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April 22, 2003

10334

Alameda County  
APR 30 2003  
Environmental Health

Mr. Amir Gholami  
Hazardous Materials Specialists  
Alameda County Health Care Services  
1131 Harbor Bay Parkway, Suite 250  
Alameda, California 94502-6577

Clayton Project No.70-97066.00.001

Subject: First Quarter 2003 Groundwater Monitoring Results for the property at  
630 29<sup>th</sup> Avenue in Oakland, California

Dear Mr. Gholami:

Clayton is pleased to present the results for the First Quarter 2003 groundwater monitoring event performed at 630 29<sup>th</sup> Avenue in Oakland, California.

If you have any comments or questions regarding the report please contact the undersigned (925) 426-2600.

Sincerely,

A handwritten signature in black ink, appearing to read "Mike Krzeminski".

Mike Krzeminski  
Environmental Consultant  
Environmental Services

A handwritten signature in black ink, appearing to read "Jon A. Rosso".

Jon A. Rosso, P.E.  
Director  
Environmental Services

WBC/mk

cc: Donna Profitt  
Rita Repko

Bank of America  
Clayton

*Alameda County  
APR 30 2003  
Environmental Health*

**First Quarter 2003  
Groundwater Monitoring Results  
for the  
Former Lemoine Sausage Facility  
630 29<sup>th</sup> Avenue  
Oakland, California**

**Clayton Project No. 70-97066.00**

**April 22, 2003**

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## 1. INTRODUCTION

Clayton Group Services, Inc., (Clayton) has prepared this quarterly groundwater monitoring report to document the results of the First Quarter, 2003 groundwater monitoring event for the former Lemoine Sausage Facility located at 630 29<sup>th</sup> Avenue in Oakland, California (Figure 1). The groundwater monitoring is performed pursuant a request from the Alameda County Health Services (ACHS) in a letter dated June 19, 1999. Groundwater monitoring is required due to past releases from a former gasoline underground storage tank (UST) previously located beneath the sidewalk adjacent to the subject property. The purpose of the groundwater monitoring is to determine groundwater flow conditions and water quality beneath the site. Groundwater samples are collected and analyzed for Total Petroleum Hydrocarbons as Gasoline (TPH-g) and associated compounds Benzene, Toluene, Ethylbenzene and total Xylenes (BTEX) and the former gasoline fuel additive 1,2-Dichloroethane (1,2-DCA).

As directed by the ACHS, groundwater monitoring is being performed on a quarterly basis. This First Quarter 2003 Groundwater Monitoring Report documents field activities, and presents data used to determine the groundwater elevation and gradient at the site. Laboratory data are presented and indicate the groundwater concentrations of dissolved hydrocarbons in the vicinity of the subject property.

## 2. SITE DESCRIPTION AND HISTORY

A single 1,000-gallon gasoline UST and associated plumbing/piping were formerly located beneath the sidewalk of 7<sup>th</sup> Street and adjacent (east) of the subject property building. The associated fuel dispenser was located in a "cubby hole" near the building's roll-up door. The UST and associated piping were removed on November 21, 1996 and confirmation soil samples were collected. A petroleum hydrocarbon sheen was noted on top of groundwater and petroleum hydrocarbons were detected in the confirmation soil samples collected at the time of the UST removal.

Subsequent groundwater investigations were performed and eight groundwater monitoring wells have been installed into the first encountered water bearing zone to test groundwater conditions at the site. The locations of the monitoring wells were selected to define the vertical and lateral extent of petroleum hydrocarbons within groundwater at the site. First encountered water beneath the site occurs in predominantly low permeability clayey and sandy silt, at depths ranging from 3.5 to 8.5 feet below street grade.

In addition, during the testing for 1,2-DCA, several non-gasoline related halogenated volatile organic compounds (VOCs) were detected in the groundwater samples from wells located in the southern portion of the site. The source of non-gasoline related VOCs has not been discerned, and are mostly likely due to an off-site source.

### **3. GROUNDWATER MONITORING FIELD ACTIVITIES**

The following discussion describes field methods used to obtain depth to water measurements, and collect groundwater samples. Field activities were performed on March 28, 2003. Groundwater samples were collected from nine monitoring wells (MW-1, MW-2, MW-7, MW-8, MW-9, MW-10, MW-11, MW-12 and MW-13). Access to monitoring well MW-6 was restricted due to the presence of a car parked over the well; therefore, depth to water measurements and sampling of MW-6 was not performed during the First Quarter 2003 groundwater monitoring event.

#### **3.1. GROUNDWATER LEVEL MEASUREMENTS**

Depth to water was measured in each monitoring well to determine the groundwater elevation, gradient and flow direction. The depth to water in each monitoring well was measured on March 28, 2003, with an electronic water level probe. The depth to water in each monitoring well was measured from the surveyed reference elevation represented as a V-notch at the top of the well casing (TOC) to the water surface within the well casing. By subtracting the measured depth to water from the TOC elevation in each monitoring well, the groundwater elevation at each monitoring point was calculated.

#### **3.2. GROUNDWATER PURGING**

Two monitoring wells (MW-1 and MW-2) are constructed with ¾-inch diameter PVC well casings and eight monitoring wells (MW-6 through MW-13) are constructed with 2-inch diameter PVC well casings. Prior to collecting a groundwater sample from each monitoring well, approximately four well casing volumes of water were removed or the well casing was purged dry. The ¾-inch diameter wells were purged using a peristaltic pump and ¼-inch polytubing, and the 2-inch diameter wells were purged by a submersible pump, or by hand bailing with a 1-liter Teflon bailer attached to nylon bailer twine. Water quality parameters (pH, specific conductivity, and temperature) were measured and recorded onto field sampling data sheets. Water quality parameter measurements were taken prior to purging and after removing each well casing volume of water from the monitoring well.

The purge volume from each monitoring well was determined from multiplying the nominal cross-sectional area of the well casing by the water column within each well casing. The water column height in each well was determined from subtracting the groundwater elevation from the well casing bottom elevation (known from well construction details).

Field logs documenting water level measurements and well purging and sampling for the First Quarter 2003 monitoring event are presented in Appendix A. Groundwater purged from monitoring wells during sampling was stored onsite in sealed USDOT approved 55-gallon drums, labeled with identifying information, manifested and removed from the site by a licensed hauler.

### 3.3. GROUNDWATER SAMPLING

Prior to collecting a groundwater sample from each monitoring well, the well was allowed to recharge to 80-percent of the pre-purged well casing water volume. Groundwater samples for laboratory analyses were retrieved using either a peristaltic pump with polytubing or a disposable bailer. The groundwater retrieved for analyses was transferred into appropriately sized and preserved laboratory supplied containers. Sample containers were sealed, labeled with identifying information, logged onto the chain-of-custody, and temporarily stored in a chilled ice-chest while awaiting transportation to the laboratory.

### 3.4. LABORATORY ANALYSES

Groundwater samples were submitted to the State of California certified Curtis and Tompkins Laboratories of Berkeley, California for laboratory analyses. The samples were analyzed by one or more of the following United States Environmental Protection Agency (USEPA) approved analytical methods:

- USEPA Method 8015M for Total Petroleum Hydrocarbons as Gasoline (TPH-g)
- USEPA Method 8020 for Aromatic Hydrocarbons (Benzene, Toluene, Ethylbenzene, and total Xylenes [BTEX]), and
- USEPA Method 8010 for Halogenated Volatile Organic Compounds (VOCs).

Certified analytical data sheets and chain-of-custody documentation for the First Quarter 2003 groundwater-sampling event are presented in Appendix B.

## 4. FINDINGS

The following discussion presents an interpretation of groundwater flow conditions and water quality at the site based on the results obtained from field measurements and laboratory analyses.

### 4.1. GROUNDWATER FLOW CONDITIONS

A site piezometric surface (water table) map was produced by using the surveyed monitoring well coordinates and contouring the corresponding groundwater elevation data. The magnitude of the local groundwater gradient was determined using groundwater elevations from monitoring wells MW-10 and MW-12. The direction of groundwater flow is inferred to be perpendicular to the piezometric equipotential contours. For the First Quarter 2003 monitoring event, the groundwater gradient was determined to be 0.015 feet per foot (ft/ft) towards the west.

Historical depth to water measurements and groundwater elevation data are presented on Table 1. The First Quarter 2003 groundwater elevation contour map with the groundwater flow direction indicated is presented on Figure 2.

## 4.2. PETROLEUM AND AROMATIC HYDROCARBONS

The frequency and range of petroleum hydrocarbons detected in groundwater samples are as follows:

- TPH-g was detected in 6 of 9 samples tested, and ranged in concentration from 110 micrograms per liter ( $\mu\text{g/L}$ ) to 61,000  $\mu\text{g/L}$ .
- Benzene was detected in 5 of 9 samples tested, and ranged in concentration from 55  $\mu\text{g/L}$  to 13,000  $\mu\text{g/L}$ .
- Toluene was detected in 3 of 9 samples tested, and ranged in concentration from 920  $\mu\text{g/L}$  to 8,600  $\mu\text{g/L}$ .
- Ethylbenzene was detected in 5 of 9 samples tested, and ranged in concentration from 50  $\mu\text{g/L}$  to 930  $\mu\text{g/L}$ .
- Total Xylenes was detected in 5 of 9 samples tested, and ranged in concentration from 0.62  $\mu\text{g/L}$  to 4,800  $\mu\text{g/L}$ .

A summary of petroleum hydrocarbons and VOCs detected in groundwater samples are presented on Table 2. The concentrations of TPH-g and benzene detected in groundwater samples collected from monitoring wells for the First Quarter 2003 monitoring event are presented in Figures 3a and 3b, respectively.

## 4.3. HALOGENATED VOLATILE ORGANIC COMPOUNDS

The frequency and range of VOCs detected in groundwater samples are as follows:

- 1,2-Dichloroethane (1,2-DCA) was detected in 1 of 9 samples tested, and was detected at a concentration of 14  $\mu\text{g/L}$ .
- Trichloroethene (TCE) was detected in 3 of 9 samples tested, and ranged in concentration from 3.5  $\mu\text{g/L}$  to 190  $\mu\text{g/L}$ .
- Cis 1,2-Dichloroethene (cis 1,2-DCE) was detected in 3 of 9 samples tested, and ranged in concentration from 53  $\mu\text{g/L}$  to 700  $\mu\text{g/L}$ .
- Trans 1,2-Dichloroethene (trans 1,2-DCE) was detected in 3 of 9 samples tested, and ranged in concentration from 13  $\mu\text{g/L}$  to 53  $\mu\text{g/L}$ .
- Vinyl Chloride (VC) was detected in 3 of 9 samples tested, and ranged in concentration from 0.9  $\mu\text{g/L}$  to 41  $\mu\text{g/L}$ .

The concentrations of TCE (contoured) and 1,2-DCE detected in groundwater samples collected from monitoring wells for the First Quarter 2003 monitoring event are presented in Figure 4.

## 5. CONCLUSION

The groundwater gradient determined for the First Quarter 2003 monitoring event was found to be 0.015 ft/ft to the west, and is consistent with past determinations. The highest concentrations of TPH-g and benzene occur beneath the central portion of the subject building in the area of monitoring wells MW-1, MW-2 and MW-9. The locations of monitoring wells MW-7 and MW-10 define the western, and eastern-northern edge of the hydrocarbon plume. The distribution of the former gasoline fuel additive 1,2-DCA appears to be associated with the petroleum hydrocarbon release.

The highest concentrations of TPH-g and BTEX compounds have increased from last sampling event to levels resembling those found prior to the bioremediation efforts implemented at the site (in May 2002) that included ORC placement in the former UST pit and hydrogen peroxide injection within select monitoring wells. Concentrations of these compounds in the down gradient wells (MW-7, MW-11, MW-12, and MW-13) have either maintained or slightly decreased from the concentrations detected in the previous sampling event.

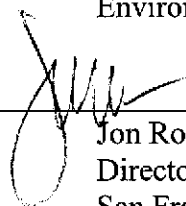
Non gasoline related chlorinated volatile organic compounds TCE, cis-1,2-DCE, trans-1,2-DCE and VC were detected in groundwater samples collected from monitoring wells MW-8, MW-12, and MW-13. Throughout the site, concentrations of these compounds are less widely distributed than previously found, as indicated by non detected concentrations of these compounds in monitoring wells MW-2, MW-6, MW-7, MW-10, and MW-11; however, the concentrations that were detected either maintained or slightly increased from those detected in the previous sampling event. The source of TCE and 1,2-DCE are unknown and appear to be originating off-site.

Report prepared by: \_\_\_\_\_



Mike Krzeminski  
Environmental Consultant

Report reviewed by: \_\_\_\_\_



Jon Rosso, P.E.  
Director, Environmental Services  
San Francisco Regional Office

April 22, 2003



Table 1

Summary of Groundwater Elevation Data  
 Former Lemoine Sausage Facility  
 630 29th Avenue  
 Oakland, California

Well Identification	Date Measured	Top of Casing Elevation (ft,msl)	Depth to Water (feet)	Groundwater Elevation (ft,msl)
MW-1	3/28/2003	16.69	4.44	12.25
	12/16/2002		3.91	12.78
	9/11/2002		6.17	10.52
	6/28/2002		5.61	11.08
	3/25/2002		2.77	13.92
	12/3/2001		4.17	12.52
	9/25/2001		6.76	9.93
	6/20/2001		5.85	10.84
	3/21/2001		4.29	12.40
	12/19/2000		5.50	11.19
	9/22/2000		6.30	10.39
	6/15/2000		4.82	11.87
	2/8/1999		3.60	13.09
MW-2	3/28/2003	20.79	10.27	10.52
	12/16/2002		11.15	9.64
	9/11/2002		10.89	9.90
	6/28/2002		10.65	10.14
	3/25/2002		9.21	11.58
	12/3/2001		11.13	9.66
	9/25/2001		11.78	9.01
	6/20/2001		10.92	9.87
	3/21/2001		10.01	10.78
	12/19/2000		11.38	9.41
	9/22/2000		11.49	9.30
	6/15/2000		10.46	10.33
	2/8/1999		14.20	6.59
MW-3	Removed from monitoring program in October 2001			
	9/25/2001	21.10	10.74	10.36
	6/20/2001		10.14	10.96
	3/21/2001		8.95	12.15
	12/19/2000		9.72	11.38
	9/22/2000		15.30	5.80
	6/15/2000		10.56	10.54
	2/8/1999		7.45	13.65

Table 1

Summary of Groundwater Elevation Data  
 Former Lemoine Sausage Facility  
 630 29th Avenue  
 Oakland, California

Well Identification	Date Measured	Top of Casing Elevation (ft,msl)	Depth to Water (feet)	Groundwater Elevation (ft,msl)
MW-4	Removed from monitoring program in October 2001			
	9/25/2001	17.78	7.40	10.38
	6/20/2001		6.78	11.00
	3/21/2001		5.77	12.01
	12/19/2000		6.40	11.38
	9/22/2000		6.90	10.88
	6/15/2000		6.30	11.48
	2/8/1999		4.13	13.65
MW-5	Removed from monitoring program in October 2001			
	9/25/2001	21.12	10.34	10.78
	6/20/2001		9.90	11.22
	3/21/2001		8.68	12.44
	12/19/2000		9.99	11.13
	9/22/2000		9.99	11.13
	6/15/2000		10.36	10.76
	2/8/1999		7.62	13.50
MW-6	3/28/2003	16.60	NM	
	12/16/2002		3.93	12.67
	9/11/2002		5.43	11.17
	6/28/2002		5.83	10.77
	3/25/2002		3.93	12.67
	12/3/2001		4.72	11.88
	9/25/2001		6.68	9.92
	6/20/2001		6.13	10.47
	3/21/2001		4.70	11.90
	12/19/2000		5.93	10.67
	9/22/2000		6.54	10.06
6/15/2000		5.47	11.13	
MW-7	3/28/2003	15.47	5.68	9.79
	12/16/2002		5.01	10.46
	9/11/2002		6.95	8.52
	6/28/2002		6.94	8.53
	3/25/2002		6.04	9.43
	12/3/2001		6.48	8.99
	9/25/2001		7.25	8.22
	6/20/2001		6.90	8.57
	3/21/2001		5.53	9.94
	12/19/2000		7.20	8.27
	9/22/2000		7.51	7.96
6/15/2000		6.40	9.07	

Table 1

Summary of Groundwater Elevation Data  
 Former Lemoine Sausage Facility  
 630 29th Avenue  
 Oakland, California

Well Identification	Date Measured	Top of Casing Elevation (ft,msl)	Depth to Water (feet)	Groundwater Elevation (ft,msl)
MW-8	3/28/2003	17.58	6.62	10.96
	12/16/2002		5.63	11.95
	9/11/2002		8.40	9.18
	6/28/2002		7.71	9.87
	3/25/2002		5.40	12.18
	12/3/2001		6.58	11.00
	9/25/2001		8.89	8.69
	6/20/2001		7.96	9.62
	3/21/2001		6.40	11.18
	12/19/2000		7.71	9.87
	9/22/2000		8.33	9.25
6/15/2000	7.14	10.44		
MW-9	3/28/2003	17.58	6.08	11.50
	12/16/2002		6.58	11.00
	9/11/2002		6.91	10.67
	6/28/2002		7.71	9.87
	3/25/2002		4.98	12.63
	12/3/2001		5.79	11.82
MW-10	3/28/2003	16.92	4.54	12.38
	12/16/2002		3.74	13.18
	9/11/2002		6.16	10.76
	6/28/2002		5.65	11.27
	3/25/2002		3.00	13.92
	12/3/2001		4.22	12.70
MW-11	3/28/2003	14.87	5.17	9.70
	12/16/2002		3.92	10.95
	9/11/2002		6.91	7.96
	6/28/2002		6.35	8.52
	3/25/2002		4.68	10.19
	12/3/2001		5.67	9.20

Table 1

Summary of Groundwater Elevation Data  
 Former Lemoine Sausage Facility  
 630 29th Avenue  
 Oakland, California

Well Identification	Date Measured	Top of Casing Elevation (ft,msl)	Depth to Water (feet)	Groundwater Elevation (ft,msl)
MW-12	3/28/2003	14.05	5.08	8.97
	12/16/2002		4.94	9.11
	9/11/2002		6.82	7.23
	6/28/2002		6.13	7.92
MW-13	3/28/2003	13.39	5.34	8.05
	12/16/2002		3.90	9.49
	9/11/2002		6.66	6.73
	6/28/2002		6.21	7.18

Notes:

1. All top of casing elevations referenced to mean sea level (msl) and measured with reference to the benchmark located at Peterson Street and East 7<sup>th</sup> Street.
2. NM = Not Measured

Table 2

**Summary of Monitoring Well Groundwater Analytical Data  
Former Lemoine Sausage Facility  
630 29th Avenue  
Oakland, California**

Sample Location	Date Sampled	TPHG	MTBE	Benzene	Toluene	Ethyl benzene	Total Xylenes	1,2-DCA	TCE	cis-1,2 DCE	trans-1,2-DCE	VC
MW-1	3/28/2003	20,000	NA	2,700	1,500	650	2,300	<3.6	<3.6	<3.6	<3.6	<3.6
	12/16/2002	20,000	NA	2,800	490	500	2,300	<4.2	<4.2	<4.2	<4.2	<4.2
	9/11/2002	27,000	NA	3,200	1,900	720	3,500	<4.2	<4.2	<4.2	<4.2	<4.2
	6/28/2002	26,000	NA	3,200	1,800	640	2,900	<3.1	<3.1	<3.1	<3.1	<3.1
	3/25/2002	11,000	NA	3,200	1,200	73	1,860	<5	<5	<5	<5	<5
	12/3/2001	15,000	NA	2,800	1,200	310	1,660	<3.1	<3.1	<3.1	<3.1	<3.1
	9/26/2001	16,000	NA	1,100	130	< 10	320	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
	6/21/2001	12,000	NA	2,000	880	180	1,180	3.0	<0.5	<0.5	<0.5	<0.5
	3/21/2000	21,000	NA	3,200	1,700	290	2,600	<2.5	<2.5	<2.5	<2.5	<2.5
	12/19/2000	25,000	NA	3,200	1,900	480	3,300	<2.5	<2.5	<2.5	<2.5	<2.5
	9/22/2000	25,000	<500	3,100	1,800	470	3,600	NA	NA	NA	NA	NA
	6/15/2000	29,000	NA	3,900	<100	1,900	4,200	<5.0	<5.0	<5.0	<5.0	<5.0
	2/8/1999	48,000	NA	3,900	6,300	970	4,300	<30	NA	NA	NA	NA
MW-2	3/28/2003	30,000	NA	9,300	920	930	2,000	14	<13	<13	<13	<13
	12/16/2002	6,000	NA	1,600	410	150	402	2.7	4.5	69	6.9	<2.5
	9/11/2002	23,000	NA	6,600	1,000	600	1,320	10	<6.3	<6.3	<6.3	<6.3
	6/28/2002	8,400	NA	2,200	680	21	220	8.8	<3.1	<3.1	<3.1	<3.1
	3/25/2002	21,000	NA	11,000	3,700	1,000	2,790	<17	<17	<17	<17	<17
	12/3/2001	45,000	NA	13,000	5,100	950	2,930	14	<7.1	<7.1	<7.1	<7.1
	9/26/2001	26,000	NA	12,000	3,900	590	1,960	11	< 10	< 10	< 10	< 10
	6/21/2001	30,000	NA	8,600	2,600	440	1,230	5.6	<0.5	<0.5	<0.5	<0.5
	3/23/2001	34,000	NA	10,000	3,200	410	1,220	14	<13	<13	<13	<13
	12/19/2000	43,000	NA	9,800	4,000	810	2,430	21	<13	<13	<13	<13
	9/22/2000	24,000	<500	10,000	2,700	370	1,200	NA	NA	NA	NA	NA
	6/29/2000	31,000	NA	11,000	930	4,400	250	25	<5.0	<5.0	<5.0	<5.0
	2/8/1999	41,000	NA	11,000	4,900	650	1,720	60	NA	NA	NA	NA

Table 2

**Summary of Monitoring Well Groundwater Analytical Data  
Former Lemoine Sausage Facility  
630 29th Avenue  
Oakland, California**

Sample Location	Date Sampled	TPHG	MTBE	Benzene	Toluene	Ethyl benzene	Total Xylenes	1,2-DCA	TCE	cis-1,2-DCE	trans-1,2-DCE	VC
<b>MW-3</b>	Removed from sampling program in October 2001											
	9/26/2001	59,000	NA	12,000	13,000	780	3,680	990	< 8.3	< 8.3	< 8.3	< 8.3
	6/21/2001	34,000	NA	5,900	6,200	340	1,550	120	2.4	0.8	<0.5	<0.5
	3/22/2001	1,300	NA	98	67	51	104	2.3	<0.5	<0.5	<0.5	<0.5
	12/19/2000	50,000	NA	1,200	1,600	510	1,810	350	<8.3	<8.3	<8.3	<8.3
	9/22/2000	83,000	<1,000	16,000	20,000	1,300	7,000	NA	NA	NA	NA	NA
	6/29/2000	39,000	NA	7,800	630	8,000	3,400	600	<5.0	<5.0	<5.0	<5.0
	2/8/1999	35,000	NA	1,200	3,400	1,400	4,900	<30	NA	NA	NA	NA
<b>MW-4</b>	Removed from sampling program in October 2001											
	9/26/2001	17,000	NA	7,900	< 50	440	581	1.9	< 0.5	8.1	< 0.5	< 0.5
	6/21/2001	11,000	NA	2,300	26	570	641	1.4	<0.5	3.3	<0.5	<0.5
	3/22/2001	5,600	NA	1,100	13	310	303	<0.5	<0.5	1.6	<0.5	<0.5
	12/19/2000	2,200	NA	200	2.9	100	81.4	<0.5	<0.5	<0.5	<0.5	<0.5
	9/22/2000	12,000	<500	2,800	82	1,100	1,300	NA	NA	NA	NA	NA
	6/15/2000	2,300	NA	230	<5	10	94	0.88	<0.5	2.1	<0.5	<0.5
	2/8/1999	15,000	NA	670	90	780	940	<30	NA	NA	NA	NA
<b>MW-5</b>	Removed from sampling program in October 2001											
	9/26/2001	5,100	NA	2,400	1,200	< 10	460	22	< 3.6	< 3.6	< 3.6	< 3.6
	6/21/2001	18,000	NA	3,400	2,300	350	1,020	21	<0.5* <sup>3</sup>	<0.5	<0.5	<0.5
	3/22/2001	6,200	NA	1,500	360	310	288	3.3	<0.5	<0.5	<0.5	<0.5
	12/19/2000	21,000	NA	3,200	1,100	1,100	1,300	15	<4.2	<4.2	<4.2	<4.2
	9/27/2000	16,000	<500	4,300	3,100	420	1,600	NA	NA	NA	NA	NA
	6/29/2000	3,900	NA	1,500	28	330	260	36	<0.5	<0.5	<0.5	<0.5
	2/8/1999	4,900	NA	780	440	230	370	<0.5	<0.5	<0.5	<0.5	<0.5

Table 2

**Summary of Monitoring Well Groundwater Analytical Data  
Former Lemoine Sausage Facility  
630 29th Avenue  
Oakland, California**

Sample Location	Date Sampled	TPHG	MTBE	Benzene	Toluene	Ethyl benzene	Total Xylenes	1,2-DCA	TCE	cis-1,2 DCE	trans-1,2-DCE	VC
MW-6	3/28/2003	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/16/2002	62	NA	< 0.5	0.54	3.0	8.39	1.0* <sup>4</sup>	0.7	< 0.5	< 0.5	< 0.5
	9/11/2002	120	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5* <sup>4</sup>	< 0.5	< 0.5	< 0.5	< 0.5
	6/28/2002	120	NA	< 0.5	< 0.5	< 0.5	< 0.5	0.6	< 0.5	< 0.5	< 0.5	< 0.5
	3/25/2002	1,200	NA	22	8.0	5.7	13.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	12/3/2001	72	NA	< 0.5	< 0.5	< 0.5	< 0.5	1.6* <sup>5</sup>	< 0.5	< 0.5	< 0.5	< 0.5
	9/25/2001	760	NA	< 0.5	< 0.5	< 0.5	2.9	< 0.5* <sup>4</sup>	< 0.5	< 0.5	< 0.5	< 0.5
	6/21/2001	420	NA	< 0.5	< 0.5	0.59	1.00	0.9	< 0.5	< 0.5	< 0.5	< 0.5
	3/21/2001	820	NA	< 0.5	< 0.5	1.4	0.52	< 0.5* <sup>2</sup>	< 0.5	< 0.5	< 0.5	< 0.5
	12/19/2000	320	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5* <sup>1</sup>	< 0.5	< 0.5	< 0.5	< 0.5
	9/22/2000	71	< 5	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA	NA
	6/15/2000	1,100	NA	3.8	2.2	2.1	4.8	0.78	< 0.5	< 0.5	< 0.5	< 0.5
	MW-7	3/28/2003	< 50	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
12/16/2002		< 50	NA	< 0.5	< 0.5	1.6	3.7	< 0.5	0.5	< 0.5	< 0.5	< 0.5
9/11/2002		< 50	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
6/28/2002		< 50	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
3/25/2002		< 50	NA	0.56	0.75	< 0.5	0.69	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
12/3/2001		82	NA	24	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
9/25/2001		< 50	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
6/21/2001		< 50	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
3/21/2001		160	NA	59	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
12/19/2000		< 50	NA	1.6	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
9/22/2000		< 50	< 5	2	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	NA	NA
6/15/2000		1,000	NA	250	< 10	< 10	16	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5

Table 2

**Summary of Monitoring Well Groundwater Analytical Data  
Former Lemoine Sausage Facility  
630 29th Avenue  
Oakland, California**

Sample Location	Date Sampled	TPHG	MTBE	Benzene	Toluene	Ethyl benzene	Total Xylenes	1,2-DCA	TCE	cis-1,2 DCE	trans-1,2-DCE	VC
MW-8	3/28/2003	1,500	NA	400	<0.5	50	0.62	<2.5	3.5	700	39	41
	12/16/2002	95	NA	26	<0.5	1	<0.5	2.2	17	330	36	4.7
	9/11/2002	2,000	NA	390	1.6	39	<1.0	<3.6	17	1,000	60	91
	6/28/2002	2,200	NA	410	<1.0	40	<1.0	4.9	18	900	54	80
	3/25/2002	990	NA	280	7.2	1.4	6.8	3.6	10	790	33	49
	12/3/2001	1,200	NA	190	14	2.7	11.3	<2.5	100	650	44	31
	9/25/2001	1,500	NA	170	4.3	1.6	2.7	5.0	36	820	59	53
	6/21/2001	2,400	NA	490	<2.5	29	<2.5	4.9	28	910	48	75
	3/21/2001	3,500	NA	530	<2.5	21	<2.5	<3.6	32	760	39	58
	12/19/2000	2,700	NA	410	<2.5	4.8	<2.5	9.1	130	1,000	67	48
	9/22/2000	1,800	<25	340	<2.5	<2.5	<2.5	NA	NA	NA	NA	NA
	6/15/2000	5,400	NA	150	<5	8.9	8.7	<13	210	1,100	73	25
MW-9	3/28/2003	61,000	NA	13,000	8,600	860	4,800	<20	<20	<20	<20	<20
	12/16/2002	29,000	NA	5,500	3,900	300	1,860	8.9	<5	<5	<5	<5
	9/11/2002	57,000	NA	8,300	6,100	340	4,700	18	<10	<10	<10	<10
	6/28/2002	60,000	NA	5,800	7,400	1,100	5,400	<13	<13	<13	<13	<13
	3/25/2002	71,000	NA	15,000	17,000	1,900	8,000	<31	<31	<31	<31	<31
	12/3/2001	90,000	NA	15,000	15,000	2,200	9,100	<10	<10	<10	<10	<10
MW-10	3/28/2003	<50	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	12/16/2002	<50	NA	<0.5	0.65	3.0	7.53	<0.5	0.8	<0.5	<0.5	<0.5
	9/11/2002	<50	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	6/28/2002	<50	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	3/25/2002	51	NA	2.5	3.6	0.53	2.27	<0.5	<0.5	<0.5	<0.5	<0.5
	12/3/2001	<50	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5



Table 2

**Summary of Monitoring Well Groundwater Analytical Data  
Former Lemoine Sausage Facility  
630 29th Avenue  
Oakland, California**

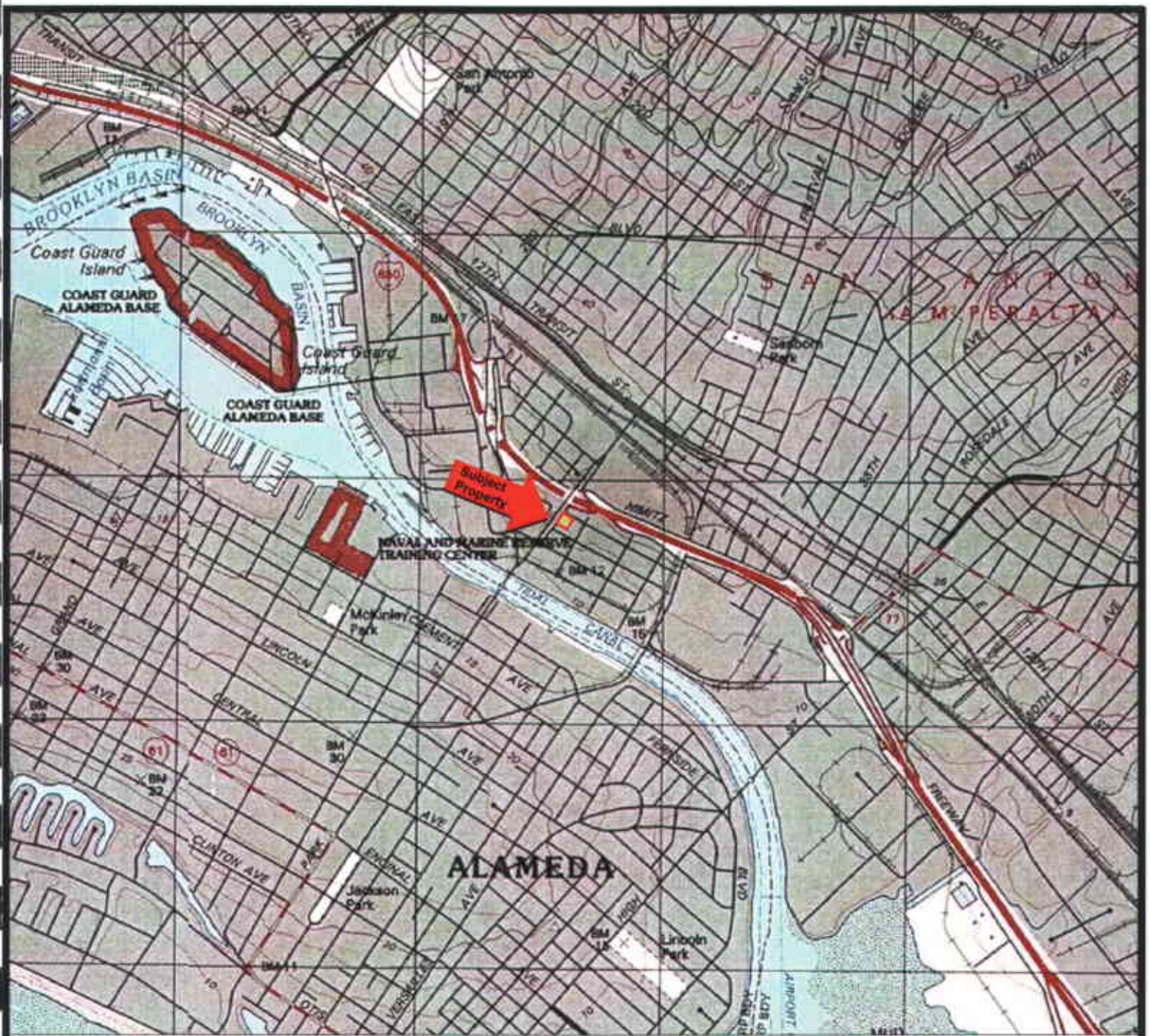
Sample Location	Date Sampled	TPHG	MTBE	Benzene	Toluene	Ethyl benzene	Total Xylenes	1,2-DCA	TCE	cis-1,2 DCE	trans-1,2-DCE	VC
MW-11	3/28/2003	<50	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	12/16/2002	160	NA	42	0.89	4.8	11.1	<0.5	3.6	1.1	<0.5	<0.5
	9/11/2002	120	NA	66	<0.5	0.74	<0.5	<0.5	<0.5	0.6	<0.5	<0.5
	6/28/2002	<50	NA	7.7	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	<0.5	<0.5
	3/25/2002	130	NA	11	20	3.3	14.5	<0.5	<0.5	<0.5	<0.5	<0.5
	12/3/2001	1,600	NA	470	<0.5	3.7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW-12	3/28/2003	110	NA	<0.5	<0.5	<0.5	<0.5	<0.7	190	53	53	0.9
	12/16/2002	130	NA	<0.5	0.9	4.2	9.9	<0.5	200	57	60	0.9
	9/11/2002	89	NA	<0.5	<0.5	<0.5	<0.5	<0.5	180	46	51	0.9
	6/28/2002	71	NA	<0.5	<0.5	<0.5	<0.5	<0.5	170	42	47	0.9
MW-13	3/28/2003	4,400	NA	55	<0.5	51	14.3	<0.5	85 <sup>*8</sup>	150	13	1.8
	12/16/2002	4,800	NA	90	<0.5	85	24	<0.5	76	250	9.4	1.8
	9/11/2002	4,500	NA	58	7.5	150	14	<0.5	63 <sup>*7</sup>	410	13	<1.3
	6/28/2002	5,600	NA	120	55	130	9.5	<0.5	61 <sup>*6</sup>	430	14	4.4

Notes:

1. All results in micrograms per liter ( $\mu\text{g/L}$ ).
2. NA = Not Analyzed.
3. NS = Not Sampled
4. 1,2-DCA = 1,2-dichloroethane.
5. TPHG = Total Petroleum Hydrocarbons as Gasoline.

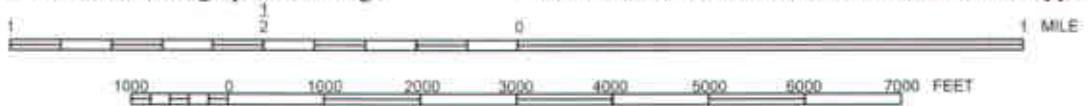
6. MTBE = methyl tert-butyl ether.
7. TCE = Trichloroethene.
8. DCE = Dichloroethene.
9. VC= Vinyl Chloride.

- \*<sup>1</sup> 1,1-DCA detected at 1.1  $\mu\text{g/L}$ .
- \*<sup>2</sup> 1,1-DCA detected at 0.9  $\mu\text{g/L}$ .
- \*<sup>3</sup> Freon -11 detected at 0.6  $\mu\text{g/L}$ .
- \*<sup>4</sup> 1,1-DCA detected at 0.9  $\mu\text{g/L}$ .
- \*<sup>5</sup> 1,1-DCA detected at 0.7  $\mu\text{g/L}$ .
- \*<sup>6</sup> 1,1-DCE detected at 4.7  $\mu\text{g/L}$ .
- \*<sup>7</sup> 1,1-DCE detected at 5.2  $\mu\text{g/L}$ .
- \*<sup>8</sup> 1,1-DCE detected at 1.9  $\mu\text{g/L}$ .



Map Source: TOPO! © 2000 National Geographic Holdings

Note: Boundaries and Location Information is Approximate



Portion of the 7.5-Minute Series Oakland East, California  
 Quadrangle Topographic Map (Datum: NAD 27)  
 United States Department of the Interior  
 Geological Survey  
 1997



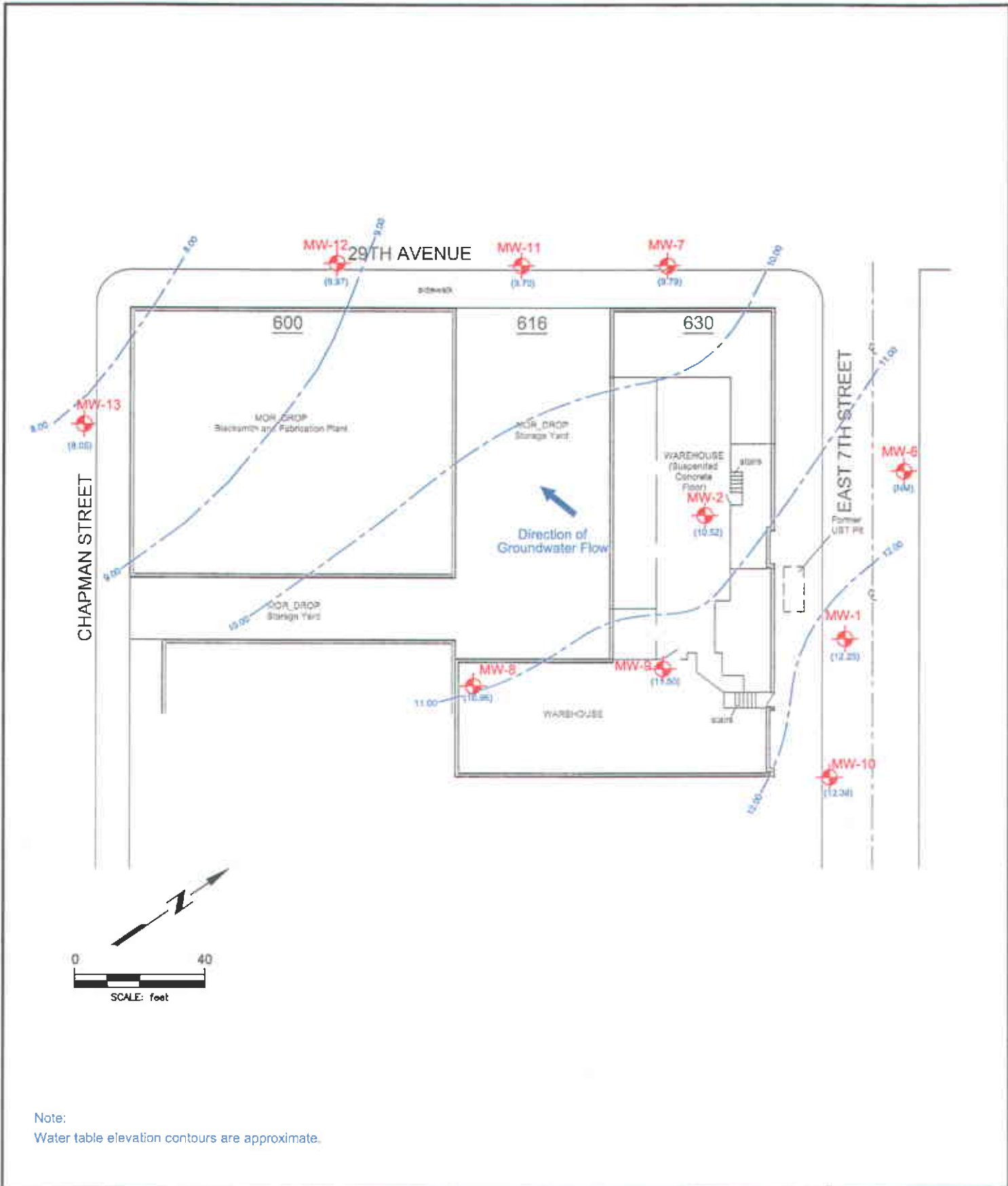
PROPERTY LOCATION MAP  
 Former Lemoine Sausage Factory  
 630 29th Avenue  
 Oakland, California  
 Clayton Project No. 70-97066.00

Figure

1

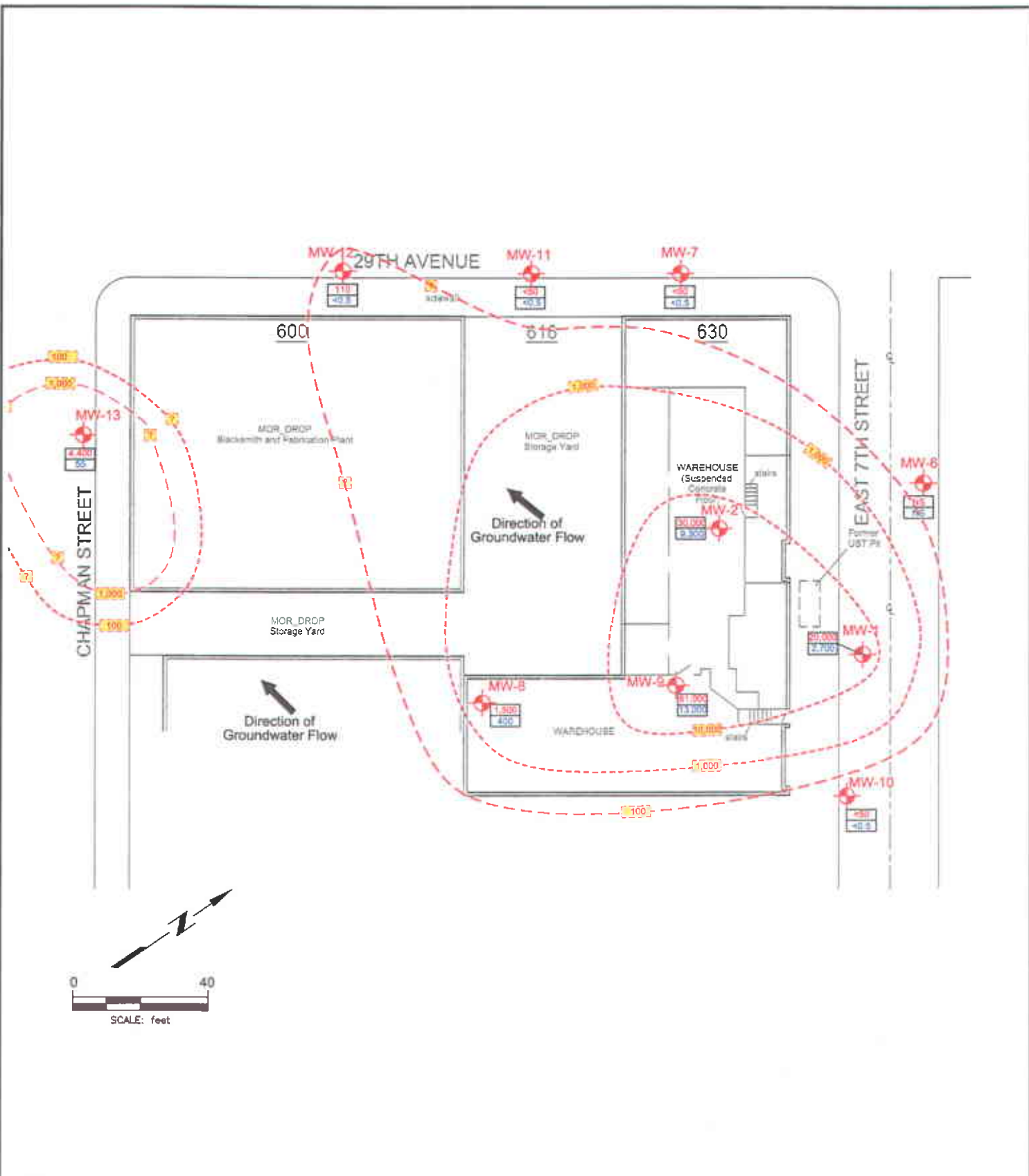






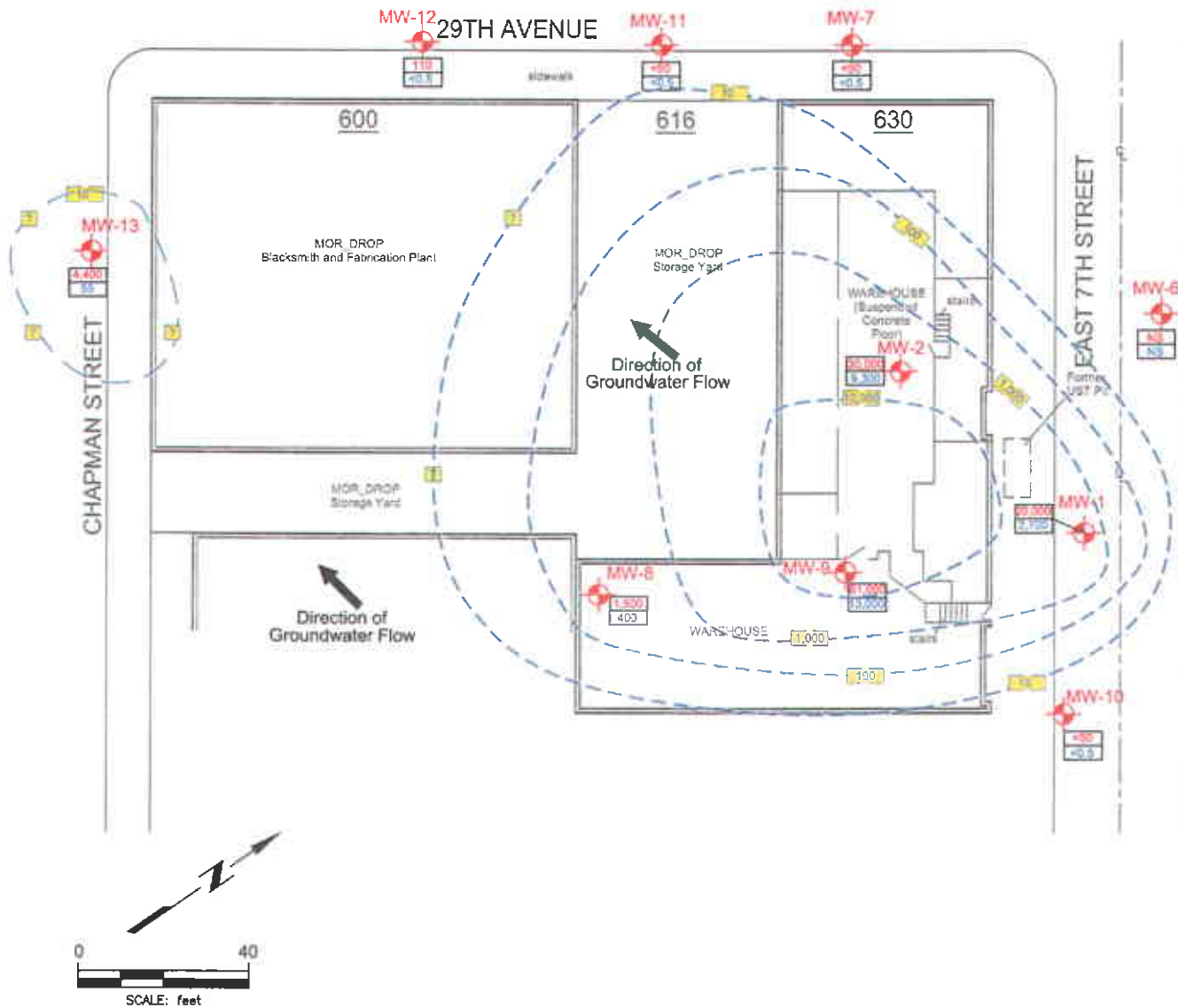
Note:  
Water table elevation contours are approximate.

<p><b>LEGEND</b></p> <p>MW-1  Existing Monitoring Well Location (10.52) Groundwater Elevation in Feet above Mean Sea Level</p> <p>10.00  Groundwater Surface Contour and Elevation</p>	<p><b>GROUNDWATER ELEVATION CONTOUR MAP</b> (March 28, 2003)</p> <p><b>FORMER LEMOINE SAUSAGE FACTORY</b> 630 29TH AVENUE OAKLAND, CALIFORNIA Clayton Project No. 70-97066.00</p>	<p>Figure</p> <p><b>2</b></p> <p>4/14/03 Q1ST_03.dwg</p>	
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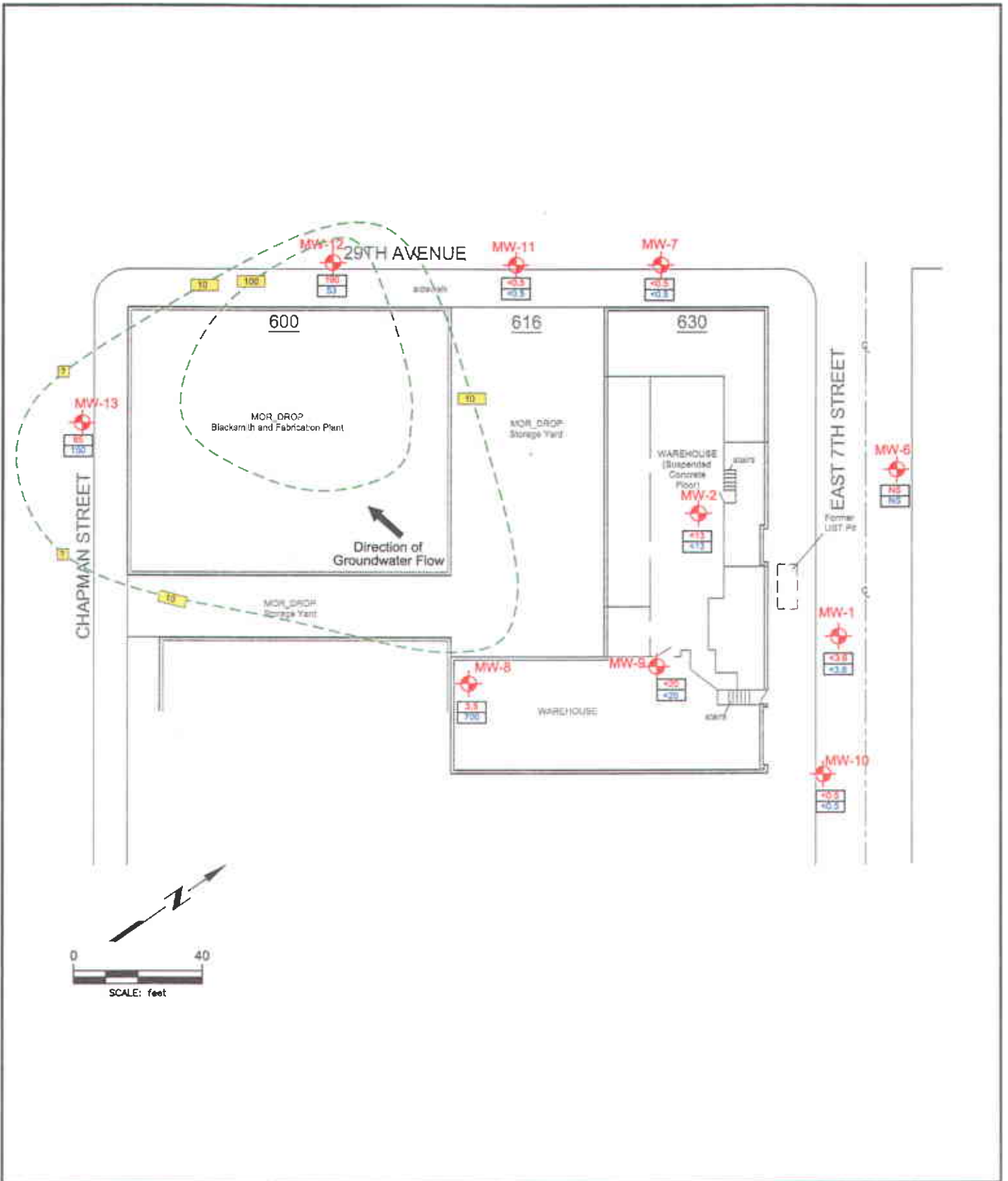
Note:  
Isoconcentration contours are approximate.

<p><b>LEGEND</b></p> <p>MW-1  Existing Monitoring Well Location</p> <p>30,000 — TPH-G Concentration (micrograms per liter)</p> <p>9,300 — Benzene Concentration (micrograms per liter)</p> <p>1,000 --- Isoconcentration Contour (micrograms per liter)</p>	<p><b>TPH as Gasoline</b>  <b>CONCENTRATIONS IN GROUNDWATER</b>  <b>March, 2003</b>  <b>FORMER LEMOINE SAUSAGE FACTORY</b>  <b>630 29TH AVENUE</b>  <b>OAKLAND, CALIFORNIA</b>  <b>Clayton Project No. 70-97066.00</b></p>	<p>Figure  <b>3a</b>          4/14/03          Q1ST_03.dwg</p>	
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Note:  
Isoconcentration contours are approximate.

LEGEND		<b>BENZENE</b> CONCENTRATIONS IN GROUNDWATER March, 2003 FORMER LEMOINE SAUSAGE FACTORY 630 29TH AVENUE OAKLAND, CALIFORNIA Clayton Project No. 70-97066.00	Figure <h1 style="font-size: 2em;">3b</h1> 4/14/03 Q1ST_03.dwg	
MW-1  Existing Monitoring Well Location 30,000 TPH-G Concentration (micrograms per liter) 9,300 Benzene Concentration (micrograms per liter) 1,000 Isoconcentration Contour (micrograms per liter)				



LEGEND	
	Existing Monitoring Well Location
	TCE Concentration (micrograms per liter)
	cis 1,2-DCE Concentration (micrograms per liter)
	TCE Isoconcentration Contour (micrograms per liter)

TCE and cis-1,2 DCE  
 CONCENTRATIONS IN GROUNDWATER  
 March 2003  
 FORMER LEMOINE SAUSAGE FACTORY  
 630 29TH AVENUE  
 OAKLAND, CALIFORNIA  
 Clayton Project No. 70-97066 00

Figure  
**4**  
 4/14/03  
 Q1ST\_03.dwg



**APPENDIX A**

**FIRST QUARTER (MARCH) 2003  
GROUNDWATER SAMPLING LOGS**

**FIELD SAMPLING DATA SHEET**

Job Location: Former Lemoine Sausage Factory	Job #: 70-97066
630 29th Avenue	Date Purged: 3-28-03
Oakland, California	Purge Method: peristaltic pump
Sampling Location: MW-1	Date & Time Sampled: 3-28 12:45
Top of Casing: 16.69 (ft, msl)	Sampling Method: peristaltic
Depth to Water: 9.44	Sample Type: TPHG/BTEX /8021B
Groundwater Elevation: 12.25	Preservatives: HCL
Well Bottom: 7.69	# of Containers: 6
Water Column: 4.56	Field Tech: MK
Well Casing Volume: 0.04 (WC* 0.01)	Weather Conditions: Sunny
Casing Volumes Purged: 4	
Purge Rate:	3/4" dia well

Time	Volume Removed (gal)	pH	Specific Conductivity (µmhos/cm)	Redox Potential (mVolts)	Temperature (°F or °C)	Dissolved Oxygen (mg/L)
12:34	0	6.58	0.187	-	24.6	turbid - Brown
12:36	0.04	6.51	0.381	-	23.4	"
12:37	0.04	6.55	0.271	-	20.5	Clear
12:38	0.04	6.50	0.321	-	20.7	"
12:39	0.04	6.43	0.541	-	21.0	"
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**Field Notes:**



**FIELD SAMPLING DATA SHEET**

Job Location: Former Lemoine Sausage Factory	Job #: 70-97066
630 29th Avenue	Date Purged: 3-28-03
Oakland, California	Purge Method: Peristaltic Pump
Sampling Location: <b>MW-2</b>	Date & Time Sampled: 3-28 19:15
Top of Casing: 20.79 (ft, msl)	Sampling Method: Peristaltic
Depth to Water: 10.27	Sample Type: TPHG/BTEX /8021B
Groundwater Elevation: 10.52	Preservatives: HCL
Well Bottom: 0.79	# of Containers: 6
Water Column: 9.73	Field Tech: MK
Well Casing Volume: 0.09 (WC* 0.01)	Weather Conditions: Sunny
Casing Volumes Purged: 4	
Purge Rate:	3/4" dia well

Turb. V 11

Time	Volume Removed (gal)	pH	Specific Conductivity (µmhos/cm) x 10	Redox Potential (mVolts)	Temperature (°F or °C)	Dissolved Oxygen (mg/L)
14:04	0	6.52	2.46	-	16.5	Turbid
14:05	0.09	6.32	5.60	-	16.8	"
14:06	0.09	6.18	3.40	-	16.7	Clear
14:07	0.09	6.05	3.19	-	16.8	"
14:08	0.09	6.01	2.91	-	16.7	"
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Field Notes: m/volt probe N/A

**FIELD SAMPLING DATA SHEET**

Job Location:	Former Lemoine Sausage Factory	Job #:	70-97066
	630 29th Avenue	Date Purged:	
	Oakland, California	Purge Method:	
Sampling Location:	<b>MW-6</b>	Date & Time Sampled:	
Top of Casing:	16.6 (ft, msl)	Sampling Method:	
Depth to Water:		Sample Type:	TPHG/BTEX /8021B
Groundwater Elevation		Preservatives:	
Well Bottom	-3.40	# of Containers:	
Water Column:		Field Tech:	
Well Casing Volume:	(WC* 0.16)	Weather Conditions:	
Casing Volumes Purged:			
Purge Rate:		2" dia well	

Time	Volume Removed (gal)	pH	Specific Conductivity (µmhos/cm)	Redox Potential (mVolts)	Temperature (°F or °C)	Dissolved Oxygen (mg/L)
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Field Notes:  
 Car parked over well throughout entire day - so well not able to get sampled  
 3-26-03

**FIELD SAMPLING DATA SHEET**

Job Location: Former Lemoine Sausage Factory	Job #: 70-97066
630 29th Avenue	Date Purged: 3-28-03
Oakland, California	Purge Method: Sub. pump
Sampling Location: MW-7	Date & Time Sampled: 3-28 10:40
Top of Casing: 15.47 (ft, msl)	Sampling Method: Butler
Depth to Water: 5.68	Sample Type: TPHG/BTEX/8021B
Groundwater Elevation 9.79	Preservatives: HCl
Well Bottom -4.53	# of Containers: 6
Water Column: 19.31	Field Tech: MK
Well Casing Volume: 2.29 (WC* 0.16)	Weather Conditions: Sunny
Casing Volumes Purged: 4	
Purge Rate:	2" dia well

Turb. Vis

Time	Volume Removed (gal)	pH	Specific Conductivity (µmhos/cm) x 1.0	Redox Potential (mVolts)	Temperature (°F or °C)	Dissolved Oxygen (mg/L)
11:25	0	6.74	0.668	-	19.5	clear
11:27	2.2	6.65	0.873	-	18.5	ll
11:29	2.2	6.54	0.652	-	17.9	ll
11:31	2.2	6.43	1.248	-	18.2	ll
11:32	2.2	6.45	0.636	-	18.7	ll
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Field Notes: m/volt probe N/A

**FIELD SAMPLING DATA SHEET**

Job Location: Former Lemoine Sausage Factory	Job #: 70-97066
630 29th Avenue	Date Purged: 3-28-03
Oakland, California	Purge Method: Butler
Sampling Location: <b>MW-8</b>	Date & Time Sampled: 3-28 13:30
Top of Casing: 17.58 (ft, msl)	Sampling Method: Butler
Depth to Water: 6.62	Sample Type: TPHG/BTEX /8021B
Groundwater Elevation 10.96	Preservatives: HCL
Well Bottom -2.42	# of Containers: 6
Water Column: 13.36	Field Tech: MK
Well Casing Volume: 2.14 (WC* 0.16)	Weather Conditions: Sunny
Casing Volumes Purged: 4	
Purge Rate:	2" dia well

Turbid. V.B.

Time	Volume Removed (gal)	pH	Specific Conductivity m(μmhos/cm) x 10	Redox Potential (mVolts)	Temperature (°F or °C)	Dissolved Oxygen (mg/L)
13:11	0	6.47	0.910	-	16.7	clear
13:14	2.1	6.22	0.893	-	16.0	
13:18	2.1	6.10	1.714	-	15.6	Slightly turbid
13:21	2.1	6.09	0.882	-	15.6	
13:25	2.1	6.04	0.718	-	15.5	
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Field Notes:  
 Invert probe N/A

**FIELD SAMPLING DATA SHEET**

Job Location:	Former Lemoine Sausage Factory	Job #:	70-97066
	630 29th Avenue	Date Purged:	3-28-03
	Oakland, California	Purge Method:	Boiler
Sampling Location:	<b>MW-9</b>	Date & Time Sampled:	3-26 13:55
Top of Casing:	17.61 (ft, msl)	Sampling Method:	Boiler
Depth to Water:	6.08	Sample Type:	TPHG/BTEX /8021B
Groundwater Elevation	11.53	Preservatives:	HCl
Well Bottom	2.61	# of Containers:	6
Water Column:	18.93	Field Tech:	MLK
Well Casing Volume:	1.42 (WC* 0.16)	Weather Conditions:	Sunny
Casing Volumes Purged:	4		
Purge Rate:		2" dia well	

Turb. V.S.

Time	Volume Removed (gal)	pH	Specific Conductivity (µmhos/cm) x 1.0	Redox Potential (mVolts)	Temperature (°F or °C)	Dissolved Oxygen (mg/L)
13:37	0	5.97	3.24	—	16.0	clear
13:41	1.4	5.54	7.77	—	16.5	11
13:43	1.4	5.60	6.31	—	16.3	11
13:45	1.4	5.56	5.26	—	16.5	11
13:47	1.4	5.55	4.38	—	16.5	11
:	Boiled @	13:47				

Field Notes: *myself probe NJA*

**FIELD SAMPLING DATA SHEET**

Job Location: Former Lemoine Sausage Factory	Job #: 70-97066
630 29th Avenue	Date Purged: 3-28-03
Oakland, California	Purge Method: Sub. pump
Sampling Location: MW-10	Date & Time Sampled: 3-28 12:07
Top of Casing: 16.92 (ft, msl)	Sampling Method: Butler
Depth to Water: 4.54'	Sample Type: TPHG/BTEX /8021B
Groundwater Elevation 12.38	Preservatives: HCL
Well Bottom 7.92	# of Containers: 6
Water Column: 4.46	Field Tech: MK
Well Casing Volume: 0.713 (WC* 0.16)	Weather Conditions: Sunny
Casing Volumes Purged: 4	"
Purge Rate:	2" dia well

Turb. Vis.

Time	Volume Removed (gal)	pH	Specific Conductivity (umhos/cm) x 1.0	Redox Potential (mVolts)	Temperature (°F or °C)	Dissolved Oxygen (mg/L)
11:57	0	6.83	0.400	-	21.8	Clear
11:58	0.7	6.83	0.374	-	20.0	"
11:59	0.7	6.80	0.718	-	19.4	"
12:00	0.7	6.74	0.559	-	19.2	"
12:01	0.7	6.71	0.262	-	18.8	"
:						
:						
:						
:						
:						
:						
:						
:						

Field Notes: m/volt probe N/A

**FIELD SAMPLING DATA SHEET**

Job Location: Former Lemoine Sausage Factory	Job #: 70-97066
630 29th Avenue	Date Purged: 3-28-03
Oakland, California	Purge Method: Sub-pump
Sampling Location: MW-11	Date & Time Sampled: 3-28 11:15
Top of Casing: 14.87 (ft, msl)	Sampling Method: Aquifer
Depth to Water: 5.17	Sample Type: TPHG/BTEX/8021B
Groundwater Elevation: 9.7	Preservatives: HCL
Well Bottom: -0.13	# of Containers: 6
Water Column: 9.83	Field Tech: MK
Well Casing Volume: 1.57 (WC* 0.16)	Weather Conditions: Sunny
Casing Volumes Purged: 3	
Purge Rate:	2" dia well

Time	Volume Removed (gal)	pH	Specific Conductivity (µmhos/cm) x 1.0	Redox Potential (mVolts)	Temperature (°F or °C)	Dissolved Oxygen (mg/L)
11:00	0	6.40	2.01	-	18.6	clear
11:01	1.5	6.37	2.34	-	17.7	"
11:03	1.5	6.28	1.820	-	18.0	"
:	pumped dry @		11:04			
11:06	1.5	6.18	1.161	-	17.7	"
:	pumped dry @		11:07			
:						
:						
:						
:						
:						
:						
:						

Field Notes:  
 mvolt probe N/A

**FIELD SAMPLING DATA SHEET**

Job Location: Former Lemoine Sausage Factory	Job #: 70-97066
630 29th Avenue	Date Purged: 3-28-03
Oakland, California	Purge Method: Sub. Pump
Sampling Location: MW-12	Date & Time Sampled: 3-28 10:50
Top of Casing: 14.05 (ft, msl)	Sampling Method: Butler
Depth to Water: 5.08	Sample Type: TPHG/BTEX /8021B
Groundwater Elevation: 8.97	Preservatives: HCL
Well Bottom: -0.95	# of Containers: 6
Water Column: 9.92	Field Tech: MK
Well Casing Volume: 1.58 (WC* 0.16)	Weather Conditions: Sunny
Casing Volumes Purged: 4	
Purge Rate:	2" dia well

Turbo Vis.

Time	Volume Removed (gal)	pH	Specific Conductivity (µmhos/cm) x 100	Redox Potential (mVolts)	Temperature (°F or °C)	Dissolved Oxygen (mg/L)
10:35	0	6.95	3.03	-	16.5	clear
10:36	1.5	6.93	1.543	-	16.4	11
10:37	1.5	6.28	1.541	-	16.4	11
10:39	1.5	6.26	1.558	-	16.5	11
:	Butler	By @	10:40			
10:42	1.5	6.16	3.04	-	15.9	clear
:						
:						
:						
:						
:						
:						

Field Notes: m/volt probe N/A



**FIELD SAMPLING DATA SHEET**

Job Location: Former Lemoine Sausage Factory	Job #: 70-97066
630 29th Avenue	Date Purged: 3-26-03
Oakland, California	Purge Method: sub. pump.
Sampling Location: MW-13	Date & Time Sampled: 3-28 10:15
Top of Casing: 13.39 (ft. msl)	Sampling Method: Quilts
Depth to Water: 5.34	Sample Type: TPHG/BTEX /8021B
Groundwater Elevation 8.05	Preservatives: HCL
Well Bottom -1.61	# of Containers: 6
Water Column: 9.04	Field Tech: MK
Well Casing Volume: 1.54 (WC* 0.16)	Weather Conditions: Sunny
Casing Volumes Purged: 4	
Purge Rate:	2" dia well

Time	Volume Removed (gal)	pH	Specific Conductivity (µmhos/cm) x 1.0	Redox Potential (mVolts)	Temperature (°F or °C)	Dissolved Oxygen (mg/L)
10:04	0	6.34	0.556	—	18.2	Clear
10:05	1.5	6.30	1.102	—	18.3	Slightly turbid
10:07	1.5	6.33	1.031	—	18.1	Clear
10:08	1.5	6.33	1.110	—	18.2	"
10:10	1.5	6.37	0.487	—	18.2	"
:						
:						
:						
:						
:						
:						
:						

Field Notes:  
 m/volt probe Not Available

**APPENDIX B**

**FIRST QUARTER (MARCH) 2003**

**LABORATORY ANALYTICAL DATA SHEETS AND CHAIN-OF-  
CUSTODY DOCUMENTATION**



# CHAIN OF CUSTODY

Lab: Curtis&Tompkins

TAT: Standard

**Report results to:**

Name: Warren Chamberlain  
 Company: Clayton Group Services  
 Mailing Address: 6920 Koff Center Parkway, Ste. 216  
Pleasanton, California 94566  
 Telephone No.: (925) 426-2600  
 Fax No.: (925) 426-0106  
 E-mail: wchamberlain@claytongrp.com

**Project Information**

Project No.: 70-97066.00  
 Name: Sausage Factory  
 Location: 630 29<sup>th</sup> Avenue, Oakland  
 Global Id: T0600102114  
 Log code: CGSP

Special instructions and/or specific regulatory requirements:

**Analyses Requested**

TPH as Gasoline/BTEX																				

V/N  
 No  
 Yes  
 Preservation Correct?

Received  On Ice  
 Cold  Ambient  In Contact

Sample Identification	Sample Date	Sample Time	Location	Depth	Volume	TPH as Gasoline/BTEX	8021B	Sample Condition/Comments	Preservative
MW-01 <del>0204</del> 0301	16-Dec-02	12:45	L	6		X	X		HCl
MW-02 <del>0204</del>	16-Dec-02	14:15	L	6		X	X	No Sample Collected	HCl
MW-06 <del>0204</del>	16-Dec-02	-	L	6					HCl
MW-07 <del>0204</del>	16-Dec-02	11:40	L	6		X	X		HCl
MW-08 <del>0204</del>	16-Dec-02	13:30	L	6		X	X		HCl
MW-09 <del>0204</del>	16-Dec-02	15:55	L	6		X	X		HCl
MW-10 <del>0204</del>	16-Dec-02	12:07	L	6		X	X		HCl
MW-11 <del>0204</del>	16-Dec-02	11:15	L	6		X	X		HCl
MW-12 <del>0204</del>	16-Dec-02	10:50	L	6		X	X		HCl
MW-13 <del>0204</del>	16-Dec-02	10:15	L	6		X	X		HCl

Collected by: [Signature] Date/Time: 3-28-03  
 Relinquished by: [Signature] Date/Time: 3-28-03  
 Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Method of Shipment: \_\_\_\_\_

Collector's Signature: [Signature] Date/Time: 3-28-03  
 Received by: [Signature] Date/Time: 3-28-03 3:05  
 Received by: [Signature] Date/Time: \_\_\_\_\_  
 Sample Condition on Rcpt: \_\_\_\_\_

**Curtis & Tompkins Laboratories Analytical Report**

Lab #:	164459	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066.00		
Matrix:	Water	Sampled:	03/28/03
Units:	ug/L	Received:	03/28/03

Field ID: MW-01 03Q1  
Type: SAMPLE

Lab ID: 164459-001

Analyte	Result	RL	Diln Fac	Batch#	Analyzed	Analysis
Gasoline C7-C12	20,000	250	5.000	80399	03/29/03	8015B
Benzene	2,700	5.0	10.00	80410	03/31/03	EPA 8021B
Toluene	1,500	2.5	5.000	80399	03/29/03	EPA 8021B
Ethylbenzene	650	2.5	5.000	80399	03/29/03	EPA 8021B
m,p-Xylenes	1,300	2.5	5.000	80399	03/29/03	EPA 8021B
o-Xylene	1,000	2.5	5.000	80399	03/29/03	EPA 8021B

Surrogate	%REC	Limits	Diln Fac	Batch#	Analyzed	Analysis
Trifluorotoluene (FID)	119	68-145	5.000	80399	03/29/03	8015B
Bromofluorobenzene (FID)	97	66-143	5.000	80399	03/29/03	8015B
Trifluorotoluene (PID)	134	53-143	5.000	80399	03/29/03	EPA 8021B
Bromofluorobenzene (PID)	102	52-142	5.000	80399	03/29/03	EPA 8021B

Field ID: MW-02 03Q1  
Type: SAMPLE

Lab ID: 164459-002

Analyte	Result	RL	Diln Fac	Batch#	Analyzed	Analysis
Gasoline C7-C12	30,000	2,000	40.00	80410	03/31/03	8015B
Benzene	9,300	20	40.00	80410	03/31/03	EPA 8021B
Toluene	920	2.5	5.000	80399	03/30/03	EPA 8021B
Ethylbenzene	930	2.5	5.000	80399	03/30/03	EPA 8021B
m,p-Xylenes	1,900	2.5	5.000	80399	03/30/03	EPA 8021B
o-Xylene	100	2.5	5.000	80399	03/30/03	EPA 8021B

Surrogate	%REC	Limits	Diln Fac	Batch#	Analyzed	Analysis
Trifluorotoluene (FID)	105	68-145	40.00	80410	03/31/03	8015B
Bromofluorobenzene (FID)	96	66-143	40.00	80410	03/31/03	8015B
Trifluorotoluene (PID)	110	53-143	5.000	80399	03/30/03	EPA 8021B
Bromofluorobenzene (PID)	101	52-142	5.000	80399	03/30/03	EPA 8021B

\*= Value outside of QC limits; see narrative  
 C= Presence confirmed, but RPD between columns exceeds 40%  
 L= Lighter hydrocarbons contributed to the quantitation  
 Y= Sample exhibits chromatographic pattern which does not resemble standard  
 Z= Sample exhibits unknown single peak or peaks  
 b= See narrative  
 ND= Not Detected  
 RL= Reporting Limit  
 >LR= Response exceeds instrument's linear range

**Curtis & Tompkins Laboratories Analytical Report**

Lab #:	164459	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066.00		
Matrix:	Water	Sampled:	03/28/03
Units:	ug/L	Received:	03/28/03

Field ID: MW-07 03Q1      Diln Fac: 1.000  
 Type: SAMPLE              Batch#: 80397  
 Lab ID: 164459-003        Analyzed: 03/28/03

Analyte	Result	RL	Analysis
Gasoline C7-C12	ND	50	8015B
Benzene	ND	0.50	EPA 8021B
Toluene	ND	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
m,p-Xylenes	ND	0.50	EPA 8021B
o-Xylene	ND	0.50	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	124	68-145	8015B
Bromofluorobenzene (FID)	125	66-143	8015B
Trifluorotoluene (PID)	111	53-143	EPA 8021B
Bromofluorobenzene (PID)	113	52-142	EPA 8021B

Field ID: MW-08 03Q1      Diln Fac: 1.000  
 Type: SAMPLE              Batch#: 80397  
 Lab ID: 164459-004        Analyzed: 03/28/03

Analyte	Result	RL	Analysis
Gasoline C7-C12	1,500 L	50	8015B
Benzene	400	0.50	EPA 8021B
Toluene	ND	0.50	EPA 8021B
Ethylbenzene	50	0.50	EPA 8021B
m,p-Xylenes	ND	0.50	EPA 8021B
o-Xylene	0.62	0.50	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	144	68-145	8015B
Bromofluorobenzene (FID)	143	66-143	8015B
Trifluorotoluene (PID)	136	53-143	EPA 8021B
Bromofluorobenzene (PID)	134	52-142	EPA 8021B

\*= Value outside of QC limits; see narrative  
 C= Presence confirmed, but RPD between columns exceeds 40%  
 L= Lighter hydrocarbons contributed to the quantitation  
 Y= Sample exhibits chromatographic pattern which does not resemble standard  
 Z= Sample exhibits unknown single peak or peaks  
 b= See narrative  
 ND= Not Detected  
 RL= Reporting Limit  
 >LR= Response exceeds instrument's linear range

**Curtis & Tompkins Laboratories Analytical Report**

Lab #:	164459	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066.00		
Matrix:	Water	Sampled:	03/28/03
Units:	ug/L	Received:	03/28/03

Field ID: MW-09 03Q1      Diln Fac: 50.00  
 Type: SAMPLE              Batch#: 80410  
 Lab ID: 164459-005        Analyzed: 03/31/03

Analyte	Result	RL	Analysis
Gasoline C7-C12	61,000	2,500	8015B
Benzene	13,000	25	EPA 8021B
Toluene	8,600	25	EPA 8021B
Ethylbenzene	860	25	EPA 8021B
m,p-Xylenes	3,700	25	EPA 8021B
o-Xylene	1,100	25	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	105	68-145	8015B
Bromofluorobenzene (FID)	96	66-143	8015B
Trifluorotoluene (PID)	101	53-143	EPA 8021B
Bromofluorobenzene (PID)	101	52-142	EPA 8021B

Field ID: MW-10 03Q1      Diln Fac: 1.000  
 Type: SAMPLE              Batch#: 80397  
 Lab ID: 164459-006        Analyzed: 03/28/03

Analyte	Result	RL	Analysis
Gasoline C7-C12	ND	50	8015B
Benzene	ND	0.50	EPA 8021B
Toluene	ND	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
m,p-Xylenes	ND	0.50	EPA 8021B
o-Xylene	ND	0.50	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	135	68-145	8015B
Bromofluorobenzene (FID)	137	66-143	8015B
Trifluorotoluene (PID)	126	53-143	EPA 8021B
Bromofluorobenzene (PID)	129	52-142	EPA 8021B

\*= Value outside of QC limits; see narrative  
 C= Presence confirmed, but RPD between columns exceeds 40%  
 L= Lighter hydrocarbons contributed to the quantitation  
 Y= Sample exhibits chromatographic pattern which does not resemble standard  
 Z= Sample exhibits unknown single peak or peaks  
 b= See narrative  
 ND= Not Detected  
 RL= Reporting Limit  
 >LR= Response exceeds instrument's linear range

**Curtis & Tompkins Laboratories Analytical Report**

Lab #:	164459	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066.00		
Matrix:	Water	Sampled:	03/28/03
Units:	ug/L	Received:	03/28/03

Field ID: MW-11 03Q1      Diln Fac: 1.000  
 Type: SAMPLE              Batch#: 80397  
 Lab ID: 164459-007        Analyzed: 03/28/03

Analyte	Result	RL	Analysis
Gasoline C7-C12	ND	50	8015B
Benzene	ND	0.50	EPA 8021B
Toluene	ND	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
m,p-Xylenes	ND	0.50	EPA 8021B
o-Xylene	ND	0.50	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	137	68-145	8015B
Bromofluorobenzene (FID)	140	66-143	8015B
Trifluorotoluene (PID)	124	53-143	EPA 8021B
Bromofluorobenzene (PID)	130	52-142	EPA 8021B

Field ID: MW-12 03Q1      Diln Fac: 1.000  
 Type: SAMPLE              Batch#: 80397  
 Lab ID: 164459-008        Analyzed: 03/28/03

Analyte	Result	RL	Analysis
Gasoline C7-C12	110 Y Z	50	8015B
Benzene	ND	0.50	EPA 8021B
Toluene	ND	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
m,p-Xylenes	ND	0.50	EPA 8021B
o-Xylene	ND	0.50	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	138	68-145	8015B
Bromofluorobenzene (FID)	134	66-143	8015B
Trifluorotoluene (PID)	138	53-143	EPA 8021B
Bromofluorobenzene (PID)	125	52-142	EPA 8021B

\*= Value outside of QC limits; see narrative  
 C= Presence confirmed, but RPD between columns exceeds 40%  
 L= Lighter hydrocarbons contributed to the quantitation  
 Y= Sample exhibits chromatographic pattern which does not resemble standard  
 Z= Sample exhibits unknown single peak or peaks  
 b= See narrative  
 ND= Not Detected  
 RL= Reporting Limit  
 >LR= Response exceeds instrument's linear range

Curtis & Tompkins Laboratories Analytical Report			
Lab #:	164459	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066.00		
Matrix:	Water	Sampled:	03/28/03
Units:	ug/L	Received:	03/28/03

Field ID: MW-13 03Q1 Diln Fac: 1.000  
 Type: SAMPLE Batch#: 80397  
 Lab ID: 164459-009 Analyzed: 03/29/03

Analyte	Result	RL	Analysis
Gasoline C7-C12	4,400 L	50	8015B
Benzene	55 C	0.50	EPA 8021B
Toluene	ND	0.50	EPA 8021B
Ethylbenzene	51	0.50	EPA 8021B
m,p-Xylenes	7.5 C	0.50	EPA 8021B
o-Xylene	6.8 C	0.50	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	183 *	68-145	8015B
Bromofluorobenzene (FID)	179 *	66-143	8015B
Trifluorotoluene (PID)	246 *	>LR b 53-143	EPA 8021B
Bromofluorobenzene (PID)	144 *	52-142	EPA 8021B

Type: BLANK Batch#: 80397  
 Lab ID: QC209480 Analyzed: 03/28/03  
 Diln Fac: 1.000

Analyte	Result	RL	Analysis
Gasoline C7-C12	ND	50	8015B
Benzene	ND	0.50	EPA 8021B
Toluene	ND	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
m,p-Xylenes	ND	0.50	EPA 8021B
o-Xylene	ND	0.50	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	125	68-145	8015B
Bromofluorobenzene (FID)	124	66-143	8015B
Trifluorotoluene (PID)	113	53-143	EPA 8021B
Bromofluorobenzene (PID)	114	52-142	EPA 8021B

\*= Value outside of QC limits; see narrative  
 C= Presence confirmed, but RPD between columns exceeds 40%  
 L= Lighter hydrocarbons contributed to the quantitation  
 Y= Sample exhibits chromatographic pattern which does not resemble standard  
 Z= Sample exhibits unknown single peak or peaks  
 b= See narrative  
 ND= Not Detected  
 RL= Reporting Limit  
 >LR= Response exceeds instrument's linear range





**Curtis & Tompkins Laboratories Analytical Report**

Lab #:	164459	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066.00		
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC209481	Batch#:	80397
Matrix:	Water	Analyzed:	03/28/03
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits	Analysis
Gasoline C7-C12	1,000	1,119	112	79-120	8015B
Benzene		NA			
Toluene		NA			
Ethylbenzene		NA			
m,p-Xylenes		NA			
o-Xylene		NA			

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	136	68-145	8015B
Bromofluorobenzene (FID)	120	66-143	8015B
Trifluorotoluene (PID)	121	53-143	EPA 8021B
Bromofluorobenzene (PID)	112	52-142	EPA 8021B

**Curtis & Tompkins Laboratories Analytical Report**

Lab #:	164459	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066.00		
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC209482	Batch#:	80397
Matrix:	Water	Analyzed:	03/28/03
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits	Analysis
Gasoline C7-C12		NA			
Benzene	20.00	19.12	96	65-122	EPA 8021B
Toluene	20.00	18.91	95	67-121	EPA 8021B
Ethylbenzene	20.00	18.39	92	70-121	EPA 8021B
m,p-Xylenes	40.00	38.16	95	72-125	EPA 8021B
o-Xylene	20.00	19.02	95	73-122	EPA 8021B

Surrogate	Result	%REC	Limits	Analysis
Trifluorotoluene (FID)		116	68-145	8015B
Bromofluorobenzene (FID)	NA			
Trifluorotoluene (PID)		107	53-143	EPA 8021B
Bromofluorobenzene (PID)		104	52-142	EPA 8021B

**Curtis & Tompkins Laboratories Analytical Report**

Lab #:	164459	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066.00		
Field ID:	ZZZZZZZZZZ	Batch#:	80397
MSS Lab ID:	164458-001	Sampled:	03/27/03
Matrix:	Water	Received:	03/28/03
Units:	ug/L	Analyzed:	03/29/03
Diln Fac:	1.000		

Type: MS Lab ID: QC209483

Analyte	MSS Result	Spiked	Result	%REC	Limits	Analysis
Gasoline C7-C12	33.99	2,000	2,105	104	67-120	8015B
Benzene			NA			
Toluene			NA			
Ethylbenzene			NA			
m,p-Xylenes			NA			
o-Xylene			NA			

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	149 *	68-145	8015B
Bromofluorobenzene (FID)	137	66-143	8015B
Trifluorotoluene (PID)	141	53-143	EPA 8021B
Bromofluorobenzene (PID)	126	52-142	EPA 8021B

Type: MSD Lab ID: QC209484

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Analysis
Gasoline C7-C12	2,000	2,058	101	67-120	2	20	8015B
Benzene		NA					
Toluene		NA					
Ethylbenzene		NA					
m,p-Xylenes		NA					
o-Xylene		NA					

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	144	68-145	8015B
Bromofluorobenzene (FID)	131	66-143	8015B
Trifluorotoluene (PID)	142	53-143	EPA 8021B
Bromofluorobenzene (PID)	124	52-142	EPA 8021B

\*= Value outside of QC limits; see narrative  
 NA= Not Analyzed  
 RPD= Relative Percent Difference

**Curtis & Tompkins Laboratories Analytical Report**

Lab #:	164459	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066.00	Analysis:	8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC209494	Batch#:	80399
Matrix:	Water	Analyzed:	03/29/03
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1,000	1,032	103	79-120
Toluene		NA		
Ethylbenzene		NA		
m,p-Xylenes		NA		
o-Xylene		NA		

Surrogate	Result	%REC	Limits
Trifluorotoluene (FID)		112	68-145
Bromofluorobenzene (FID)		93	66-143
Trifluorotoluene (PID)	NA		
Bromofluorobenzene (PID)	NA		



**Curtis & Tompkins Laboratories Analytical Report**

Lab #:	164459	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066.00	Analysis:	8015B
Field ID:	ZZZZZZZZZZ	Batch#:	80399
MSS Lab ID:	164458-004	Sampled:	03/27/03
Matrix:	Water	Received:	03/28/03
Units:	ug/L	Analyzed:	03/29/03
Diln Fac:	1.000		

Type: MS Lab ID: QC209497

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	427.1	2,000	2,360	97	67-120
Toluene			NA		
Ethylbenzene			NA		
m,p-Xylenes			NA		
o-Xylene			NA		

Surrogate	Result	%REC	Limits
Trifluorotoluene (FID)		109	68-145
Bromofluorobenzene (FID)		99	66-143
Trifluorotoluene (PID)	NA		
Bromofluorobenzene (PID)	NA		

Type: MSD Lab ID: QC209498

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	2,343	96	67-120	1	20
Toluene		NA				
Ethylbenzene		NA				
m,p-Xylenes		NA				
o-Xylene		NA				

Surrogate	Result	%REC	Limits
Trifluorotoluene (FID)		109	68-145
Bromofluorobenzene (FID)		99	66-143
Trifluorotoluene (PID)	NA		
Bromofluorobenzene (PID)	NA		

 NA= Not Analyzed  
 RPD= Relative Percent Difference  
 Page 1 of 1

**Curtis & Tompkins Laboratories Analytical Report**

Lab #:	164459	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066.00		
Type:	BS	Diln Fac:	1.000
Lab ID:	QC209539	Batch#:	80410
Matrix:	Water	Analyzed:	03/31/03
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits	Analysis
Gasoline C7-C12		NA			
Benzene	10.00	9.441	94	65-122	EPA 8021B
Toluene	10.00	9.415	94	67-121	EPA 8021B
Ethylbenzene	10.00	9.565	96	70-121	EPA 8021B
m,p-Xylenes	20.00	19.42	97	72-125	EPA 8021B
o-Xylene	10.00	9.448	94	73-122	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	96	68-145	8015B
Bromofluorobenzene (FID)	94	66-143	8015B
Trifluorotoluene (PID)	95	53-143	EPA 8021B
Bromofluorobenzene (PID)	99	52-142	EPA 8021B



**Curtis & Tompkins Laboratories Analytical Report**

Lab #:	164459	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066.00		
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC209540	Batch#:	80410
Matrix:	Water	Analyzed:	03/31/03
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits	Analysis
Gasoline C7-C12	1,000	883.6	88	79-120	8015B
Benzene		NA			
Toluene		NA			
Ethylbenzene		NA			
m,p-Xylenes		NA			
o-Xylene		NA			

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	109	68-145	8015B
Bromofluorobenzene (FID)	94	66-143	8015B
Trifluorotoluene (PID)	100	53-143	EPA 8021B
Bromofluorobenzene (PID)	95	52-142	EPA 8021B

**Curtis & Tompkins Laboratories Analytical Report**

Lab #:	164459	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066.00		
Field ID:	ZZZZZZZZZZ	Batch#:	80410
MSS Lab ID:	164469-010	Sampled:	03/27/03
Matrix:	Water	Received:	03/28/03
Units:	ug/L	Analyzed:	03/31/03
Diln Fac:	1.000		

Type: MS Lab ID: QC209623

Analyte	MSS Result	Spiked	Result	%REC	Limits	Analysis
Gasoline C7-C12	23.04	2,000	2,013	100	67-120	8015B
Benzene			NA			
Toluene			NA			
Ethylbenzene			NA			
m,p-Xylenes			NA			
o-Xylene			NA			

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	112	68-145	8015B
Bromofluorobenzene (FID)	101	66-143	8015B
Trifluorotoluene (PID)	109	53-143	EPA 8021B
Bromofluorobenzene (PID)	99	52-142	EPA 8021B

Type: MSD Lab ID: QC209624

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Analysis
Gasoline C7-C12	2,000	2,002	99	67-120	1	20	8015B
Benzene		NA					
Toluene		NA					
Ethylbenzene		NA					
m,p-Xylenes		NA					
o-Xylene		NA					

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	113	68-145	8015B
Bromofluorobenzene (FID)	102	66-143	8015B
Trifluorotoluene (PID)	110	53-143	EPA 8021B
Bromofluorobenzene (PID)	101	52-142	EPA 8021B

**Curtis & Tompkins Laboratories Analytical Report**

Lab #:	164459	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066.00		
Type:	BSD	Diln Fac:	1.000
Lab ID:	QC209625	Batch#:	80410
Matrix:	Water	Analyzed:	03/31/03
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Analysis
Gasoline C7-C12		NA					
Benzene	20.00	20.93	105	65-122	10	20	EPA 8021B
Toluene	20.00	20.80	104	67-121	10	20	EPA 8021B
Ethylbenzene	20.00	20.95	105	70-121	9	20	EPA 8021B
m,p-Xylenes	40.00	42.14	105	72-125	8	20	EPA 8021B
o-Xylene	20.00	20.73	104	73-122	9	20	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	100	68-145	8015B
Bromofluorobenzene (FID)	101	66-143	8015B
Trifluorotoluene (PID)	99	53-143	EPA 8021B
Bromofluorobenzene (PID)	103	52-142	EPA 8021B

**Benzene, Toluene, Ethylbenzene, Xylenes**

Lab #:	164459	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066.00	Analysis:	EPA 8021B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC209481	Batch#:	80397
Matrix:	Water	Analyzed:	03/28/03

Analyte	Result
Benzene	NA
Toluene	NA
Ethylbenzene	NA
m,p-Xylenes	NA
o-Xylene	NA

Surrogate	%REC	Limits
Trifluorotoluene (PID)	121	53-143
Bromofluorobenzene (PID)	112	52-142

**Benzene, Toluene, Ethylbenzene, Xylenes**

Lab #:	164459	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066.00	Analysis:	EPA 8021B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC209482	Batch#:	80397
Matrix:	Water	Analyzed:	03/28/03
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
Benzene	20.00	19.12	96	65-122
Toluene	20.00	18.91	95	67-121
Ethylbenzene	20.00	18.39	92	70-121
m,p-Xylenes	40.00	38.16	95	72-125
o-Xylene	20.00	19.02	95	73-122

Surrogate	%REC	Limits
Trifluorotoluene (PID)	107	53-143
Bromofluorobenzene (PID)	104	52-142

Benzene, Toluene, Ethylbenzene, Xylenes			
Lab #:	164459	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066.00	Analysis:	EPA 8021B
Field ID:	ZZZZZZZZZZ	Batch#:	80397
MSS Lab ID:	164458-001	Sampled:	03/27/03
Matrix:	Water	Received:	03/28/03
Diln Fac:	1.000	Analyzed:	03/29/03

Type: MS Lab ID: QC209483

Analyte	Result
Benzene	NA
Toluene	NA
Ethylbenzene	NA
m,p-Xylenes	NA
o-Xylene	NA

Surrogate	%REC	Limits
Trifluorotoluene (PID)	141	53-143
Bromofluorobenzene (PID)	126	52-142

Type: MSD Lab ID: QC209484

Analyte	Result
Benzene	NA
Toluene	NA
Ethylbenzene	NA
m,p-Xylenes	NA
o-Xylene	NA

Surrogate	%REC	Limits
Trifluorotoluene (PID)	142	53-143
Bromofluorobenzene (PID)	124	52-142

**Benzene, Toluene, Ethylbenzene, Xylenes**

Lab #:	164459	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066.00	Analysis:	EPA 8021B
Type:	BS	Diln Fac:	1.000
Lab ID:	QC209539	Batch#:	80410
Matrix:	Water	Analyzed:	03/31/03
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
Benzene	10.00	9.441	94	65-122
Toluene	10.00	9.415	94	67-121
Ethylbenzene	10.00	9.565	96	70-121
m,p-Xylenes	20.00	19.42	97	72-125
o-Xylene	10.00	9.448	94	73-122

Surrogate	%REC	Limits
Trifluorotoluene (PID)	95	53-143
Bromofluorobenzene (PID)	99	52-142

**Benzene, Toluene, Ethylbenzene, Xylenes**

Lab #:	164459	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066.00	Analysis:	EPA 8021B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC209540	Batch#:	80410
Matrix:	Water	Analyzed:	03/31/03

Analyte	Result
Benzene	NA
Toluene	NA
Ethylbenzene	NA
m,p-Xylenes	NA
o-Xylene	NA

Surrogate	%REC	Limits
Trifluorotoluene (PID)	100	53-143
Bromofluorobenzene (PID)	95	52-142



Benzene, Toluene, Ethylbenzene, Xylenes			
Lab #:	164459	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066.00	Analysis:	EPA 8021B
Field ID:	ZZZZZZZZZZ	Batch#:	80410
MSS Lab ID:	164469-010	Sampled:	03/27/03
Matrix:	Water	Received:	03/28/03
Diln Fac:	1.000	Analyzed:	03/31/03

Type: MS Lab ID: QC209623

Analyte	Result
Benzene	NA
Toluene	NA
Ethylbenzene	NA
m,p-Xylenes	NA
o-Xylene	NA

Surrogate	%REC	Limits
Trifluorotoluene (PID)	109	53-143
Bromofluorobenzene (PID)	99	52-142

Type: MSD Lab ID: QC209624

Analyte	Result
Benzene	NA
Toluene	NA
Ethylbenzene	NA
m,p-Xylenes	NA
o-Xylene	NA

Surrogate	%REC	Limits
Trifluorotoluene (PID)	110	53-143
Bromofluorobenzene (PID)	101	52-142

**Benzene, Toluene, Ethylbenzene, Xylenes**

Lab #:	164459	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066.00	Analysis:	EPA 8021B
Type:	BSD	Diln Fac:	1.000
Lab ID:	QC209625	Batch#:	80410
Matrix:	Water	Analyzed:	03/31/03
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Benzene	20.00	20.93	105	65-122	10	20
Toluene	20.00	20.80	104	67-121	10	20
Ethylbenzene	20.00	20.95	105	70-121	9	20
m,p-Xylenes	40.00	42.14	105	72-125	8	20
o-Xylene	20.00	20.73	104	73-122	9	20

Surrogate	%REC	Limits
Trifluorotoluene (PID)	99	53-143
Bromofluorobenzene (PID)	103	52-142

**Total Volatile Hydrocarbons**

Lab #:	164459	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066.00	Analysis:	8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC209481	Batch#:	80397
Matrix:	Water	Analyzed:	03/28/03
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1,000	1,119	112	79-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	136	68-145
Bromofluorobenzene (FID)	120	66-143

**Total Volatile Hydrocarbons**

Lab #:	164459	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066.00	Analysis:	8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC209482	Batch#:	80397
Matrix:	Water	Analyzed:	03/28/03

Analyte	Result
Gasoline C7-C12	NA

Surrogate	Result	%REC	Limits
Trifluorotoluene (FID)		116	68-145
Bromofluorobenzene (FID)	NA		

Total Volatile Hydrocarbons			
Lab #:	164459	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066.00	Analysis:	8015B
Field ID:	ZZZZZZZZZZ	Batch#:	80397
MSS Lab ID:	164458-001	Sampled:	03/27/03
Matrix:	Water	Received:	03/28/03
Units:	ug/L	Analyzed:	03/29/03
Diln Fac:	1.000		

Type: MS Lab ID: QC209483

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	33.99	2,000	2,105	104	67-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	149 *	68-145
Bromofluorobenzene (FID)	137	66-143

Type: MSD Lab ID: QC209484

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	2,058	101	67-120	2	20

Surrogate	%REC	Limits
Trifluorotoluene (FID)	144	68-145
Bromofluorobenzene (FID)	131	66-143

**Total Volatile Hydrocarbons**

Lab #:	164459	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066.00	Analysis:	8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC209494	Batch#:	80399
Matrix:	Water	Analyzed:	03/29/03
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1,000	1,032	103	79-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	112	68-145
Bromofluorobenzene (FID)	93	66-143

**Total Volatile Hydrocarbons**

Lab #:	164459	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066.00	Analysis:	8015B
Matrix:	Water	Batch#:	80399
Diln Fac:	1.000	Analyzed:	03/29/03

Type: BS Lab ID: QC209495

Analyte	Result
Gasoline C7-C12	NA

Surrogate	%REC	Limits
Trifluorotoluene (FID)	96	68-145
Bromofluorobenzene (FID)	92	66-143

Type: BSD Lab ID: QC209496

Analyte	Result
Gasoline C7-C12	NA

Surrogate	%REC	Limits
Trifluorotoluene (FID)	97	68-145
Bromofluorobenzene (FID)	95	66-143

Total Volatile Hydrocarbons			
Lab #:	164459	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066.00	Analysis:	8015B
Field ID:	ZZZZZZZZZZ	Batch#:	80399
MSS Lab ID:	164458-004	Sampled:	03/27/03
Matrix:	Water	Received:	03/28/03
Units:	ug/L	Analyzed:	03/29/03
Diln Fac:	1.000		

Type: MS Lab ID: QC209497

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	427.1	2,000	2,360	97	67-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	109	68-145
Bromofluorobenzene (FID)	99	66-143

Type: MSD Lab ID: QC209498

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	2,343	96	67-120	1	20

Surrogate	%REC	Limits
Trifluorotoluene (FID)	109	68-145
Bromofluorobenzene (FID)	99	66-143



**Total Volatile Hydrocarbons**

Lab #:	164459	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066.00	Analysis:	8015B
Type:	BS	Diln Fac:	1.000
Lab ID:	QC209539	Batch#:	80410
Matrix:	Water	Analyzed:	03/31/03

Analyte	Result
Gasoline C7-C12	NA

Surrogate	%REC	Limits
Trifluorotoluene (FID)	96	68-145
Bromofluorobenzene (FID)	94	66-143

**Total Volatile Hydrocarbons**

Lab #:	164459	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066.00	Analysis:	8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC209540	Batch#:	80410
Matrix:	Water	Analyzed:	03/31/03
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1,000	883.6	88	79-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	109	68-145
Bromofluorobenzene (FID)	94	66-143

Total Volatile Hydrocarbons			
Lab #:	164459	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066.00	Analysis:	8015B
Field ID:	ZZZZZZZZZZ	Batch#:	80410
MSS Lab ID:	164469-010	Sampled:	03/27/03
Matrix:	Water	Received:	03/28/03
Units:	ug/L	Analyzed:	03/31/03
Diln Fac:	1.000		

Type: MS Lab ID: QC209623

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	23.04	2,000	2,013	100	67-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	112	68-145
Bromofluorobenzene (FID)	101	66-143

Type: MSD Lab ID: QC209624

Analyte	Spiked	Result	%REC	Limits	RPD	Lin
Gasoline C7-C12	2,000	2,002	99	67-120	1	20

Surrogate	%REC	Limits
Trifluorotoluene (FID)	113	68-145
Bromofluorobenzene (FID)	102	66-143

**Total Volatile Hydrocarbons**

Lab #:	164459	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066.00	Analysis:	8015B
Type:	BSD	Diln Fac:	1.000
Lab ID:	QC209625	Batch#:	80410
Matrix:	Water	Analyzed:	03/31/03

Analyte	Result
Gasoline C7-C12	NA

Surrogate	%REC	Limits
Trifluorotoluene (FID)	100	68-145
Bromofluorobenzene (FID)	101	66-143

Purgeable Halocarbons by GC/MS

Lab #:	164459	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066.00	Analysis:	EPA 8260B
Field ID:	MW-01 03Q1	Batch#:	80454
Lab ID:	164459-001	Sampled:	03/28/03
Matrix:	Water	Received:	03/28/03
Units:	ug/L	Analyzed:	04/01/03
Diln Fac:	7.143		

Analyte	Result	RL
Chloromethane	ND	7.1
Vinyl Chloride	ND	3.6
Bromomethane	ND	7.1
Chloroethane	ND	7.1
Trichlorofluoromethane	ND	7.1
Freon 113	ND	7.1
1,1-Dichloroethene	ND	3.6
Methylene Chloride	ND	140
trans-1,2-Dichloroethene	ND	3.6
1,1-Dichloroethane	ND	3.6
cis-1,2-Dichloroethene	ND	3.6
Chloroform	ND	7.1
1,1,1-Trichloroethane	ND	3.6
Carbon Tetrachloride	ND	3.6
1,2-Dichloroethane	ND	3.6
Trichloroethene	ND	3.6
1,2-Dichloropropane	ND	3.6
Bromodichloromethane	ND	3.6
cis-1,3-Dichloropropene	ND	3.6
trans-1,3-Dichloropropene	ND	3.6
1,1,2-Trichloroethane	ND	3.6
Tetrachloroethene	ND	3.6
Dibromochloromethane	ND	3.6
Chlorobenzene	ND	3.6
Bromoform	ND	3.6
1,1,2,2-Tetrachloroethane	ND	3.6
1,3-Dichlorobenzene	ND	3.6
1,4-Dichlorobenzene	ND	3.6
1,2-Dichlorobenzene	ND	3.6

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	96	77-130
Toluene-d8	102	80-120
Bromofluorobenzene	108	80-120

ND= Not Detected  
RL= Reporting Limit  
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**Purgeable Halocarbons by GC/MS**

Lab #:	164459	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066.00	Analysis:	EPA 8260B
Field ID:	MW-02 03Q1	Batch#:	80417
Lab ID:	164459-002	Sampled:	03/28/03
Matrix:	Water	Received:	03/28/03
Units:	ug/L	Analyzed:	03/31/03
Diln Fac:	25.00		

Analyte	Result	RL
Chloromethane	ND	25
Vinyl Chloride	ND	13
Bromomethane	ND	25
Chloroethane	ND	25
Trichlorofluoromethane	ND	25
Freon 113	ND	25
1,1-Dichloroethene	ND	13
Methylene Chloride	ND	500
trans-1,2-Dichloroethene	ND	13
1,1-Dichloroethane	ND	13
cis-1,2-Dichloroethene	ND	13
Chloroform	ND	25
1,1,1-Trichloroethane	ND	13
Carbon Tetrachloride	ND	13
1,2-Dichloroethane	14	13
Trichloroethene	ND	13
1,2-Dichloropropane	ND	13
Bromodichloromethane	ND	13
cis-1,3-Dichloropropene	ND	13
trans-1,3-Dichloropropene	ND	13
1,1,2-Trichloroethane	ND	13
Tetrachloroethene	ND	13
Dibromochloromethane	ND	13
Chlorobenzene	ND	13
Bromoform	ND	13
1,1,2,2-Tetrachloroethane	ND	13
1,3-Dichlorobenzene	ND	13
1,4-Dichlorobenzene	ND	13
1,2-Dichlorobenzene	ND	13

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	94	77-130
Toluene-d8	98	80-120
Bromofluorobenzene	114	80-120

ND= Not Detected  
 RL= Reporting Limit  
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**Purgeable Halocarbons by GC/MS**

Lab #:	164459	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066.00	Analysis:	EPA 8260B
Field ID:	MW-07 03Q1	Batch#:	80377
Lab ID:	164459-003	Sampled:	03/28/03
Matrix:	Water	Received:	03/28/03
Units:	ug/L	Analyzed:	03/28/03
Diln Fac:	1.000		

Analyte	Result	RL
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Freon 113	ND	1.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	20
trans-1,2-Dichloroethene	ND	0.5
1,1-Dichloroethane	ND	0.5
cis-1,2-Dichloroethene	ND	0.5
Chloroform	ND	1.0
1,1,1-Trichloroethane	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
cis-1,3-Dichloropropene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
Chlorobenzene	ND	0.5
Bromoform	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	92	77-130
Toluene-d8	100	80-120
Bromofluorobenzene	107	80-120

ND= Not Detected  
 RL= Reporting Limit  
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**Purgeable Halocarbons by GC/MS**

Lab #:	164459	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066.00	Analysis:	EPA 8260B
Field ID:	MW-08 03Q1	Batch#:	80417
Lab ID:	164459-004	Sampled:	03/28/03
Matrix:	Water	Received:	03/28/03
Units:	ug/L	Analyzed:	03/31/03
Diln Fac:	5.000		

Analyte	Result	RL
Chloromethane	ND	5.0
Vinyl Chloride	41	2.5
Bromomethane	ND	5.0
Chloroethane	ND	5.0
Trichlorofluoromethane	ND	5.0
Freon 113	ND	5.0
1,1-Dichloroethene	ND	2.5
Methylene Chloride	ND	100
trans-1,2-Dichloroethene	39	2.5
1,1-Dichloroethane	ND	2.5
cis-1,2-Dichloroethene	700	2.5
Chloroform	ND	5.0
1,1,1-Trichloroethane	ND	2.5
Carbon Tetrachloride	ND	2.5
1,2-Dichloroethane	ND	2.5
Trichloroethene	3.5	2.5
1,2-Dichloropropane	ND	2.5
Bromodichloromethane	ND	2.5
cis-1,3-Dichloropropene	ND	2.5
trans-1,3-Dichloropropene	ND	2.5
1,1,2-Trichloroethane	ND	2.5
Tetrachloroethene	ND	2.5
Dibromochloromethane	ND	2.5
Chlorobenzene	ND	2.5
Bromoform	ND	2.5
1,1,2,2-Tetrachloroethane	ND	2.5
1,3-Dichlorobenzene	ND	2.5
1,4-Dichlorobenzene	ND	2.5
1,2-Dichlorobenzene	ND	2.5

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	95	77-130
Toluene-d8	101	80-120
Bromofluorobenzene	109	80-120

ND= Not Detected  
 RL= Reporting Limit  
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**Purgeable Halocarbons by GC/MS**

Lab #:	164459	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066.00	Analysis:	EPA 8260B
Field ID:	MW-09 03Q1	Batch#:	80454
Lab ID:	164459-005	Sampled:	03/28/03
Matrix:	Water	Received:	03/28/03
Units:	ug/L	Analyzed:	04/01/03
Diln Fac:	40.00		

Analyte	Result	RL
Chloromethane	ND	40
Vinyl Chloride	ND	20
Bromomethane	ND	40
Chloroethane	ND	40
Trichlorofluoromethane	ND	40
Freon 113	ND	40
1,1-Dichloroethene	ND	20
Methylene Chloride	ND	800
trans-1,2-Dichloroethene	ND	20
1,1-Dichloroethane	ND	20
cis-1,2-Dichloroethene	ND	20
Chloroform	ND	40
1,1,1-Trichloroethane	ND	20
Carbon Tetrachloride	ND	20
1,2-Dichloroethane	ND	20
Trichloroethene	ND	20
1,2-Dichloropropane	ND	20
Bromodichloromethane	ND	20
cis-1,3-Dichloropropene	ND	20
trans-1,3-Dichloropropene	ND	20
1,1,2-Trichloroethane	ND	20
Tetrachloroethene	ND	20
Dibromochloromethane	ND	20
Chlorobenzene	ND	20
Bromoform	ND	20
1,1,2,2-Tetrachloroethane	ND	20
1,3-Dichlorobenzene	ND	20
1,4-Dichlorobenzene	ND	20
1,2-Dichlorobenzene	ND	20

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	94	77-130
Toluene-d8	100	80-120
Bromofluorobenzene	107	80-120

ND= Not Detected  
 RL= Reporting Limit  
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**Purgeable Halocarbons by GC/MS**

Lab #:	164459	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066.00	Analysis:	EPA 8260B
Field ID:	MW-10 03Q1	Batch#:	80417
Lab ID:	164459-006	Sampled:	03/28/03
Matrix:	Water	Received:	03/28/03
Units:	ug/L	Analyzed:	03/31/03
Diln Fac:	1.000		

Analyte	Result	RL
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Freon 113	ND	1.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	20
trans-1,2-Dichloroethene	ND	0.5
1,1-Dichloroethane	ND	0.5
cis-1,2-Dichloroethene	ND	0.5
Chloroform	ND	1.0
1,1,1-Trichloroethane	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
cis-1,3-Dichloropropene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
Chlorobenzene	ND	0.5
Bromoform	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	97	77-130
Toluene-d8	104	80-120
Bromofluorobenzene	109	80-120

ND= Not Detected  
 RL= Reporting Limit  
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**Purgeable Halocarbons by GC/MS**

Lab #:	164459	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066.00	Analysis:	EPA 8260B
Field ID:	MW-11 03Q1	Batch#:	80417
Lab ID:	164459-007	Sampled:	03/28/03
Matrix:	Water	Received:	03/28/03
Units:	ug/L	Analyzed:	03/31/03
Diln Fac:	1.000		

Analyte	Result	RL
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Freon 113	ND	1.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	20
trans-1,2-Dichloroethene	ND	0.5
1,1-Dichloroethane	ND	0.5
cis-1,2-Dichloroethene	ND	0.5
Chloroform	ND	1.0
1,1,1-Trichloroethane	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
cis-1,3-Dichloropropene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
Chlorobenzene	ND	0.5
Bromoform	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	92	77-130
Toluene-d8	99	80-120
Bromofluorobenzene	106	80-120

ND= Not Detected  
 RL= Reporting Limit  
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**Purgeable Halocarbons by GC/MS**

Lab #:	164459	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066.00	Analysis:	EPA 8260B
Field ID:	MW-12 03Q1	Batch#:	80417
Lab ID:	164459-008	Sampled:	03/28/03
Matrix:	Water	Received:	03/28/03
Units:	ug/L	Analyzed:	03/31/03
Diln Fac:	1.429		

Analyte	Result	RL
Chloromethane	ND	1.4
Vinyl Chloride	0.9	0.7
Bromomethane	ND	1.4
Chloroethane	ND	1.4
Trichlorofluoromethane	ND	1.4
Freon 113	ND	1.4
1,1-Dichloroethene	ND	0.7
Methylene Chloride	ND	29
trans-1,2-Dichloroethene	53	0.7
1,1-Dichloroethane	ND	0.7
cis-1,2-Dichloroethene	53	0.7
Chloroform	ND	1.4
1,1,1-Trichloroethane	ND	0.7
Carbon Tetrachloride	ND	0.7
1,2-Dichloroethane	ND	0.7
Trichloroethene	190	0.7
1,2-Dichloropropane	ND	0.7
Bromodichloromethane	ND	0.7
cis-1,3-Dichloropropene	ND	0.7
trans-1,3-Dichloropropene	ND	0.7
1,1,2-Trichloroethane	ND	0.7
Tetrachloroethene	ND	0.7
Dibromochloromethane	ND	0.7
Chlorobenzene	ND	0.7
Bromoform	ND	0.7
1,1,2,2-Tetrachloroethane	ND	0.7
1,3-Dichlorobenzene	ND	0.7
1,4-Dichlorobenzene	ND	0.7
1,2-Dichlorobenzene	ND	0.7

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	96	77-130
Toluene-d8	104	80-120
Bromofluorobenzene	110	80-120

ND= Not Detected  
 RL= Reporting Limit  
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**Purgeable Halocarbons by GC/MS**

Lab #:	164459	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066.00	Analysis:	EPA 8260B
Field ID:	MW-13 03Q1	Batch#:	80454
Lab ID:	164459-009	Sampled:	03/28/03
Matrix:	Water	Received:	03/28/03
Units:	ug/L	Analyzed:	04/01/03
Diln Fac:	1.000		

Analyte	Result	RL
Chloromethane	ND	1.0
Vinyl Chloride	1.8	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Freon 113	ND	1.0
1,1-Dichloroethene	1.9	0.5
Methylene Chloride	ND	20
trans-1,2-Dichloroethene	13	0.5
1,1-Dichloroethane	ND	0.5
cis-1,2-Dichloroethene	150	0.5
Chloroform	ND	1.0
1,1,1-Trichloroethane	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Trichloroethene	85	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
cis-1,3-Dichloropropene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
Chlorobenzene	ND	0.5
Bromoform	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	93	77-130
Toluene-d8	101	80-120
Bromofluorobenzene	102	80-120

ND= Not Detected  
 RL= Reporting Limit  
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**Purgeable Halocarbons by GC/MS**

Lab #:	164459	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066.00	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	80377
Units:	ug/L	Analyzed:	03/28/03
Diln Fac:	1.000		

Type: BS Lab ID: QC209401

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	50.00	41.40	83	71-131
Trichloroethene	50.00	41.76	84	78-120
Chlorobenzene	50.00	42.42	85	80-120

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	93	77-130
Toluene-d8	99	80-120
Bromofluorobenzene	103	80-120

Type: BSD Lab ID: QC209402

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	50.00	44.05	88	71-131	6	20
Trichloroethene	50.00	43.58	87	78-120	4	20
Chlorobenzene	50.00	43.53	87	80-120	3	20

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	94	77-130
Toluene-d8	102	80-120
Bromofluorobenzene	103	80-120

**Purgeable Halocarbons by GC/MS**

Lab #:	164459	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066.00	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC209403	Batch#:	80377
Matrix:	Water	Analyzed:	03/28/03
Units:	ug/L		

Analyte	Result	RL
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Freon 113	ND	1.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	20
trans-1,2-Dichloroethene	ND	0.5
1,1-Dichloroethane	ND	0.5
cis-1,2-Dichloroethene	ND	0.5
Chloroform	ND	1.0
1,1,1-Trichloroethane	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
cis-1,3-Dichloropropene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
Chlorobenzene	ND	0.5
Bromoform	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	91	77-130
Toluene-d8	99	80-120
Bromofluorobenzene	100	80-120

ND= Not Detected  
RL= Reporting Limit  
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**Purgeable Halocarbons by GC/MS**

Lab #:	164459	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066.00	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC209404	Batch#:	80377
Matrix:	Water	Analyzed:	03/28/03
Units:	ug/L		

Analyte	Result	RL
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Freon 113	ND	1.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	20
trans-1,2-Dichloroethene	ND	0.5
1,1-Dichloroethane	ND	0.5
cis-1,2-Dichloroethene	ND	0.5
Chloroform	ND	1.0
1,1,1-Trichloroethane	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
cis-1,3-Dichloropropene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
Chlorobenzene	ND	0.5
Bromoform	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5

Surrogate	REC	Limits
1,2-Dichloroethane-d4	93	77-130
Toluene-d8	100	80-120
Bromofluorobenzene	107	80-120

ND= Not Detected  
RL= Reporting Limit  
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**Purgeable Halocarbons by GC/MS**

Lab #:	164459	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066.00	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	80417
Units:	ug/L	Analyzed:	03/31/03
Diln Fac:	1.000		

Type: BS Lab ID: QC209567

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	50.00	41.73	83	71-131
Trichloroethene	50.00	42.93	86	78-120
Chlorobenzene	50.00	44.25	88	80-120

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	94	77-130
Toluene-d8	100	80-120
Bromofluorobenzene	104	80-120

Type: BSD Lab ID: QC209568

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	50.00	47.59	95	71-131	13	20
Trichloroethene	50.00	47.56	95	78-120	10	20
Chlorobenzene	50.00	48.24	96	80-120	9	20

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	93	77-130
Toluene-d8	100	80-120
Bromofluorobenzene	98	80-120

**Purgeable Halocarbons by GC/MS**

Lab #:	164459	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066.00	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC209569	Batch#:	80417
Matrix:	Water	Analyzed:	03/31/03
Units:	ug/L		

Analyte	Result	RL
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Freon 113	ND	1.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	20
trans-1,2-Dichloroethene	ND	0.5
1,1-Dichloroethane	ND	0.5
cis-1,2-Dichloroethene	ND	0.5
Chloroform	ND	1.0
1,1,1-Trichloroethane	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
cis-1,3-Dichloropropene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
Chlorobenzene	ND	0.5
Bromoform	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	88	77-130
Toluene-d8	101	80-120
Bromofluorobenzene	111	80-120

ND= Not Detected  
 RL= Reporting Limit  
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Purgeable Halocarbons by GC/MS			
Lab #:	164459	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066.00	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	80454
Units:	ug/L	Analyzed:	04/01/03
Diln Fac:	1.000		

Type: BS Lab ID: QC209704

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	50.00	44.04	88	71-131
Trichloroethene	50.00	44.30	89	78-120
Chlorobenzene	50.00	47.37	95	80-120

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	96	77-130
Toluene-d8	101	80-120
Bromofluorobenzene	101	80-120

Type: BSD Lab ID: QC209705

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	50.00	43.68	87	71-131	1	20
Trichloroethene	50.00	44.34	89	78-120	0	20
Chlorobenzene	50.00	47.80	96	80-120	1	20

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	95	77-130
Toluene-d8	100	80-120
Bromofluorobenzene	106	80-120

**Purgeable Halocarbons by GC/MS**

Lab #:	164459	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066.00	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC209706	Batch#:	80454
Matrix:	Water	Analyzed:	04/01/03
Units:	ug/L		

Analyte	Result	RL
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Freon 113	ND	1.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	20
trans-1,2-Dichloroethene	ND	0.5
1,1-Dichloroethane	ND	0.5
cis-1,2-Dichloroethene	ND	0.5
Chloroform	ND	1.0
1,1,1-Trichloroethane	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
cis-1,3-Dichloropropene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
Chlorobenzene	ND	0.5
Bromoform	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	91	77-130
Toluene-d8	101	80-120
Bromofluorobenzene	104	80-120

ND= Not Detected  
 RL= Reporting Limit  
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**Purgeable Halocarbons by GC/MS**

Lab #:	164459	Location:	Sausage Factory
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	70-97066.00	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC209707	Batch#:	80454
Matrix:	Water	Analyzed:	04/01/03
Units:	ug/L		

Analyte	Result	RL
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Freon 113	ND	1.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	20
trans-1,2-Dichloroethene	ND	0.5
1,1-Dichloroethane	ND	0.5
cis-1,2-Dichloroethene	ND	0.5
Chloroform	ND	1.0
1,1,1-Trichloroethane	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
cis-1,3-Dichloropropene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
Chlorobenzene	ND	0.5
Bromoform	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	92	77-130
Toluene-d8	100	80-120
Bromofluorobenzene	113	80-120

ND= Not Detected  
 RL= Reporting Limit  
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