCH
CL DTCH
E. INV. 12" CMP
TOP 12" CMP
CL DTCH
CL DTCH
TOP 12" CMP
YARD DRAIN
TOP 12" CMP
TOP 12" CMP
TOP 12" CMP
CL DTCH
E. EDG. CANNAL PK
SNA MH
HSE 1169
HSE 1169

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JOB: CTPL Date 07-27-1990 Time 14:11:23
Node setup: North Azm Dist ft. scale 0.999921, Earth curv OFF, offset 0.000
Store :Pt 1 N 1152300.7000 E 393269.1200, Elv 100.0000, POWER
HI / HR : Inst H 0.000 Rod H 0.000
Store :Pt 2 N 1154504.9400 E 389617.9300, Elv 632.8400, SCOTT
Occupy:Pt 1 N 1152300.7000 E 393269.1200, Elv 100.0000, START
Backsight:1-0, BS azm 0.0000, BS cir 0.0000
Traverse: 1-2 Azm 260.5436 Zen 90.0000 SlpD 3376.394, IP 3
Occupy:Pt 3 N 1154504.9400 E 389617.9300, Elv 632.8400, SCOTT
Backsight:3-2, BS azm 173.2327, BS cir 0.0000
Traverse: 3-4 Ang-Rt 157.1827 Zen 90.0000 SlpD 570.604, POL PK5
Traverse: 4-5 Ang-Rt 266.5024 Zen 90.0000 SlpD 199.521, IP 7
Traverse: 5-6 Ang-Rt 112.4003 Zen 90.0000 SlpD 1051.684, TRAV POINT 9
Traverse: 6-7 Ang-Rt 67.2342 Zen 90.0000 SlpD 1261.887, TRAV POINT 11
Traverse: 7-8 Ang-Rt 107.0056 Zen 90.0000 SlpD 1513.028, TRAV POINT 12
Traverse: 8-9 Ang-Rt 73.0039 Zen 90.0000 SlpD 1074.123, MON SCOTT
Traverse: 9-10 Ang-Rt 88.0419 Zen 90.0000 SlpD 570.604, POL 5
Occupy:Pt 3 N 1154504.9400 E 389617.9300, Elv 632.8400, SCOTT
Backsight:3-4, BS azm 330.4134, BS cir 0.0000
Side shot : 3-10 Ang-Rt 0.0000 Zen 90.0000 SlpD 257.573, POL MONT.5
Occupy:Pt 4 N 1155002.4723 E 389338.6466, Elv 634.6800, POL PK5
Backsight:4-5, BS azm 57.3158, BS cir 0.0000
Side shot : 4-16 Ang-Rt 180.0000 Zen 90.0000 SlpD 596.997, PK 6
Occupy:Pt 5 N 1155109.6235 E 389507.0535, Elv 631.0400, IP 7
Backsight:5-6, BS azm 350.1201, BS cir 0.0000
Side shot : 5-11 Ang-Rt 0.0000 Zen 90.0000 SlpD 263.227, POL 7-8
Side shot : 5-12 Ang-Rt 0.0000 Zen 90.0000 SlpD 532.261, POL 8
Occupy:Pt 6 N 1156145.8807 E 389328.0678, Elv 621.3200, TRAV POINT 9
Backsight:6-7, BS azm 237.3543, BS cir 0.0000
Side shot : 6-13 Ang-Rt 0.0000 Zen 90.0000 SlpD 212.010, POL 9-10
Side shot : 6-14 Ang-Rt 0.0000 Zen 90.0000 SlpD 228.435, POL 10
Occupy:Pt 7 N 1155469.6952 E 388262.7599, Elv 632.3200, TRAV POINT 11
Backsight:7-8, BS azm 164.3639, BS cir 0.0000
Side shot : 7-15 Ang-Rt 0.0000 Zen 90.0000 SlpD 507.450, POL 11-12
Store :Pt 3 N 1154504.9400 E 389617.9300, Elv 632.8400, SCOTT
Store :Pt 4 N 1155002.4723 E 389338.6466, Elv 634.6800, POL PK5
Store :Pt 5 N 1155109.6235 E 389507.0535, Elv 631.0400, IP 7
Store :Pt 6 N 1156145.8807 E 389328.0678, Elv 621.3100, TRAV POINT 9
Store :Pt 7 N 1155469.6952 E 388262.7599, Elv 632.3200, TRAV POINT 11
Store :Pt 8 N 1154011.0302 E 388664.2437, Elv 624.6200, TRAV POINT 12
Store :Pt 9 N 1154504.9401 E 389617.9792, Elv 632.8400, MON SCOTT
Store :Pt 16 N 1154682.0203 E 388835.0001, Elv 634.1800, PK 6
Store :Pt 10 N 1154729.5281 E 389491.8603, Elv 636.2400, POL MONT.5
Store :Pt 11 N 1155368.9893 E 389462.2550, Elv 626.7400, POL 7-8
Store :Pt 12 N 1155634.0770 E 389416.4682, Elv 622.8600, POL 8
Store :Pt 13 N 1156032.2746 E 389149.0851, Elv 622.2800, POL 9-10
Store :Pt 14 N 1156023.4732 E 389135.2188, Elv 100.0000, POL 10
Store :Pt 15 N 1154980.4773 E 388397.4123, Elv 632.9400, POL 11-12

JOB: STAUFFEP Date 07-27-1990 Time 10:17:11

Mode setup:North Azm.Dist ft.scale 0.999921. Earth cry OFF. Offset 0.000

Store :Pt 1 N 1152300.7000 E 393269.1200. Elev 0.0000. POWER
 Store :Pt 2 N 1151767.3200 E 389935.3915. Elev 0.0000. IP2
 Store :Pt 3 N 1154504.9400 E 389617.9300. Elev 0.0000. SCOTT
 Store :Pt 4 N 1155002.4720 E 389338.6466. Elev 0.0000. POL PK5
 Store :Pt 5 N 1155109.6230 E 389507.0535. Elev 0.0000. IP7
 Store :Pt 6 N 1156145.8310 E 389328.0678. Elev 0.0000. TRAV 9
 Store :Pt 7 N 1155469.6950 E 388262.7599. Elev 0.0000. TRAV 11
 Store :Pt 8 N 1154011.0300 E 388664.2437. Elev 0.0000. TRAV 12
 Store :Pt 9 N 1154504.9400 E 389617.9792. Elev 0.0000. MON SCOTT
 Store :Pt 10 N 1154729.5450 E 389491.8504. Elev 0.0000. POL MONT 5
 Store :Pt 11 N 1155369.0090 E 389462.2514. Elev 0.0000. POL 7-8
 Store :Pt 12 N 1155634.1180 E 389416.4610. Elev 0.0000. POL 8
 Store :Pt 13 N 1156032.2650 E 389149.0710. Elev 0.0000. POL 9-10
 Store :Pt 14 N 1156023.4640 E 389135.2040. Elev 0.0000. POL 10
 Store :Pt 15 N 1154980.4390 E 388397.4230. Elev 0.0000. POL 11-12
 Store :Pt 16 N 1154681.9950 E 388834.9600. Elev 0.0000. PK 6

Occupy:Pt 4 N 1155002.4720 E 389338.6466. Elev 100.0000. POL PK5

Backsight:4-5. BS azm 0.0000. BS cir 0.0000

Side shot : 4-121 Ang-Rt 128.0120 Zen 91.1542 SlpD 21.990 ,ED CANNAL
 Side shot : 4-122 Ang-Rt 167.0408 Zen 89.5610 SlpD 30.280 ,ED CANNAL
 Side shot : 4-123 Ang-Rt 134.5524 Zen 90.0636 SlpD 36.660 ,MW-1
 Side shot : 4-124 Ang-Rt 219.4407 Zen 91.2050 SlpD 33.700 ,TB-1
 Side shot : 4-125 Ang-Rt 160.3455 Zen 89.4352 SlpD 209.610 ,MW-4
 Side shot : 4-126 Ang-Rt 176.2808 Zen 89.4434 SlpD 305.480 ,S.EP JARRETT
 Side shot : 4-127 Ang-Rt 174.1631 Zen 89.3648 SlpD 139.920 ,S.EP JARRETT
 Side shot : 4-128 Ang-Rt 167.2012 Zen 89.5654 SlpD 85.380 ,S.EP JARRETT
 Side shot : 4-129 Ang-Rt 17.2756 Zen 91.3718 SlpD 59.760 ,S.EP JARRETT
 Side shot : 4-130 Ang-Rt 357.4626 Zen 91.4120 SlpD 57.220 ,N.EP JARRETT
 Side shot : 4-131 Ang-Rt 180.5316 Zen 89.5256 SlpD 84.050 ,N.EP JARRETT
 Side shot : 4-132 Ang-Rt 180.1918 Zen 89.3553 SlpD 188.550 ,N.EP JARRETT
 Side shot : 4-133 Ang-Rt 180.1254 Zen 89.4256 SlpD 298.940 ,N.EP JARRETT
 Side shot : 4-134 Ang-Rt 175.0535 Zen 90.0012 SlpD 310.220 ,YARD DRAIN
 Side shot : 4-135 Ang-Rt 182.1513 Zen 89.5100 SlpD 302.440 ,SAN MH
 Side shot : 4-136 Ang-Rt 175.1403 Zen 89.4335 SlpD 275.610 ,SAN MH
 Side shot : 4-137 Ang-Rt 172.0211 Zen 90.0105 SlpD 196.160 ,YARD DRAIN
 Side shot : 4-138 Ang-Rt 161.3315 Zen 90.3817 SlpD 86.350 ,YARD DRAIN
 Side shot : 4-139 Ang-Rt 54.1006 Zen 94.0233 SlpD 32.660 ,YARD DRAIN
 Side shot : 4-140 Ang-Rt 40.5624 Zen 92.3600 SlpD 34.630 ,SAN MH
 Side shot : 4-141 Ang-Rt 336.2119 Zen 93.3713 SlpD 32.150 ,SAN MH
 Side shot : 4-142 Ang-Rt 334.1315 Zen 93.0950 SlpD 47.050 ,YARD DRAIN
 Side shot : 4-143 Ang-Rt 125.1111 Zen 90.1205 SlpD 137.740 ,YARD DRAIN

Occupy:Pt 5 N 1155109.6240 E 389507.0535. Elev 100.0000. IP 7

Backsight:5-6. BS azm 0.0000. BS cir 0.0000

Side shot : 5-144 Ang-Rt 222.5030 Zen 89.3354 SlpD 39.750 ,E. EP
 Side shot : 5-145 Ang-Rt 214.5616 Zen 90.5820 SlpD 14.460 ,E. EP
 Side shot : 5-146 Ang-Rt 4.5740 Zen 92.3326 SlpD 22.680 ,E. EP
 Side shot : 5-147 Ang-Rt 3.4436 Zen 91.3912 SlpD 56.110 ,E. EP
 Side shot : 5-148 Ang-Rt 1.0108 Zen 91.0404 SlpD 169.410 ,E. EP
 Side shot : 5-149 Ang-Rt 356.0947 Zen 91.0548 SlpD 265.490 ,W EP
 Side shot : 5-150 Ang-Rt 353.5822 Zen 91.0212 SlpD 163.200 ,W EP
 Side shot : 5-151 Ang-Rt 338.5412 Zen 91.3725 SlpD 46.680 ,W EP
 Side shot : 5-152 Ang-Rt 293.5354 Zen 92.0800 SlpD 23.210 ,W EP
 Side shot : 5-154 Ang-Rt 250.3747 Zen 89.2730 SlpD 48.200 ,W EP
 Side shot : 5-153 Ang-Rt 258.5836 Zen 90.4505 SlpD 29.310 ,W EP
 Side shot : 5-155 Ang-Rt 230.0605 Zen 89.4130 SlpD 39.760 ,YARD DRAIN
 Side shot : 5-156 Ang-Rt 163.3554 Zen 95.4542 SlpD 26.540 ,E. INV. 12" CMP
 Side shot : 5-157 Ang-Rt 217.3210 Zen 89.2948 SlpD 47.930 ,SAN MH
 Side shot : 5-158 Ang-Rt 277.3006 Zen 92.1514 SlpD 29.340 ,NE CR

Side shot : 5-160 Ang-Rt 1.3756 Zen 92.0000 SlpD 170.360 .CL DITCH
 Side shot : 5-161 Ang-Rt 18.1426 Zen 94.4910 SlpD 19.380 .CL DITCH
 Side shot : 5-162 Ang-Rt 159.0059 Zen 93.3718 SlpD 37.000 .CL DITCH
 Side shot : 5-163 Ang-Rt 280.4431 Zen 95.1854 SlpD 44.770 .1-2"IF
 HT HP : Insr H 0.000 Rod H 0.000
 occupy:Pt 11 N 1155259.0100 E 389462.2510. Elv 0.0000. POL 7-8
 backsight:11-6. BS azm 0.0000. BS cir 0.0000
 Side shot : 11-165 Ang-Rt 221.2112 Zen 89.8144 SlpD 273.000 .TB 10
 Side shot : 11-166 Ang-Rt 258.2554 Zen 89.4814 SlpD 199.760 .TB 12
 Side shot : 11-167 Ang-Rt 170.5618 Zen 91.4138 SlpD 72.770 .SW/SD-5
 Side shot : 11-168 Ang-Rt 10.3330 Zen 93.4250 SlpD 71.780 .CL DITCH
 Side shot : 11-169 Ang-Rt 3.1740 Zen 91.3244 SlpD 113.220 .MW 7
 Side shot : 11-170 Ang-Rt 226.1930 Zen 90.2526 SlpD 40.130 .SAN MH
 occupy:Pt 12 N 1155634.1130 E 389416.4610. Elv 0.0000. POL 8
 Backsight:12-6. BS azm 0.0000. BS cir 0.0000
 Side shot : 12-171 Ang-Rt 243.0856 Zen 89.3323 SlpD 212.630 .E.EDG CANWAL
 Side shot : 12-172 Ang-Rt 244.0956 Zen 89.3056 SlpD 277.330 .W.EDG CANWAL
 Side shot : 12-173 Ang-Rt 232.4214 Zen 89.2530 SlpD 268.840 .NW 2
 Side shot : 12-174 Ang-Rt 255.0930 Zen 89.4624 SlpD 237.240 .TB-14
 Side shot : 12-175 Ang-Rt 255.0116 Zen 89.4446 SlpD 221.370 .EXIST WELL 8
 Side shot : 12-176 Ang-Rt 296.0950 Zen 90.1420 SlpD 233.360 .TB-15
 Side shot : 12-177 Ang-Rt 317.3835 Zen 89.5618 SlpD 338.030 .TB-16
 Side shot : 12-178 Ang-Rt 1.3020 Zen 90.3100 SlpD 229.610 .MW 6
 Side shot : 12-179 Ang-Rt 197.4720 Zen 90.0118 SlpD 61.970 .W.EP
 Side shot : 12-180 Ang-Rt 200.2818 Zen 90.0803 SlpD 54.560 .W.EP
 Side shot : 12-181 Ang-Rt 214.5642 Zen 90.2903 SlpD 52.080 .W.EP
 Side shot : 12-182 Ang-Rt 232.3738 Zen 90.0400 SlpD 68.200 .W.EP
 Side shot : 12-183 Ang-Rt 242.0318 Zen 89.3554 SlpD 181.250 .W.EP
 Side shot : 12-184 Ang-Rt 244.1544 Zen 89.2908 SlpD 305.090 .W.EP
 Side shot : 12-185 Ang-Rt 245.1845 Zen 89.0732 SlpD 452.140 .W.EP
 Side shot : 12-186 Ang-Rt 247.5018 Zen 89.0800 SlpD 451.680 .EP
 Side shot : 12-187 Ang-Rt 247.5842 Zen 89.2750 SlpD 312.200 .EP
 Side shot : 12-188 Ang-Rt 243.2310 Zen 89.3706 SlpD 173.630 .EP
 Side shot : 12-189 Ang-Rt 251.3950 Zen 90.4224 SlpD 37.030 .EP
 Side shot : 12-190 Ang-Rt 266.1324 Zen 91.2220 SlpD 25.310 .EP
 Side shot : 12-191 Ang-Rt 300.4200 Zen 91.5248 SlpD 22.160 .EP
 Side shot : 12-192 Ang-Rt 353.1054 Zen 90.3318 SlpD 159.260 .EP
 Side shot : 12-193 Ang-Rt 0.2222 Zen 90.3700 SlpD 158.530 .EP
 Side shot : 12-194 Ang-Rt 174.5154 Zen 93.5233 SlpD 7.670 .EP
 Side shot : 12-195 Ang-Rt 216.3136 Zen 90.5538 SlpD 58.030 .NW CB
 Side shot : 12-196 Ang-Rt 238.2150 Zen 89.4820 SlpD 130.570 .YARD DRAIN
 Side shot : 12-197 Ang-Rt 242.1608 Zen 89.4136 SlpD 286.940 .YARD DRAIN
 Side shot : 12-198 Ang-Rt 243.4233 Zen 89.2433 SlpD 387.680 .YARD DRAIN
 Side shot : 12-199 Ang-Rt 251.1332 Zen 89.4520 SlpD 218.260 .SAN MH
 Side shot : 12-200 Ang-Rt 241.1143 Zen 89.3603 SlpD 228.530 .SAN MH
 Side shot : 12-201 Ang-Rt 250.5136 Zen 90.3050 SlpD 124.930 .YARD DRAIN
 Side shot : 12-202 Ang-Rt 266.4801 Zen 91.2820 SlpD 37.370 .NW CB
 Side shot : 12-203 Ang-Rt 280.5150 Zen 91.0220 SlpD 33.800 .SAN MH
 Side shot : 12-204 Ang-Rt 141.0024 Zen 98.3900 SlpD 19.060 .CL DITCH
 Side shot : 12-205 Ang-Rt 3.5233 Zen 171.9500 SlpD 91.190 .CL DITCH
 occupy:Pt 6 N 1156145.3810 E 389323.0680. Elv 0.0000. TRAV 9
 backsight:6-7. BS azm 0.0000. BS cir 0.0000
 Side shot : 6-206 Ang-Rt 292.2418 Zen 90.0130 SlpD 273.130 .EP
 Side shot : 6-207 Ang-Rt 292.0907 Zen 90.0656 SlpD 148.900 .EP
 Side shot : 6-208 Ang-Rt 285.5406 Zen 91.0654 SlpD 6.060 .EP
 Side shot : 6-209 Ang-Rt 15.3703 Zen 92.2314 SlpD 9.890 .EP
 Side shot : 6-210 Ang-Rt 1.2942 Zen 90.0102 SlpD 135.260 .EP
 Side shot : 6-211 Ang-Rt 0.4250 Zen 89.5132 SlpD 264.800 .EP
 Side shot : 6-212 Ang-Rt 0.2547 Zen 89.5029 SlpD 402.940 .EP

Side shot : 6-214 Ang-Rt 385.1525 Zen 89.5225 SlpD 565.910 ,EP
 Side shot : 6-215 Ang-Rt 357.5053 Zen 89.5126 SlpD 452.980 ,EP
 Side shot : 6-216 Ang-Rt 357.1301 Zen 89.5145 SlpD 345.580 ,EP
 Side shot : 6-217 Ang-Rt 355.2623 Zen 89.5548 SlpD 204.800 ,EP
 Side shot : 6-218 Ang-Rt 343.5326 Zen 90.2400 SlpD 59.240 ,EP
 Side shot : 6-219 Ang-Rt 324.1937 Zen 90.2350 SlpD 53.730 ,EP
 Side shot : 6-220 Ang-Rt 308.3320 Zen 90.1640 SlpD 67.270 ,EP
 Side shot : 6-221 Ang-Rt 299.3324 Zen 90.0226 SlpD 154.740 ,EP
 Side shot : 6-222 Ang-Rt 296.2418 Zen 90.0036 SlpD 285.020 ,EP
 Side shot : 6-223 Ang-Rt 299.0120 Zen 90.0633 SlpD 238.590 ,SAN MH
 Side shot : 6-224 Ang-Rt 299.0124 Zen 90.0448 SlpD 280.470 ,NW CB
 Side shot : 6-225 Ang-Rt 290.2914 Zen 90.2230 SlpD 265.260 ,W.INV. 12"CMP
 Side shot : 6-226 Ang-Rt 287.5320 Zen 91.0020 SlpD 145.140 ,CL DITCH
 Side shot : 6-227 Ang-Rt 279.0926 Zen 92.5703 SlpD 52.340 ,CL DITCH
 Side shot : 6-228 Ang-Rt 234.5138 Zen 97.3510 SlpD 23.160 ,S. INV 12" CMP
 Side shot : 6-229 Ang-Rt 179.5044 Zen 95.5859 SlpD 26.590 ,N. INV. 12"CMP
 Side shot : 6-230 Ang-Rt 85.4547 Zen 86.2903 SlpD 251.330 ,MW 5
 Side shot : 6-231 Ang-Rt 248.3642 Zen 95.5838 SlpD 26.390 ,SW/SD-4
 Side shot : 6-232 Ang-Rt 350.3243 Zen 89.5443 SlpD 289.190 ,MW-3
 Side shot : 6-233 Ang-Rt 5.5854 Zen 90.1124 SlpD 232.370 ,TB 17
 Side shot : 6-234 Ang-Rt 356.4730 Zen 89.5050 SlpD 284.250 ,W EDG. CANNAL
 Side shot : 6-235 Ang-Rt 355.5408 Zen 89.5408 SlpD 219.640 ,E. EDGE CANNAL
 Side shot : 6-236 Ang-Rt 357.1444 Zen 89.5824 SlpD 548.770 ,YARD DRAIN
 Side shot : 6-237 Ang-Rt 357.0224 Zen 90.0808 SlpD 510.400 ,INV.12"CMP
 Side shot : 6-238 Ang-Rt 356.4803 Zen 90.0706 SlpD 470.630 ,CL DITCH
 Side shot : 6-239 Ang-Rt 356.3106 Zen 90.0856 SlpD 430.680 ,W.INV.12"CMP
 Side shot : 6-240 Ang-Rt 356.1745 Zen 90.1236 SlpD 408.460 ,E.INV.12"CMP
 Side shot : 6-241 Ang-Rt 356.0142 Zen 90.1018 SlpD 373.760 ,CL DITCH
 Side shot : 6-242 Ang-Rt 355.1238 Zen 90.1238 SlpD 324.820 ,W.INV.12"CMP
 Side shot : 6-243 Ang-Rt 355.0533 Zen 90.1342 SlpD 308.180 ,E.INV.12"CMP
 Side shot : 6-244 Ang-Rt 354.3336 Zen 90.1503 SlpD 282.610 ,CL DITCH
 Side shot : 6-245 Ang-Rt 354.0657 Zen 90.1941 SlpD 251.810 ,W.INV.12"CMP
 Side shot : 6-246 Ang-Rt 350.3454 Zen 90.2200 SlpD 156.170 ,E.INV.12"CMP
 Side shot : 6-247 Ang-Rt 348.5706 Zen 91.0530 SlpD 131.730 ,W.INV.12"CMP
 Side shot : 6-248 Ang-Rt 346.3948 Zen 91.1723 SlpD 112.000 ,E.INV.12"CMP
 Side shot : 6-249 Ang-Rt 341.0214 Zen 91.3314 SlpD 81.360 ,CL DITCH
 Side shot : 6-250 Ang-Rt 330.0350 Zen 91.2606 SlpD 64.130 ,TOP 12"CMP
 Side shot : 6-251 Ang-Rt 325.5503 Zen 90.4530 SlpD 61.070 ,NW CB
 Side shot : 6-252 Ang-Rt 260.3355 Zen 93.5854 SlpD 24.290 ,TOP 12"CMP
 Occupy:Pt 13 N 1156032.2660 E 389149.0710, Elv 0.0000, POL 9-10
 Backsight:13-7, BS azm 0.0000, BS cir 0.0000
 Side shot : 13-253 Ang-Rt 188.1550 Zen 90.3824 SlpD 162.110 ,SAN MH
 Side shot : 13-254 Ang-Rt 175.2149 Zen 91.4148 SlpD 166.020 ,SAN MH
 Side shot : 13-255 Ang-Rt 140.0516 Zen 94.1300 SlpD 24.540 ,SAN MH
 Side shot : 13-256 Ang-Rt 107.5202 Zen 92.0424 SlpD 63.910 ,SAN MH
 Side shot : 13-257 Ang-Rt 345.1420 Zen 90.2914 SlpD 73.550 ,SAN MH
 Side shot : 13-258 Ang-Rt 3.0624 Zen 90.0936 SlpD 249.700 ,SAN MH
 Side shot : 13-259 Ang-Rt 1.4824 Zen 90.1156 SlpD 318.070 ,YARD DRAIN
 Side shot : 13-260 Ang-Rt 3.3508 Zen 90.1510 SlpD 218.880 ,YARD DRAIN
 Side shot : 13-261 Ang-Rt 6.3316 Zen 90.3506 SlpD 123.230 ,YARD DRAIN
 Side shot : 13-262 Ang-Rt 127.2915 Zen 97.4503 SlpD 16.580 ,YARD DRAIN
 Side shot : 13-263 Ang-Rt 174.5455 Zen 90.3918 SlpD 180.610 ,YARD DRAIN
 Side shot : 13-264 Ang-Rt 177.4636 Zen 89.2435 SlpD 241.460 ,TOP 12"CMP
 Side shot : 13-265 Ang-Rt 103.5431 Zen 91.1846 SlpD 208.200 ,TB 18
 Side shot : 13-266 Ang-Rt 100.4152 Zen 91.1730 SlpD 297.970 ,W.EDG.CANNAL
 Occupy:Pt 7 N 1155469.5950 E 388262.7599, Elv 0.0000, TRAV 11
 Backsight:7-8, BS azm 0.0000, BS cir 0.0000
 Side shot : 7-267 Ang-Rt 252.4600 Zen 90.4706 SlpD 697.190 ,EP
 Side shot : 7-268 Ang-Rt 252.4430 Zen 90.5050 SlpD 571.670 ,EP

Side shot : 7-170 Ang-Rt 252.3250 Zen 91.1518 SlpD 180.360 ,EP
 Side shot : 7-171 Ang-Rt 252.1705 Zen 91.2454 SlpD 151.120 ,EP
 Side shot : 7-272 Ang-Rt 81.5036 Zen 91.3303 SlpD 12.630 ,EP
 Side shot : 7-273 Ang-Rt 348.3906 Zen 90.4336 SlpD 37.940 ,EP
 Side shot : 7-274 Ang-Rt 309.3309 Zen 91.3606 SlpD 27.410 ,EP
 Side shot : 7-275 Ang-Rt 282.1730 Zen 92.0315 SlpD 37.220 ,EP
 Side shot : 7-276 Ang-Rt 257.5018 Zen 91.1820 SlpD 212.760 ,EP
 Side shot : 7-277 Ang-Rt 253.3750 Zen 91.0510 SlpD 388.010 ,EP
 Side shot : 7-278 Ang-Rt 254.5013 Zen 90.5136 SlpD 552.460 ,EP
 Side shot : 7-279 Ang-Rt 254.2346 Zen 90.4706 SlpD 696.550 ,YARD DRAIN
 Side shot : 7-280 Ang-Rt 255.2203 Zen 90.5418 SlpD 615.580 ,W. INV. 12" CMP
 Side shot : 7-281 Ang-Rt 255.5419 Zen 91.0946 SlpD 514.260 ,E. INV. 12" CMP
 Side shot : 7-282 Ang-Rt 256.0200 Zen 91.1319 SlpD 457.190 ,W. INV. 12" CMP
 Side shot : 7-283 Ang-Rt 256.2136 Zen 91.1518 SlpD 440.190 ,E. INV. 12" CMP
 Side shot : 7-284 Ang-Rt 256.3830 Zen 91.2136 SlpD 394.450 ,W. INV. 12" CMP
 Side shot : 7-285 Ang-Rt 257.2011 Zen 91.2913 SlpD 343.940 ,E. INV. 12" CMP
 Side shot : 7-286 Ang-Rt 258.1728 Zen 91.3750 SlpD 278.360 ,W. INV. 12" CMP
 Side shot : 7-287 Ang-Rt 260.1438 Zen 91.5020 SlpD 199.690 ,E. INV. 12" CMP
 Side shot : 7-288 Ang-Rt 260.5936 Zen 91.4912 SlpD 179.250 ,W. INV. 12" CMP
 Side shot : 7-289 Ang-Rt 262.4747 Zen 91.3520 SlpD 152.460 ,TOP 12 CMP
 Side shot : 7-290 Ang-Rt 264.0436 Zen 91.4106 SlpD 130.000 ,TOP 12 CMP
 Side shot : 7-291 Ang-Rt 299.4642 Zen 94.2930 SlpD 40.480 ,CL DITCH
 Side shot : 7-292 Ang-Rt 246.3209 Zen 92.3118 SlpD 93.420 ,NW CB
 Side shot : 7-293 Ang-Rt 269.4818 Zen 92.5350 SlpD 86.710 ,TOP 12" CMP
 Side shot : 7-294 Ang-Rt 250.1200 Zen 91.3510 SlpD 215.680 ,YARD DRAIN
 Side shot : 7-295 Ang-Rt 251.1724 Zen 91.2642 SlpD 320.630 ,YARD DRAIN
 Side shot : 7-296 Ang-Rt 251.4457 Zen 91.1125 SlpD 436.110 ,YARD DRAIN
 Side shot : 7-297 Ang-Rt 251.5430 Zen 91.0256 SlpD 503.940 ,YARD DRAIN
 Side shot : 7-298 Ang-Rt 252.0420 Zen 90.5512 SlpD 604.240 ,YARD DRAIN
 Side shot : 7-299 Ang-Rt 252.0600 Zen 90.5344 SlpD 670.020 ,YARD DRAIN
 Side shot : 7-300 Ang-Rt 255.0208 Zen 90.4945 SlpD 676.360 ,SNA MH
 Side shot : 7-301 Ang-Rt 251.0740 Zen 90.5736 SlpD 541.400 ,SAN MH
 Side shot : 7-302 Ang-Rt 256.1422 Zen 91.0156 SlpD 466.890 ,SAN MH
 Side shot : 7-303 Ang-Rt 259.5656 Zen 91.2536 SlpD 183.550 ,SAN MH
 Side shot : 7-304 Ang-Rt 158.3121 Zen 91.1824 SlpD 26.920 ,1/2" IP
 Occupy: Pt 15 N 1154980.4393 E 388397.4230, Elv 100.0000, POL 11-12
 Backsight: 15-8, BS azm 0.0000, BS cir 0.0000
 Side shot : 15-307 Ang-Rt 196.2314 Zen 90.5024 SlpD 32.150 ,EP
 Side shot : 15-308 Ang-Rt 221.2450 Zen 91.1414 SlpD 28.740 ,EP
 Side shot : 15-309 Ang-Rt 237.2848 Zen 90.4953 SlpD 35.590 ,EP
 Side shot : 15-310 Ang-Rt 249.3330 Zen 89.5812 SlpD 159.120 ,EP
 Side shot : 15-311 Ang-Rt 251.0640 Zen 89.5640 SlpD 290.270 ,EP
 Side shot : 15-312 Ang-Rt 251.4140 Zen 89.5806 SlpD 423.730 ,EP
 Side shot : 15-313 Ang-Rt 252.0100 Zen 89.9556 SlpD 549.240 ,EP
 Side shot : 15-314 Ang-Rt 252.1732 Zen 90.1428 SlpD 759.200 ,EP
 Side shot : 15-315 Ang-Rt 253.4759 Zen 90.1440 SlpD 758.940 ,EP
 Side shot : 15-316 Ang-Rt 253.5818 Zen 90.0212 SlpD 612.160 ,EP
 Side shot : 15-317 Ang-Rt 254.1350 Zen 89.5818 SlpD 489.480 ,EP
 Side shot : 15-318 Ang-Rt 254.4402 Zen 89.5754 SlpD 346.910 ,EP
 Side shot : 15-319 Ang-Rt 255.4726 Zen 89.5618 SlpD 216.060 ,EP
 Side shot : 15-320 Ang-Rt 266.2833 Zen 90.3350 SlpD 46.110 ,EP
 Side shot : 15-321 Ang-Rt 283.2545 Zen 91.2903 SlpD 29.210 ,EP
 Side shot : 15-322 Ang-Rt 321.5706 Zen 92.0000 SlpD 24.910 ,EP
 Side shot : 15-323 Ang-Rt 341.3350 Zen 91.3350 SlpD 32.160 ,EP
 Side shot : 15-324 Ang-Rt 210.1908 Zen 93.2337 SlpD 39.520 ,N. INV. 12" CMP
 Side shot : 15-325 Ang-Rt 216.1635 Zen 91.5441 SlpD 33.220 ,CB
 Side shot : 15-326 Ang-Rt 248.3808 Zen 90.1130 SlpD 209.520 ,YARD DRAIN
 Side shot : 15-327 Ang-Rt 249.3524 Zen 90.0550 SlpD 339.160 ,YARD DRAIN
 Side shot : 15-328 Ang-Rt 250.1705 Zen 90.0350 SlpD 436.110 ,YARD DRAIN

Side shot : 15-330 Ang-Rt 250.5144 Zen 90.0665 SlpD 540.580 YARD DRAIN
 Side shot : 15-331 Ang-Rt 251.2006 Zen 90.1125 SlpD 637.640 YARD DRAIN
 Side shot : 15-332 Ang-Rt 251.3654 Zen 90.2106 SlpD 740.150 YARD DRAIN
 Side shot : 15-333 Ang-Rt 254.3100 Zen 90.1533 SlpD 730.050 YARD DRAIN
 Side shot : 15-334 Ang-Rt 254.4406 Zen 90.0142 SlpD 628.860 YARD DRAIN
 Side shot : 15-335 Ang-Rt 254.5900 Zen 90.0341 SlpD 538.940 YARD DRAIN
 Side shot : 15-336 Ang-Rt 255.1244 Zen 90.0206 SlpD 465.690 YARD DRAIN
 Side shot : 15-337 Ang-Rt 255.3006 Zen 90.0003 SlpD 423.800 YARD DRAIN
 Side shot : 15-338 Ang-Rt 256.1026 Zen 90.0320 SlpD 324.980 NW CB
 Side shot : 15-339 Ang-Rt 265.5633 Zen 90.1106 SlpD 271.780 YARD DRAIN
 Side shot : 15-340 Ang-Rt 257.3312 Zen 90.1400 SlpD 230.090 YARD DRAIN
 Side shot : 15-341 Ang-Rt 260.1712 Zen 90.2514 SlpD 162.530 YARD DRAIN
 Side shot : 15-342 Ang-Rt 307.5514 Zen 93.1103 SlpD 27.410 NW CB
 Side shot : 15-343 Ang-Rt 248.5614 Zen 90.0406 SlpD 308.030 SAN MH
 Side shot : 15-344 Ang-Rt 250.5252 Zen 90.0515 SlpD 590.000 SAN MH
 Side shot : 15-345 Ang-Rt 254.3325 Zen 90.0203 SlpD 582.360 SAN MH
 Side shot : 15-346 Ang-Rt 256.0203 Zen 90.0000 SlpD 289.570 SAN MH

Occupy:Pt 16 N 1154681.9950 E 388334.9604, Elv 0.0000, PK 6

Backsight:16-5, BS azm 0.0000, BS cir 0.0000

Side shot : 16-347 Ang-Rt 359.4648 Zen 89.3724 SlpD 289.100 ,EP
 Side shot : 16-348 Ang-Rt 359.3354 Zen 89.3148 SlpD 173.670 ,EP
 Side shot : 16-349 Ang-Rt 357.4843 Zen 90.0130 SlpD 46.860 ,EP
 Side shot : 16-350 Ang-Rt 181.4448 Zen 91.3624 SlpD 81.060 ,EP
 Side shot : 16-351 Ang-Rt 180.4728 Zen 91.0000 SlpD 208.070 ,EP
 Side shot : 16-352 Ang-Rt 180.4608 Zen 90.5006 SlpD 314.700 ,EP
 Side shot : 16-353 Ang-Rt 182.0850 Zen 90.5106 SlpD 325.380 ,EP
 Side shot : 16-354 Ang-Rt 184.2030 Zen 90.5018 SlpD 335.180 ,EP
 Side shot : 16-355 Ang-Rt 173.2624 Zen 90.5058 SlpD 355.390 ,EP
 Side shot : 16-356 Ang-Rt 175.3756 Zen 90.5238 SlpD 341.080 ,EP
 Side shot : 16-357 Ang-Rt 176.5338 Zen 90.5848 SlpD 320.220 ,EP
 Side shot : 16-358 Ang-Rt 174.4954 Zen 91.0408 SlpD 189.810 ,EP
 Side shot : 16-359 Ang-Rt 161.3552 Zen 91.4554 SlpD 55.970 ,EP
 Side shot : 16-360 Ang-Rt 8.0824 Zen 89.3418 SlpD 132.380 ,EP
 Side shot : 16-361 Ang-Rt 3.3808 Zen 89.3848 SlpD 297.980 ,EP
 Side shot : 16-362 Ang-Rt 7.1342 Zen 89.5612 SlpD 203.030 YARD DRAIN
 Side shot : 16-363 Ang-Rt 15.3620 Zen 90.4624 SlpD 91.550 YARD DRAIN
 Side shot : 16-364 Ang-Rt 126.0228 Zen 95.3858 SlpD 30.020 YARD DRAIN
 Side shot : 16-365 Ang-Rt 164.1330 Zen 92.3530 SlpD 87.020 YARD DRAIN
 Side shot : 16-366 Ang-Rt 169.0432 Zen 91.4920 SlpD 126.600 YARD DRAIN
 Side shot : 16-367 Ang-Rt 175.1355 Zen 90.5703 SlpD 340.510 NE CB
 Side shot : 16-368 Ang-Rt 184.5614 Zen 91.1250 SlpD 325.220 N. INV. 12" CMP
 Side shot : 16-369 Ang-Rt 189.2933 Zen 90.5535 SlpD 325.740 NE CB
 Side shot : 16-370 Ang-Rt 183.0257 Zen 91.0148 SlpD 306.160 YARD DRAIN
 Side shot : 16-371 Ang-Rt 184.3300 Zen 91.3453 SlpD 147.520 YARD DRAIN
 Side shot : 16-372 Ang-Rt 193.4057 Zen 93.0000 SlpD 55.340 YARD DRAIN
 Side shot : 16-373 Ang-Rt 252.2218 Zen 99.1718 SlpD 13.170 YARD DRAIN
 Side shot : 16-374 Ang-Rt 350.4620 Zen 90.5045 SlpD 71.380 YARD DRAIN
 Side shot : 16-375 Ang-Rt 356.1736 Zen 89.5856 SlpD 184.100 YARD DRAIN
 Side shot : 16-376 Ang-Rt 165.1216 Zen 91.5307 SlpD 80.410 SAN MH
 Side shot : 16-377 Ang-Rt 188.2131 Zen 92.0112 SlpD 76.170 SAN MH
 Side shot : 16-378 Ang-Rt 7.4146 Zen 89.5106 SlpD 297.780 ,IP
 Side shot : 16-379 Ang-Rt 266.3236 Zen 93.5633 SlpD 27.010 ,IP

Occupy:Pt 3 N 1154504.9400 E 389617.9300, Elv 0.0000, SCOTT

Backsight:3-8, BS azm 0.0000, BS cir 0.0000

Side shot : 3-380 Ang-Rt 23.1254 Zen 90.0000 SlpD 197.330 ,PK @ EDG.CANNAL
 Side shot : 3-381 Ang-Rt 319.4609 Zen 90.1124 SlpD 254.580 ,PK @ EDG.CANNAL
 Side shot : 3-382 Ang-Rt 37.3336 Zen 89.5659 SlpD 235.120 ,TB 8
 Side shot : 3-383 Ang-Rt 25.0700 Zen 90.0412 SlpD 216.470 ,EDG. ASPH DP
 Side shot : 3-384 Ang-Rt 37.4442 Zen 89.4036 SlpD 239.290 ,EDG. ASPH DP

Side shot : 3-386 Ang-Rt 30.4050 Zen 90.0353 SlpD 249.100 .BEG. ASPH CP
 Side shot : 3-387 Ang-Rt 4.5748 Zen 90.0854 SlpD 542.060 .EP
 Side shot : 3-388 Ang-Rt 87.3256 Zen 88.4520 SlpD 107.330 .EP
 Side shot : 3-389 Ang-Rt 87.4529 Zen 88.2626 SlpD 85.320 .EP
 Side shot : 3-390 Ang-Rt 2.4214 Zen 90.2935 SlpD 535.600 .EP
 Occupy:Pt 12 N 1155634.1180 E 389416.4610, Elv 0.0000, POL 8
 Backsight:12-6, BS azm 0.0000, BS cir 0.0000
 Side shot : 12-392 Ang-Rt 287.2706 Zen 90.1518 SlpD 375.160 .CL DTCH
 Side shot : 12-393 Ang-Rt 298.1720 Zen 90.2654 SlpD 306.730 .CL DTCH
 Side shot : 12-394 Ang-Rt 317.4250 Zen 90.3949 SlpD 250.410 .CL DTCH
 Side shot : 12-395 Ang-Rt 350.1230 Zen 90.3732 SlpD 239.420 .TOP 12"CMF
 Occupy:Pt 171 N 1155507.2100 E 389245.8900, Elv 0.0000, CANNAL PK
 Backsight:171-12, BS azm 0.0000, BS cir 0.0000
 Side shot : 171-397 Ang-Rt 134.4429 Zen 88.5214 SlpD 118.530 .HSE 1144
 Side shot : 171-398 Ang-Rt 101.4644 Zen 86.5144 SlpD 113.010 .HSE 1144
 Side shot : 171-399 Ang-Rt 134.2154 Zen 89.5903 SlpD 64.850 .PK
 Side shot : 171-400 Ang-Rt 305.5843 Zen 90.4530 SlpD 102.180 .HSE 1143
 Side shot : 171-401 Ang-Rt 269.5840 Zen 89.3244 SlpD 101.200 .HSE 1143
 Side shot : 171-402 Ang-Rt 282.5400 Zen 91.0112 SlpD 93.360 .HSE 1143
 Occupy:Pt 7 N 1156032.2657 E 389149.0710, Elv 100.0000, POL 9-10
 Backsight:7-6, BS azm 0.0000, BS cir 0.0000
 Side shot : 7-403 Ang-Rt 272.5624 Zen 88.4906 SlpD 125.260 .HSE 1141
 Side shot : 7-404 Ang-Rt 269.3905 Zen 88.2448 SlpD 99.060 .HSE 1141
 Side shot : 7-405 Ang-Rt 243.2000 Zen 90.0707 SlpD 120.920 .HSE 1141
 Side shot : 7-406 Ang-Rt 148.3203 Zen 88.5119 SlpD 163.760 .HSE 1140
 Side shot : 7-407 Ang-Rt 128.5454 Zen 88.1238 SlpD 129.300 .HSE 1140
 Side shot : 7-408 Ang-Rt 123.4942 Zen 89.0954 SlpD 161.100 .HSE 1140
 Side shot : 7-409 Ang-Rt 116.5312 Zen 88.4347 SlpD 102.070 .HSE 1146
 Side shot : 7-410 Ang-Rt 114.5116 Zen 86.0326 SlpD 124.200 .HSE 1146
 Occupy:Pt 121 N 1154980.5920 E 389336.5200, Elv 0.0000, CANNAL PK
 Backsight:121-4, BS azm 0.0000, BS cir 0.0000
 Side shot : 121-411 Ang-Rt 12.2203 Zen 90.5818 SlpD 64.750 .PK
 Side shot : 121-412 Ang-Rt 118.3324 Zen 90.0000 SlpD 119.630 .HSE 1176
 Side shot : 121-413 Ang-Rt 116.3020 Zen 90.0754 SlpD 95.760 .HSE 1176
 Side shot : 121-414 Ang-Rt 94.5226 Zen 90.2535 SlpD 69.310 .HSE 1176
 Side shot : 121-415 Ang-Rt 84.4636 Zen 90.1722 SlpD 79.480 .HSE 1176
 Side shot : 121-416 Ang-Rt 76.3933 Zen 90.2325 SlpD 98.670 .HSE 1176
 Side shot : 121-417 Ang-Rt 336.5547 Zen 88.2826 SlpD 157.270 .HSE 1179
 Side shot : 121-418 Ang-Rt 322.1821 Zen 91.4944 SlpD 140.160 .HSE 1179
 Side shot : 121-419 Ang-Rt 318.2842 Zen 90.5406 SlpD 168.910 .HSE 1179
 Occupy:Pt 10 N 1154729.5460 E 389491.8500, Elv 0.0000, POL MONT 5
 Backsight:10-4, BS azm 0.0000, BS cir 0.0000
 Side shot : 10-420 Ang-Rt 326.1406 Zen 90.0800 SlpD 165.680 .TB 10
 Side shot : 10-421 Ang-Rt 279.0559 Zen 90.0737 SlpD 146.390 .TB 9
 Side shot : 10-422 Ang-Rt 257.2537 Zen 90.3828 SlpD 185.550 .HSE 1169
 Side shot : 10-423 Ang-Rt 245.1602 Zen 91.1512 SlpD 140.120 .HSE 1169
 Occupy:Pt 381 N 1154296.5720 E 389520.9700, Elv 0.0000, CANNAL PK
 Backsight:381-3, BS azm 0.0000, BS cir 0.0000
 Side shot : 381-424 Ang-Rt 341.1303 Zen 90.0136 SlpD 293.380 .CL DTCH
 Side shot : 381-425 Ang-Rt 351.4637 Zen 90.3806 SlpD 121.540 .CL DTCH
 Side shot : 381-426 Ang-Rt 139.2700 Zen 92.0414 SlpD 149.240 .E.INV.12"CMF
 Side shot : 381-427 Ang-Rt 141.0844 Zen 91.2950 SlpD 169.300 .TOP 12"CMF
 Side shot : 381-428 Ang-Rt 146.3607 Zen 91.2430 SlpD 299.720 .CL DTCH
 Side shot : 381-429 Ang-Rt 154.5015 Zen 91.2506 SlpD 295.990 .CL DTCH
 Side shot : 381-430 Ang-Rt 154.5707 Zen 91.1850 SlpD 269.130 .TOP 12"CMF
 Side shot : 381-431 Ang-Rt 156.3126 Zen 91.2703 SlpD 120.390 .YARD DRAIN
 Side shot : 381-432 Ang-Rt 327.1954 Zen 91.1326 SlpD 49.310 .TOP 12"CMF
 Side shot : 381-433 Ang-Rt 331.1402 Zen 89.5957 SlpD 127.290 .TOP 12"CMF
 Side shot : 381-434 Ang-Rt 231.3523 Zen 89.5424 SlpD 147.200 .TOP 12"CMF

Side shot	:	381-437	Ang-Pt	233.4106	Zen	39.6215	SlpD	66.060	E.EDG. CANVAL PH
Side shot	:	381-438	Ang-Pt	279.0450	Zen	92.0310	SlpD	13.230	6NA MH
Side shot	:	381-439	Ang-Pt	272.5212	Zen	38.0036	SlpD	107.090	HSE 1169
Side shot	:	381-440	Ang-Pt	300.2343	Zen	39.0707	SlpD	126.770	HSE 1169

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY, NATIONAL GEODETIC SURVEY

QUAD 430783 STATION 1122
MY
LATITUDE 43° 00' TO 43° 30'
LONGITUDE 78° 30' TO 79° 00'
DIAGRAM MK 17-3 TORONTO

ADJUSTED HORIZONTAL CONTROL DATA ADJUSTMENT BY NGS

FIRST
CSG BY MCS

1972

NEW YORK, NEW YORK

6-15768

GEODETIC LATITUDE: 43 09 42.6550	ELEVATION: 202.7 METER
GEODETIC LONGITUDE: 76 55 00.0526	665 FEET

17A78 2009014A140 (Kxx)

Station is about 3 miles southeast of the city of Lewiston, 3 miles east of the Niagara River, 2 1/2 miles northeast of the junction of State Highways 31 and 255 in the northeast edge of Niagara Falls, 1 1/4 miles south of U.S. Highway 104, on the dyke in the northeast corner of land on property owned by the New York Power Authority Reservoir.

To reach the station from the junction of State Highways 31 and 265 (Saunders Settlement Road and Military Road) in the northeast edge of Niagara Falls, go northwest on highway 265 for 0.75 mile to a cross road. Turn right for about 150 feet then left and go northerly for 0.5 mile to a gravelled road on the right leading to top of dyke. Turn right and go northerly uphill for 0.2 mile to top of dyke. Turn sharp right and follow road along top of dyke easterly and northerly for 2.95 miles to reference mark 3 on the right as described. Continue northwest on dyke road for 0.95 mile to the northeast corner of the reservoir and station as described.

station, a round concrete post, stamped POWER 1972, is a standard disk set in a round concrete post, flush with the ground. It is 22 feet north of center of the dyke road 4.5 feet south of a metal witness post and 4 feet north of the north edge of the road.

In a Reference mark 1 stamped POWER NO 1 1972, is a standard disk set in a round concrete post flush with the ground. It is 44.5 feet south-east of the metal witness post at the station, 19.5 feet east of center of the dyke road and 7 feet east of the east edge of the road.

Reference mark 2, stamped POWER NO 2 1977, is a standard disk set in a round concrete post flush with the ground. It is 80.5 feet west of the metal witness post at the station, 21 feet north of center of the dyke road and 9 feet north of the north edge of the road.

Reference mark 3, stamped POWER NO 3 1977, is a standard disk set in a round concrete post flush with the ground. It is 17 feet northwest of center of the dyke and 4.3 feet southwest of a metal witness post.

RECOVER NOTE. TRIANGULATION STATION
Quad: 430783

NAME OF STATION: **FOSTER** STATE: **NEW YORK** BENCH MARK: **ALPO** ☐
 ESTABLISHED IN: **1972** COUNTY: **Niagara**
 RECOVERED BY: **H.D. Sveum** YEAR: **1974**
 DISTANCE AND DIRECTION FROM NEAREST TOWN: **At the Northeast edge of Niagara Falls**

Detailed statements on the forms of the material descriptions, including such as found, earnings, changes made, and other pertinent facts:

The station mark, Azimuth mark, reference mark 1 and reference mark 2 were recovered in good condition as described in the 1972 description.

The to reach and description to station is adequate.

The to reach and description to station is as follows:
Obtain permission before entering the station from Mr. Eugene L. Gochneuer, resident manager of the Niagara Project of Power Authority of the state of New York, 5777 Lewiston Road, Lewiston, New York.
Telephone (716) 285-1211.

THESE DATA ARE OBTAINED FROM ADJUSTMENT OF 1976

549 PM

HORIZONTAL CONTROL DATA

by the
National Ocean Survey
NORTH AMERICAN 1983 DATUM

QUAD 430783 STATION 1141
LATITUDE 43° 00' TO 43° 30'
LONGITUDE 78° 30' TO 79° 00'
DIAGRAM NK 17-3 TORONTO

DESCRIPTION OF TRIANGULATION STATION

NAME OF STATION: SCOTT STATE: New York COUNTY: Niagara

NOTE	CHIEF OF PARTY	YEAR	REMARKS	REMARKS	REMARKS
1a	V.S. Randall	1958	27	REMARKS	REMARKS
1b	Reference mark No. 1				
1c	Reference mark No. 2				
1d	Reference mark No. 3				

The station is approximately 7.0 miles south-southeast of where the Niagara River empties into Lake Ontario, 5.0 miles north-northeast of Niagara Falls and 2.0 miles southeast of Lewiston, and on property owned by Mr. Scott.

To reach from the junction of State Highways 180 and 265 (Military Road) about 6.0 miles east of Niagara Falls, (locally known as six corners) go northwest on State Highway 265 for 1.7 miles to junction of State Highway 11, keep straight ahead for 1.9 miles to crossroad, turn right and go northeast on Upper Mountain Road for 1.9 miles to wire gate on right and the beginning of the Tuscarora Indian Reservation, turn right through wire gate thence right through second wire gate for 0.05 mile to station.

Station marks are standard disks stamped SCOTT 1958. The surface disk is set in a square concrete post 7 inches below the surface of the ground. It is 98 feet south of center Upper Mountain Road, 90 feet north of south fence corner, 85 feet north-southeast of north fence corner and 13 feet west of north and south fence line. The underground disk is set in an irregular mass of concrete 32 inches below the surface of ground.

Reference mark No. 1, a standard disk stamped SCOTT NO 1 1958, is set in a square concrete post which projects 3 inches. It is 26 feet south of center Upper Mountain Road and 1 foot south of fence.

Reference mark No. 2, a standard disk stamped SCOTT NO 2 1958, is set in a square concrete post which projects 3 inches. It is 26 feet south of center Upper Mountain Road and 1 foot south of fence. A standard witness post was set 1 foot north-northeast of the mark.

Arithmetic mark, standard disk stamped SCOTT 1958, is set in a square concrete post which projects 3 inches. It is 13 feet northwest of center Upper Mountain Road, 20 feet north-northeast of northwest and of concrete mulvert and 2 feet southwest of a telephone pole. A standard witness post was set 1 foot northwest of the mark.

To reach the arithmetic mark from the station go north-northeast through wire gate thence left through second wire gate for 0.05 mile, turn right on Upper Mountain Road and go 0.3 miles to arithmetic mark on left.

These data obtained from adjustment of FEB 1976

ADJUSTED HORIZONTAL CONTROL DATA

NAME OF STATION: SCOTT
STATE: NEW YORK
YEAR: 1958
QUAD: 430783
STATION: 1141
SECOND ORDER

SCOTT

NEW YORK

1958

430783

1141

SECOND

ORDER

SCOTT	43 10 04.25374	78 59 49.50255	193.2	634	FEET

STATE & ZONE	CODE	STATE COORDINATES (FEET)	PLANE ANGLE (FROM MARK)	CODE
NY N	3103	309+017.93	1-154+504.94	- 0 10 59

* PLANE ANGLE HAS BEEN COMPUTED BY THE $\phi = 100 \Delta$ + 1 FORMULA REFLECTING THE SECOND TERM.

STATION OR OBJECT	GEODETIC AZIMUTH (FROM MARK)	PLANE ANGLE (FROM MARK)	CODE
SCOTT AZ NK	235° 04' 51.94	235° 21' 51"	3103

UH 548

* Station is marked by monument of triangulation station and also by monument of triangulation station, referred to initial station.
175 standard marker used, when no triangulation station is being used.

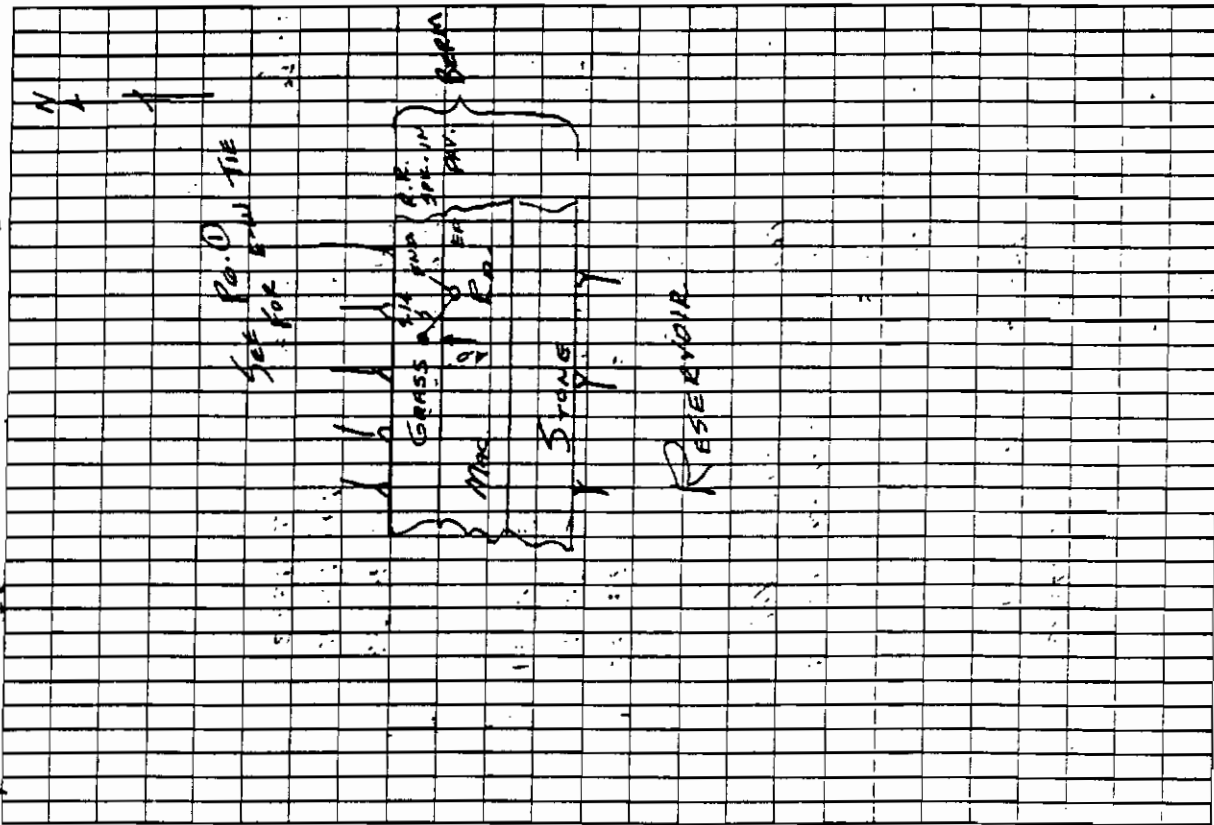
(Continued on next page)

TIME
2 TR
2 MS

Sunny
600

5/7/92	STUFFER	Chem.	Site	15
		BASELINE	TRAIL	
	TP ②	BS	Mon.	POWER ①
FS	272-28-35			37
BS	0-00-00			179-59-53
*	272-28-35			272-28-37
AVG.	272-28-36			
FS	318-07-52			198-07-39
BS	45-39-18			225-39-07
*	272-28-34			272-28-32
AVG.	272-28-33			
BS ①	VERT. \$		FT.	M.
	90-01-15		3376.380	1022.125
	269-58-33			
*	90-01-21			224
FS	VERT. \$		FT.	M.
	90-39-16		2756.335	840.132
	269-20-33			
*	90-39-22			212.125

Avg. 272-28-34.5



④ Sunny 60°

TIME
DATE
PMS

5/7/92	STUFFEE CHEM.	- SITE 15
	BASLINE	TRAV.
T @ Mon. Scott's	BS.	IP @
F.O.I. FS PK(5)	157-18-23	337-18-21
BS	0-00-00	179-59-48
X	157-18-23	157-18-33
AVG.	156-18-28	
FS	203-14-30	23-14-09
BS	45-55-57	225-55-19
X	157-18-33	157-18-20
AVG	157-18-26.5	
BS (5)	VERT. X	FT. M.
	89-21-36	2756.325840.129
	270-38-00	
X	89-21-48	2756.150
FS (5)	VERT. X	FT. M.
	89-55-57	570.605 173.920
	270-03-58	
X	89-56-00	270.60

50° Sunny ⑤

TR
ME
MS

	STUFFER	CHEM.	SITE 15
	BASLINE TRAY.		
X @ Mon. ③	B3	IP ②	
PK FS (4)	69-15-00	299 -14-48 ⁷³	
B3	0-00-00	179-59-53	
*	69-15-00	69-14-55	
AVG	69-14-57.5		Avg. 69-14-56
FS	114-17-31	294-17-25	
B3	45-02-36	225-02-32	
*	69-14-55	69-14-53	
AVG.	69-14-54		
FS (4)	VERT *	Ft.	M.
	90-30-31	727.875	221.857
	269-29-17	.	
*	90-30-37	.	

5/1/92 STUFFER Chem. Site 15

BASALINE TAN.

PK
FS ⑥ 86-50-27 244-50-13

BS 0-00-00 179-59-53

* 86-50-27 86-50-20

AVG. 86-50-23.5

FS 131-42-51 311-52-39

BS 45-02-22 225-02-18

* 86-50-29 86-50-21

AVG. 86-50-25

AVG. 86-50-24

BS ③ VERT. * FT. M.

90-09-31 570.605 173.921

269-50-18

* 90-09-36 51.6

FS ⑥ VERT. * FT. M.

90-06-00 596.995 181.965

269-53-54

350 59-54

TIME
SITE
9 MS

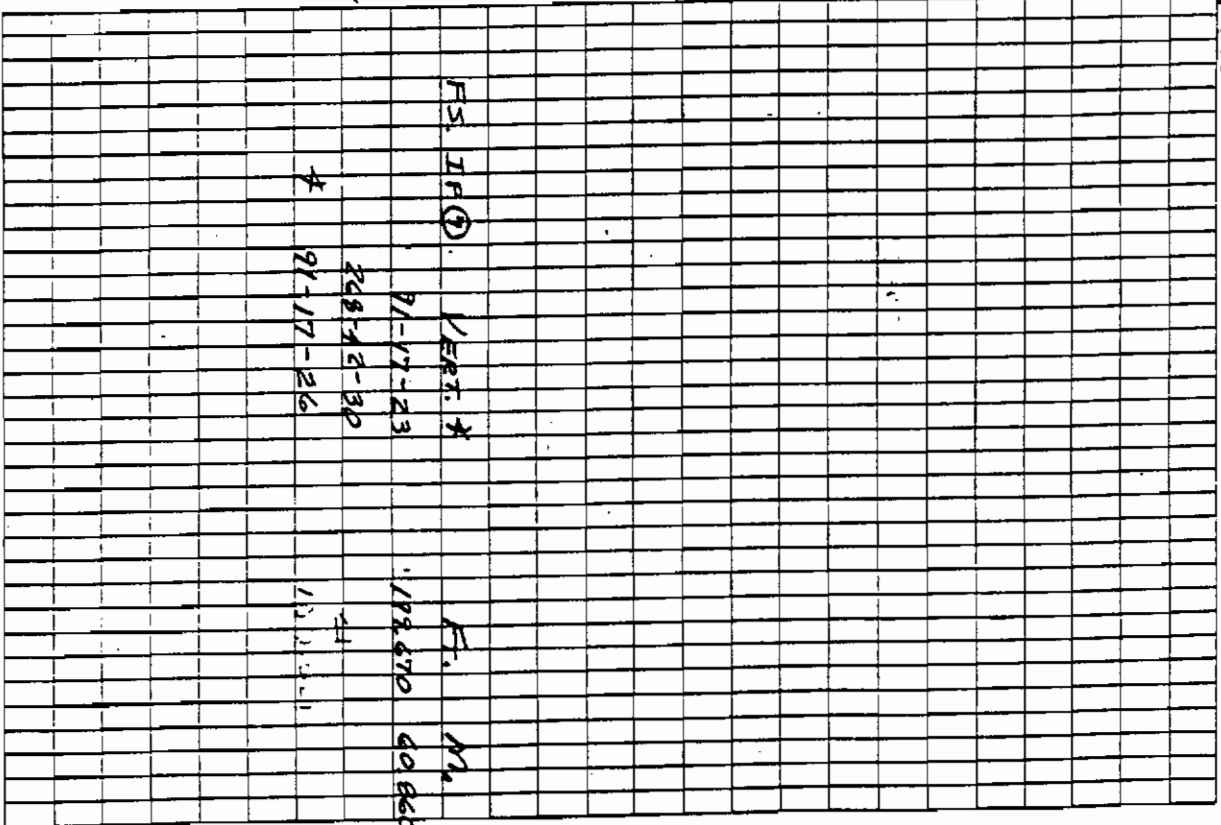
Sunny
60°

FS. INFO. VERT. * FT. M.

91-17-23 198.670 40.660

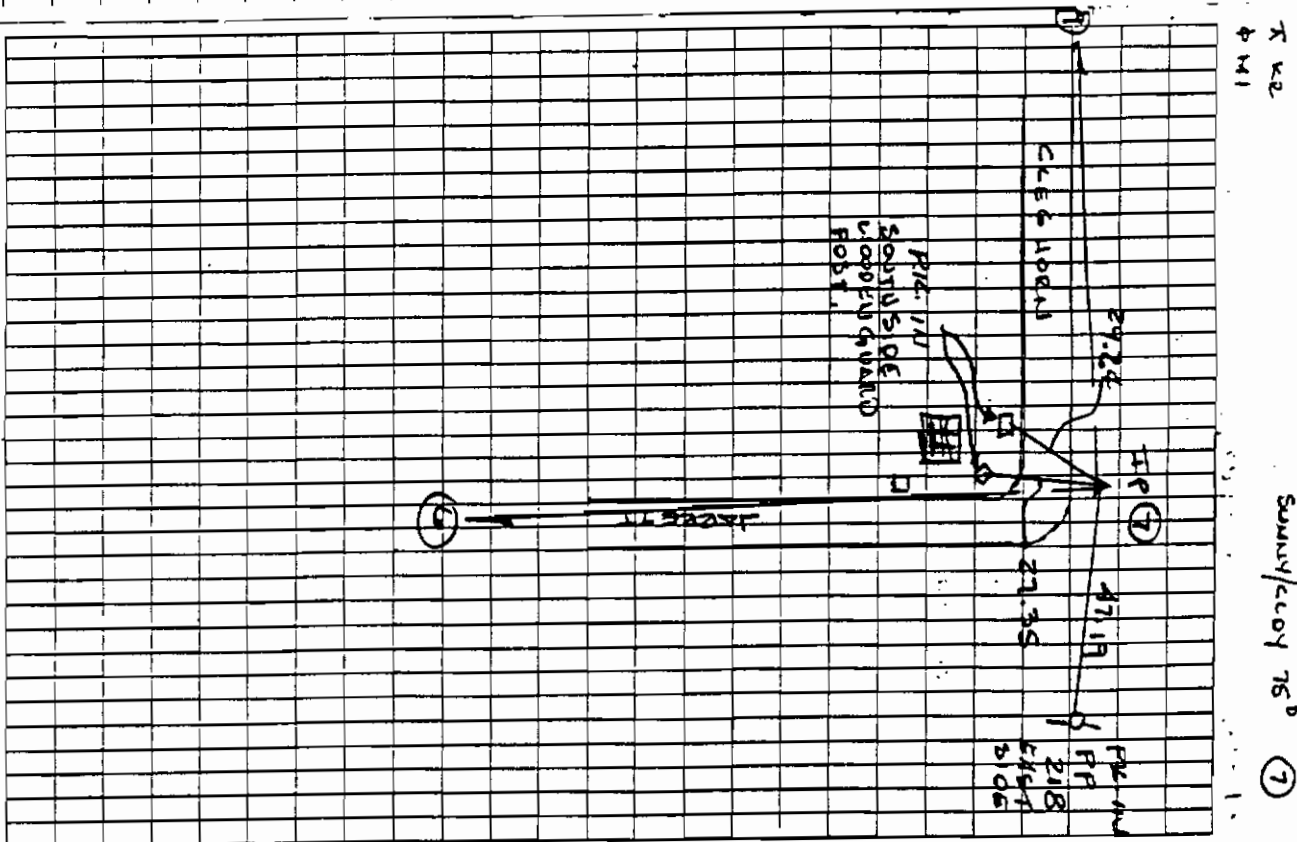
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* 91-17-26 122.2-1



5/13/92	STAFFED CEM.	SITE 15
	BASELINE TRAIL	
	X @ (7) 85. (6)	
FS (7)	112-40-00	292-39-36
B.S.	00-00-00	179-59-42
+	112-40-00	112-39-54
Avs.	112-39-57	
FS.	202-40-12	22-39-54
BS	90-00-00	269-59-48
+	112-40-12	112-40-06
Avs.	112-40-07	
BS (6)	VERT +	FT. M
	89-47-54	796.620 242.810
	270-11-48	
	51 42	
+	89-48-03	716.616
FS (9)	VERT +	FT. M
	90-31-12	1051.715 320.564
	269-28-33	
	51 45	
	90-31-19-5	

112-40-03
AVG



5/13/92

STAFFED

CHEM -

SITE 15

BASELINE TRAV

T 8 (7) FS.

(9) TO POL

(8)

VOL. (8)

NEED

FR

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90.55.12.3"

532.330.

162.25.1

59.01.5.1

-1

100.01.0.6

532.26.1

90.55.09

K E12
4 M1

SUMM/400/70°

(8)

5/13/92

STAUFFEL CLEM - SITE 15

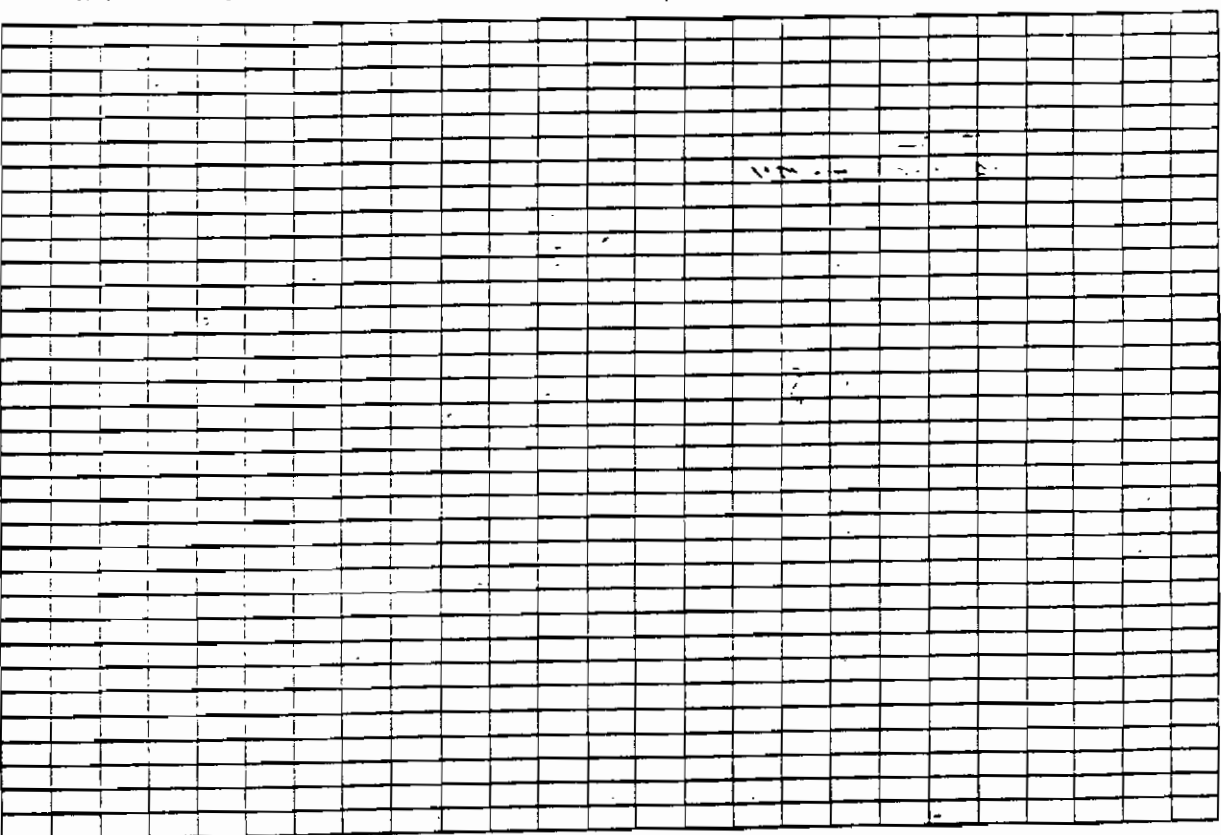
BASING TALLY.

	TR ① (11)	BS. (9)		
FS. (12)	107.01.00	287.01.00		
BS.	00.00.00	180.00.00		
+	107.01.00	107.01.00		
AVG.	107-01-00			
FS.	197.00.48	17.00.33		
BS.	90.00.00	769.59.36		
+	107.00.48	107-00-57		
AVG.	107-00-52.5			
BS. (9)	VERT +	FT.	M	
	90.29.18	1261.925	384.636	
	769.30.30			
+	90-29-24	1261.883		
FS. (12)	VERT +	FT.	M	
	90.18.29	1513.060	46.181	
	769.41.54			
+	90.18.15	1513.040		

AVG + 107-00-56.25

TR 14
4 M

SUNNY/40% 70°



5/13/92

BASELINE

TRAIN

22

Summation 70°

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5/13/92	BASELINE	TRAV	
Mon. FS. Scott	K @ (12) 85. (11)		
85.	78.00 36	258.00 30	
+	00.00.00 78 00 36	180.00.00 - 78 00 36	
AvG.	78-00-36		
FS.	168.00.42	348.00.42	
85	90.00.00	210.00.00	
+	78.00.42	78.00.42	
AvG	78-00-42		
85 (11)	VERT 4	FT.	M.
D	89.43.12	1518.080	461.173
e	210.17.12		
+	00.24 89.43.07	1513.016	
Mon. FS. Scott	VERT 4	FT.	M.
D	89.27.42	1019.185	367.419
2	210.32.09		
+	00.51 89.27.46.5	1024.142	

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20-20-01-

570.60	17373

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35-15-107

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90-02-7.4

570.636

24.2/CCD 80' 19

STAFFORD CHEMICAL

1000

65° cloudy

19

V _A	S _D	H _A	Rod
89-41-36	286.94	242-16-08	4.75
89-24-33	387.68	243-42-33	
89-45-20	218.26	251-13-32	
89-36-03	228.53	241-11-43	
90-30-50	124.93	252-51-36	
91-28-20	37.37	266-48-01	
91-02-20	33.80	280-51-50	
98-39-00	19.06	141-00-24	
91-19-00	171.95	3-52-33	4.75
$\pi @ 9$	BS		
89-30-54	1261.96	0-00-00	4.99
89-38-54	788.22	292-36-14	4.75
89-53-48	519.45	242-36-14	
90-01-28	279.18	292-18-24	
90-06-54	148.90	292-09-07	
91-06-54	6.06	285-54-06	
92-00-00	9.89	15-37-03	
90-01-02	135.26	1-29-42	
89-51-32	264.80	0-43-50	
89-50-29	402.94	0-25-47	
89-52-23	564.86	0-16-05	4.75

Break

Yard Drain $\downarrow$ 1.23 'E+W'
" " $\downarrow$.34 " "
Sant m.H
" "
Yard Drain $\downarrow$ 1.71 'E+W'
M-U cor CB; $\downarrow$ 2.14'S $\downarrow$ 12'cm; $\downarrow$ 2.00'W 12'cm
Sant m.H
Q ditch 2' wide
" "
Note: PK & Q Intersection of EP's
BS 10
P.O.L. # 7-8
P.O.L. # 8
EP
use line line Intersection for true cor EP
shots

Note: PKTQ @ Intersection of EP's

use line line intersection for time or EP.

STAUFFEL CHEMICAL

KT
P.M.

7-21-92	VX	SD	BS 11	HA	Rod
89-58-24	548.77	357-44-44	4.75		622.18
90-08-08	510.40	357-04-24			620.72
90-07-06	470.63	356-48-03			620.81
90-08-56	430.68	356-31-06			620.43
90-12-36	408.46	356-17-45			
90-10-18	373.76	356-01-42			
90-12-38	324.82	355-12-38			620.74
90-13-42	308.18	355-05-33			620.70
90-15-03	282.61	354-33-36			
90-19-41	251.81	354-06-57	4.75		620.49
90-22-00	156.17	350-34-54	6.00		617.63
91-05-30	131.73	348-57-06	4.75		619.42
91-17-23	112.00	346-39-48			621.41
91-33-14	81.36	341-02-14			
91-26-06	64.13	330-03-50			617.32
90-45-30	61.07	325-55-03			621.12
93-58-54	24.29	260-33-55			610.21
89-53-20	212.01	0-00-00	4.75		
	202.00				

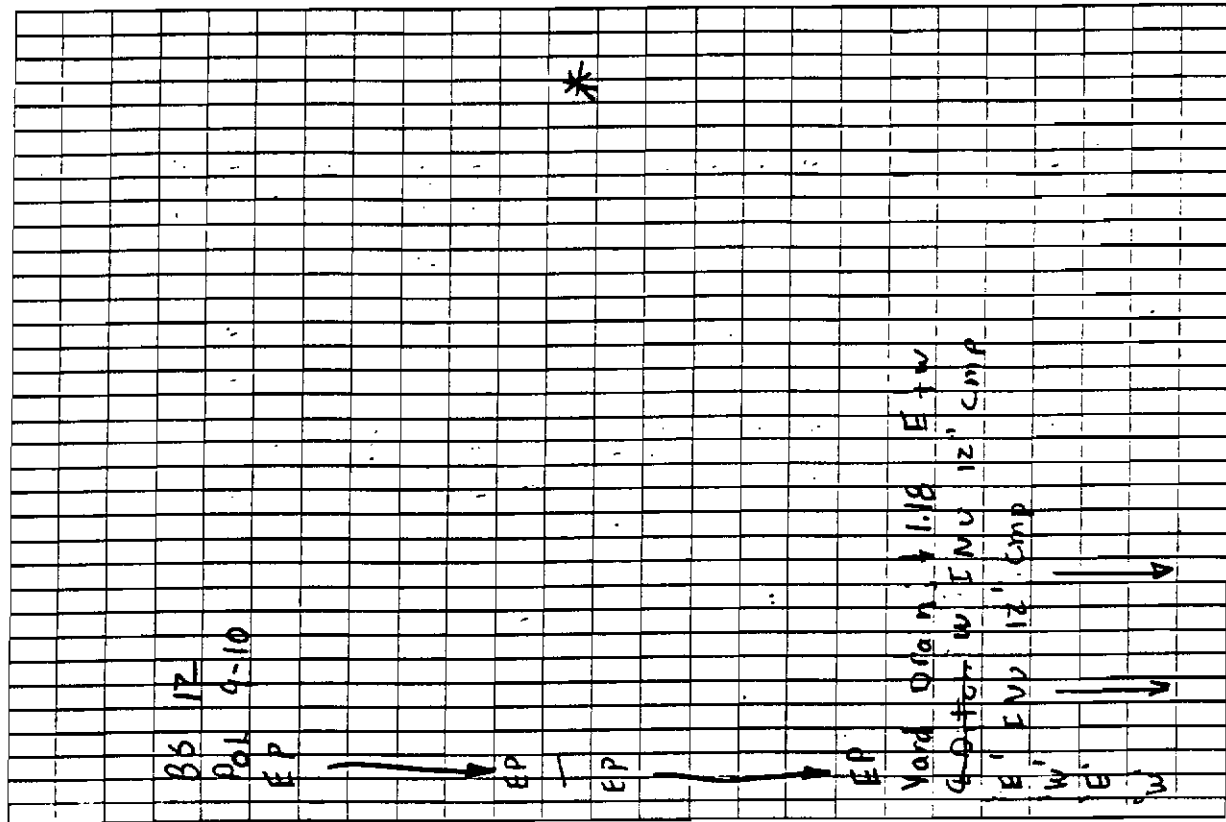
Yard Drain	1.17	W+E	
1'x1'x12" cmp			
4 Ditch 1' wide			
W IAW 12" cmp			
E " " "			
Q Ditch 1' wide			
W IAW 12" cmp			
E " " "			
Q Ditch			
W IAW 12" cmp			
E " " "			
W " " "			
E " " "			
Q Ditch			
Top of Pipe w' end pipe 12" cmp			
N-W cor C.B. 3' SW 150' 3' + 177' W 12" cmp + 12.115 12" cmp			
Top of pipe 12" cmp G.D. 14' + 12.15' E 12" cmp			
Set P.O.L. 9-10			

STAUFFER CHEMICAL

72° sunny Am 23

Kr
AmH

7-22-92	Loc Wells + Topo	
PHI: 5.7	A	A
BS HI: 5.37	A @ 11 BS 12	
	SD	HA
		ROD
	90-17-30	1513.08
		0-00-00
		5.37
	90-34-12	1049.98
		252-59-22
		4.75
	90-47-06	697.19
		252-46-00
	90-50-50	571.67
		252-44-30
	91-03-03	413.22
		252-42-13
	91-15-18	280.36
		252-32-50
	91-24-54	151.12
		252-17-05
	91-33-03	12.63
		81-50-36
	Break	
	90-43-36	37.94
		348-39-06
	91-36-06	27.41
		309-33-09
	92-03-15	37.22
		282-17-30
	91-18-20	212.76
		257-50-18
	91-05-10	388.01
		255-37-50
	90-51-36	552.46
		254-50-13
	90-47-06	696.55
		254-23-40
	90-54-18	615.58
		255-32-03
	91-09-46	514.26
		255-54-19
	91-13-19	457.19
		256-02-00
	91-15-18	440.19
		256-21-36
	91-21-36	394.45
		256-38-30
		4.75



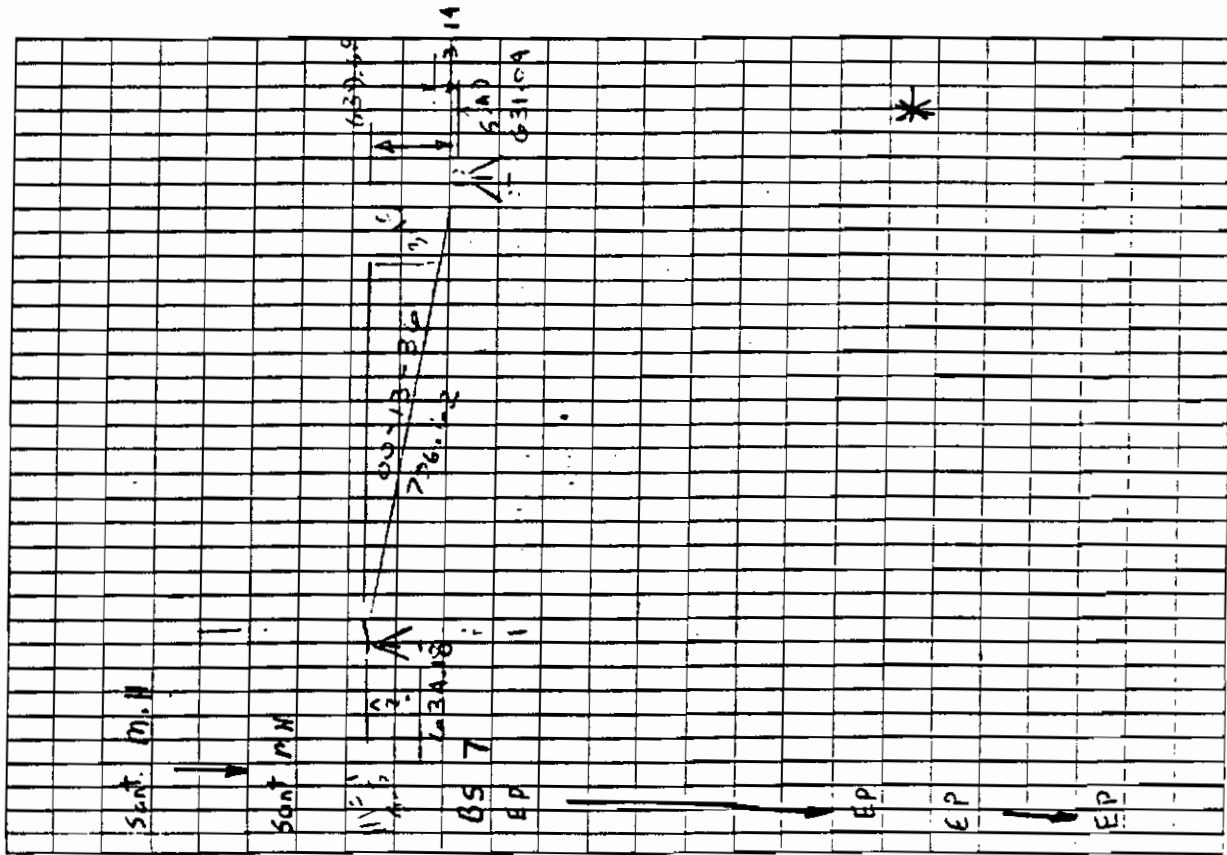
Stauffer chemical

Cloudy 75°

Kr
AmH

27

	VX	Topo	IX	Rqd
7-22-92				
	90-04-06	308.07	248-56-14	4.75
	90-05-15	590.00	250-52-52	↓
	90-02-03	582.36	254-33-25	↓
	90-00-00	298.57	256-02-03	4.75
AmH		116		
BS 11-5,49	AmH	6 BS 7		
	90-13-36	796.62	0-00-00	5.49
	89-37-24	298.10	339-46-48	4.75
	89-31-48	173.67	359-33-54	
	90-01-30	46.86	357-48-43	
	91-36-24	81.60	181-44-48	
	91-00-00	208.07	180-47-28	
	90-50-06	314.70	180-46-08	
	90-51-06	325.38	182-08-50	
	90-50-18	335.18	184-20-30	
	Break			
	90-50-58	355.89	173-26-24	
	90-52-38	341.08	175-37-56	
	90-50-48	320.22	176-53-38	
	91-04-08	189.81	174-49-54	4.75



Stauffer chemical Kr AMH 175° Sunny P.M. 29

7-22-92	top		
PHI=6.52	1/3		
BS HT 5.87	PHI @ mont "scat" BS 12		
	VX SD HA Rod		
	90-29-12 1074.16 0-00	5.87	
	90-00-00 197.33 28-18-54	4.75	
	90-11-24 254.58 19-46-09		
	89-56-59 235.12 37-33-36		633.77
			434.12
	90-04-12 216.47 25-07-00	4.75	
	89-40-36 239.89 37-44-42	5.50	
	89-10-30 256.82 37-43-35	5.50	
	90-03-53 249.10 22-40-50		
	90-28-54 542.06 4-57-48		
	88-45-24 107.38 87-32-46		
	88-26-26 85.32 87-45-49		
	90-29-35 535.60 2-42-14	5.50	
	89-59-06 570.62 88-04-21	4.75	
	89-35-56 257.58 88-04-21	4.75	
	257.573		

BS #12	
PHI @ ED General	
PHI @ ED General	GS TL AG-30
TB #8	
ED Dr Asphalt	
EP	
EP (Break)	
PHI #5	
set P.O.L. #mont-5	5.50

* Note Rod may be wrong. Could be

*

7-22-72

HI: 5.52

BS HI: 4.75

Topo

VA SD

VA	SD	HA	rod
90-15-05	519.46	0-00-00	4.75
90-15-18	375.16	287-27-06	
90-26-54	306.73	298-17-20	
90-39-49	250.41	317-42-50	
90-37-32	239.42	350-12-30	4.75 11

HOUSE LOCATIONS

PK @ E Edge Canal PK on Elliott 858

(171)

90-46-16	212-64	0-00-00	4.75
88-52-14	118.53	134-44-29	
86-51-44	118.01	101-46-44	
89-57-03	64.85	184-21-54	
90-45-30	102.18	305-38-43	
89-32-44	101.20	267-58-40	
91-01-12	93.26	282-54-00	4.75

RA
ARM

BS #9
Q ditch 1' wide
Q ditch
Top of pipe 12" diam w end goes to C.B.
BS 8
HSE # 1144 Front cor on Elliott Dr N-W cor
PK W' ED canal
HSE # 1135 Front cor, S-E cor Elliott
HSE cor @ 7099

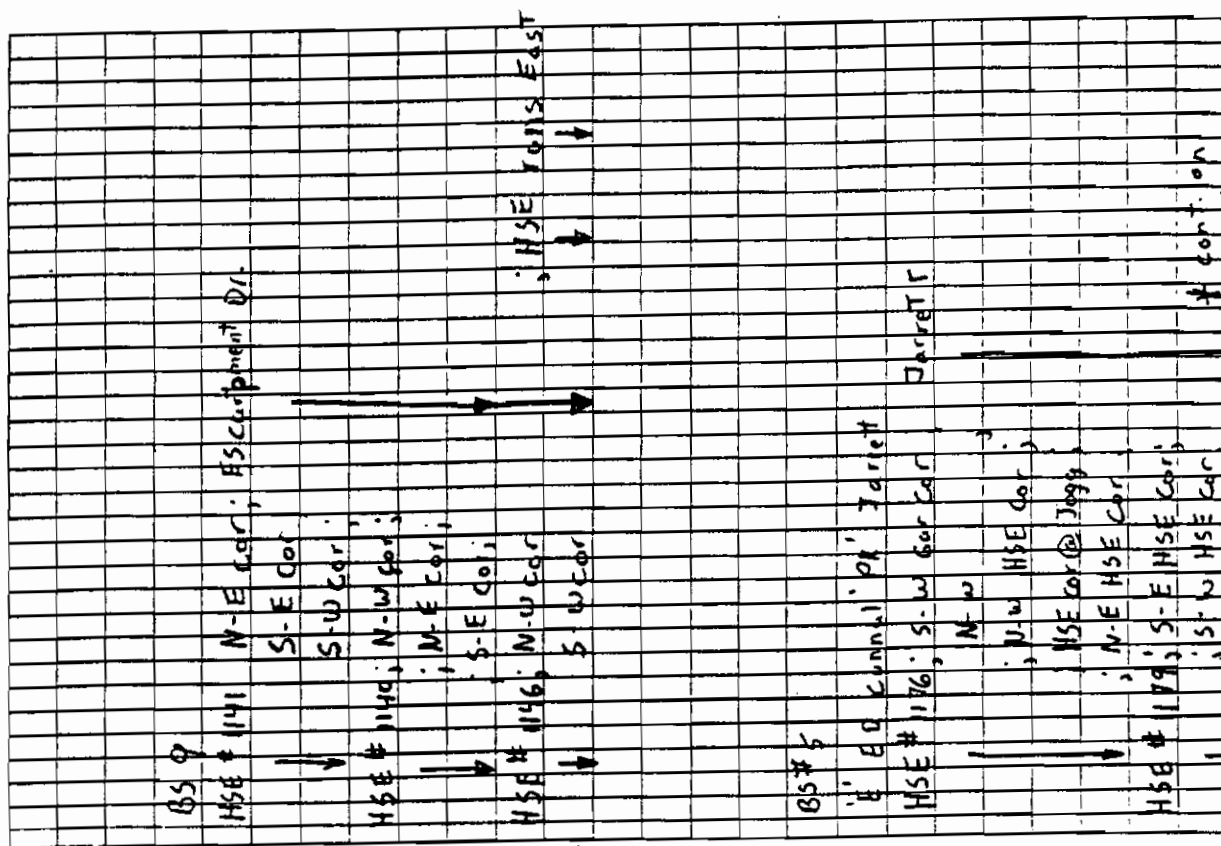
Stauffer Chemical

Cloudy 70°

KR
AMH

31

7-23-72	HOUSE	LOCATIONS
	VA	SD
	90-30-24	212.02
	88-49-06	125.26
	88-24-48	99.06
	90-07-07	120.92
	88-51-19	163.76
	88-12-38	129.32
	89-09-54	161.10
	88-43-47	102.07
	86-03-26	124.20
	PK Jarrett	BS P.O.L. #5
	91-00-56	80.30
	90-58-18	64.75
	90-00-00	119.63
	90-07-54	95.76
	90-25-34	69.31
	90-17-22	79.48
	90-23-25	98.67
	88-28-28	157.27
	91-49-44	140.16
	90-54-06	168.91
		318-28-42



Page #36

STAUFFER CHEMICAL

32

VR
R1

7/21/92	LEVE	DATE	ELEV.
4.73	641.71	-	636.98
5.95	640.34	7.32	634.39
5.92	641.00	5.18	635.10
		5.10	635.24
		5.26	635.08
		5.75	635.25
4.92	641.14	4.66	636.24
		4.60	636.40
		4.78	636.22
		4.75	
3.87	638.57	6.44	634.70
4.05	635.09	7.53	631.04
4.48	631.22	8.35	626.74
		6.86	624.4
		6.80	624.42
4.59	628.72	7.09	624.13
		4.30	

BM 33410 S.W. CORNER	(PROJECT 04-77-1)	HOUSE #1157
TP-1		BOTTOM CONC STEP
MW #1 GS		
CASS		
Riser		
CASS		
MW #4 GS		
CASS		
Riser		
CASS		
P.O.L. #5	A	
TP #7	E	
P.O.L. #8	17	
MW #7 GS		
CASS		
Riser		
CASS		

50' 0" 16' 0" 10' 0" 11' 0" 12' 0" 13' 0" 14' 0" 15' 0" 16' 0" 17' 0" 18' 0" 19' 0" 20' 0" 21' 0" 22' 0" 23' 0" 24' 0" 25' 0" 26' 0" 27' 0" 28' 0" 29' 0" 30' 0"

58° 33'

Кр
Амн

Stauffer Chemical

[illegible]

Stauffer chemical

	Level Run	
7-23-92	624.35	
	7.60	7.75
	7.55	916.90
10.07	626.58	616.51
	9.78	
5.52	627.80	4.30 622.78
	5.57	622.23
	5.49	625.31
6.61	628.73	5.68 622.12
	6.42	
8.28	632.92	4.09 624.64
6.31	638.63	0.60 632.32
2.75	635.69	5.69 632.94
11.04	635.66	11.07 624.62
8.11	642.79 634.33	1.48 634.13
5.35	640.03	7.61 634.68 631.72

ICR
HmH

mw #5 Gs	
CoBS	
Riser	
Cass	
P.O.L. # 9-10	13
mw #3 Gs	
Cass	
Riser	
Cass	
TP	
PT # 11	14
P.O.L. # 11-12	15
PT # 12	16
PT # 6	16
P.O.L. # 5	14

Stauffer Chemical

Rain 600

K⁺
AmH

35

	Level	Run	
7-23-92	640.03		
6.94	641.65	5.32	634.71
5.44	641.68	5.41	636.24
8.54	641.38	8.84	632.84
		4.38	637.00 (636.98)
END RUN			
—ELEV. WEST PK OF CANNAL—			
3.70	640.68		636.98
6.95	640.70	6.93	633.75
		7.85	632.85
END RUN.			
		SET B.M.	
2.60	629.34		626.74
2.80	629.38	2.76	626.58
		6.52	622.86 (622.86)
—END RUN—			

T.P.			
P.O.L. Mont-5	119		
Mont "300T"	117		
B.M. 133+10	SW cor. bottom step	HSE # 1157	
B.M. 133+10			
PK rail 'W' side of canal	PT	(117)	
Mont 500ft			
P.O.L. #7-8	117		
Set Proj B.M. on PK in Pole #239	WYR #5	ELL 1017 D.	
P.O.L. #8	117		

DEPTH FACE OF
SOUTHERN SIDE

STAFFEL CHEMICAL

7/23/92

X @ WIERLE CANAL PK 85 "SCOTT"

(20)

13

92-08-10	13.23	279-04-50	1624.04
88-00-36	107.29	273-52-12	
89-07-29	126.77	300-23-43	

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AU

604 60'

37

Saint M. Hl

HSE # 11167

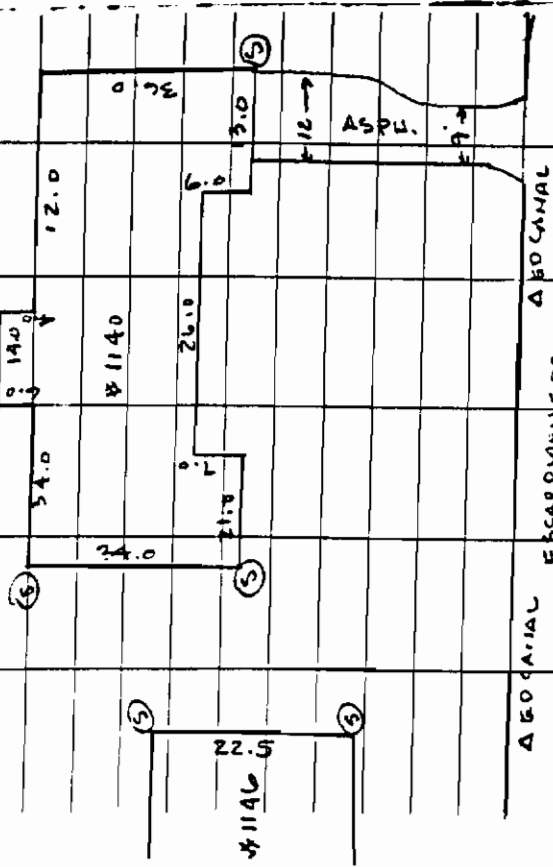
S-W COR.

S-E COR

OTHER TWO COR'S
LOCATED ON PAGE 36
SQUARE HOUSE, NO
SQUARE VAGE POLY.

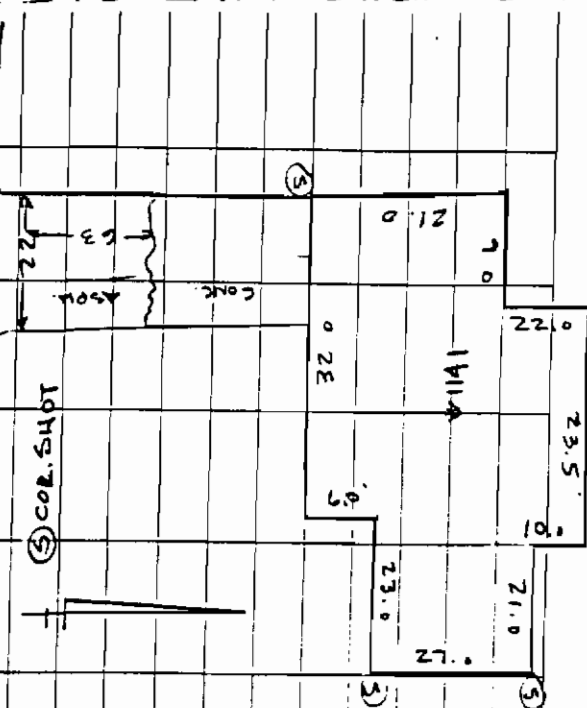
HOUSE SKETCHES

⑤ 502.5110T



Δ ΕΘΝΙΑΛ	ΕΣΚΑΡΟΜΕΝΤΟΡ.	Δ ΕΘΝΙΑΛ

⑤ COL. SHOT



APPENDIX G

EPA FORM 2070-13 "SITE INSPECTION FORM"

E.C. Jordan Co.



POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 1 - SITE LOCATION AND INSPECTION INFORMATION						I. IDENTIFICATION <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">01 STATE New York</td> <td style="width: 50%;">01 SITE NUMBER D000513697</td> </tr> </table>		01 STATE New York	01 SITE NUMBER D000513697
01 STATE New York	01 SITE NUMBER D000513697								
II. SITE NAME AND LOCATION									
01 SITE NAME (Legal, common, or descriptive name of site) Stauffer Chemical, North Love Canal				02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER Whittaker Subdivision					
03 CITY Lewiston		04 STATE New York	05 ZIP CODE 14092	06 COUNTY Niagara	07 COUNTY CODE	08 CONG. DIST			
09 COORDINATES LATITUDE 43° 10' 03" N		LONGITUDE 078° 59' 53" W		10 TYPE OF OWNERSHIP (Check one) ☒ A. PRIVATE ☐ B. FEDERAL ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL ☐ F. OTHER ☐ G. UNKNOWN					
III. INSPECTION INFORMATION									
01 DATE OF INSPECTION 6 / 29 / 92 MONTH DAY YEAR		02 SITE STATUS ACTIVE ☒ INACTIVE		03 YEARS OF OPERATION 1930 1952 UNKNOWN BEGINNING YEAR ENDING YEAR					
04 AGENCY PERFORMING INSPECTION (Check all that apply) ☐ A. EPA ☐ B. EPA CONTRACTOR ☐ C. MUNICIPAL ☐ D. MUNICIPAL CONTRACTOR ☐ E. STATE ☒ F. STATE CONTRACTOR E.C. Jordan Co. ☐ G. OTHER (Name of firm) (Name of firm) (Name of firm) (Specify)									
05 CHIEF INSPECTOR Glenn Daukas		06 TITLE Geologist/Project Manager		07 ORGANIZATION E.C. Jordan Co.		08 TELEPHONE NO. (207) 775-5401			
09 OTHER INSPECTORS Sri Maddineni		10 TITLE Environmental Engineer II		11 ORGANIZATION NYSDEC - Central		12 TELEPHONE NO. (518) 457-0638			
Glenn May		Engineering Geologist		NYSDEC - Region 9		(716) 847-4585			
						()			
13 SITE REPRESENTATIVES INTERVIEWED		14 TITLE		15 ADDRESS		16 TELEPHONE NO. ()			
						()			
						()			
						()			
						()			
						()			
						()			
						()			
17 ACCESS GAINED BY (Check one) ☒ PERMISSION ☐ WARRANT		18 TIME OF INSPECTION NA		19 WEATHER CONDITIONS Sunny, hot					
IV. INFORMATION AVAILABLE FROM									
01 CONTACT Sri Maddineni		02 OF (Agency/Organization) New York State Department of Environmental Conservation				03 TELEPHONE NO. (518) 457-0638			
04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM Glenn Daukas		05 AGENCY	06 ORGANIZATION E.C. Jordan Co.	07 TELEPHONE NO. (207) 775-5401	03 DATE 6 / 29 / 92 MONTH DAY YEAR				



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE

New York

01 SITE NUMBER

D000513697

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply) ☒ A. SOLID ☒ B. POWDER, FINES ☒ C. SLUDGE ☐ D. OTHER (Specify)	02 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent) TONS CUBIC YARDS 50,000 NO. OF DRUMS	03 WASTE CHARACTERISTICS (Check all that apply) ☒ A. TOXIC ☐ B. CORROSIVE ☐ C. RADIOACTIVE ☒ D. PERSISTENT ☐ E. SOLUBLE ☐ F. INFECTIOUS ☐ G. FLAMMABLE ☐ H. IGNITABLE ☐ I. HIGHLY VOLATILE ☐ J. EXPLOSIVE ☐ K. REACTIVE ☐ L. INCOMPATIBLE ☐ M. NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			An estimated 50,000 to 75,000 cubic yards of
OLW	OILY WASTE			asbestos, graphite, concrete cell parts, reactor
SOL	SOLVENTS			linings, scrap sulfur, scrap metal, silicon,
PSD	PESTICIDES			zirconium-titanium oxide, phenols, slag,
OCC	OTHER ORGANIC CHEMICALS			phosphates, flux containing fluoride
IOC	INORGANIC CHEMICALS			potentially buried in former canal.
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS			

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04/STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
OCC	phenol	108-95-2	landfill	0.38	ppm sediment
IOC	asbestos	999	landfill	unknown	
IOC	fluorides	1698-34-9	landfill	152	ppm sediment
IOC	sulfur	7704-34-9	landfill	8797	ppm sediment
IOC	magnesium	7439-95-4	landfill	852	ppm sediment
IOC	phosphorus	7723-14-0	landfill	3.4	ppm sediment
IOC	manganese	7439-96-5	landfill	40	ppm sediment
IOC	cyanide	57-12-5	landfill	0.47	ppm sediment
	nitrates	999	landfill	28	ppm sediment
	chlorides	000	landfill	846	ppm sediment
	phosphates	999	landfill	8.6	ppm sediment
	sulfates	999	landfill	2006	ppm sediment

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS	none		FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Preliminary Site Assessment Report, November 1992, E.C. Jordan Co., and references cited therein.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE

New York

01 SITE NUMBER

D000513697

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ A. GROUNDWATER CONTAMINATION 02 ☒ OBSERVED (DATE: 1992) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: > 1,000 04 NARRATIVE DESCRIPTION

Results of 1992 groundwater sampling performed by E.C. Jordan Co. indicate groundwater exceeds New York State Class GA and Federal MCL and MCLG standards for trichloroethene in one monitoring well, MW-1, and for inorganics in three wells, MW-1, MW-2 and MW-6.

01 ☒ B. SURFACE WATER CONTAMINATION 02 ☐ OBSERVED (DATE: 1992) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: unknown 04 NARRATIVE DESCRIPTION

Surface water samples collected from catch basins during the 1992 investigation conducted by E.C. Jordan Co. exceeded promulgated standards for phenol and 4-methylphenol and the inorganic compounds zinc, cyanide, nickel, antimony, arsenic, lead, iron, mercury, and vanadium.

01 ☐ C. CONTAMINATION OF AIR 02 ☐ OBSERVED (DATE:) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION

None indicated.

01 ☒ D. FIRE/EXPLOSIVE CONDITIONS 02 ☐ OBSERVED (DATE: unknown) ☐ POTENTIAL ☒ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION

A fire in the area was reported to have a low burning flame and noxious gases and was allegedly difficult to extinguish.

01 ☒ E. DIRECT CONTACT 02 ☐ OBSERVED (DATE:) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: unknown 04 NARRATIVE DESCRIPTION

Subsurface materials have been excavated for installation of sewers, in-ground pools, etc., posing potential for direct contact with contaminated soils by workers and residents.

01 ☒ F. CONTAMINATION OF SOIL 02 ☒ OBSERVED (DATE: 1979/1986/1992) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: unknown 04 NARRATIVE DESCRIPTION

Soils encountered by Dominion Soil in 1979 contained slag containing sulfur compounds, lumps of sulfur, magnesium, and phosphorous. Blue/green paste observed by resident in 1988. Soils sampled by NUS (1990) from 0-2' daap contained polycyclic aromatic hydrocarbons, volatile organics, and heavy metals. Soil samples analyzed by E.C. Jordan Co., in 1992 contained elevated concentrations of volatile organic compounds, semivolatile organic compounds, pesticides, polychlorinated biphenyls, and inorganics.

01 ☒ G. DRINKING WATER CONTAMINATION 02 ☐ OBSERVED (DATE: 1979/1992) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: > 1,000 04 NARRATIVE DESCRIPTION

Groundwater sampled and analyzed by Dominion Soil, 1979, contained elevated sulfates. Groundwater sampled and analyzed by E.C. Jordan Co., in 1992 contained trichloroethene above New York State Class GA and Federal MCL and MCLG standards. Residents of subdivision supplied with municipal water, however residents of neighboring Tuscarora Indian Reservation use wells and springs to supply drinking water.

01 ☒ H. WORKER EXPOSURE/INJURY 02 ☐ OBSERVED (DATE:) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: unknown 04 NARRATIVE DESCRIPTION

Potential for workers exposure to contaminated soil and fill materials during construction of sewers, pools, etc.

01 ☒ I. POPULATION EXPOSURE/INJURY 02 ☐ OBSERVED (DATE:) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: > 1,000 04 NARRATIVE DESCRIPTION

Residential homes built directly over waste, although no adverse health effects have been reported. Residents of abutting Tuscarora Reservation drink groundwater from private wells and springs.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE

New York

01 SITE NUMBER

D000513697

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 J. DAMAGE TO FLORA

02 _ OBSERVED (DATE: _____) _ POTENTIAL _ ALLEGED

04 NARRATIVE DESCRIPTION

None indicated.

01 K. DAMAGE TO FAUNA

02 _ OBSERVED (DATE: _____) _ POTENTIAL _ ALLEGED

04 NARRATIVE DESCRIPTION (Include name(s) of species)

None indicated.

01 L. CONTAMINATION OF FOOD CHAIN

02 _ OBSERVED (DATE: _____) _ POTENTIAL _ ALLEGED

04 NARRATIVE DESCRIPTION

None indicated.

01 ☒ M. UNSTABLE CONTAINMENT OF WASTES

02 _ OBSERVED (DATE: _____) ☒ POTENTIAL _ ALLEGED

(Spills/Runoff/Standing liquids, Leaking drums)

03 POPULATION POTENTIALLY AFFECTED: > 1,000

04 NARRATIVE DESCRIPTION

Canal was unlined when materials were disposed in it. No leachate has potentially been observed in basement sumps.

01 ☒ N. DAMAGE TO OFFSITE PROPERTY

02 OBSERVED (DATE: _____) ☒ POTENTIAL _ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: unknown

04 NARRATIVE DESCRIPTION

Wastes may cause spoiling of basement walls. Corrosion of pipes potentially due to elevated chlorides and sulfates has been reported.

01 ☒ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTs

02 _ OBSERVED (DATE: _____) ☒ POTENTIAL _ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: _____

04 NARRATIVE DESCRIPTION

Tan/brown staining of drainage ditches on-site reported. Previous sampling did not indicate contaminants were present. Investigation conducted by E.C. Jordan Co., 1992 including sampling of on-site catch basins. Analyses indicated presence of phenol and 4-methylphenol above New York State Class D surface water standard of 1 micrograms per liter.

01 ☒ P. ILLEGAL/UNAUTHORIZED DUMPING

02 OBSERVED (DATE: _____) _ POTENTIAL ☒ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: _____

04 NARRATIVE DESCRIPTION

Dumping between 1930-1952 was not regulated.

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

None known.

III. TOTAL POPULATION POTENTIALLY AFFECTED: > 1,000

IV. COMMENTS

Population potentially affected by potential drinking water contamination primarily includes residents of Tuscarora Indian Reservation. Whittaker subdivisions residents are supplied with municipal water.

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Preliminary Site Assessment Report, November 1992, E.C. Jordan Co., and references cited therein.



POTENTIAL HAZARDOUS WASTE SITE

SITE INSPECTION REPORT

PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION

01 STATE

New York

01 SITE NUMBER

D000513697

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
☐ A. NPDES				
☐ B. UIC				
☐ C. AIR				
☐ D. RCRA				
☐ E. RCRA INTERIM STATUS				
☐ F. SPCC PLAN				
☐ G. STATE (specify)				
☐ H. LOCAL (specify)				
☐ I. OTHER (specify)				
☒ J. NONE				

III. SITE DESCRIPTION

01 STORAGE/DISPOSAL (check all that apply)	02 AMOUNT	03 UNIT OF MEASURE	04 TREATMENT (check all that apply)	05 OTHER ☒ A. BUILDINGS ONSITE
☐ A. SURFACE IMPOUNDMENT			☐ A. INCINERATION	06 AREA OF SITE 5 (acres)
☐ B. PILES			☐ B. UNDERGROUND INJECTION	
☐ C. DRUMS, ABOVE GROUND			☐ C. CHEMICAL/PHYSICAL	
☐ D. TANK, ABOVE GROUND			☐ D. BIOLOGICAL	
☐ E. TANK, BELOW GROUND			☐ E. WASTE OIL PROCESSING	
☒ F. LANDFILL	50,000-75,000	cubic yards	☐ F. SOLVENT RECOVERY	
☐ G. LANDFARM			☐ G. OTHER RECYCLING/RECOVERY	
☐ H. OPEN DUMP			☐ H. OTHER (specify)	
☐ I. OTHER (specify)				

07 COMMENTS

Site consists of unlined canal into which various materials were dumped between 1930-1952. Site is currently a residential neighborhood built on top of canal.

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (check one)
☐ A. ADEQUATE, SECURE ☐ B. MODERATE ☒ C. INADEQUATE, POOR ☐ D. INSECURE, UNSOUND, DANGEROUS

02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC.

Various materials placed in unlined canal and buried with approximately two feet of soil.

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: ☐ YES ☒ NO
02 COMMENTS Wastes covered with homes, roads, yards, driveways. Wastes are accessible during subsurface excavation work.

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Preliminary Site Assessment Report, November 1992, E.C. Jordan Co., and references cited therein.

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA		I. IDENTIFICATION <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">01 STATE New York</td> <td style="width: 50%;">01 SITE NUMBER D000513697</td> </tr> </table>		01 STATE New York	01 SITE NUMBER D000513697										
01 STATE New York	01 SITE NUMBER D000513697														
II. DRINKING WATER SUPPLY															
01 TYPE OF DRINKING SUPPLY (check as applicable) <table style="width: 100%;"> <tr> <td style="width: 50%;"> SURFACE A. ☒ COMMUNITY NON-COMMUNITY </td> <td style="width: 50%;"> WELL A. ☐ B. ☒ </td> </tr> </table>		SURFACE A. ☒ COMMUNITY NON-COMMUNITY	WELL A. ☐ B. ☒	02 STATUS <table style="width: 100%;"> <tr> <td style="width: 33%;">ENDANGERED A. ☐ D. ☐</td> <td style="width: 33%;">AFFECTED B. ☐ E. ☐</td> <td style="width: 33%;">MONITORED C. ☐ F. ☐</td> </tr> </table>		ENDANGERED A. ☐ D. ☐	AFFECTED B. ☐ E. ☐	MONITORED C. ☐ F. ☐							
SURFACE A. ☒ COMMUNITY NON-COMMUNITY	WELL A. ☐ B. ☒														
ENDANGERED A. ☐ D. ☐	AFFECTED B. ☐ E. ☐	MONITORED C. ☐ F. ☐													
		03 DISTANCE TO SITE A. <u> > 3 </u> (mi) B. <u> 0.4 </u> (mi)													
III. GROUNDWATER															
01 GROUNDWATER USE IN VICINITY (check one) <table style="width: 100%;"> <tr> <td style="width: 33%;"> ☐ A. ONLY SOURCE FOR DRINKING </td> <td style="width: 33%;"> ☒ B. DRINKING (other sources available) COMMERCIAL, INDUSTRIAL, IRRIGATION (No other water sources available) </td> <td style="width: 33%;"> ☐ C. COMMERCIAL INDUSTRIAL IRRIGATION (Limited other sources available) </td> <td style="width: 33%;"> ☐ D. NOT USED, UNUSABLE </td> </tr> </table>				☐ A. ONLY SOURCE FOR DRINKING	☒ B. DRINKING (other sources available) COMMERCIAL, INDUSTRIAL, IRRIGATION (No other water sources available)	☐ C. COMMERCIAL INDUSTRIAL IRRIGATION (Limited other sources available)	☐ D. NOT USED, UNUSABLE								
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02 POPULATION SERVED BY GROUNDWATER <u> > 1,000 </u>		03 DISTANCE TO NEAREST DRINKING WATER WELL <u> 0.4 </u> (mi)													
04 DEPTH TO GROUNDWATER <u> 5-10 </u> (ft)	05 DIRECTION OF GROUNDWATER FLOW <u> North (estimated) </u>	06 DEPTH TO AQUIFER OF CONCERN <u> 10-25 </u> (ft)	07 POTENTIAL YIELD OF AQUIFER <u> 15 </u> (gpd)												
08 SOLE SOURCE AQUIFER ☒ YES ☐ NO															
09 DESCRIPTION OF WELLS (including usage, depth, and location relative to population and buildings) Tuscarora Indian Reservation supplied with drinking water from private wells and springs. Wells range from 25 to 100 feet deep.															
10 RECHARGE AREA ☒ YES ☐ NO COMMENTS - Precipitation		11 DISCHARGE AREA ☐ YES ☒ NO COMMENTS - Groundwater discharges off-site along escarpment.													
IV. SURFACE WATER															
01 SURFACE WATER USE (Check one) ☒ A. RESERVOIR, RECREATION DRINKING WATER SOURCE ☐ B. IRRIGATION, ECONOMICALLY IMPORTANT RESOURCES ☐ C. COMMERCIAL INDUSTRIAL ☐ D. NOT CURRENTLY USED															
02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER <table style="width: 100%;"> <tr> <th style="width: 60%;">NAME:</th> <th style="width: 20%;">AFFECTED</th> <th style="width: 20%;">DISTANCE TO SITE</th> </tr> <tr> <td><u> Fish Creek </u></td> <td style="text-align: center;">☐</td> <td><u> 0.5 </u> (mi)</td> </tr> <tr> <td><u> Six Mile Creek </u></td> <td style="text-align: center;">☐</td> <td><u> 0.7 </u> (mi)</td> </tr> <tr> <td> </td> <td style="text-align: center;">☐</td> <td> </td> </tr> </table>				NAME:	AFFECTED	DISTANCE TO SITE	<u> Fish Creek </u>	☐	<u> 0.5 </u> (mi)	<u> Six Mile Creek </u>	☐	<u> 0.7 </u> (mi)		☐	
NAME:	AFFECTED	DISTANCE TO SITE													
<u> Fish Creek </u>	☐	<u> 0.5 </u> (mi)													
<u> Six Mile Creek </u>	☐	<u> 0.7 </u> (mi)													
	☐														
V. DEMOGRAPHIC AND PROPERTY INFORMATION															
01 TOTAL POPULATION WITHIN <table style="width: 100%;"> <tr> <td style="width: 33%;">ONE (1) MILE OF SITE A. <u> > 1,000 </u> NO. OF PERSONS</td> <td style="width: 33%;">TWO (2) MILES OF SITE B. <u> > 6,000 </u> NO. OF PERSONS</td> <td style="width: 33%;">THREE (3) MILES OF SITE C. <u> > 14,500 </u> NO. OF PERSONS</td> </tr> </table>			ONE (1) MILE OF SITE A. <u> > 1,000 </u> NO. OF PERSONS	TWO (2) MILES OF SITE B. <u> > 6,000 </u> NO. OF PERSONS	THREE (3) MILES OF SITE C. <u> > 14,500 </u> NO. OF PERSONS	02 DISTANCE TO NEAREST POPULATION <u> 0 </u> (mi)									
ONE (1) MILE OF SITE A. <u> > 1,000 </u> NO. OF PERSONS	TWO (2) MILES OF SITE B. <u> > 6,000 </u> NO. OF PERSONS	THREE (3) MILES OF SITE C. <u> > 14,500 </u> NO. OF PERSONS													
03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE <u> > 2,000 </u>		04 DISTANCE TO NEAREST OFF-SITE BUILDING <u> 0.01 </u> (mi)													
05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within written vicinity of site, e.g., rural, village, densely populated urban area) The site is currently overlain by a residential housing development, approximately 1.5 mile east of the Town of Lewiston. The Tuscarora Indian Reservation abuts the property to the east. Area is generally residential to rural.															



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT

PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE

New York

01 SITE NUMBER

D000513697

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one)

☐ A. 10^{-4} - 10^{-3} cm/sec ☒ B. 10^{-4} - 10^{-4} cm/sec ☐ C. 10^{-4} - 10^{-3} cm/sec ☐ D. GREATER THAN 10^{-3} cm/sec

02 PERMEABILITY OF BEDROCK (Check one)

☐ A. IMPERMEABLE
(Less than 10^{-4} cm/sec) ☐ B. RELATIVELY IMPERMEABLE
(10^{-4} - 10^{-4} cm/sec) ☒ C. RELATIVELY PERMEABLE
(10^{-2} - 10^{-4} cm/sec) ☐ D. VERY PERMEABLE
(Greater than 10^{-2} cm/sec)

03 DEPTH TO BEDROCK

10 (ft)

04 DEPTH OF CONTAMINATED SOIL ZONE

5 - 10 (ft)

05 SOIL Ph

6.1 - 7.6

06 NET PRECIPITATION

4 (in)

07 ONE YEAR 24 HOUR RAINFALL

2.1 (in)

08 SLOPE

SITE SLOPE

< 1 %

DIRECTION OF SITE SLOPE

north

TERRAIN AVERAGE SLOPE

< 1 %

09 FLOOD POTENTIAL

SITE IS IN None YEAR FLOODPLAIN

10

SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

11 DISTANCE TO WETLANDS (5 acre minimum)

ESTUARINE

OTHER

A. (mi)

B. 1 (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species)

> 1 (mi)

(NY regulated)

ENDANGERED SPECIES: Fringed Gentian

13 LAND USE IN VICINITY

DISTANCE TO:

COMMERCIAL/INDUSTRIAL

A. 0.5 (mi)

RESIDENTIAL AREAS; NATIONAL/STATE PARKS,
FORESTS, OR WILDLIFE RESERVES

B. 0 (mi)

AGRICULTURAL LANDS
PRIME AG LAND AG LAND

C. 0.01 (mi)

D. 0.01 (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

North Love Canal was an excavation approximately 100 feet wide, 2,000 feet long, and 5 to 10 feet deep, oriented north-south. The canal was excavated perpendicular to the edge of the Niagara Escarpment, which trends east-west in this area. Some houses in the Whittaker subdivision were built directly on top of the filled-in canal. Site topography is fairly flat, while the Niagara Escarpment at the north end of the site drops 235 feet to the lake plain below. The site is bordered by the Tuscarora Reservation to the east, where land is used for agriculture and groundwater is used for drinking water supplies.

VII. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Preliminary Site Assessment Report, November 1992, E.C. Jordan Co., and references cited therein.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 6 - SAMPLE AND FIELD INFORMATION

I. IDENTIFICATION

01 STATE
New York

01 SITE NUMBER
000513697

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER	6	Nytest Environmental	November, 1992
SURFACE WATER	3	Nytest Environmental	November, 1992
WASTE			
AIR			
RUNOFF			
SPILL			
SOIL	20	Nytest Environmental	November, 1992
VEGETATION			
OTHER - SEDIMENT	5	Nytest Environmental	November, 1992

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS

IV. PHOTOGRAPHS AND MAPS

01 TYPE ☒ GROUND ☒ AERIAL	02 IN CUSTODY OF <u>E.C. Jordan Co., Niagara County USDA Soil and Water Conservation Service</u> (Name of organization or individual)
03 MAPS ☒ YES ☐ NO	04 LOCATION OF MAPS <u>NYSDEC Region 9, Buffalo, Lewiston Tax Assessors</u>

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

None collected.

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Preliminary Site Assessment Report, November 1992, E.C. Jordan Co., and references cited therein.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 7 - OWNER INFORMATION

I. IDENTIFICATION

01 STATE

New York

01 SITE NUMBER

000513697

II. CURRENT OWNER(S)

PARENT COMPANY (If applicable)

01 NAME Various owners/Residents	02 D+B NUMBER	08 NAME	09 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.) Whittaker Subdivision	04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE
05 CITY Lewiston	06 STATE New York	07 ZIP CODE 14092	12 CITY 13 STATE 14 ZIP CODE
01 NAME Lewiston, New York	02 D+B NUMBER	08 NAME	09 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	12 CITY 13 STATE 14 ZIP CODE
01 NAME	02 D+B NUMBER	08 NAME	09 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	12 CITY 13 STATE 14 ZIP CODE
01 NAME	02 D+B NUMBER	08 NAME	09 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	12 CITY 13 STATE 14 ZIP CODE

III. PREVIOUS OWNER(S) (List most recent first)

IV. REALTY OWNER(S) (If applicable; list most recent first)

01 NAME Mrs. Whittaker	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.) unknown	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	05 CITY 06 STATE 07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	05 CITY 06 STATE 07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	05 CITY 06 STATE 07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Preliminary Site Assessment Report, November 1992, E.C. Jordan Co., and references cited therein.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 8 - OPERATOR INFORMATION

I. IDENTIFICATION

01 STATE

New York

01 SITE NUMBER

D000513697

II. CURRENT OPERATOR (Provide if different from owner)

OPERATOR'S PARENT COMPANY (If applicable)

01 NAME

02 D+B NUMBER

10 NAME

11 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)

04 SIC CODE

12 STREET ADDRESS (P.O. Box, RFD #, etc.)

13 SIC CODE

05 CITY

06 STATE

07 ZIP CODE

14 CITY

15 STATE

16 ZIP CODE

08 YEARS OF OPERATION

09 NAME OF OWNER

III. PREVIOUS OPERATOR(S) (List most recent first; provide only if different from owner)

PREVIOUS OPERATOR'S PARENT COMPANIES (If applicable)

01 NAME

Stauffer Chemical

02 D+B NUMBER

10 NAME

11 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)
P.O. Box 0820852

04 SIC CODE

12 STREET ADDRESS (P.O. Box, RFD #, etc.)

13 SIC CODE

05 CITY

Westport

06 STATE

CT

07 ZIP CODE

06881

14 CITY

15 STATE

16 ZIP CODE

08 YEARS OF OPERATION

1930-1952

09 NAME OF OWNER

01 NAME

Niagara Smelting

02 D+B NUMBER

10 NAME

Stauffer Chemical

11 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)
Subsidiary of Stauffer Chemical

04 SIC CODE

12 STREET ADDRESS (P.O. Box, RFD #, etc.)
P.O. Box 0820852

13 SIC CODE

05 CITY

06 STATE

07 ZIP CODE

14 CITY

Westport

15 STATE

CT

16 ZIP CODE

06881

08 YEARS OF OPERATION

09 NAME OF OWNER

01 NAME

02 D+B NUMBER

10 NAME

11 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)

04 SIC CODE

12 STREET ADDRESS (P.O. Box, RFD #, etc.)

13 SIC CODE

05 CITY

06 STATE

07 ZIP CODE

14 CITY

15 STATE

16 ZIP CODE

08 YEARS OF OPERATION

09 NAME OF OWNER

IV. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Preliminary Site Assessment Report, November 1992, E.C. Jordan Co., and references cited therein.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT

PART 9 - GENERATOR/TRANSPORTER INFORMATION

I. IDENTIFICATION

01 STATE

New York

01 SITE NUMBER

000513697

II. ON-SITE GENERATOR

01 NAME	02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	
05 CITY	06 STATE	07 ZIP CODE

III. OFF-SITE GENERATOR(S)

01 NAME Stauffer Chemical	02 D+B NUMBER	01 NAME	02 D+B NUMBER		
03 STREET ADDRESS (P.O. Box, RFD #, etc.) P.O. Box 0820852	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE		
05 CITY Westport	06 STATE CT	07 ZIP CODE 06881	05 CITY	06 STATE	07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER		
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE		
05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

IV. TRANSPORTER(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER		
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE		
05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER		
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE		
05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

IV. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Preliminary Site Assessment Report, November 1992, E.C. Jordan Co., and references cited therein.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION

01 STATE

New York

01 SITE NUMBER

D000513697

II. PAST RESPONSE ACTIVITIES

01 A. WATER SUPPLY CLOSED
04 DESCRIPTION

02 DATE

03 AGENCY

None indicated.

01 B. TEMPORARY WATER SUPPLY PROVIDED
04 DESCRIPTION

02 DATE

03 AGENCY

None indicated.

01 C. PERMANENT WATER SUPPLY PROVIDED
04 DESCRIPTION

02 DATE

03 AGENCY

None indicated.

01 D. SPILLED MATERIAL REMOVED
04 DESCRIPTION

02 DATE

03 AGENCY

None indicated.

01 E. CONTAMINATED SOIL REMOVED
04 DESCRIPTION

02 DATE

03 AGENCY

None indicated.

01 F. WASTE REPACKAGED
04 DESCRIPTION

02 DATE

03 AGENCY

None indicated.

01 G. WASTE DISPOSED ELSEWHERE
04 DESCRIPTION

02 DATE

03 AGENCY

None indicated.

01 H. ON SITE BURIAL
04 DESCRIPTION

02 DATE

03 AGENCY

None indicated.

01 I. IN SITU CHEMICAL TREATMENT
04 DESCRIPTION

02 DATE

03 AGENCY

None indicated.

01 J. IN SITU BIOLOGICAL TREATMENT
04 DESCRIPTION

02 DATE

03 AGENCY

None indicated.

01 K. IN SITU PHYSICAL TREATMENT
04 DESCRIPTION

02 DATE

03 AGENCY

None indicated.

01 L. ENCAPSULATION
04 DESCRIPTION

02 DATE

03 AGENCY

None indicated.

01 M. EMERGENCY WASTE TREATMENT
04 DESCRIPTION

02 DATE

03 AGENCY

None indicated.

01 N. CUTOFF WALLS
04 DESCRIPTION

02 DATE

03 AGENCY

None indicated.

01 O. EMERGENCY DIKING/SURFACE WATER DIVERSION
04 DESCRIPTION

02 DATE

03 AGENCY

None indicated.

01 P. CUTOFF TRENCHES/SUMP
04 DESCRIPTION

02 DATE

03 AGENCY

None indicated.

01 Q. SUBSURFACE CUTOFF WALL
04 DESCRIPTION

02 DATE

03 AGENCY

None indicated.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION

01 STATE

New York

01 SITE NUMBER

D000513697

II. PAST RESPONSE ACTIVITIES (Continued)

01 R. BARRIER WALLS CONSTRUCTED
04 DESCRIPTION

02 DATE

03 AGENCY

None indicated.

01 S. CAPPING/COVERING
04 DESCRIPTION

02 DATE

03 AGENCY

None indicated.

01 T. BULK TANKAGE REPAIRED
04 DESCRIPTION

02 DATE

03 AGENCY

None indicated.

01 U. GROUT CURTAIN CONSTRUCTED
04 DESCRIPTION

02 DATE

03 AGENCY

None indicated.

01 V. BOTTOM SEALED
04 DESCRIPTION

02 DATE

03 AGENCY

None indicated.

01 W. GAS CONTROL
04 DESCRIPTION

02 DATE

03 AGENCY

None indicated.

01 X. FIRE CONTROL
04 DESCRIPTION

02 DATE

03 AGENCY

None indicated.

01 Y. LEACHATE TREATMENT
04 DESCRIPTION

02 DATE

03 AGENCY

None indicated.

01 Z. AREA EVACUATED
04 DESCRIPTION

02 DATE

03 AGENCY

None indicated.

01 1. ACCESS TO SITE RESTRICTED
04 DESCRIPTION

02 DATE

03 AGENCY

None indicated.

01 2. POPULATION RELOCATED
04 DESCRIPTION

02 DATE

03 AGENCY

None indicated.

01 3. OTHER REMEDIAL ACTIVITIES
04 DESCRIPTION

02 DATE

03 AGENCY

None indicated.

IV. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Preliminary Site Assessment Report, November 1992, E.C. Jordan Co., and references cited therein.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 11 - ENFORCEMENT INFORMATION

I. IDENTIFICATION

01 STATE

New York

01 SITE NUMBER

D000513697

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION ☒ YES ☐ NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

Site Inspection Report completed for USEPA, February 1990, by NUS.

Phase I Investigation performed for NYSDEC, September 1989, by Ecology and Environment, Inc.

Samples collected in drainage ditch and basement sumps by Niagara County Health Department 1988-1989.

Preliminary Assessment performed for USEPA in June 1987 by NUS.

Subsurface soil investigation performed for Town of Lewiston in March 1979 by Dominion Soil Investigations, Inc.

Investigation performed by USEPA in September 1979.

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Preliminary Site Assessment Report, November 1992, E.C. Jordan Co., and references cited therein.

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS WASTE REMEDIATION

Original-BHSC

Copy-REGION

Copy-DEE

Copy-DOH

Copy-PREPARER

REGISTRY SITE CLASSIFICATION DECISION

1. SITE NAME Stauffer Chemical - Whittaker Subdivision		2. SITE NO 932034	3. TOWN/CITY/VILLAGE Lewiston	4. COUNTY Niagara
5. REGION 9	6. CLASSIFICATION Current 3 Proposed Modify Delist			
7. LOCATION OF SITE (Attached U.S.G.S Topographic Map showing site Location) a. Quadrangle Ransomville/Lewiston b. Site Latitude 43 degree 10'03" N Longitude 078 degree 59' 53" W c. Tax Map Number 33 and 25				
8. BRIEFLY DESCRIBE THE SITE (Attach site plan showing disposal/sampling locations) a. Area <u>5</u> acres b. EPA ID Number <u>D000513697</u> c. Completed () Phase I () Phase II (X) PSA () RI/FS () PA/SI () Other				
9. HAZARDOUS WASTES DISPOSED Between 1930 and 1952, the canal was filled with approximately 50,000 to 75,000 cubic yards of waste consisting of asbestos, graphite, concrete cell parts, reactor linings, scrap sulfur, scrap metal, silicon, zirconium-titanium oxide, phenols, slag, phosphates, and flux containing fluoride.				
10. ANALYTICAL DATA AVAILABLE a. () Air (X) Groundwater (X) Surface Water (X) Soil () Waste (X) EPTox () TCLP b. Contravention of Standards or Guidance Values The results from the investigation conducted by E.C. Jordan Co., in 1992 indicate that one groundwater sample exceeds the New York State Class GA groundwater standard and the federal maximum contaminant level and maximum contaminant level goal of 5 micrograms per liter (µg/L) for trichloroethene; three groundwater samples have inorganic compound concentrations that exceed promulgated standards for one or all of the following inorganic compounds: antimony, barium, chromium, and lead; one surface water sample exceeds the New York State criteria standard of 1 µg/L for phenol and 4-methylphenol; and three surface water samples have inorganic compounds that exceed promulgated standards for one or all of the following nine inorganic compounds: zinc, cyanide, nickel, antimony, arsenic, lead, iron, mercury, and vanadium.				
11. JUSTIFICATION FOR CLASSIFICATION DECISION The disposal and existence of hazardous waste was not documented in the investigation conducted by E.C. Jordan in 1992 and although promulgated standards have been exceeded in groundwater and surface water the site should be reclassified from a class 3 site to a delisted site.				
12. SITE IMPACT DATA a. Nearest surface water: Distance <u>2,640</u> ft. Direction <u>Southwest</u> Classification <u>Class D</u> b. Nearest groundwater: Depth <u>5-10</u> ft. Flow Direction <u>North</u> (X) Sole Source (X) Primary () Principal c. Nearest water supply: Distance <u>2,640</u> ft. Direction <u>South</u> Active (X) Yes () No d. Nearest building: Distance <u>0</u> ft. Direction <u>On-top-of</u> Use <u>Residential Homes</u> e. In State Economic Development Zone? () Y (X) N i. Controlled site access? () Y (X) N f. Crops or livestock on site? () Y (X) N j. Exposed hazardous waste? () Y (X) N g. Documented fish or wildlife mortality? () Y (X) N k. HRS Score <u>NA</u> h. Impact on special status fish or wildlife resource? () Y (X) N l. For Class 2: Priority Category <u>NA</u>				
13. SITE OWNER'S NAME (Current) Various Owners		14. ADDRESS Whittaker Subdivision		15. TELEPHONE NUMBER NA
16. PREPARER <u>Deborah H.S. Cianchette</u> Signature <u>11-12-92</u> Date <u>Deborah H.S. Cianchette, Geologist, E.C. Jordan Co.</u> Name, Title, Organization			17. APPROVED _____ Signature _____ Date _____ Name, Title, Organization	



APPENDIX H

**NYSDEC FORM C "ADDITIONS/CHANGES
TO REGISTRY OF INACTIVE HAZARDOUS
WASTE DISPOSAL SITES"**

E.C. Jordan Co.

APPENDIX I

**NYSDEC SITE REPORT FORM FOR INACTIVE
HAZARDOUS WASTE SITES**

E.C. Jordan Co.



NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS WASTE REMEDIATION
INACTIVE HAZARDOUS WASTE DISPOSAL REPORT

CLASSIFICATION CODE: 3 REGION: 9 SITE CODE: 932034
EPA ID: ,

NAME OF SITE : Stauffer Chemical, North of Love Canal
STREET ADDRESS: Upper Mountain Rd., Wittaker Subdivision
TOWN/CITY: Lewiston COUNTY: Niagara ZIP: ,

SITE TYPE: Open Dump-X Structure- Lagoon- Landfill- Treatment Pond-
ESTIMATED SIZE: 5 Acres

SITE OWNER/OPERATOR INFORMATION:

CURRENT OWNER NAME....: ** Multi - Owner Site **
CURRENT OWNER ADDRESS.: * * * * *

OWNER(S) DURING USE....: Mr. Whittaker
OPERATOR DURING USE....: Stauffer Chemicals
OPERATOR ADDRESS.....: Westport, CN

PERIOD ASSOCIATED WITH HAZARDOUS WASTE: From 1930 To 1952

SITE DESCRIPTION:

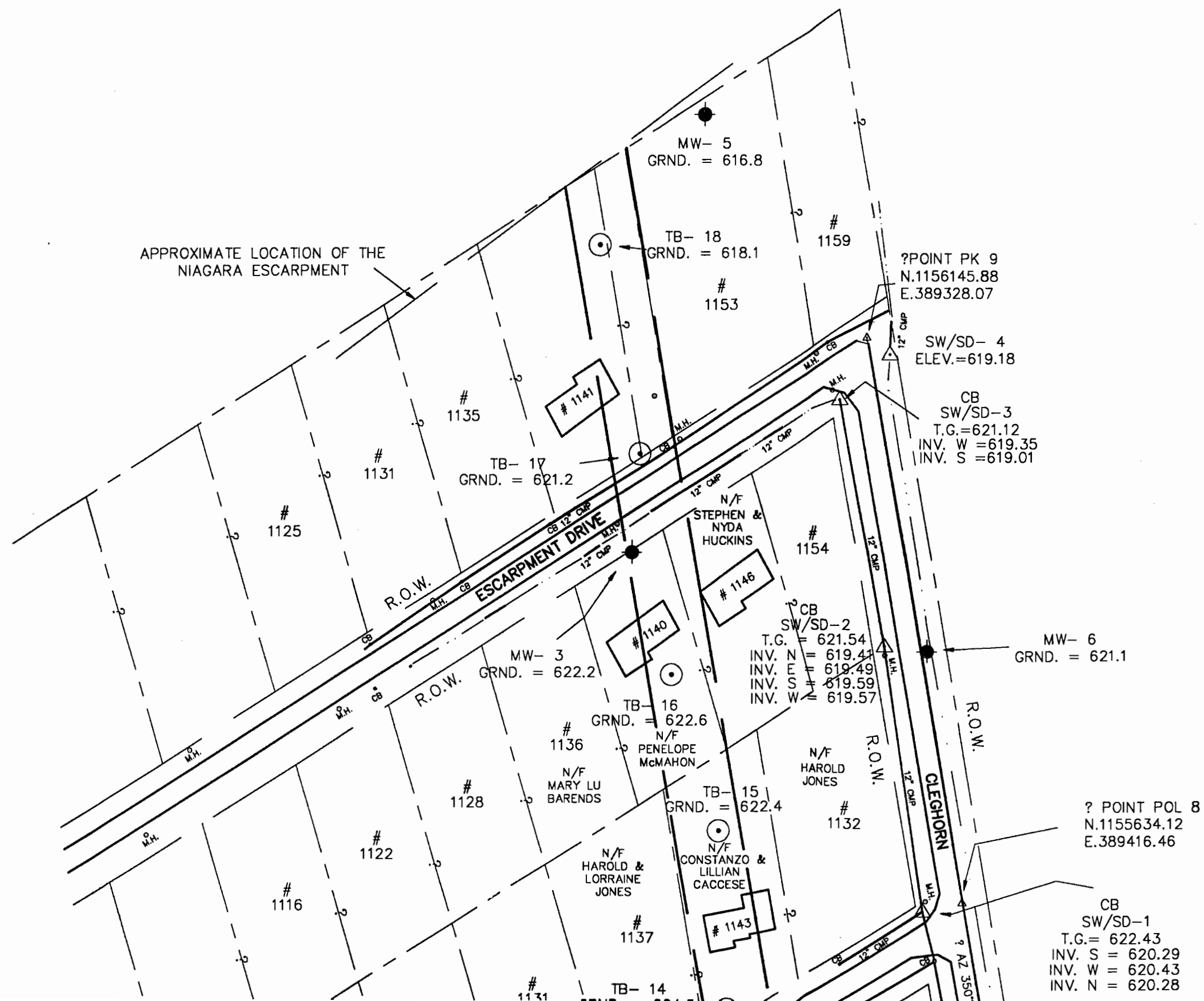
The site was used by Stauffer Chemical to bury approx. 50,000 cubic yards of asbestos, cell parts, reactor linings, scrap sulfur and other metallic industrial wastes. Burial of wastes took place in the area of Whittaker subdivision, including Callan Drive, Jeret Drive, Cleghorn Dr. and parts of Ellicott Dr. and Escarpment Dr. It is suspected that the site was also used by Union Carbide for disposal of their fluoride containing flux. U.S.E.P.A. directed an investigation of the site in May and June of 1979. A Phase I investigation has been completed. Limited data is available on groundwater quality. The direction of groundwater flow is uncertain. Sulfate, Chloride, Nitrates, Cyanide, Fluoride and Phenol were found in groundwater in the old canal areas. A Phase II investigation has been planned.

HAZARDOUS WASTE DISPOSED:	Confirmed-X	Suspected-
TYPE		QUANTITY (units)

asbestos, graphite, cinders, concrete cell parts, reactor linings, scrap sulfur, scrap metal, silicon zirconium and titanium oxides		
phenols, slag and flux containing fluorides		50,000-75,000 cu yds



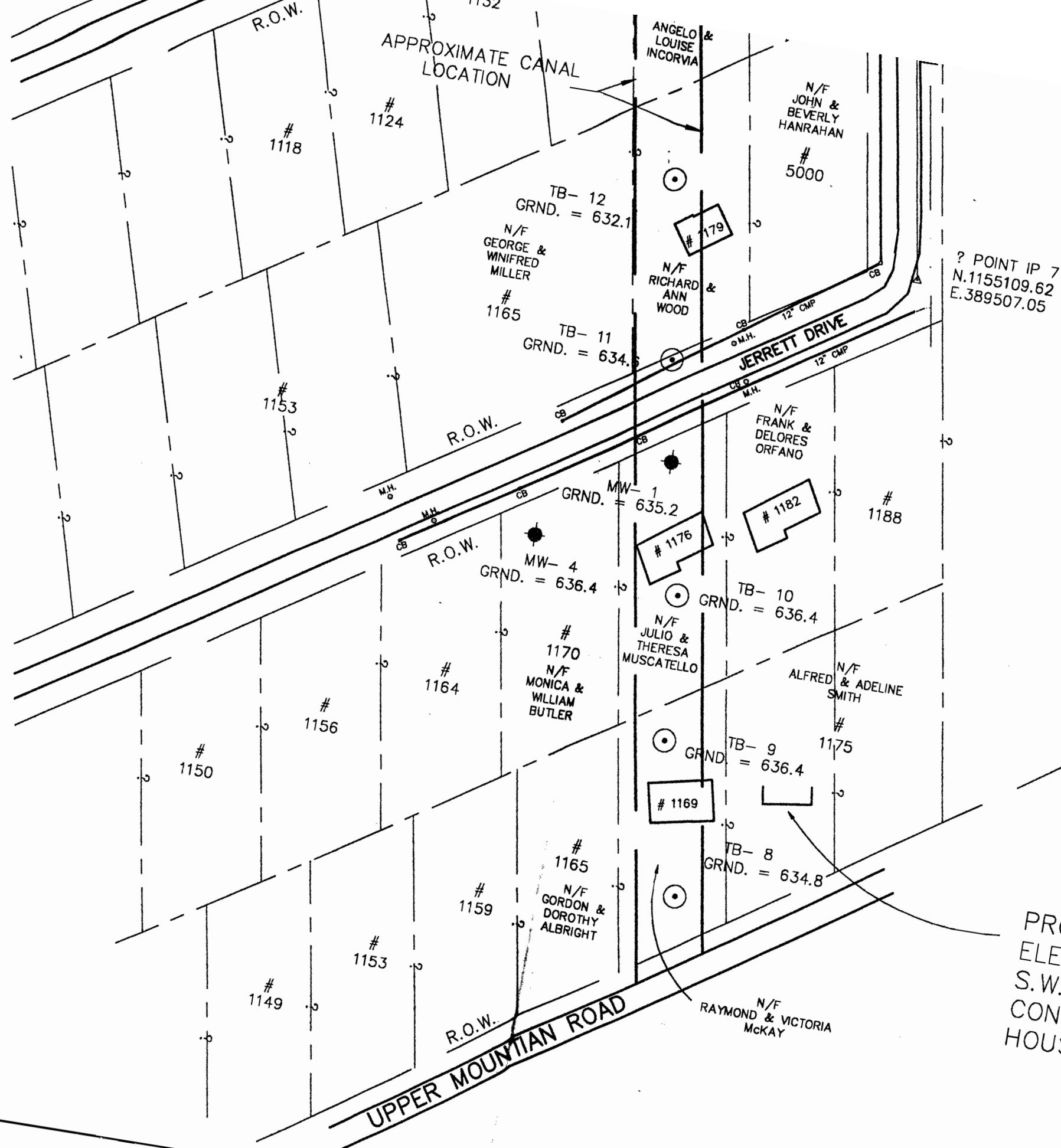
ENVIRONMENTAL
RECONSTRUCTION
DEC 22 1992
R. E. H. H. H. H.



TUSCARORA INDIAN RESERVATION

STATE GEODETIC
SURVEY

U.S. GEOLOGICAL
SURVEY
POPULAR STATION



PROJECT BENCH MARK
ELEVATION=636.98'
S.W. CORNER OF BOTTOM
CONCRETE STEP OF
HOUSE # 1175