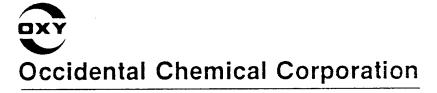
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# Occidental Chemical Corporation

# TAM SEWER SAMPLING PROGRAM

Tam Ceramics Inc. Hyde Park Remedial Program



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#### 1.0 INTRODUCTION

On January 19, 1981, a "Stipulation and Judgment Approving Settlement Agreement" (Settlement Agreement) was entered into between the United States Environmental Protection Agency (USEPA) and the State of New York and Occidental Chemical Corporation (OCC) outlining studies and remedial programs for the Hyde Park Landfill. Item B(4) on Page I-8 of the Settlement Agreement requires OCC to undertake a utility trench investigation to identify any routes of chemical migration from the Hyde Park Landfill.

The Settlement Agreement outlines two particular sewer lines to be sampled for both bedding soils and accumulated sediment. These sewer lines are:

- 1. TAM Ceramics Sewers
- Town of Lewiston Bloody Run Area

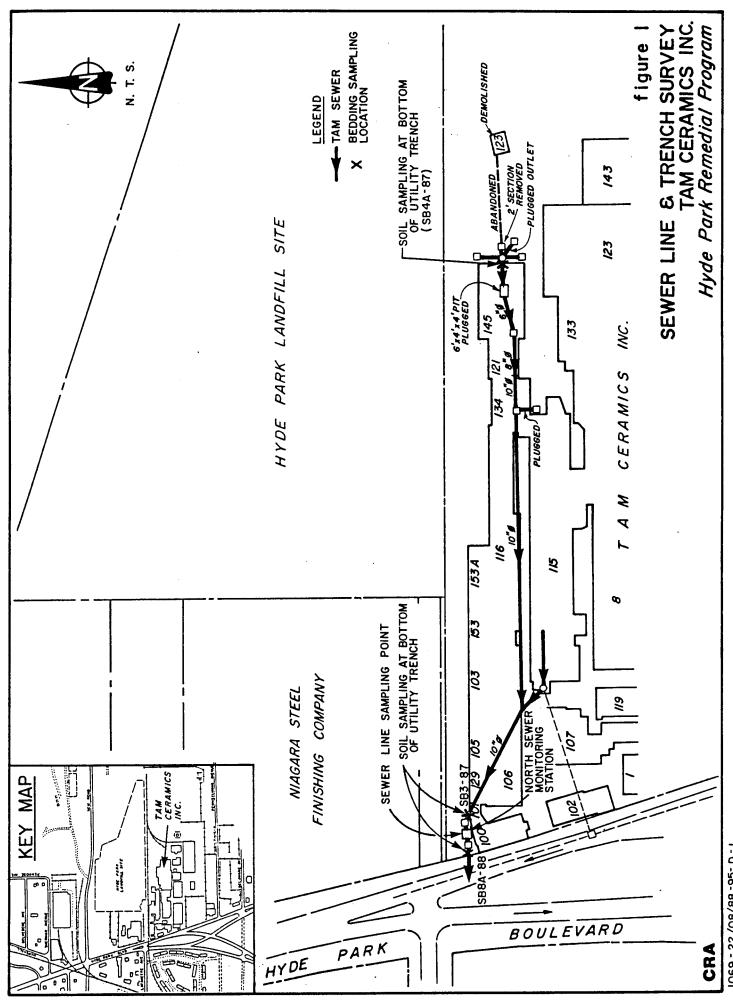
The investigation of the Town of Lewiston - Bloody Run Area sewer line is ongoing and will be reported upon when completed. This report will deal exclusively with sewer lines on the TAM Ceramics property.

#### 2.0 PROGRAM DESCRIPTION

The investigation of the TAM Ceramics sewers is divided into two segments. The first segment describes the collection and analysis of bedding material samples from the sanitary sewer line at two locations; one at the eastern edge of the TAM buildings and one at the monitoring station adjacent to Hyde Park Boulevard. The second segment describes the collection and analysis of a sediment sample from within the sanitary sewer at the point of discharge to the City sewer system (the monitoring station adjacent to Hyde Park Boulevard). The locations of the areas investigated are presented in Figure 1.

The sewer bedding material was investigated by drilling boreholes immediately adjacent to the sewer lines on September 3, 1987.

Later review of construction information concerning the sewer line revealed that the sewer bedding initially sampled adjacent to the northern monitoring station was not the deepest installation in the area. It was therefore necessary to return to the Site in March 1988 to collect an additional sample from the bedding of the main sanitary sewer line exiting TAM Ceramics property. In order to install a borehole along this sewer line, it was necessary to move to the west side of the monitoring station since this is the only accessible drilling location where the alignment of the sewer is accurately defined.



1069 - 22/08/88 -95- D - 1

Two attempts were required to reach the bedding material at the north sewer monitoring station location. The first borehole (SB8-88) encountered native material at 4 feet below grade and was therefore determined not to be in the trench originally excavated to install the sewer. The second borehole (SB8A-88) was installed approximately 4 feet further north and was determined to be in the trench. A sample of the deepest fill material was collected for analysis. A duplicate sample (SB9-88) was also collected at this location.

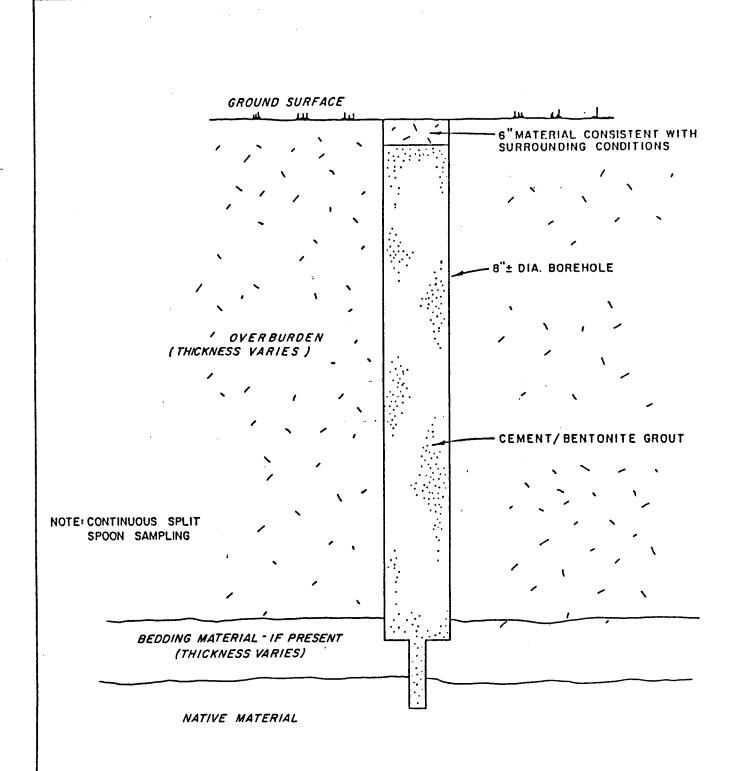
The specific locations for each of the boreholes drilled under the Sewer Bedding Program at TAM Ceramics are presented in Appendix A.

#### 3.0 DRILLING AND SAMPLING PROCEDURES

#### 3.1 DRILLING PROCEDURES

The boreholes undertaken in this program were drilled using a truck-mounted CME-55 drill rig supplied by Rochester Drilling Company of Rochester, NY. The boreholes were advanced through the overburden using 4 1/4-inch ID hollow stem augers. Sampling was completed within the auger annulus. The boreholes were extended through the overburden and backfill material surrounding the sewer pipe and into the native soil underlying the sewer bedding as determined by the OCC Field Representative. In all cases, continuous split spoon samples of the overburden materials penetrated were collected in advance of augering for geologic identification.

Following completion of each borehole, the borehole annulus was filled to within 1 foot of the ground surface with cement grout containing 3 percent bentonite by volume. The surface was restored to its original condition following hardening of the grout. A typical borehole completion is illustrated on Figure 2.



figure

TYPICAL SEWER BEDDING BOREHOLE TAM CERAMICS INC. Hyde Park Remedial Program Each drilling site was designated as a Survey Site during drilling activities. This was achieved by spreading a polyethylene ground sheet which was subsequently covered with plywood sheets over the active work area and erecting a temporary fence around the perimeter of the work area. All activities within this zone required health and safety provisions as per the "Environmental Health and Safety Plan for Survey Activities".

All waste material generated at each drill site, including soil cuttings, fluids and used health and safety equipment, was segregated and placed in 55-gallon steel drums. These drums were then stored in a special drum storage area at the Hyde Park Landfill and have subsequently been disposed in the Hyde Park Landfill.

The elevations of all boreholes have been determined by level survey.

#### 3.2 <u>SAMPLING PROCEDURES</u>

#### 3.2.1 Soil Bedding

Continuous split spoon samples of the overburden materials encountered during the bedding investigation were collected in each borehole. Soil samples were examined for visual and olfactory evidence of NAPL, described in terms of geologic stratigraphy, color and textural properties, and stored in glass containers for future reference.

One soil sample from the deepest interval of each sewer bedding borehole was submitted to Recra Research for chemical analysis. Descriptions of the samples submitted for chemical analysis are presented on Table 1. Each of these samples was collected from the deepest split spoon sample of fill material (bedding) encountered immediately adjacent to the sewer pipe.

These soil samples were analyzed for the Hyde Park Soil Survey Indicator Parameters which are as follows:

Parameters	Survey Level
Monochlorobenzene (MCB)	10 ug/kg
Monochlorotoluene (MCT)	10 ug/kg
2,4,5-Trichlorophenol (TCP)	100 ug/kg
Hexachlorobenzene (HCB)	100 ug/kg

#### 3.2.2 Sediment

In addition to the sampling of the bedding material around the exterior of the sewer pipe, one sample of the sediment contained within the sewer pipe was also collected. The sediment sample was collected from within the north sewer monitoring station which is located in the northwest corner of TAM Ceramic property as shown in Figure 1. The sample was collected from accumulated sediment within the sewer line using a stainless steel trowel.

TABLE 1
SEWER BEDDING BOREHOLE DETAILS
TAM CERAMICS
HYDE PARK REMEDIAL PROGRAM

	Borehole Designation	Date <u>Completed</u>	Ground Elevation (ft. AMSL)	Total Depth (ft. BGS)	Bottom Elevation (ft. AMSL)	Sample Depth (feet)	Bedding Material Recovery (inches)	Composition
-	SB-3-87	09/03/87	595.2	4.0	591.2	2.0-3.0	5	FILL. Fine to coarse sandy gravel, silty, trace clay, red-brick, gray-brown, moist.
	SB-4A-87	09/03/87	600.1	8.0	592.1	6.0-6.4	4	FILL. Clayey sand with gravel, silty, brown, moist.
	\$SB-4B-87	09/03/87	600.1	8.0	592.1	No Sample	-	
-	SB-8-88	03/16/88	596.1	10.0	586.1	No Sample	-	
_	SB-8A-88	03/16/88	596.1	8.0	588.1	6.0-8.02	12	FILL. Silt, angular gravel, wet. Native. Clayey silt, silt seams, moist- wet.

Note: All samples were sieved to #4 mesh upon receipt at Recra Laboratories.

The sediment sample was also submitted to Recra Research for analysis of the Hyde Park Soil Survey Parameters.

#### 3.3 EQUIPMENT CLEANING

All equipment used in the drilling and sampling operations was cleaned prior to use and removal from the Site. The drill rig and downhole equipment were also cleaned between each successive borehole using the following procedure:

- water wash equipment and wire brush to remove soil
   materials and rinse with clean water and
- steam wash followed by a series of rinses of acetone, hexane and acetone solutions and another steam wash.

All fluids generated during the cleaning operations were discharged into the Hyde Park Lagoons.

The soil sampling equipment was cleaned prior to each use utilizing the following procedure:

 disassemble all equipment and water wash to remove all visible foreign material and subject to a series of rinses of acetone, hexane, acetone and distilled water.

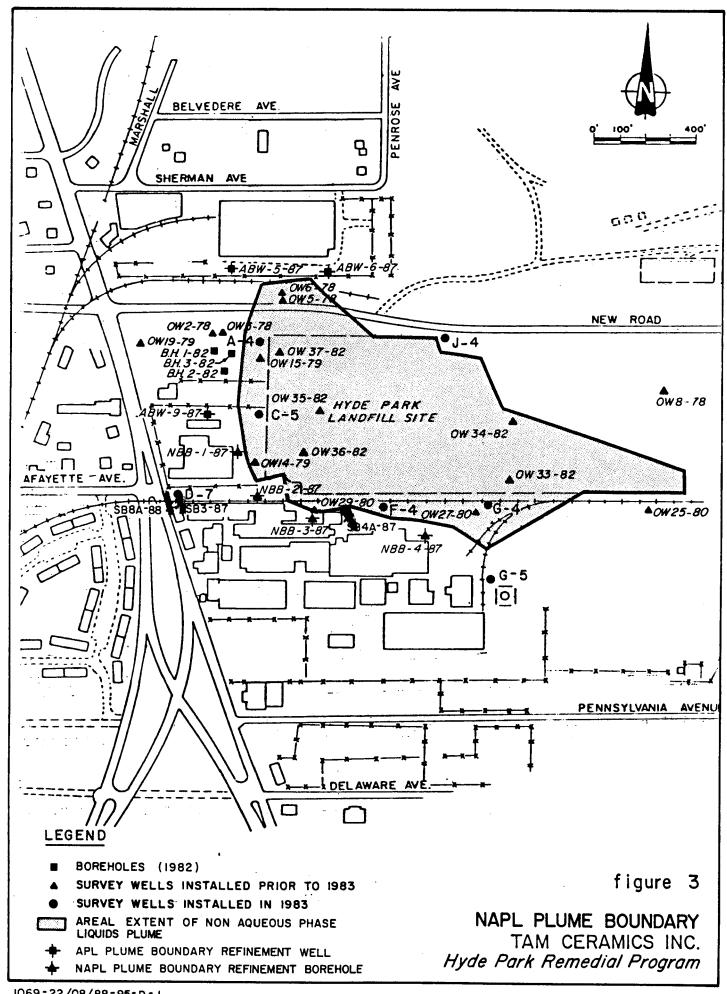
All sampling equipment was inspected and sealed in aluminum foil following cleaning. Spent rinsing fluids were collected and disposed as described above.

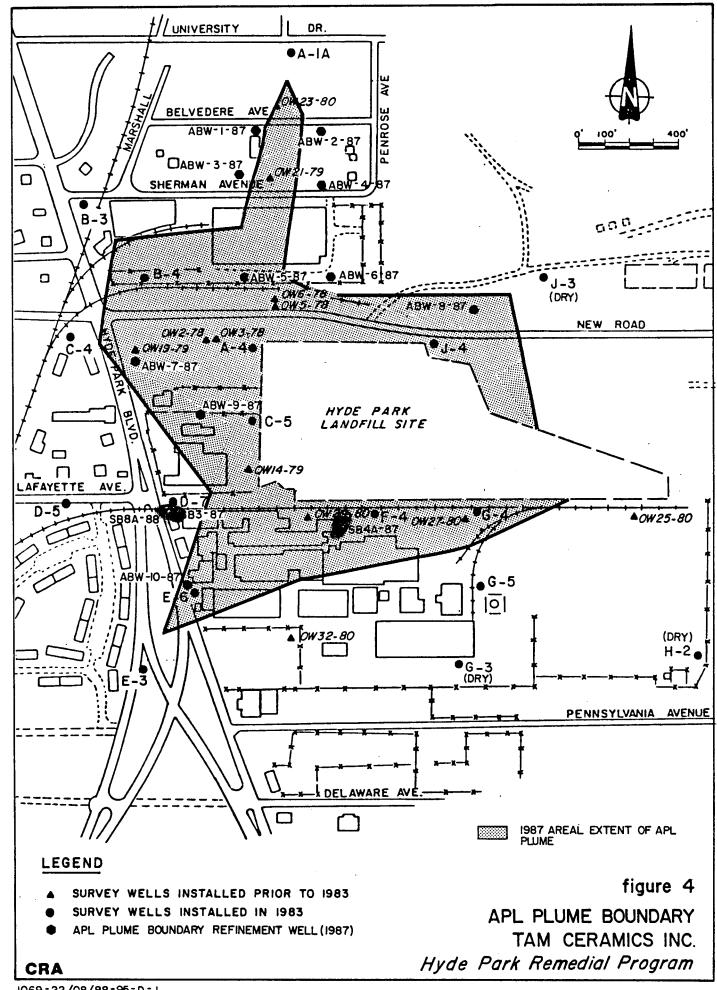
#### 4.0 DISCUSSION OF RESULTS

NAPL was not identified during the drilling of the sewer bedding boreholes or the sampling of the sewer sediment on TAM Ceramics property. Consequently, Figure 3 which presents the areal limits of NAPL migration from the Hyde Park Landfill Site through the overburden is not affected by the observations made during the sewer study and the figure is correct as originally presented in the report "APL/NAPL Plume Refinement in the Overburden", February 1988.

The analytical results from the bedding and sediment samples collected are presented in Appendix B. The results indicate that the Soil Survey Indicator Parameters were not present in any of the sewer bedding locations sampled along the TAM sewers. These analytical results do not affect the refined areal extent of APL migration through the overburden (see Figure 4) and are consistent with the hydrogeologic factors and geochemical interactions that control APL migration.

The nature of the bedding materials placed around the TAM sewer line suggests that the sewer bedding would not provide a preferential pathway for chemical migration. The bedding materials encountered during the drilling program were principally composed of sand, silt and gravel with some clay and appears to be the material





excavated from the trench at the time of sewer installation. The original material excavated would have included native clay and any overlying fill material from the area which would have included the gravel roadways, etc. Imported pipe bedding material was not used.

Since this bedding material is reasonably consistent with the surrounding overburden materials there is no reason to believe that it would be a preferential pathway for the migration of chemicals when compared to the soils surrounding the trench. The absence of NAPL or Soil Survey Parameters in the TAM sewer bedding materials confirms that the sewer bedding does not provide a preferential pathway for chemical migration.

The sediment sample collected from within the north sewer monitoring station was identified to contain Hyde Park Soil Survey Parameters at the following concentrations:

MCB - 73 ug/kg
MCT - 4,140 ug/kg
HCB - 1,830 ug/kg
2,4,5-TCP - 282 ug/kg

The point of entry of these Hyde Park

Parameters into the TAM sewer system is not known. However,

an RRT study will be undertaken as required in the Settlement

Agreement to investigation this chemical presence in the

sewer sediment.

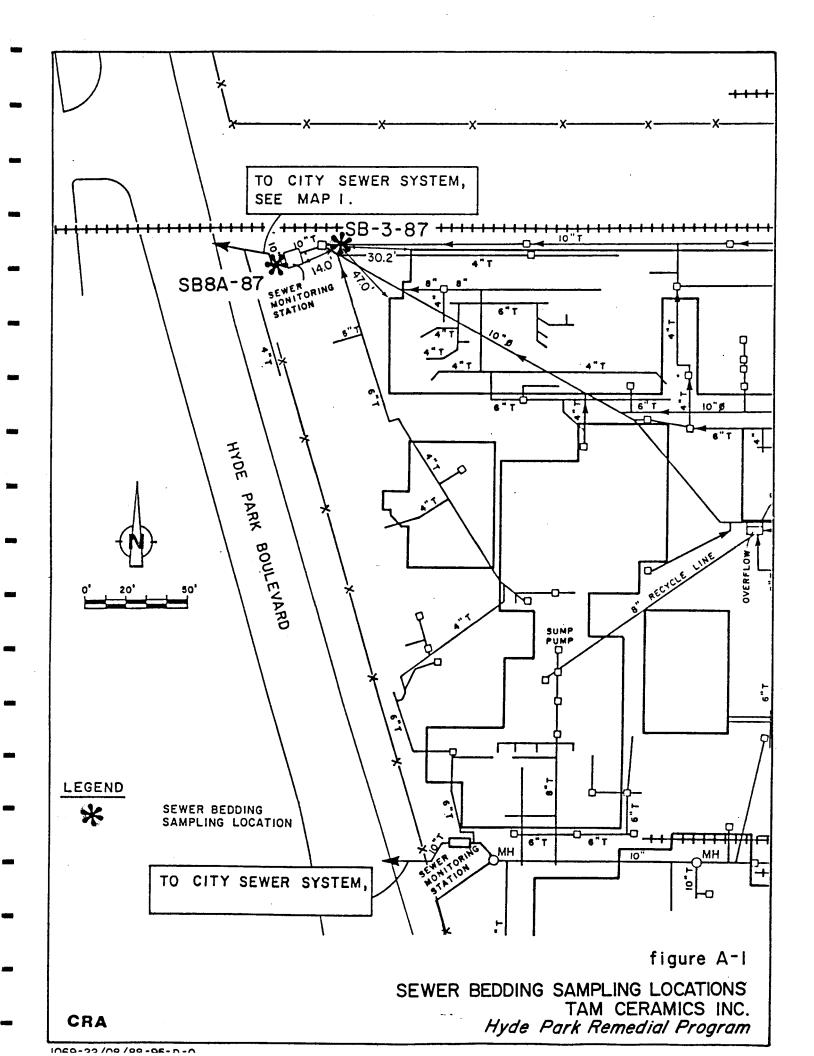
#### 5.0 CONCLUSIONS AND RECOMMENDATIONS

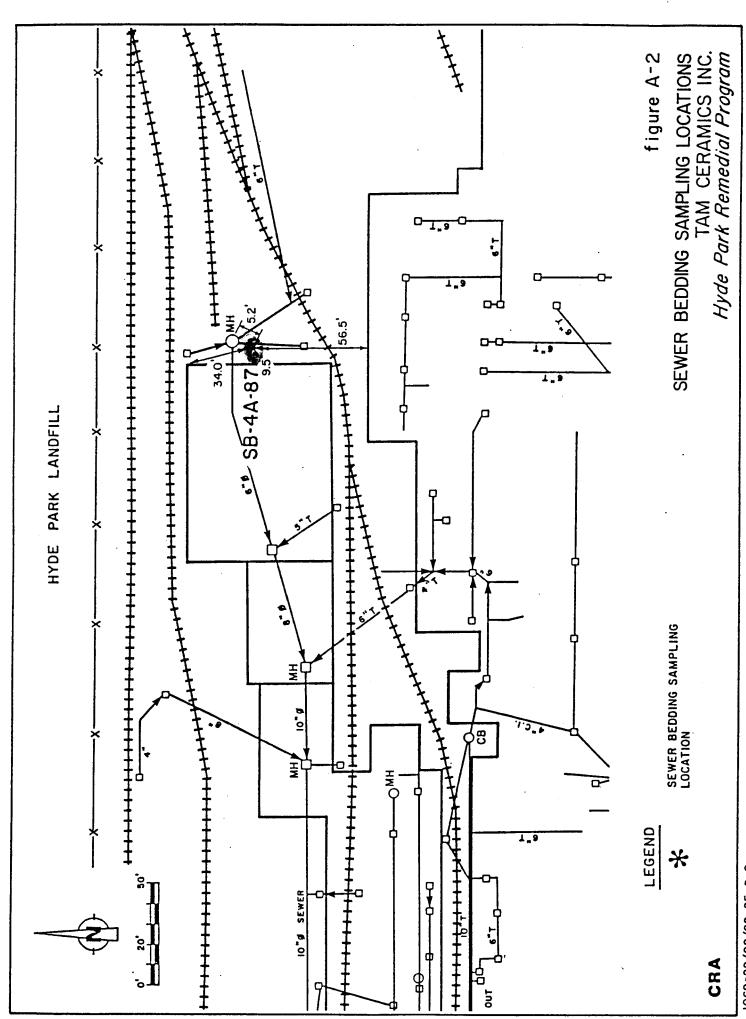
Based upon the results of the study completed, the following conclusions and recommendations have been formulated:

- NAPL is not present in the bedding of the sewers at the locations studied.
- The bedding material in the trench adjacent to the sewer pipes does not contain any Hyde Park survey parameters and consequently, the bedding is not acting as a preferential pathway for APL migration from the Landfill.
- \* Hyde Park Survey Parameters are present in the sediment at the north sewer monitoring station although the point of entry is not known.
- An RRT Study will be undertaken to determine what measures, if any, need be implemented to address the presence of Hyde Park Soil Survey Parameters in the Tam sewer sediment.

## APPENDIX A

SEWER BEDDING BOREHOLE LOCATIONS AND LOGS





1069-22/08/88-95-0-0

PROJECT NAME: HYDE PARK RRT

HOLE DESIGNATION: SB-3-87

PROJECT NO.: 1069

DATE COMPLETED: 9/3/87

CLIENT:

OCCIDENTAL

DRILLING METHOD: H.S.A. 8.0" OD

LOCATION:

NORTHWEST CORNER OF TAM, EAST OF CATCH BASIN

CRA SUPERVISOR: C. AHRENS

DEPTH	STRATICRAPHIC DESCRIPTION A DESCRIPTION		SIN CRA SUPERVISOR:		
ft BG	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft AMSL	MONITOR INSTALLATION	SAMPLE	
	GROUND ELEVATION	595.2		N S T A T E E E	يح√ت
- 2	Fill — Gray Brown Sandy fine to coarse angular Gravel, Silty, moist trace Clay, brick		BOREHOLE	1SS	11
4	Red Brown Clayey Silt and Gray Silt, thinly bedded, moist, native	592.2 591.2	CEMENT/ BENTONITE GROUT	255	6C
6	END OF HOLE AT 4.0ft BGS				
8	At completion borehole was grouted to ground surface				
10	C — sample submitted for chemical analysis				
12	•				
14					
16					
18					
20					
22					
24					
26					
NOTES	MEASURING POINT ELEVATIONS MAY CHANGE	; REFER T	O CURRENT ELEVATION TAE	BLE	
	GRAIN SIZE ANALYSIS WATER FO				

PROJECT NAME: HYDE PARK RRT

HOLE DESIGNATION: SB-4A-87

PROJECT NO.: 1069

DATE COMPLETED: 9/3/87

CLIENT:

OCCIDENTAL

DRILLING METHOD: H.S.A. 8.0" OD

LOCATION: TAM CERAMICS

GRAIN SIZE ANALYSIS

CRA SUPERVISOR: C. AHRENS

EPTH t BG	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION	MONITOR		AMPL	
		ft AMSL	INSTALLATION	M B E	S A T E	
	GROUND ELEVATION	600.1		E R	E	E
	Fill — Black and Brown Silty fine to medium Sand, Gravelly, trace Clay, moist	598.8		155	X	12
2	Fill — Brown to light Red Brown Gravelly Sand with Clayey Silt		8° BOREHOLE	2SS		,
4	Fill — Red Brown Silt, some Clay, trace fine Sand, moist	596.7 596.1	BOREHOLE	255		,
5	Fill — Brown Silty fine to medium Sand to Clayey Sand, Gravelly, moist			355	X	24
3	Red Brown Silt with trace Clay and fine Gravel, moist, native	593.7	CEMENT/ BENTONITE CROUT	4SS	X	13
, [	END OF HOLE AT 8.0ft BGS	592.1	Lagues 3		<u> </u>	
0	At completion borehole was grouted to ground surface					
2	C — sample submitted for chemical analysis					
4						
5						
3						
,						
2	·					
;						

WATER FOUND \( \sum \) STATIC WATER LEVEL \( \sum \)

PROJECT NAME: HYDE PARK RRT

PROJECT NO.: 1069

CLIENT: OCCIDENTAL

LOCATION: TAM CERAMICS

HOLE DESIGNATION: SB-4B-87

DATE COMPLETED: 9/3/87

DRILLING METHOD: H.S.A. 8.0" OD

CRA SUPERVISOR: C. AHRENS

0555			CNA SUPERVISURE		
DEPTH ft BG	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft AMSL	MONITOR INSTALLATION	SAMPLE	
	GROUND ELEVATION	600.1		NU STATE	mcr> <z< td=""></z<>
- 2	Fill — Brown and Black Silty fine to medium Sand, Gravel, brick, moist Fill — Red Brown fine Sandy Silt, trace		B* d	1SS	11
4	Clay, moist		BOREHOLE	255	5
6	Silty Clay	594.1	— CEMENT/	355	3
8	concrete piping encountered  END OF HOLE AT 8.0ft BGS	592.1		455	3
10	Borehole was grouted to ground surface after encountering pipe				
12	•				
14					
16					
8					
20					
4					
6					
NOTES	E: MEASURING POINT ELEVATIONS MAY CHANGE				

GRAIN SIZE ANALYSIS

WATER FOUND 🔽 STATIC WATER LEVEL 💌



PROJECT NAME: HYDE PARK RRT

HOLE DESIGNATION: SB8-88

PROJECT NO .:

1069

DATE COMPLETED: 3/16/88

CLIENT:

DRILLING METHOD: HSA 8.0"ø

LOCATION:

OCCIDENTAL CHEMICAL CORPORATION

CRA SUPERVISOR: D.L. TARNOWSKI

INTERSECTION OF LAFAYETTE AVENUE AND HYDE PARK BOULEVARD

GRAIN SIZE ANALYSIS

<u> </u>	HYDE PARK BOULEVARD					
DEPTH ft BG	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION			MPL	
11 66		ft AMSL	INSTALLATION	- Ü	S	,Ä,
	REFERENCE ELEVATION GROUND ELEVATION	596.1		ZOMBER	A T E	Ą L U
	Fill – dark Brown Silt and Silty Clay,	595.8	7/8/35/36	R	<del>\</del> /	Ē
	vegetation, moist		8.0° BOREHOLE	155	IX	5
- 2	Fill — Brown Silty Clay, trace fine Gravel,	594.1	BOREHOLE	·		
_	same, with trace Brown Silty Clay		CEMENT/		$\mathbb{N}$	
			CEMENT/ BENTONITE GROUT	2SS	M	17
- 4	Red Brown Clayey Silt, trace Gravel,	592.1			$\langle \cdot \rangle$	
	dry to moist, native			388	IXI	21
- 6	same, except no gravel, moist				$\square$	
	_			455	M	35
		500 4		133	$ \Lambda $	55
- 8	Red Brown, Gray and Olive Green Silty Clay,	588.1				
	trace Silt seams, moist, native			588	IXI	33
-10	END OF HOLE AT 10.0 ft. BGS	586.1	25.000.000 mg		$\vdash$	
		Ì				
-12	At completion borehole was grouted to surface.					
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-14			•			
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-16						
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-18						
-20				j		
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-24						
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26		j				
		[				
NOTE	S: MEASURING POINT ELEVATIONS MAY CHANG	E; REFER 1	TO CURRENT ELEVATION TA	BLE		

WATER FOUND V

STATIC WATER LEVEL

PROJECT NAME: HYDE PARK RRT

HOLE DESIGNATION: SB8A-88

PROJECT NO.: 1069

DATE COMPLETED: 3/16/88

CLIENT:

OCCIDENTAL CHEMICAL CORPORATION

DRILLING METHOD: HSA 8.0"#

LOCATION:

4.0 FEET NORTH OF SB8-88

CRA SUPERVISOR: D.L. TARNOWSKI

REFERENCE ELEVATION ROUND ELEVATION ROUND ELEVATION ROUND ELEVATION ROUND ELEVATION ROUND ELEVATION ROUND ELEVATION ROUND ELEVATION S96.7  Fill - Brown Silt, wood fragments, moist Fill - Brown Silt, vood fragments, moist Fill - Gray Brown Silt, Cray angular Gravel, dry to moist At same, except moist Red Brown, Gray and Olive Green Clayey Silt, trace Silt seams, moist to wet, native END OF HOLE AT 8.0 ft. BGS  At completion borehole was grouted to surface.  * - Sample submitted for chemical analysis.  NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE GRAIN SIZE ANALYSIS WATER FOUND STATIC WATER LEVEL	DEPTH	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION	MONITOR	SAMPL	Ē
Fill — Brown Silt, wood fragments, moist Fill — Brown Silty Clay, trace Gravel, moist Fill — Groy Brown Silt, Gray angular Gravel, dry to moist  Same, except moist  Same, except wet  Red Brown, Gray and Olive Green Clayey Silt, trace Silt seams, moist to wet, native END OF HOLE AT 8.0 ft. BGS  At completion borehole was grouted to surface.  * — Sample submitted for chemical analysis.  MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE  **  MOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE	ft BG				N S	
Fill - Brown Silt, wood fragments, moist Fill - Brown Silty Clay, trace Gravel, moist Fill - Brown Silty Clay, trace Gravel, moist Fill - Brown Silty Clay, trace Gravel, moist Fill - Groy Brown Silt, Gray angular Gravel, moist same, except moist same, except wet  Red Brown, Gray and Olive Green Clayey Silt, trace Silt seams, moist to wet, native END OF HOLE AT 8.0 ft. BGS  At completion borehole was grouted to surface.  * - Sample submitted for chemical analysis.  14  16  18  20  NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE			596.1		M A	ŢÜ
Fill - Gray Brown Silt, Gray angular Gravel, dry to moist  4 same, except moist  8 same, except wet  Red Brown, Gray and Olive Green Clayey Silt, trace Silt seams, moist to wet, native END OF HOLE AT 8.0 ft. BGS  10 At completion borehole was grouted to surface.  12 * - Sample submitted for chemical analysis.  14 -16 -18 -20 -22 -24 -26 -25 -25 -25 -25 -25 -25 -25 -25 -25 -25		Fill — Brown Silt, wood fragments, moist	595.8			
Fill — Gray Brown Silt, Gray angular Gravel, dry to moist same, except moist  - 4 same, except moist  - 6 same, except wet  - 7 Red Brown, Gray and Olive Green Clayey Silt, trace Silt seams, moist to wet, native  END OF HOLE AT 8.0 ft. BGS  - 10 At completion borehole was grouted to surface.  - 12 * — Sample submitted for chemical analysis.  - 14 - 16 - 18 - 20  - 22 - 24 - 26 - 25  - NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE		Fill — Brown Silty Clay, trace Gravel, moist		BOREHOLE	155	6
same, except moist  Red Brown, Gray and Olive Green Clayey Silt, trace Silt seams, moist to wet, native END OF HOLE AT 8.0 ft. BGS  At completion borehole was grouted to surface.  * - Sample submitted for chemical analysis.  * - Sample submitted for chemical analysis.  MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE	2	Fill — Gray Brown Silt, Gray angular Gravel, dry to moist	593.9	SEMENT/ BENTONITE CROUT	255	11
Red Brown, Gray and Olive Green Clayey Silt, trace Silt seams, moist to wet, native END OF HOLE AT 8.0 ft. BGS  At completion borehole was grouted to surface.  * - Sample submitted for chemical analysis.  * - Sample submitted for chemical analysis.  MOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE	- 4	same, except moist			355	8
Rea arown, moist to wet, native  END OF HOLE AT 8.0 ft. BGS  At completion borehole was grouted to surface.  * - Sample submitted for chemical analysis.  -14  -16  -18  -20  NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE	- 6	same, except wet				
Trace Silt seams, moist to wet, native  END OF HOLE AT 8.0 ft. BGS  At completion borehole was grouted to surface.  * - Sample submitted for chemical analysis.  14  16  18  20  22  24  26  NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE		Red Brown, Gray and Olive Green Clavey Silt.	589.1		4SS* X	17
At completion borehole was grouted to surface.  * - Sample submitted for chemical analysis.  -14 -16 -18 -20 -22 -24 -26  MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE	- 8	trace Silt seams, moist to wet, native	588.1			
At completion borehole was grouted to surface.  * - Sample submitted for chemical analysis.  -14 -16 -18 -20 -22 -24 -26  MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE		END OF HOLE AT 8.0 ft. BGS				
surface.  * - Sample submitted for chemical analysis.  -14 -16 -18 -20 -22 -24 -26  NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE	-10					
* - Sample submitted for chemical analysis.  -14 -16 -18 -20 -22 -24 -26  MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE						
NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE	-12	* — Sample submitted for chemical analysis.	·			
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-20 -22 -24 -26  NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE	-16					
22 24 26 NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE	-18					
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	·26					
	NOTE	S. MEASIRING POINT ELEVATIONS MAY CHANG	F. BEEED 1	TO CURRENT ELEVATION TA	ADI E	
	1012					

APPENDIX B

ANALYTICAL RESULTS - SEWER BEDDING AND SEDIMENT

#### Occidental Chemical Corporation Hyde Park TAM Sewer and Bedding Samples

	Sample Sample	Date: Description:	9/03/87 SB3	9/03/87 SB4A	9/03/87 SMS1 (SWR MNTR STA)	3/16/88 SB9-88	3/16/88 SB8A-88
Analytes	<u>Units</u>	Survey Limits					
Chlorobenzene	ug/Kg	10	ND	ND	73	ND	ND
Monochlorotoluenes	ug/Kg	10	ND	ND	4,140	ND	ND
Hexachlorobenzene	ug/Kg	100	ND	ND	1,830	ND	ND
2,4,5-Trichlorophenol	ug/Kg	100	ND	ND	282	ND	ND