

LETTER OF TRANSMITTAL

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TO: Susan Hugo
Alameda County Health Agency
Department of Environmental Health
1131 Harbor Bay Parkway, 2nd Floor
Alameda, California 94502

DATE: 2 April 2001
PROJ. NO. 990016.04
PROJECT: Simeon
64th Street Properties
Emeryville, California

WE ARE SENDING YOU THE FOLLOWING:

One Original Copy of the Quarterly Groundwater Monitoring Report for the 64th Street Properties located in Emeryville, California.

Please call Derby Davidson or myself at 650-578-1172 if you have any questions or need additional information.

Very truly yours,

ERLER & KALINOWSKI, INC.



Christopher Kubacki

*If enclosures are not as noted,
please advise us at once.*

**Quarterly Groundwater Monitoring Report
January to March 2001**

**64th Street Properties
Emeryville, California**

Prepared for:

Simeon Commercial Properties
San Francisco, California

Prepared by:

Erler & Kalinowski, Inc.
(EKI 990016.04)

2 April 2001

**Erler &
Kalinowski, Inc.**

Consulting Engineers and Scientists
1730 So. Amphlett Boulevard, Suite 320
San Mateo, California 94402-2714
(650) 578-1172
Fax: (650) 578-9131

Erler & Kalinowski, Inc.

Consulting Engineers and Scientists

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2 April 2001

Ravi Arulanantham, Ph.D.
California Regional Water Quality Control Board
San Francisco Bay Region
1515 Clay Street, Suite 1400
Oakland, California 94612

Susan Hugo
Alameda County Health Agency
Department of Environmental Health
1131 Harbor Bay Parkway, 2nd Floor
Alameda, California 94502

Subject: Quarterly Groundwater Monitoring Report
January to March 2001
64th Street Properties, Emeryville, California
(EKI 990016.04)

Dear Dr. Arulanantham and Ms. Hugo:

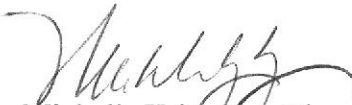
On behalf of Simeon Commercial Properties, Erler & Kalinowski, Inc., is pleased to present this report summarizing results of quarterly groundwater monitoring activities conducted at the 64th Street Properties located at 1480 64th Street, Emeryville, California from January to March 2001. If you have any questions, please call.

Very truly yours,

ERLER & KALINOWSKI, INC.



Derby Davidson, P.E. *for*
Project Engineer



Michelle Kriegman-King, Ph.D.
Project Manager

cc: Pierson Forbes, Simeon Commercial Properties
Maurice Kaufman, City of Emeryville

**Quarterly Groundwater Monitoring Report
January to March 2001
64th Street Properties
Emeryville, California**

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**Quarterly Groundwater Monitoring Report
January to March 2001
64th Street Properties
Emeryville, California**

APPENDICES

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Appendix C	Groundwater Purge Sample Forms for February 2001
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1.0 INTRODUCTION

On behalf of Simeon Commercial Properties ("Simeon"), Erler & Kalinowski, Inc. ("EKI") is pleased to present this report summarizing the monitoring well installation and the results of quarterly groundwater monitoring activities conducted at the 64th Street Properties located at 1480 64th Street in Emeryville, California ("Site") from January to March 2001. Well installation, well development and groundwater monitoring at the Site were conducted in January and February 2001. The location of the Site is shown on Figure 1.

Well installation and groundwater monitoring at the Site was conducted in accordance with the *Final Risk Management Plan for the 64th Street Properties*, dated 30 August 1999 ("RMP"). The RMP was approved in the Alameda County Department of Environmental Health ("ACDEH") letter dated 15 October 1999. The RMP requires installing four monitoring wells on the Site (i.e., SMW-1, SMW-2, SMW-3, and SMW-4), measuring water levels quarterly in these four monitoring wells, collecting groundwater samples quarterly from these wells, and analyzing the groundwater samples for total extractable petroleum hydrocarbons as diesel ("TEPH") quarterly and volatile organic compounds ("VOCs") annually. The approximate locations of these wells are shown on Figure 2. Data from these monitoring events will be reported quarterly to the RWQCB and the ACDEH.

The objectives of the groundwater monitoring program are to monitor TEPH and VOC concentrations in groundwater at the perimeter and downgradient of the Site and verify the stability or decline of TEPH concentrations over time.

2.0 MONITORING WELL INSTALLATION AND DEVELOPMENT

In accordance with the RMP, four monitoring wells were installed on the Site (i.e., SMW-1, SMW-2, SMW-3, and SMW-4) on 25 and 26 January 2001. Permits from the Alameda County Public Works Agency were obtained by EKI prior to well installation (Appendix A). The on-Site wells were installed using a hollow-stem auger drilling method by Gregg Drilling & Testing, Inc. The wells were screened in the shallow water-bearing zone (i.e., between depths of 5 to 15 feet below ground surface). Soil cuttings removed while installing the four on-Site wells were stored on-Site in 55-gallon drums. Simeon will dispose of the soil cuttings in accordance with applicable laws and regulations. Borehole and well construction logs for wells SMW-1 through SMW-4 are included in Appendix B.

Monitoring wells SMW-1, SMW-2, and SMW-3 were developed on 31 January 2001. EKI observed a thin layer of floating product (i.e., less than 0.03 feet) at monitoring well SMW-4. Consequently, this well was not developed to prevent smearing of free-phase hydrocarbons onto the well screen and casing. Development of wells SMW-1, SMW-2, and SMW-3 was conducted by EKI using a clean PVC bailer and surge block. Development volumes ranged between approximately 25 and 40 gallons (4 to 6 well-

casing volumes) of water. Development of the wells continued until water removed from each well was sand-free and no further improvement in water clarity was observed.

3.0 GROUNDWATER MONITORING

Quarterly monitoring at the Site includes measuring groundwater levels and collecting groundwater samples from Site monitoring wells SMW-1 through SMW-4 (Figure 2). EKI conducted monitoring activities at the Site on 1 February 2001.

3.1 Water Level Monitoring

Prior to sampling, EKI measured water levels in each well using a pre-cleaned electronic sounding tape. Water level data obtained by EKI was used to assess the magnitude and direction of the hydraulic gradient in the shallow water-bearing zone at the Site (see Section 3.1 below). Measured water level data are summarized in Table 1.

3.2 Groundwater Sampling and Laboratory Analyses

Prior to sampling, groundwater was purged until at least three of four parameters (temperature, specific conductance, pH, and turbidity) stabilized. Approximately three well-casing volumes of groundwater were removed from each well. Groundwater samples were collected from wells SMW-1, SMW-2, SMW-3, and SMW-4, and a duplicate groundwater sample to evaluate laboratory performance was collected from well SMW-2. Groundwater Purge Sample Forms are included in Appendix C.

Groundwater samples from the wells were collected using PVC bailers and nylon string. Separate disposable PVC bailers were used at each well. Well SMW-4, which contains a thin layer of floating product (i.e., less than 0.03 feet), was sampled through a stilling tube.

Rinsate from equipment cleaning and purged groundwater from the wells were contained and stored on-Site in 55-gallon drums. Simeon will dispose of the rinse water and purged groundwater in accordance with applicable laws and regulations.

Groundwater samples were labeled, logged on a chain-of-custody document, and packed on ice in a chilled ice chest for transport to the laboratory. Samples were analyzed by Curtis & Tompkins, Ltd., for TEPH with silica gel cleanup using EPA Method 8015M and for VOCs using EPA Method 8260. Groundwater analytical results for the 1 February 2001 monitoring event are summarized in Table 2 and are shown on Figures 3 and 4. Copies of laboratory reports from these groundwater analyses are included in Appendix D. Groundwater analytical results are discussed in Section 4.2 below.

4.0 EVALUATION OF HYDRAULIC GRADIENT AND GROUNDWATER SAMPLING RESULTS

This section summarizes (a) hydraulic groundwater gradient information obtained at the Site on 1 February 2001, (b) groundwater analytical results from on-Site groundwater monitoring conducted on 1 February 2001, and (c) quality control results.

4.1 Hydraulic Gradient

The groundwater potentiometric surface contour map for the Site shallow water-bearing zone shown on Figure 2 is based on water levels measured in wells SMW-1, SMW-2, SMW-3, and SMW-4 on 1 February 2001. As shown on Figure 2, the direction of the hydraulic gradient in the shallow water-bearing zone is westerly across the southwestern portion of the Site. The estimated magnitude of the hydraulic gradient across the Site is 0.007 for February 2001.

4.2 Groundwater Analytical Results

Current TEPH and VOC data detected in groundwater samples collected from wells SMW-1, SMW-2, SMW-3, and SMW-4 are summarized in Table 2. These current data are also presented on Figures 3 and 4. Data presented on Figures 3 and 4 also include analytical results of grab groundwater samples collected in 1995 and 1999, as presented in *Phase I and Phase II Environmental Site Assessment for 64th Street Properties*, dated 20 May 1999 ("ESA").

4.2.1 TEPH Groundwater Sampling Data

In February 2001, individual TEPH concentrations were not detected above 50 micrograms per liter ("ug/L") in groundwater samples collected from downgradient monitoring wells SMW-1 and SMW-2. TEPH was detected at 140 ug/L in the groundwater sample collected from downgradient monitoring well SMW-3, and at 360 ug/L in the groundwater sample collected from monitoring well SMW-4 in February 2001. As indicated above, the groundwater sample from monitoring well SMW-4 was collected through a stilling tube because of the presence of a thin layer of floating product. The measured TEPH concentrations should represent levels dissolved in groundwater on the southern property boundary.

As shown on Figure 3, TEPH data from February 2001 are generally consistent with or have decreased in comparison to prior Site data. Significant off-site migration of TEPH from the former refinery does not appear to have occurred.

4.2.1 VOC Groundwater Sampling Data

In February 2001, 14 ug/L of cis-1,2-dichloroethene ("c12DCE") was detected in the groundwater sample collected from monitoring well SMW-3. No other VOCs were detected in the SMW-3 sample. No VOCs were detected in any of the samples collected from SMW-1, SMW-2, and SMW-4.

As shown on Figure 4, VOC data from February 2001 are generally consistent with or have decreased in comparison to prior Site data. As discussed in the ESA, VOCs in Site groundwater appear to originate from off-Site properties.

4.3 Quality Control Results

One duplicate water sample was collected during monitoring well sampling activities in February 2001. Analytical results of the duplicate sample are reported in Table 2. The results of the duplicate sample are consistent with the environmental field sample.

All other QA/QC analytical results, including matrix spike/matrix spike duplicates, laboratory blanks, and surrogates, were within (a) generally accepted laboratory QA/QC protocols and (b) requirements of the laboratory's internal quality control procedures. The data collected during the February 2001 monitoring event are considered acceptable and useable for their intended use.

TABLE 1
SUMMARY OF GROUNDWATER ELEVATION DATA

64th Street Properties, Emeryville, California

Well Number	Date	Well Elevation (1) (Feet Above MSL)	Depth to Water (Feet)	Groundwater Elevation (Feet Above MSL)
SMW-1	02/01/01	12.21	5.68	6.53
SMW-2	02/01/01	11.54	4.67	6.87
SMW-3	02/01/01	12.31	5.60	6.71
SMW-4	02/01/01	12.25	2.41 (2)	9.84 (2)

Notes:

- (1) Surveyed elevation from mark on the top of the PVC casing; feet above mean sea level.
- (2) A thin layer of floating product was observed in this well. The floating product thickness was less than 0.03 feet.

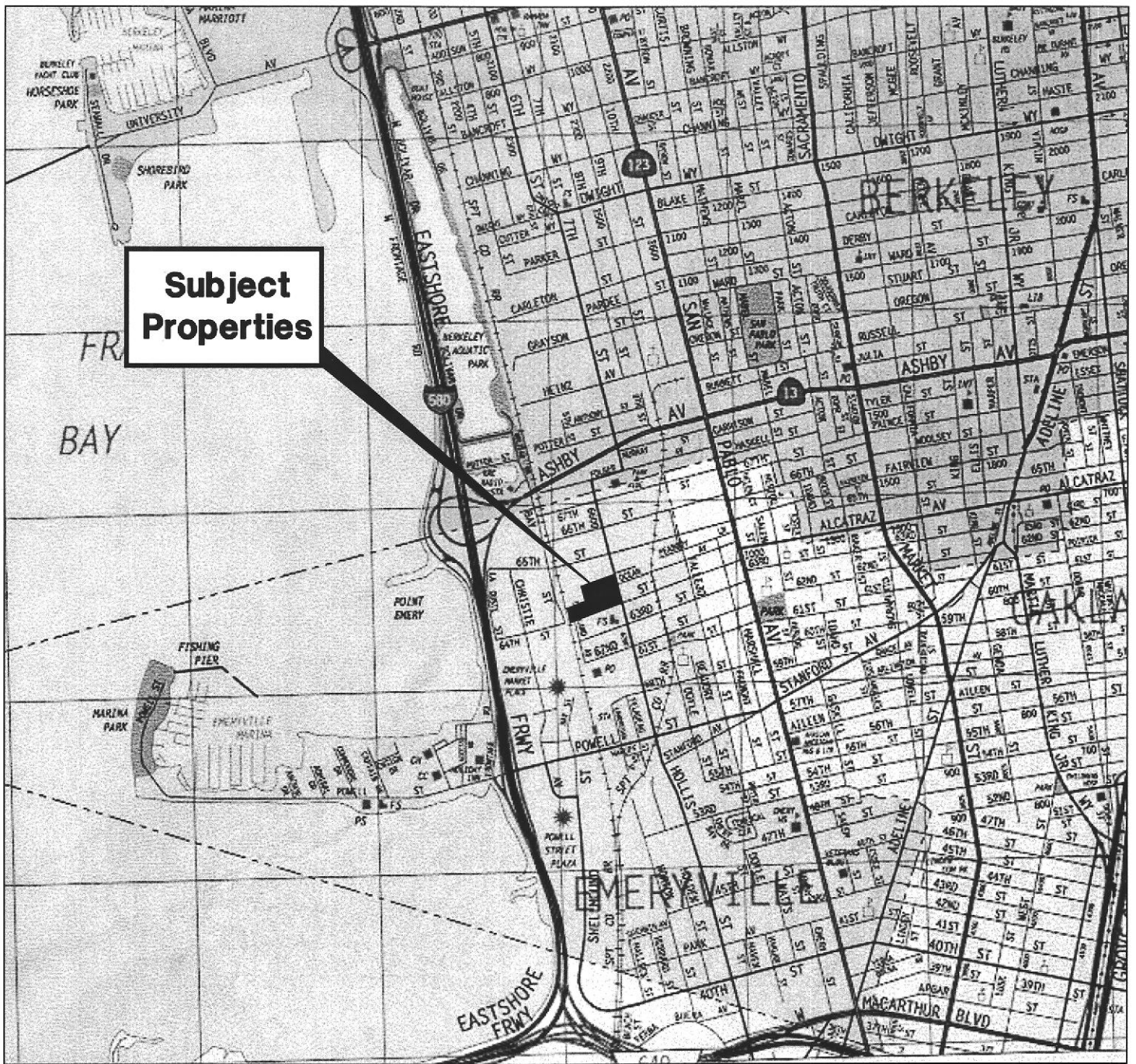
**TABLE 2
SUMMARY OF GROUNDWATER
CHEMICAL ANALYTICAL DATA**

64th Street Properties, Emeryville, California

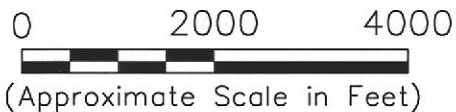
Well Number	Date Sampled	TEPH (1) (ug/L) (5)	PCE (2) (ug/L)	TCE (3) (ug/L)	c12DCE (4) (ug/L)
SMW-1	02/01/01	<50 (6)	<5.0	<5.0	<5.0
SMW-2	02/01/01	<50	<5.0	<5.0	<5.0
DUP-2 (7)	02/01/01	<50	<5.0	<5.0	<5.0
SMW-3	02/01/01	140	<5.0	<5.0	14
SMW-4	02/01/01	360	<5.0	<5.0	<5.0

Notes and abbreviations:

- (1) TEPH = total extractable hydrocarbons (quantified as diesel). Samples were analyzed after performance of a silica gel cleanup in the laboratory.
- (2) PCE = tetrachloroethene
- (3) TCE = trichloroethene
- (4) c12DCE = cis-1,2-dichloroethene
- (5) ug/L = micrograms per liter (ppb)
- (6) <50 = not detected at laboratory detection limit of 50 ug/L
- (7) DUP-2 = duplicate sample from SMW-2
- (8) EPA Method 8260 analytes not listed were not detected.



Basemap Source: Thomas Guide Maps.



Notes:

1. All locations are approximate.

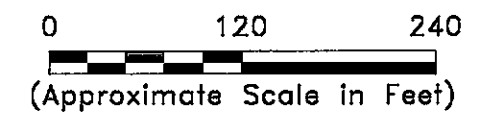
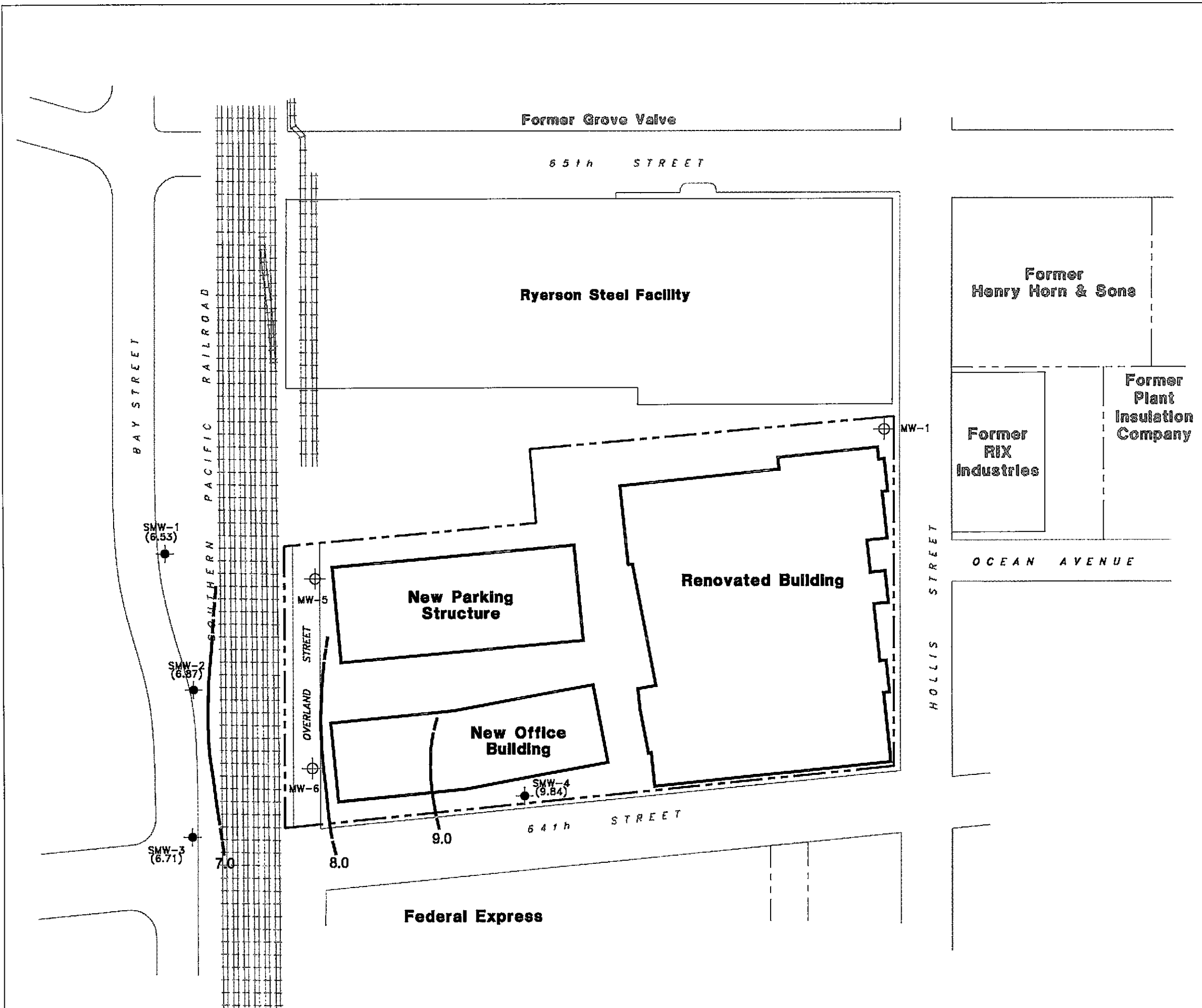
Erler & Kalinowski, Inc.

Site Location

64th Street Properties
Emeryville, CA

March 2001
EKI 990016.04

Figure 1



LEGEND

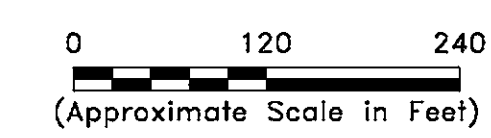
- Railroad Tracks
- Approximate Property Boundary
- Boundary of 64th Street Properties
- Monitoring Well Destroyed Prior to Redevelopment
- Monitoring Well Constructed After Redevelopment
- 7.0 Estimated Groundwater Potentiometric Surface, in Feet Above Mean Sea Level
- (6.53) Water Level in Feet Above Mean Sea Level

Notes:

1. All locations are approximate.
2. Basemap taken from Sanborn maps dated 1911 and 1967.
3. Groundwater elevations measured 1 February 2001.

Erler & Kalinowski, Inc.

Estimated Groundwater Potentiometric Surface Contour Map
64th Street Properties
Emeryville, CA
March 2001
EKI 990016.04
Figure 2



LEGEND

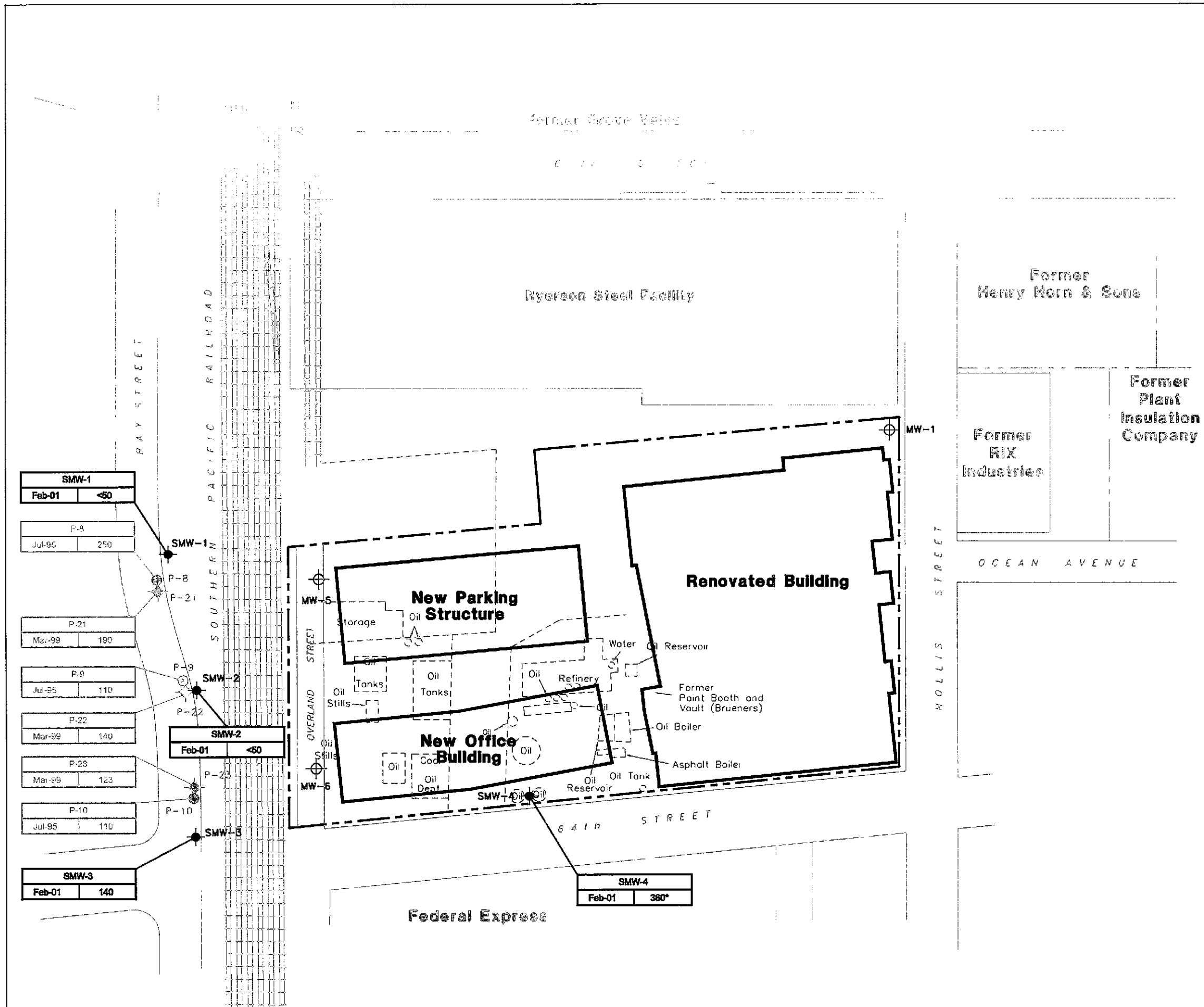
- Railroad Tracks
- Approximate Property Boundary
- Boundary of 64th Street Properties
- Historical Site Features (1911 Sanborn Map)
- Monitoring Well Destroyed Prior to Redevelopment
- Grab Groundwater Sampling Location Collected by EKI, 1995
- Grab Groundwater Sampling Location Collected by EKI, 1999
- Monitoring Well Constructed After Redevelopment

Notes:

1. All locations are approximate.
2. Basemap taken from Sanborn maps dated 1911 and 1967.
3. Concentrations are in ug/L.
4. "*" indicates that a sheen was observed in this well. Groundwater sample was collected through a stilling tube.

Erler & Kalinowski, Inc.

Concentrations of Total Extractable Petroleum Hydrocarbons in Groundwater
 64th Street Properties
 Emeryville, CA
 March 2001
 EKI 990016.04
 Figure 3



SMW-1	
Feb-01	<50

P-A	
Jul-95	250

P-21	
Mar-99	190

P-9	
Jul-95	110

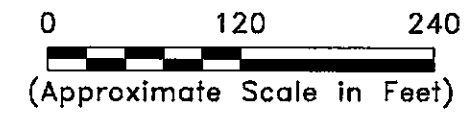
P-22	
Mar-99	140

P-23	
Mar-99	123

P-10	
Jul-95	110

SMW-3	
Feb-01	140

SMW-4	
Feb-01	380*



LEGEND

- Railroad Tracks
- Approximate Property Boundary
- Boundary of 64th Street Properties
- Historical Site Features (1911 Sanborn Map)
- Monitoring Well Destroyed Prior to Redevelopment
- Grab Groundwater Sampling Location Collected by EKI, 1999
- Monitoring Well Constructed After Redevelopment

Abbreviations:

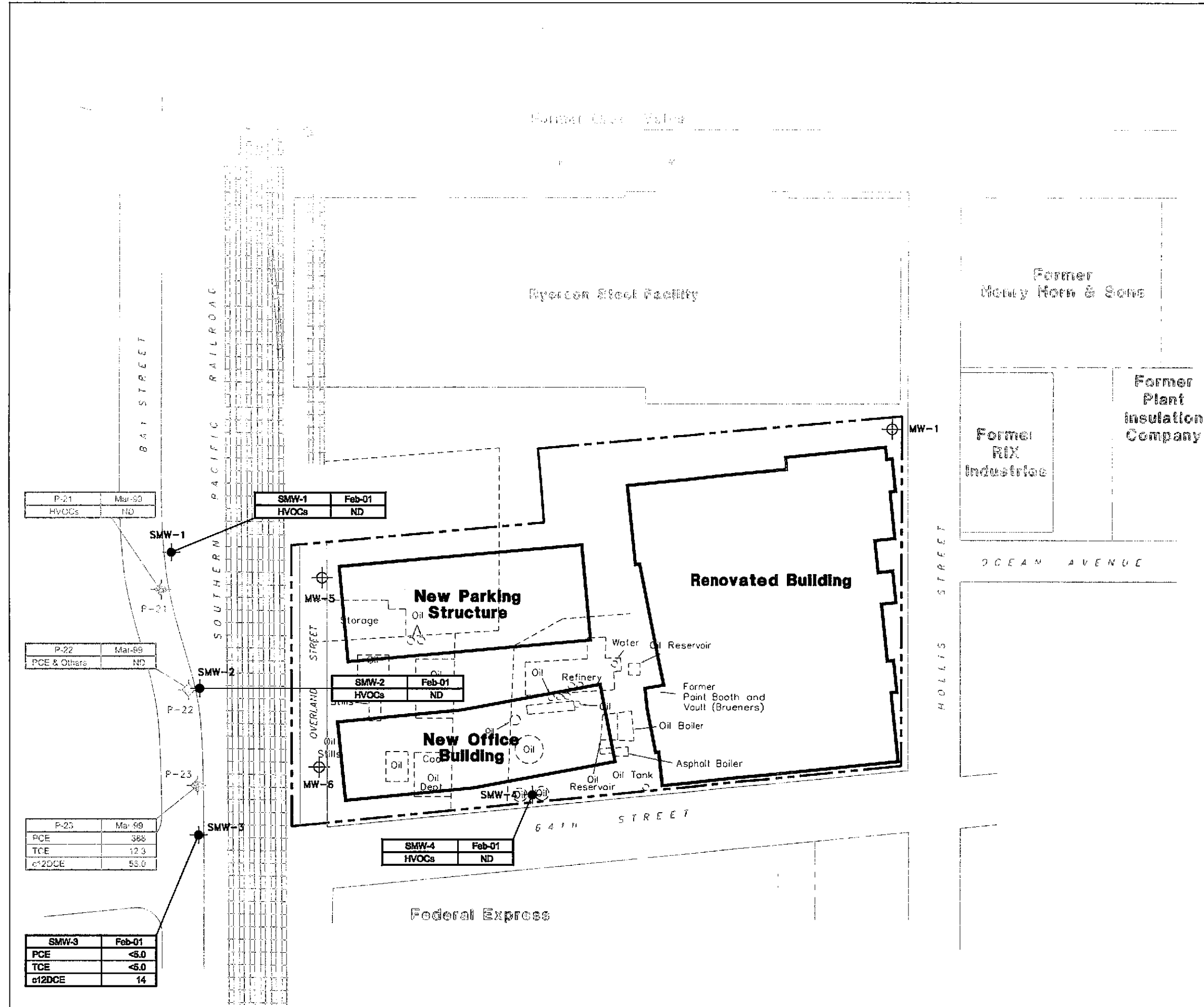
- HVOCs = Halogenated Volatile Organic Compounds
- PCE = Tetrachloroethene
- TCE = Trichloroethene
- c12DCE = cis-1,2-Dichloroethene
- ND = Not Detected at Laboratory Detection Limit

Notes:

1. All locations are approximate.
2. Basemap taken from Sanborn maps dated 1911 and 1967.
3. Concentrations are in ug/L.

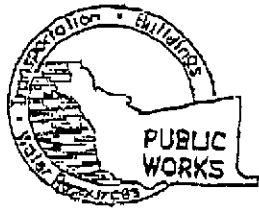
Erler & Kalinowski, Inc.

Concentrations of Halogenated Volatile Organic Compounds in Groundwater
 64th Street Properties
 Emeryville, CA
 March 2001
 EKI 990016.04
 Figure 4



APPENDIX A

Alameda County Public Works Agency Permits



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
399 ELMHURST ST. HAYWARD CA. 94544-1395
PHONE (510) 670-5554
FAX (510) 782-1939

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT 1410 64th Street Emeryville
Northern side of 64th Street
near Hollis Street
(See attached Figure)

PERMIT NUMBER W01-008
WELL NUMBER _____
APN _____

CLIENT
Name Simon Commercial Properties
Address 665 Montgomery #1190 Phone (415) 960-2002
City SE CA Zip 94111-2630

APPLICANT
Name Eder and Kalinowski Inc.
Logan Hansen Fax (650) 578-9131
Address 1730 S. Amphlett #320 Phone (650) 578-1172
City San Mateo CA Zip 94402-2714

TYPE OF PROJECT
Well Construction Geotechnical Investigation
Cathodic Protection General
Water Supply Contamination
Monitoring Well Destruction

PROPOSED WATER SUPPLY WELL USE
New Domestic Replacement Domestic
Municipal Irrigation
Industrial Other _____

DRILLING METHOD:
Mud Rotary Air Rotary Auger
Cable Other

DRILLER'S NAME Gregg Drilling and Testing Inc.
DRILLER'S LICENSE NO. 485165

WELL PROJECTS
Drill Hole Diameter 8 in. Maximum
Casing Diameter 4 in. Depth ~15 ft.
Surface Seal Depth ~5 ft. Owner's Well Number SAW-4

GEOTECHNICAL PROJECTS
Number of Borings _____ Maximum
Hole Diameter _____ in. Depth _____ ft.

ESTIMATED STARTING DATE 25 January 2001
ESTIMATED COMPLETION DATE 25 January 2001

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE [Signature] DATE 1-3-00

PLEASE PRINT NAME Logan Hansen Rev. 5-13-00

PERMIT CONDITIONS

Circled Permit Requirements Apply

- A. GENERAL
 1. A permit application should be submitted to us to arrive at the ACPWA office five days prior to proposed starting date.
 2. Submit to ACPWA within 60 days after completion of permitted original Department of Water Resources-Well Completion Report.
 3. Permit is void if project not begun within 90 days of approval date.
- B. WATER SUPPLY WELLS
 1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
 2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.
- C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS
 1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
 2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.
- D. GEOTECHNICAL
Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings.
- E. CATHODIC
Fill hole annular zone with concrete placed by tremie.
- F. WELL DESTRUCTION
Send a map of work site. A separate permit is required for wells deeper than 45 feet.
- G. SPECIAL CONDITIONS

NOTE: One application must be submitted for each well or well destruction. Multiple borings on one application are acceptable for geotechnical and contamination investigations.

APPROVED [Signature] DATE 1-3-01



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
199 E. HURST ST. HAYWARD CA. 94544-1395
PHONE (510) 670-5554
FAX (510) 782-1939

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT 1410 64th Street, Emeryville
Eastern Side of Bay Street near
24th Street
(See attached Figure)

PERMIT NUMBER W01-009
WELL NUMBER _____
APN _____

PERMIT CONDITIONS

Circled Permit Requirements Apply

CLIENT

Name Simen Commercial Properties
Address 655 Montgomery #1190 Phone (415) 986-3002
City SE CA Zip 94111-2030

APPLICANT

Name Erler and Kalinowski Inc.
Logan Hansen Fax (510) 578-9131
Address 1730 S Amphlett #320 Phone (510) 578-1172
City San Mateo CA Zip 94402-2714

TYPE OF PROJECT

Well Construction Geotechnical Investigation
Cathodic Protection General
Water Supply Contamination
Monitoring Well Destruction

PROPOSED WATER SUPPLY WELL USE

New Domestic Replacement Domestic
Municipal Irrigation
Industrial Other

DRILLING METHOD:

Mud Rotary Air Rotary Auger
Cable Other

DRILLER'S NAME Gregg Drilling and Testing Inc

DRILLER'S LICENSE NO. 485165

WELL PROJECTS

Drill Hole Diameter 8 in. Maximum
Casing Diameter 4 in. Depth 15 ft.
Surface Seal Depth NS ft. Owner's Well Number SMW-1

GEOTECHNICAL PROJECTS

Number of Borings _____ Maximum
Hole Diameter _____ in. Depth _____ ft.

ESTIMATED STARTING DATE 25 January 2001
ESTIMATED COMPLETION DATE 25 January 2001

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE Logan Hansen DATE 1-3-00

PLEASE PRINT NAME Logan Hansen Rev. 5-13-00

A. GENERAL

1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date.
2. Submit to ACTWA within 60 days after completion of permitted original Department of Water Resources Well Completion Report.
3. Permit is void if project not begun within 90 days of approval date.

B. WATER SUPPLY WELLS

1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.

C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS

1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

D. GEOTECHNICAL

Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-thirds feet replaced in kind or with compacted cuttings.

E. CATHODIC

Fill hole anode zone with concrete placed by tremie.

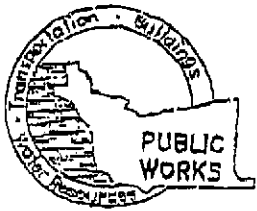
F. WELL DESTRUCTION

Send a map of work site. A separate permit is required for wells deeper than 45 feet.

G. SPECIAL CONDITIONS

NOTE: One application must be submitted for each well or well destruction. Multiple borings on one application are acceptable for geotechnical and contamination investigations.

APPROVED [Signature] DATE 1-3-01



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
 399 ELMHURST ST. HAYWARD CA. 94544-1395
 PHONE (610) 670-5554
 FAX (510)782-1939

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT 1410 64th Street, Emeryville
Eastern side of Bay Street near
64th Street
(See attached Figure)

PERMIT NUMBER W01-010
 WELL NUMBER _____
 APN _____

PERMIT CONDITIONS

Circled Permit Requirements Apply

CLIENT
 Name Sineon Commercial Properties
 Address 655 Montgomery #1190 Phone (415) 986-2002
 City SE CA Zip 94111-2630

- A. GENERAL**
1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date.
 2. Submit to ACPWA within 60 days after completion of permitted original Department of Water Resources Well Completion Report.
 3. Permit is void if project not begun within 90 days of approval date.

APPLICANT
 Name Erler and Kalinowski, Inc.
Logan Hansen Fax (650) 678-9131
 Address 1730 S. Amphlett #320 Phone (650) 538-1172
 City San Mateo CA Zip 94402-2714

- B. WATER SUPPLY WELLS**
1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
 2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.

TYPE OF PROJECT

Well Construction	<input type="checkbox"/>	Geotechnical Investigation	<input type="checkbox"/>
Cathodic Protection	<input type="checkbox"/>	General	<input type="checkbox"/>
Water Supply	<input type="checkbox"/>	Contamination	<input type="checkbox"/>
Monitoring	<input checked="" type="checkbox"/>	Well Destruction	<input type="checkbox"/>

- C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS**
1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
 2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

PROPOSED WATER SUPPLY WELL USE

New Domestic	<input type="checkbox"/>	Replacement Domestic	<input type="checkbox"/>
Municipal	<input type="checkbox"/>	Irrigation	<input type="checkbox"/>
Industrial	<input type="checkbox"/>	Other	<input type="checkbox"/>

- D. GEOTECHNICAL**
 Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-thirds feet replaced in kind or with compacted cuttings.

DRILLING METHOD:

Mud Rotary	<input type="checkbox"/>	Air Rotary	<input type="checkbox"/>	Auger	<input checked="" type="checkbox"/>
Cable	<input type="checkbox"/>	Other	<input type="checkbox"/>		

- E. CATHODIC**
 Fill hole anode zone with concrete placed by tremie.
- F. WELL DESTRUCTION**
 Send a map of work site. A separate permit is required for wells deeper than 45 feet.
- G. SPECIAL CONDITIONS**

DRILLER'S NAME Gregg Drilling and Testing, Inc
 DRILLER'S LICENSE NO. 485165

NOTE: One application must be submitted for each well or well destruction. Multiple borings on one application are acceptable for geotechnical and contamination investigations.

WELL PROJECTS

Drill Hole Diameter	<u>8</u> in.	Maximum	
Casing Diameter	<u>4</u> in.	Depth	<u>~15</u> ft.
Surface Seal Depth	<u>~5</u> ft.	Owner's Well Number	<u>SAW-2</u>

GEOTECHNICAL PROJECTS

Number of Borings	_____	Maximum	
Hole Diameter	_____ in.	Depth	_____ ft.

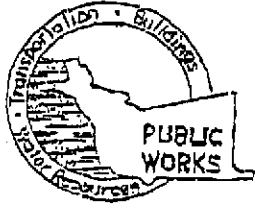
ESTIMATED STARTING DATE 25 January 2001
 ESTIMATED COMPLETION DATE 25 January 2001

APPROVED _____ DATE 1-3-01

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE Logan Hansen DATE 1-3-00

PLEASE PRINT NAME Logan Hansen Rev. 5-15-00



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
399 ELMHURST ST. HAYWARD CA. 94544-1395
PHONE (510) 670 5554
FAX (510)782-1939

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT 1410 64th Street, Emeryville
Eastern side of Bay Street near
64th Street
(See attached figure)

PERMIT NUMBER W01-011
WELL NUMBER _____
APN _____

PERMIT CONDITIONS

Circled Permit Requirements Apply

CLIENT
Name Sison Commercial Properties
Address 655 Montgomery #119D Phone (415) 986-2002
City SE CA Zip 94711-2630

- A. GENERAL**
 1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date.
 2. Submit to ACPWA within 60 days after completion of permitted original Department of Water Resources Well Completion Report.
 3. Permit is void if project not begun within 90 days of approval date.

APPLICANT
Name Erler and Kalinowski, Inc.
Logan Hansen Fax (650) 578-9131
Address 1930 S. Amphlett #320 Phone (650) 578-1172
City San Mateo CA Zip 94402-2714

- B. WATER SUPPLY WELLS**
 1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
 2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.

TYPE OF PROJECT
Well Construction Geotechnical Investigation
Cathodic Protection General
Water Supply Contamination
Monitoring Well Destruction

- C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS**
 1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
 2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

PROPOSED WATER SUPPLY WELL USE
New Domestic Replacement Domestic
Municipal Irrigation
Industrial Other _____

- D. GEOTECHNICAL**
Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings.

DRILLING METHOD:
Mud Rotary Air Rotary Auger
Cable Other

- E. CATHODIC**
Fill hole anode zone with concrete placed by tremie.

DRILLER'S NAME Gregg Drilling and Testing Inc.

- F. WELL DESTRUCTION**
Send a map of work site. A separate permit is required for wells deeper than 45 feet.
- G. SPECIAL CONDITIONS**

DRILLER'S LICENSE NO. 485165

WELL PROJECTS
Drill Hole Diameter 8 in. Maximum
Casing Diameter 4 in. Depth 15 ft
Surface Seal Depth 15 ft Owner's Well Number SMW-3

GEOTECHNICAL PROJECTS
Number of Borings _____ Maximum
Hole Diameter _____ in. Depth _____ ft

ESTIMATED STARTING DATE 25 January 2001
ESTIMATED COMPLETION DATE 25 January 2001

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE Logan Hansen DATE 1-3-00

PLEASE PRINT NAME Logan Hansen Rev.5-13-00

APPROVED [Signature] DATE 1-3-01

APPENDIX B

Borehole Logs and Well Construction Diagrams

Borehole & Well Construction Log

BOREHOLE LOCATION 64th Street, between Hollis and Bay Streets, Emeryville, CA			BOREHOLE / WELL NAME SMW-1			
DRILLING COMPANY Gregg Drilling & Testing, Inc., C-57 Lic. # 485165			PROJECT NAME 64th Street Properties			
DRILLING METHOD Hollow-Stem Auger			PROJECT NUMBER 990016.04			
CONDUCTOR CASING		DIAMETER (inches)	FROM (feet)	TO	DATE STARTED 1/25/01	DATE COMPLETED 1/25/01
BLANK CASING Schedule 40 PVC		4.00	0.2	5.0	BOREHOLE DIAM (inches) 10.0	TOTAL DEPTH (feet) 15.5
PERFORATED CASING 0.010-inch Slotted Sch. 40 PVC		4.00	5.0	15.0	DATUM	
GROUT Portland Cement			0.0	3.5	TOP OF CASING	GROUND SURFACE
SEAL Bentonite			3.5	4.5	LOGGED BY Chris Kubacki	
FILTER PACK #2/16 Sand			4.5	15.5	CHECKED BY Bruce Castle, RG # 6082	

REMARKS
 The concrete surface was initially cored by Delsecco. The first five feet of the borehole was hand-augered, and the remaining depth of the borehole was drilled using a hollow-stem auger by Gregg Drilling & Testing. A split-spoon sampler was used to collect soil samples. The 4-inch well was installed to a depth of 15 feet with a 6-inch end cap to 15.5 feet. The well box is flush with the sidewalk surface and is sealed with cement grout.

SAMPLES							MATERIAL DESCRIPTION AND DRILLING NOTES	USCS CODE	GRAPHIC LOG	WELL CONSTRUCTION
TIME COLLECTED	SAMPLE NAME	SAMPLE TYPE	RECOVERY (feet)	BLOW COUNT	OVM (ppmv)	DEPTH (feet)				
							Concrete: 6-inches.			
						1	FILL, (GRAVEL WITH SAND), coarse grained sand, subrounded to subangular gravels, up to 0.5 inches in diameter.	GP		
						2				
						3	SILTY CLAY, Black [7.5YR 2.5/1], high plasticity, moist.	CL		
						4				
			0.5	4		5				
			0.5	5		6				
			0.5	7		7				
						8				
			0.5	15	OVM=0.0	9				
			0.5	17				ML		

BOREHOLE AND WELL CONSTRUCTION SIMEON.GPJ EKI.GDT 3/20/01

Borehole & Well Construction Log


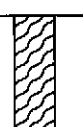



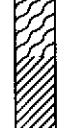
PROJECT NAME		64th Street Properties		PROJECT NUMBER		990016.04		BOREHOLE / WELL NAME		SMW-1	
SAMPLES							MATERIAL DESCRIPTION AND DRILLING NOTES	USCS CODE	GRAPHIC LOG	WELL CONSTRUCTION	
TIME COLLECTED	SAMPLE NAME	SAMPLE TYPE	RECOVERY (feet)	BLOW COUNT	OVM (ppmv)	DEPTH (feet)					
			0.5	20		11	CLAYEY SILT, Olive brown [2.5Y 4/4], <10% fine grained sand, medium plasticity, moist. (Continued) @12 feet: decreasing clay.	ML			
			0.5	4		12					
			0.5	5		13	SANDY SILT, Dark yellowish brown [10YR 4/4], 25% fine grained sand, low plasticity, loose to medium dense, moist.	ML			
			0.5	8	OVM=0.0	14					
			0.5			15					
						16	Total Depth = 15.5 feet.				
						17					
						18					
						19					
						20					
						21					
						22					
						23					
						24					
						25					

BOREHOLE AND WELL CONSTRUCTION SIMEON.GPJ EKI.GDT 3/20/01

Borehole & Well Construction Log

BOREHOLE LOCATION			64th Street, between Hollis and Bay Streets, Emeryville, CA			BOREHOLE / WELL NAME		SMW-2	
DRILLING COMPANY			Gregg Drilling & Testing, Inc., C-57 Lic. # 485165			PROJECT NAME		64th Street Properties	
DRILLING METHOD			Hollow-Stem Auger			PROJECT NUMBER		990016.04	
CONDUCTOR CASING			DIAMETER (inches)	FROM (feet)	TO	DATE STARTED	1/26/01	DATE COMPLETED	1/26/01
BLANK CASING			Schedule 40 PVC	4.00	0.2 TO 5.0	BOREHOLE DIAM (inches)	10.0	TOTAL DEPTH (feet)	15.5
PERFORATED CASING			0.010-inch Slotted Sch. 40 PVC	4.00	5.0 TO 15.0	DATUM			
GROUT			Portland Cement		0.0 TO 3.5	TOP OF CASING		GROUND SURFACE	
SEAL			Bentonite		3.5 TO 4.5	LOGGED BY Chris Kubacki			
FILTER PACK			#2/16 Sand		4.5 TO 15.5	CHECKED BY Bruce Castle, RG # 6082			

REMARKS
 The concrete surface was initially cored by Delsecco on 1/25/01. The first five feet of the borehole was hand-augered, and the remaining depth of the borehole was drilled using a hollow-stem auger by Gregg Drilling & Testing. A split- spoon sampler was used to collect soil samples. The 4-inch well was installed to a depth of 15 feet with a 6-inch end cap to 15.5 feet. The well box is flush with the sidewalk surface and is sealed with cement grout.

SAMPLES						MATERIAL DESCRIPTION AND DRILLING NOTES	USCS CODE	GRAPHIC LOG	WELL CONSTRUCTION
TIME COLLECTED	SAMPLE NAME	SAMPLE TYPE	RECOVERY (feet)	BLOW COUNT	OVM (ppmv)				
						Concrete: 6-inches.			
						1 FILL, (GRAVEL WITH SAND), Very dark grayish brown [2.5Y 3/2], fine to coarse grained sand, loose, moist, subrounded to subangular gravels, up to 0.5 inches in diameter.	GP		
						2			
						3 SILTY CLAY, Black [5Y 2.5/1], 35-40% silt, high plasticity, loose, moist to wet.	CL		
						4			
			0.5	4	OVM=0.0	5			
			0.5	6	H2S=0.0	6			
			0.5	12		7			
						8			
			0.5	16	OVM=0.0	9			
			0.5	24	H2S=0.0		SP		

2/1/01
 1/26/01

BOREHOLE AND WELL CONSTRUCTION SIMEON.GPJ EKI.GDT 3/20/01

Borehole & Well Construction Log

PROJECT NAME		64th Street Properties		PROJECT NUMBER		990016.04		BOREHOLE / WELL NAME		SMW-2	
SAMPLES							MATERIAL DESCRIPTION AND DRILLING NOTES	USCS CODE	GRAPHIC LOG	WELL CONSTRUCTION	
TIME COLLECTED	SAMPLE NAME	SAMPLE TYPE	RECOVERY (feet)	BLOW COUNT	OVM (ppmv)	DEPTH (feet)					
			0.5	36		11	<p><u>SAND WITH GRAVEL</u>, Dark yellowish brown [10YR 3/4], 25-35% gravels, subrounded to subangular, up to 0.5 inches in diameter, medium dense, moist to wet. (Continued)</p>	SP			
			0.5	9		12					
			0.5	15	OVM=0.0	13	<p><u>SILTY CLAY</u>, Brown [10YR 4/3], medium plasticity, loose, moist.</p>	CL			
			0.5	15	H2S=0.0	14					
			0.5	15		15					
							15.5	Total Depth = 15.5 feet.			
						16					
						17					
						18					
						19					
						20					
						21					
						22					
						23					
						24					
						25					

BOREHOLE AND WELL CONSTRUCTION SIMEON.GPJ EKLSDT 3/20/01

Borehole & Well Construction Log

BOREHOLE LOCATION 64th Street, between Hollis and Bay Streets, Emeryville, CA			BOREHOLE / WELL NAME SMW-3			
DRILLING COMPANY Gregg Drilling & Testing, Inc., C-57 Lic. # 485165			PROJECT NAME 64th Street Properties			
DRILLING METHOD Hollow-Stem Auger			PROJECT NUMBER 990016.04			
CONDUCTOR CASING		DIAMETER (inches)	FROM (feet)	TO	DATE STARTED 1/26/01	DATE COMPLETED 1/26/01
BLANK CASING Schedule 40 PVC		4.00	0.2	5.0	BOREHOLE DIAM (inches) 10.0	TOTAL DEPTH (feet) 15.5
PERFORATED CASING 0.010-inch Slotted Sch. 40 PVC		4.00	5.0	15.0	DATUM	
GROUT Portland Cement			0.0	3.5	TOP OF CASING	GROUND SURFACE
SEAL Bentonite			3.5	4.5	LOGGED BY Chris Kubacki	
FILTER PACK #2/16 Sand			4.5	15.5	CHECKED BY Bruce Castle, RG # 6082	

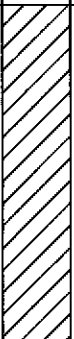
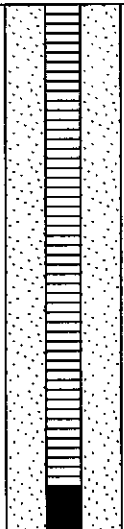
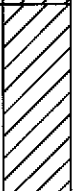
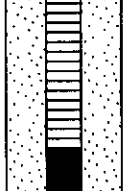
REMARKS
 The asphalt and concrete surface was initially cored by Delsecco on 1/25/01. The first five feet of the borehole was hand-augered, and the remaining depth of the borehole was drilled using a hollow-stem auger by Gregg Drilling & Testing. A split-spoon sampler was used to collect soil samples. The 4-inch well was installed to a depth of 15 feet with a 6-inch end cap to 15.5 feet. The well box is flush with the parking lane surface and is sealed with cement grout.

SAMPLES						MATERIAL DESCRIPTION AND DRILLING NOTES	USCS CODE	GRAPHIC LOG	WELL CONSTRUCTION
TIME COLLECTED	SAMPLE NAME	SAMPLE TYPE	RECOVERY (feet)	BLOW COUNT	OVM (ppmv)				
						Concrete/asphalt: 10-inches.			
						1 FILL (GRAVEL WITH SAND), Dark olive brown [2.5Y 3/3], fine to coarse grained sand, subrounded to subangular gravels, up to 0.5 inches in diameter, moist to wet.	GP		
						2			
						3 SILTY CLAY, Black [5Y 2.5/1], high plasticity, loose, moist to wet.	CL		
						4			
			0	4	OVM=0.0	5			
			0.3	3	H2S=0.0	6			
			0.5	5		7			
						8			
			0.5	5	OVM=0.0	9			
			0.5	6	H2S=0.0				

2/1/01

BOREHOLE AND WELL CONSTRUCTION SIMEON.GPJ EKI.GDT 3/20/01

Borehole & Well Construction Log

PROJECT NAME		64th Street Properties		PROJECT NUMBER		990016.04		BOREHOLE / WELL NAME		SMW-3	
TIME COLLECTED	SAMPLE NAME	SAMPLES				DEPTH (feet)	MATERIAL DESCRIPTION AND DRILLING NOTES	USCS CODE	GRAPHIC LOG	WELL CONSTRUCTION	
		SAMPLE TYPE	RECOVERY (feet)	BLOW COUNT	OVM (ppmv)						
			0.5	10		11	SILTY CLAY, Olive gray [5Y 5/2], <10% fine to medium grained sand, medium plasticity, loose, moist. (Continued)	CL			
			0.5	6		12					
			0.5	10	OVM=0.5	13	SILTY CLAY, Dark yellowish brown [10YR 4/4], high plasticity, moist.	CL			
			0.5	25	H2S=0.0	14					
			0.5	25		15	@15 feet: increasing fine to medium grained sand (<10%), trace gravels. Total Depth = 15.5 feet.				
						16					
						17					
						18					
						19					
						20					
						21					
						22					
						23					
						24					
						25					

BOREHOLE AND WELL CONSTRUCTION SIMEON.GPJ EKI.GDT 3/20/01

Borehole & Well Construction Log


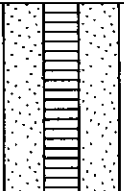
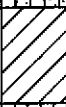
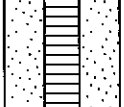

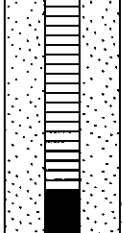
BOREHOLE LOCATION 64th Street, between Hollis and Bay Streets, Emeryville, CA			BOREHOLE / WELL NAME SMW-4			
DRILLING COMPANY Gregg Drilling & Testing, Inc., C-57 Lic. # 485165			PROJECT NAME 64th Street Properties			
DRILLING METHOD Hollow-Stem Auger			PROJECT NUMBER 990016.04			
CONDUCTOR CASING		DIAMETER (inches)	FROM (feet)	TO	DATE STARTED	DATE COMPLETED
BLANK CASING	Schedule 40 PVC	4.00	0.2	5.0	1/25/01	1/25/01
PERFORATED CASING	0.010-inch Slotted Sch. 40 PVC	4.00	5.0	15.0	BOREHOLE DIAM (inches)	TOTAL DEPTH (feet)
					10.0	15.5
GROUT	Portland Cement		0.0	3.5	DATUM	
SEAL	Bentonite		3.5	4.5	TOP OF CASING	GROUND SURFACE
FILTER PACK	#2/16 Sand		4.5	15.5	LOGGED BY	Chris Kubacki
					CHECKED BY	Bruce Castle, RG # 6082

REMARKS
The concrete surface was initially cored by Delsecco. The first five feet of the borehole was hand-augered, and the remaining depth of the borehole was drilled using a hollow-stem auger by Gregg Drilling & Testing. A split-spoon sampler was used to collect soil samples. The 4-inch well was installed to a depth of 15 feet with a 6-inch end cap to 15.5 feet. The well box is flush with the sidewalk surface and is sealed with cement grout.

SAMPLES							MATERIAL DESCRIPTION AND DRILLING NOTES	USCS CODE	GRAPHIC LOG	WELL CONSTRUCTION
TIME COLLECTED	SAMPLE NAME	SAMPLE TYPE	RECOVERY (feet)	BLOW COUNT	OVM (ppmv)	DEPTH (feet)				
							Concrete: 6-inches.			
						1	FILL, (GRAVEL WITH SAND), Dark olive gray [5Y 3/2], coarse grained sand, subrounded to subangular gravels, up to 0.5 inches in diameter, moist.	GP		
						2				
						3	SILTY CLAY, Black [N2.5], high plasticity, moist.	CL		
						4				
			0.4	5	OVM=0.0	5				
			0.5	5		6	SAND, Greenish gray [10Y 5/1], loose to medium dense, wet.	SP		
			0.5	6	OVM=0.0	6				
			0.5	7		7				
			0.5	18		7	SILTY SAND, Black [N2.5], fine grained sand, high organics (i.e. wood chips), wet.	SM		
			0.5	20		8				
			0.2	12		8				
			0.5	17		9				
			0.5	30	OVM=0.0	9	@9 feet: hydrogen sulfide odor (i.e. "rotten egg" odor) continuing to the bottom of the borehole.			
			0	5						

BOREHOLE AND WELL CONSTRUCTION SIMEON.GPJ EKI.GDT 3/20/01

Borehole & Well Construction Log

PROJECT NAME		64th Street Properties		PROJECT NUMBER		990016.04		BOREHOLE / WELL NAME		SMW-4	
SAMPLES							MATERIAL DESCRIPTION AND DRILLING NOTES	USCS CODE	GRAPHIC LOG	WELL CONSTRUCTION	
TIME COLLECTED	SAMPLE NAME	SAMPLE TYPE	RECOVERY (feet)	BLOW COUNT	OVM (ppmv)	DEPTH (feet)					
			0	6		11	SILTY SAND, Black [N2.5], fine grained sand, high organics (i.e. wood chips), wet. (Continued)	SM			
			0.3	18							
			0.2	6							
			0.4	7							
			0.5	10	OVM=0.0	12	SILTY CLAY, Dark greenish gray [10Y 3/1], high plasticity, moist to wet, hydrogen sulfide odor.	CL			
			0.5	12	H2S=0.0	13					
			0.5	12		13	CLAYEY SILT, Dark greenish gray [5GY 4/1], <10% fine grained sand, decreasing clay content, loose to medium dense, moist, hydrogen sulfide odor.	ML			
			0.5	14	OVM=0.0	14					
			0.2	8	H2S=0.0	14					
			0.5	10	H2S=0.0	15					
			0.5	10	OVM=0.0	15					
						15					
						16	Total Depth = 15.5 feet.				
						17					
						18					
						19					
						20					
						21					
						22					
						23					
						24					
						25					

BOREHOLE AND WELL CONSTRUCTION SIMEON.GPJ EKI.GDT 3/20/01

APPENDIX C

Groundwater Purge Sample Forms for February 2001

PROJECT NAME: SIMPSON

DATE: 2/1/01

PROJECT NUMBER: 990016-01

WELL NUMBER: SM101

PERSONNEL: R. B. / J. M.

WELL VOLUME CALCULATION:

Depth of Well (ft.)	Depth to Water (ft.)	Water Column (ft.)	Multiplier (below)	Casing Vol. (gallons)
15	5.8	9.32	* 0.64	= 5.96

Mult. for casing diam. = 2-inch=0.16; 4-inch=0.64; 6-inch=1.44 gals/ft.

No. of bailers prior to start of purge: _____

INSTRUMENT CALIBRATION

PURGE METHOD: Peristaltic Pump

	Field Standard
<u>Instrument</u>	<u>measure</u> <u>measure</u>

PURGE DEPTH: _____

Conductivity

START TIME: 8:09 END TIME: _____

pH 7.99 4.00

pH 6.99 7.00

Turbidity

Temperature

Depth Probe

TOTAL GALLONS PURGED: _____

SAMPLES: Field I.D. Time Collected Containers & Preservation

COMMENTS: Check CAC

Time	8:11	8:29	8:40	8:49	08:58		
Volume Purged (gallons)	1.5	5.25	10.5	12.5	15.0		
Temperature (degrees F or C)	14.9	16.0	16.0	16.1	16.2		
pH	7.37	7.06	7.04	7.01	7.04		
Specific Conductivity (millimhos)	2.01	1.93	1.890	1.868	1.856		
Turbidity/Color (NTU)	<u>see turbidity chart</u>	8.35	2.46	1.21	1.04		
Odor							
Depth to Water during purge (feet)	6.14	6.40	6.39	6.42	6.49		
Number of Casing Volumes removed	0.25	0.82	1.76	2.10	2.52		
Purge Rate (gallons/minute)							

PROJECT NAME: Simon DATE: 2/1/01
 PROJECT NUMBER: 990016.04 WELL NUMBER: SMW-2 PERSONNEL: Lin/K. L...

WELL VOLUME CALCULATION:
 Depth of Well (ft.) 15 - Depth to Water (ft.) 4.67 = Water Column (ft.) 10.33 * Multiplier (below) 0.64 = Casing Vol. (gallons) 6.61
 Mult. for casing diam. = 2-inch=0.16; 4-inch=0.64; 6-inch=1.44 gals/ft.

No. of bailers prior to start of purge: _____
 PURGE METHOD: Peristaltic Pump
 PURGE DEPTH: _____
 START TIME: 9:23 END TIME: _____
 TOTAL GALLONS PURGED: _____

INSTRUMENT CALIBRATION
 Field Standard
 Instrument measure measure
 Conductivity
 pH SEE SMW-1
 pH
 Turbidity
 Temperature
 Depth Probe

SAMPLES: Field I.D. Time Collected Containers & Preservation

COMMENTS: Check COC

Time	9:30	9:43	10:09	10:23			
Volume Purged (gallons)	1.25	5	12	17.5			
Temperature (degrees F or C)	16.5	16.8	17.1	17.1			
pH	7.18	6.98	6.96	6.98			
Specific Conductivity (millimhos)	1.23	1.15	1.11	1.10			
Turbidity/Color (NTU)	2.14	13.26	3.96	2.341			
Odor	Clear - low Turbidity						
Depth to Water during purge (feet)	5.13	5.30	5.40	5.41			
Number of Casing Volumes removed	0.19	0.76	1.82	2.65			
Purge Rate (gallons/minute)							

PROJECT NAME: Simon DATE: 2/1/01
 PROJECT NUMBER: 990016-04 WELL NUMBER: SMW-3 PERSONNEL: R. L. ...

WELL VOLUME CALCULATION:
 Depth of Well (ft.) 15 - Depth to Water (ft.) 5.60 = Water Column (ft.) 9.4 * Multiplier (below) 0.64 = Casing Vol. (gallons) 6.02
 Mult. for casing diam. = 2-inch=0.16; 4-inch=0.64; 6-inch=1.44 gals/ft.

No. of bailers prior to start of purge: _____
 PURGE METHOD: Peristaltic Pump
 PURGE DEPTH: _____
 START TIME: 11:11 END TIME: _____
 TOTAL GALLONS PURGED: _____

INSTRUMENT CALIBRATION
 Field Standard _____
 Instrument measure _____
 Conductivity _____
 pH SEE SMW-7
 pH _____
 Turbidity _____
 Temperature _____
 Depth Probe _____

SAMPLES: Field I.D. Time Collected Containers & Preservation

COMMENTS: Check coc

Time	11:19	11:26	12:12	12:24			
Volume Purged (gallons)	1.5	5	10	15			
Temperature (degrees F or C)	17.9	18.2	18.4	18.5			
pH	7.28	7.21	7.10	7.15			
Specific Conductivity (millimhos)	1.23	1.08	1.03	1.01			
Turbidity/Color ^{Very low turbidity} (NTU)	5.36	2.58	1.12	0.82			
Odor							
Depth to Water during purge (feet)	6.33	7.15	7.34	7.41			
Number of Casing Volumes removed	0.25	0.83	1.66	2.49			
Purge Rate (gallons/minute)							

GROUNDWATER PURGE SAMPLE FORM

Erier & Kalinowski, Inc.

PROJECT NAME: Simeon DATE: 2/1/01
 PROJECT NUMBER: 990016.04 WELL NUMBER: SMW-4 PERSONNEL: Kubacki

WELL VOLUME CALCULATION:
 Depth of Well (ft.) Depth to Water (ft.) Water Column (ft.) Multiplier (below) Casing Vol. (gallons)
15 - 2.41 = 12.59 * 0.64 = 8.05
 Mult. for casing diam. = 2-inch=0.16; 4-inch=0.64; 6-inch=1.44 gals/ft.

No. of bailers prior to start of purge: _____
 PURGE METHOD: Peristaltic Pump
 PURGE DEPTH: _____
 START TIME: 12:58 END TIME: _____
 TOTAL GALLONS PURGED: _____

INSTRUMENT CALIBRATION
 Field Standard _____
 Instrument measure measure _____
 Conductivity _____
 PH SEE SMW-1
 PH _____
 Turbidity _____
 Temperature _____
 Depth Probe _____

SAMPLES: Field I.D. Time Collected Containers & Preservation

COMMENTS: Check doc

Time	13:04	13:12	13:24	13:37	13:40		
Volume Purged (gallons)	2	5	10	15	20		
Temperature (degrees F or C)			17.7	17.8	17.7		
pH			6.40	6.38	6.35		
Specific Conductivity (millimhos)			2.05	2.03	2.01		
Turbidity/Color (NTU)			39.6	31.5	25.4		
Odor							
Depth to Water during purge (feet)	2.70	2.84	3.01	3.09	3.16		
Number of Casing Volumes removed	0.25	0.62	1.24	1.86	2.48		
Purge Rate (gallons/minute)							

APPENDIX D

Laboratory Analytical Reports and Chain of Custody Documents
for February 2001



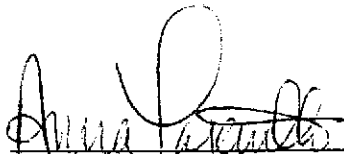
A N A L Y T I C A L R E P O R T

Prepared for:

Erler & Kalinowski, Inc.
1730 So. Amphlett Blvd.
Suite 320
San Mateo, CA 94402

Date: 15-FEB-01
Lab Job Number: 150060
Project ID: 990016.04
Location: Simeon. 64th street prop.

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Reviewed by: 
Project Manager

Reviewed by: 
Operations Manager

This package may be reproduced only in its entirety.

Laboratory Number: 150060
Client: Eler & Kalinowski, Inc.
Project#: 990016.04
Location: Simeon. 64th Street Prop.

Request Date: 2/1/01

CASE NARRATIVE

This hardcopy data package contains sample and QC results for seven water and two soil samples that were received on February 1st, 2001. All samples were received cold and intact.

As requested on the chain of custody, samples **SMW-1soil**, **SMW-2soil**, and **SMW-3soil** were composited into one sample (**SMW-COMP SOIL**) and analyzed for TEH and VOCs.

Total Extractable Hydrocarbons: All sample extracts were treated with silica gel prior to analysis. Sample **SMF-4 SOIL** was analyzed at a dilution, causing the surrogate to be diluted out. No other analytical problems were encountered.

Volatile Organics: No analytical problems were encountered.

CHAIN OF CUSTODY / SAMPLE ANALYSIS REQUEST

Erler & Kalinowski, Inc.

Analytical Laboratory Curtis & Tompkins

Project Number: 990016.04

Date Sampled: 2/1/01

Project Name: Simon - 60th Street Properties

Sampled By: Chris Kubacki

Source of Samples: Monitoring Well & ^{Purge/extract drums} soil drums

Report Results To: Derby Davidson

Location: 60th St & Bay St, Emergenceville

Phone Number: 415) 578-1172

Lab Sample I D	Field Sample I D	Sample Type	Number and Type of Containers	Time Collected	Analyses Requested (EPA Method Number)	Results Required By (Date/Time)
	SMW-4soil	soil	1 6pk 4 stainless steel liner	15:58	TPH diesel w/ Silica Gel Cleanup, VOCs EPA 8015M & 8260	Standard 10 day
	SMW-4 purge	ground water	2 Amber 2 Liter jars	15:04	TPH diesel w/ Silica Gel Cleanup EPA 8015M	"
	SMW-4 purge	"	4 VDAS	15:04	Volatiles Organic Compounds EPA 8260	"
	SMW-12,3 purge	"	2 Amber 2 Liter jars	15:12	TPH diesel w/ Silica Gel Cleanup EPA 8015M	"
	SMW-12,3 purge	"	4 VDAS	15:12	Volatiles Organic Compounds EPA 8260	"
	SMW-1soil	soil	1 lunch stainless steel liner	16:03	Lab Composite Sample TPH diesel w/ Silica Gel Cleanup EPA 8015M & VOCs EPA 8260	"
	SMW-2soil	"	"	16:04		"
	SMW-3soil	"	"	16:14		"

Special Instructions: Lab: make composite sample of SMW-1soil, SMW-2soil, and SMW-3soil & analyze for TPH diesel w/ Silica Gel Cleanup (EPA 8015M) and VOCs (EPA 8260)

Relinquished By: Name / Signature / Affiliation	Date	Time	Received By: Name / Signature / Affiliation
<u>Chris Kubacki / EKI</u>	<u>2/1/01</u>	<u>16:45</u>	<u>Lisa Bennett / Lisa Bennett</u>
Preservation Correct? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		Received <input checked="" type="checkbox"/> On Ice <input checked="" type="checkbox"/> Cold <input type="checkbox"/> Ambient <input type="checkbox"/> Intact	

150060

CHAIN OF CUSTODY / SAMPLE ANALYSIS REQUEST

Erler & Kalinowski, Inc.

Analytical Laboratory: Chris Temples

Project Number: 990016.04

Date Sampled: 2/1/01

Project Name: Simsen 64th Street Properties

Sampled By: Chris Kubacki

Source of Samples: Monitoring Wells

Report Results To: Derby Davidson

Location: 64th St. & Bay St. Emeryville

Phone Number: 415) 578-1172

Lab Sample I D	Field Sample I D	Sample Type	Number and Type of Containers	Time Collected	Analyses Requested (EPA Method Number)	Results Required By (Date/Time)
	SMW-1	granulate	2 Amber 1 Liter jars	9:05	TPH diesel w/ Silica Gel Cleanup EPA 8015M	Standard (od)
	SMW-1	"	4 VOAS	9:05	Volatile Organic Compounds EPA 8260	"
	SMW-2	"	2 Amber 1 Liter jar	10:35	TPH diesel w/ Silica Gel Cleanup EPA 8015M	"
	SMW-2	"	4 VOAS	10:35	Volatile Organic Compounds EPA 8260	"
	DUP 2	"	2 Amber 1 Liter jars	10:40	TPH diesel w/ Silica Gel Cleanup EPA 8015M	"
	DUP 2	"	4 VOAS	10:40	Volatile Organic Compounds EPA 8260	"
	SMW-3	"	2 Amber 1 Liter jars	12:32	TPH diesel w/ Silica Gel Cleanup EPA 8015M	"
	SMW-3	"	4 VOAS	12:32	Volatile Organic Compounds EPA 8260	"
	SMW-4	"	2 Amber 1 Liter jars	13:52	TPH diesel w/ Silica Gel Cleanup EPA 8015M	"
	SMW-4	"	4 VOAS	13:52	Volatile Organic Compounds EPA 8260	"

Special Instructions:

Relinquished By:			Received By:		
Name / Signature / Affiliation		Date	Time	Name / Signature / Affiliation	
<u>Chris Kubacki / KUBACKI</u>		<u>2/1/01</u>	<u>10:45</u>	<u>Lisa Bennett / LISA BENNETT</u>	
<input checked="" type="checkbox"/> Cold <input checked="" type="checkbox"/> Received <input type="checkbox"/> On Ice <input type="checkbox"/> Ambient			Preservation Correct? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		



Total Extractable Hydrocarbons

Lab #:	150060	Location:	Simeon. 64th street prop.
Client:	Erler & Kalinowski, Inc.	Prep:	EPA 3520
Project#:	990016.04	Analysis:	EPA 8015M
Matrix:	Water	Sampled:	02/01/01
Units:	ug/L	Received:	02/01/01
Batch#:	61266	Prepared:	02/02/01

Field ID:	SMW-1	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	02/06/01
Lab ID:	150060-001	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C10-C24	ND	50

Surrogate	%REC	Limits
Hexacosane	88	44-121

Field ID:	SMW-2	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	02/06/01
Lab ID:	150060-002	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C10-C24	ND	50

Surrogate	%REC	Limits
Hexacosane	98	44-121

Field ID:	DUP-2	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	02/06/01
Lab ID:	150060-003	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C10-C24	ND	50

Surrogate	%REC	Limits
Hexacosane	96	44-121

H= Heavier hydrocarbons contributed to the quantitation
 L= Lighter hydrocarbons contributed to the quantitation
 Y= Sample exhibits fuel pattern which does not resemble standard
 ND= Not Detected
 RL= Reporting Limit

Page 1 of 3

Total Extractable Hydrocarbons

Lab #:	150060	Location:	Simeon. 64th street prop.
Client:	Erler & Kalinowski, Inc.	Prep:	EPA 3520
Project#:	990016.04	Analysis:	EPA 8015M
Matrix:	Water	Sampled:	02/01/01
Units:	ug/L	Received:	02/01/01
Batch#:	61266	Prepared:	02/02/01

Field ID:	SMW-3	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	02/06/01
Lab ID:	150060-004	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C10-C24	140 L Y	50

Surrogate	%REC	Limits
Hexacosane	84	44-121

Field ID:	SMW-4	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	02/06/01
Lab ID:	150060-005	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C10-C24	360 L Y	50

Surrogate	%REC	Limits
Hexacosane	89	44-121

Field ID:	SMW-4 PURGE	Diln Fac:	5.000
Type:	SAMPLE	Analyzed:	02/06/01
Lab ID:	150060-007	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C10-C24	47,000 H	250

Surrogate	%REC	Limits
Hexacosane	107	44-121

H = Heavier hydrocarbons contributed to the quantitation
 L = Lighter hydrocarbons contributed to the quantitation
 Y = Sample exhibits fuel pattern which does not resemble standard
 ND = Not Detected
 RL = Reporting Limit



Total Extractable Hydrocarbons

Lab #:	150060	Location:	Simeon. 64th street prop.
Client:	Erler & Kalinowski, Inc.	Prep:	EPA 3520
Project#:	990016.04	Analysis:	EPA 8015M
Matrix:	Water	Sampled:	02/01/01
Units:	ug/L	Received:	02/01/01
Batch#:	61266	Prepared:	02/02/01

Field ID:	SMW-1,2,3 PURGE	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	02/06/01
Lab ID:	150060-008	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C10-C24	ND	50

Surrogate	%REC	Limits
Hexacosane	88	44-121

Type:	BLANK	Analyzed:	02/06/01
Lab ID:	QC136642	Cleanup Method:	EPA 3630C
Diln Fac:	1.000		

Analyte	Result	RL
Diesel C10-C24	ND	50

Surrogate	%REC	Limits
Hexacosane	99	44-121

Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC136645	Analyzed:	02/05/01

Analyte	Result	RL
Diesel C10-C24	ND	50

Surrogate	%REC	Limits
Hexacosane	99	44-121

H= Heavier hydrocarbons contributed to the quantitation
 L= Lighter hydrocarbons contributed to the quantitation
 Y= Sample exhibits fuel pattern which does not resemble standard
 ND= Not Detected
 RL= Reporting Limit

Page 3 of 3

Chromatogram

Sample Name : 150060-004sq,61266

FileName : G:\GC13\CHB\036B026.RAW

Method : BTEH033.MTH

Start Time : 0.01 min

Scale Factor: 0.0

End Time : 31.91 min

Plot Offset: -14 mV

Sample #: 61266

Date : 02/06/2001 10:12 AM

Time of Injection: 02/06/2001 05:01 AM

Low Point : -13.81 mV

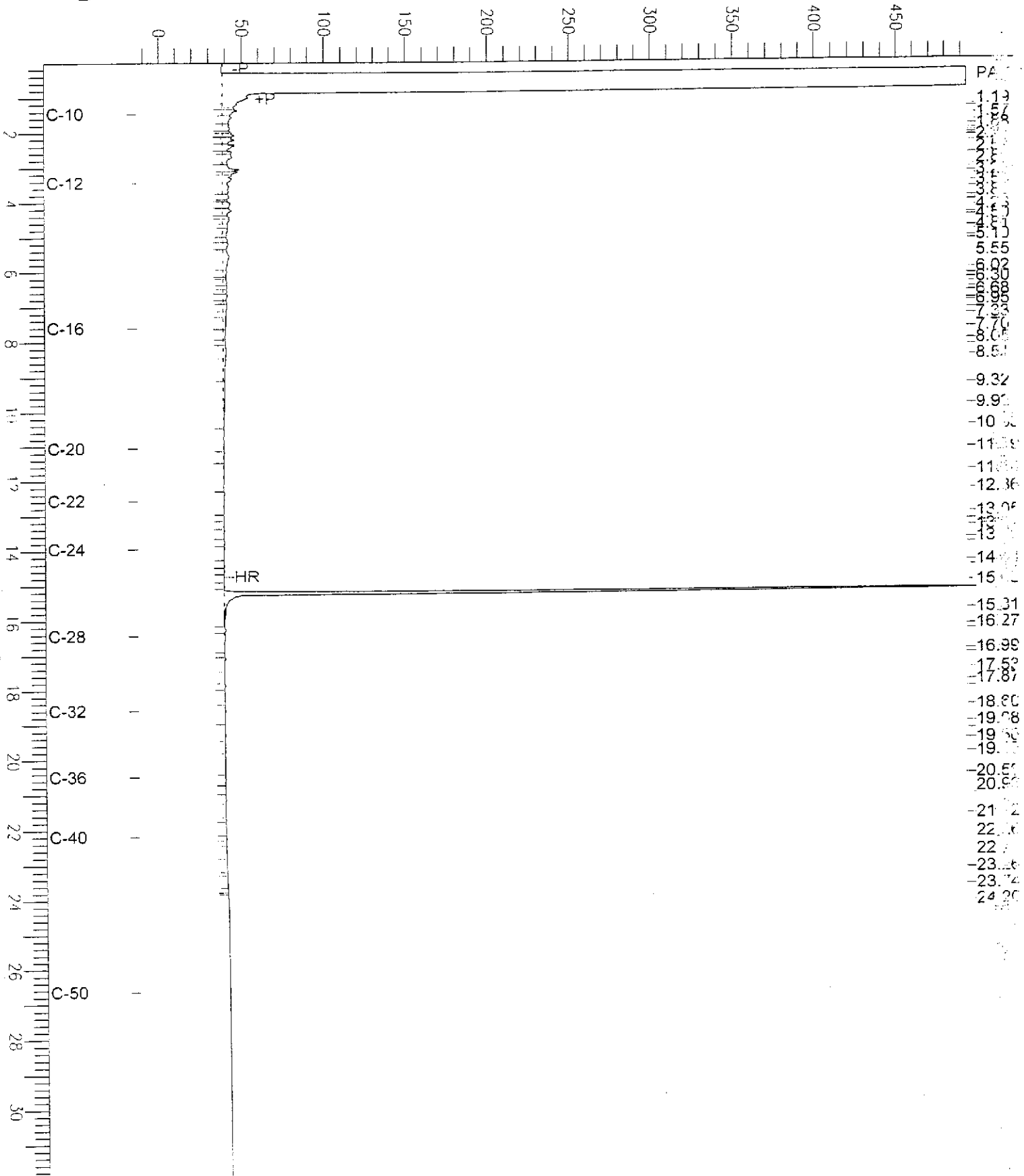
Plot Scale: 507.7 mV

Page 1 of 1

High Point : 493.91 mV

SMW-3

Response [mV]



Chromatogram

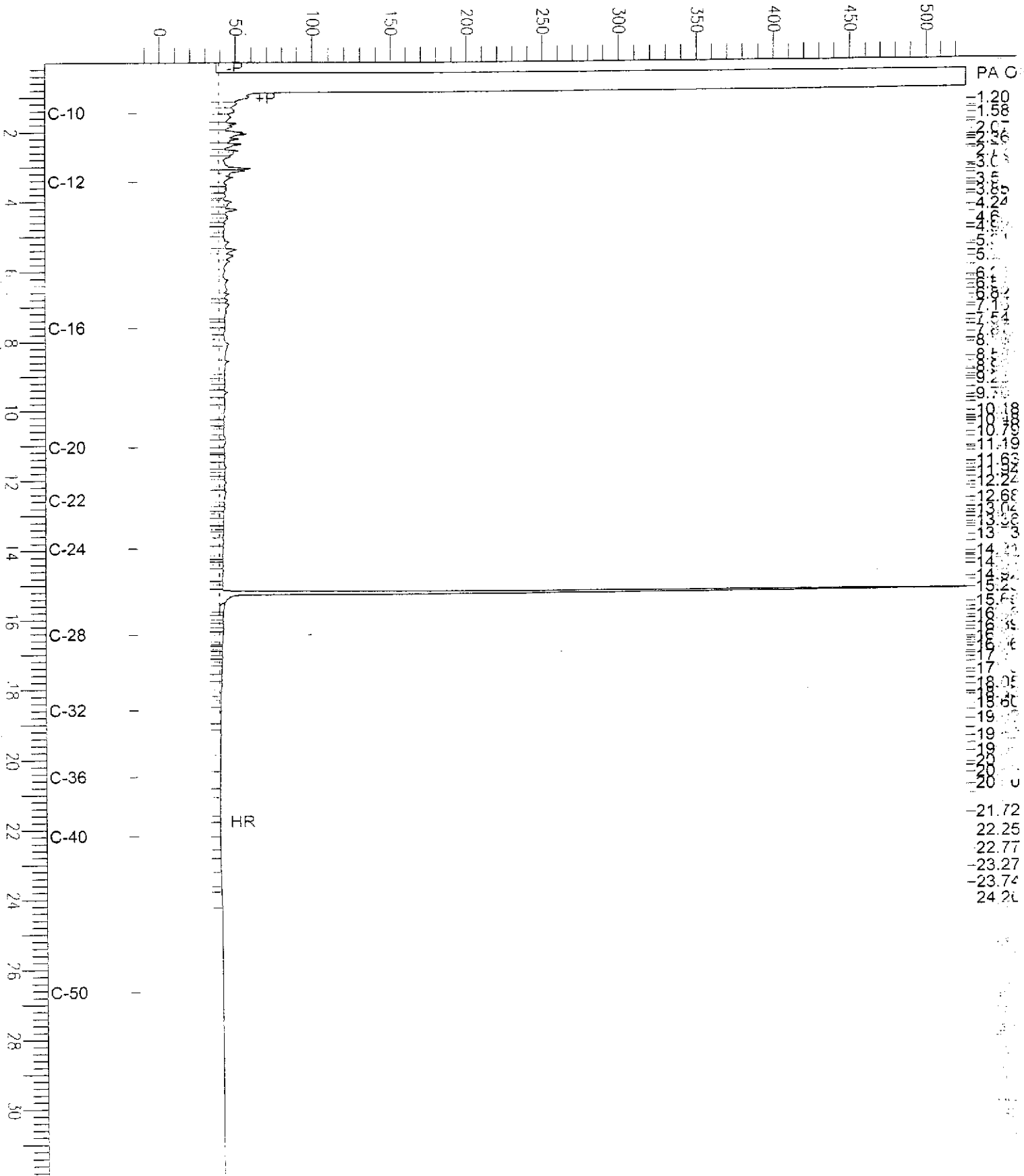
Sample Name : 150060-005sg,61266
FileName : G:\GC13\CHB\036B027.RAW
Method : BTEH033.MTH
Start Time : 0.01 min
Scale Factor: 0.0

Sample #: 61266
Date : 02/06/2001 10:12 AM
Time of Injection: 02/06/2001 05:40 AM
Low Point : -14.59 mV
Plot Scale: 541.7 mV

Page 1 of 1

SMW-4

Response [mV]



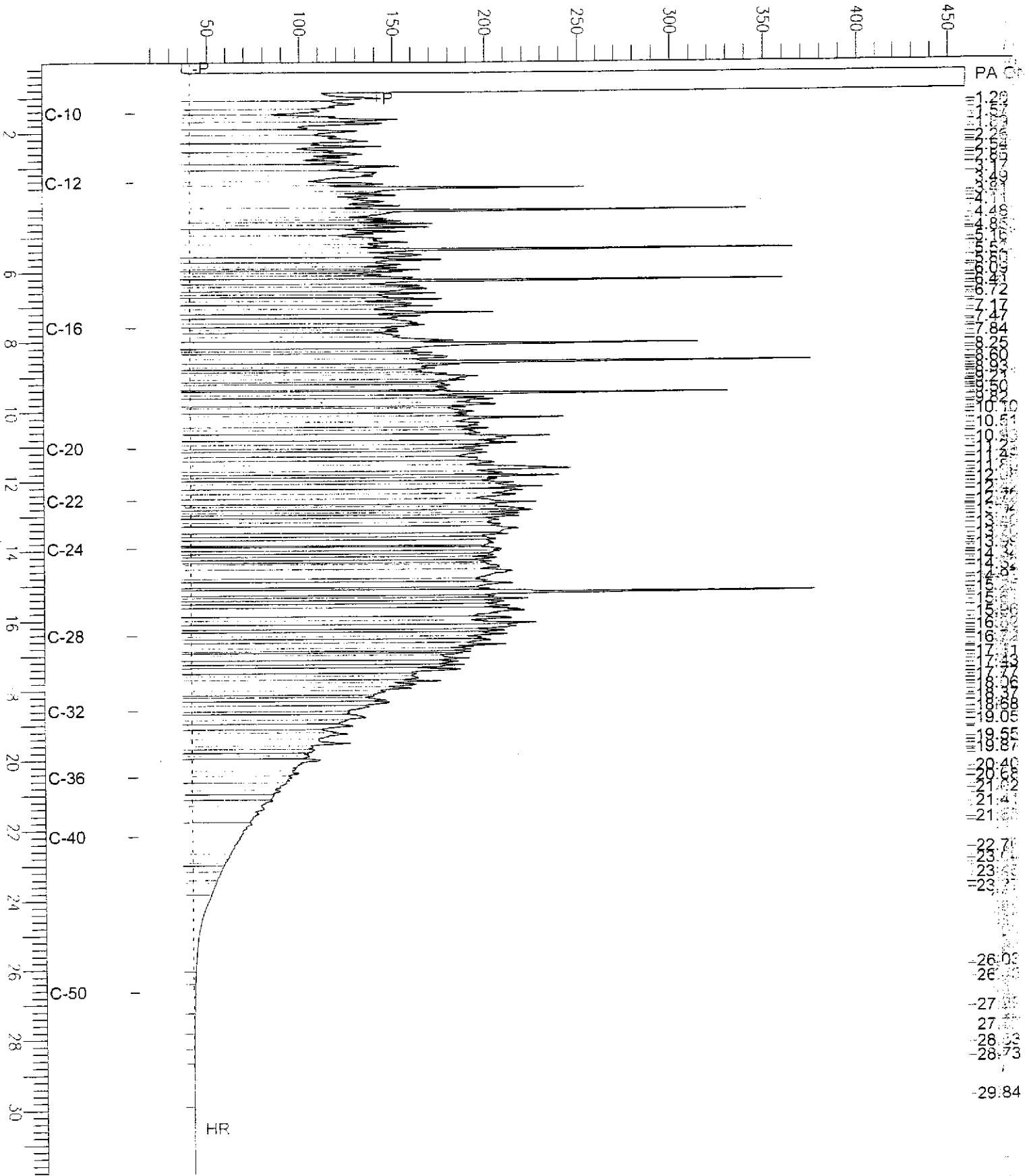
Chromatogram

Sample Name : 150060-007sg,61266
FileName : G:\GC13\CHB\036B039.RAW
Method : BTEH033.MTH
Start Time : 0.01 min
Scale Factor: 0.0

Sample #: 61266
Date : 02/06/2001 07:14 PM
Time of Injection: 02/06/2001 03:15 PM
Low Point : 12.12 mV
High Point : 459.50 mV
End Time : 31.91 min
Plot Offset: 12 mV
Plot Scale: 447.4 mV

SMW -4 PURGE

Response [mV]



Chromatogram

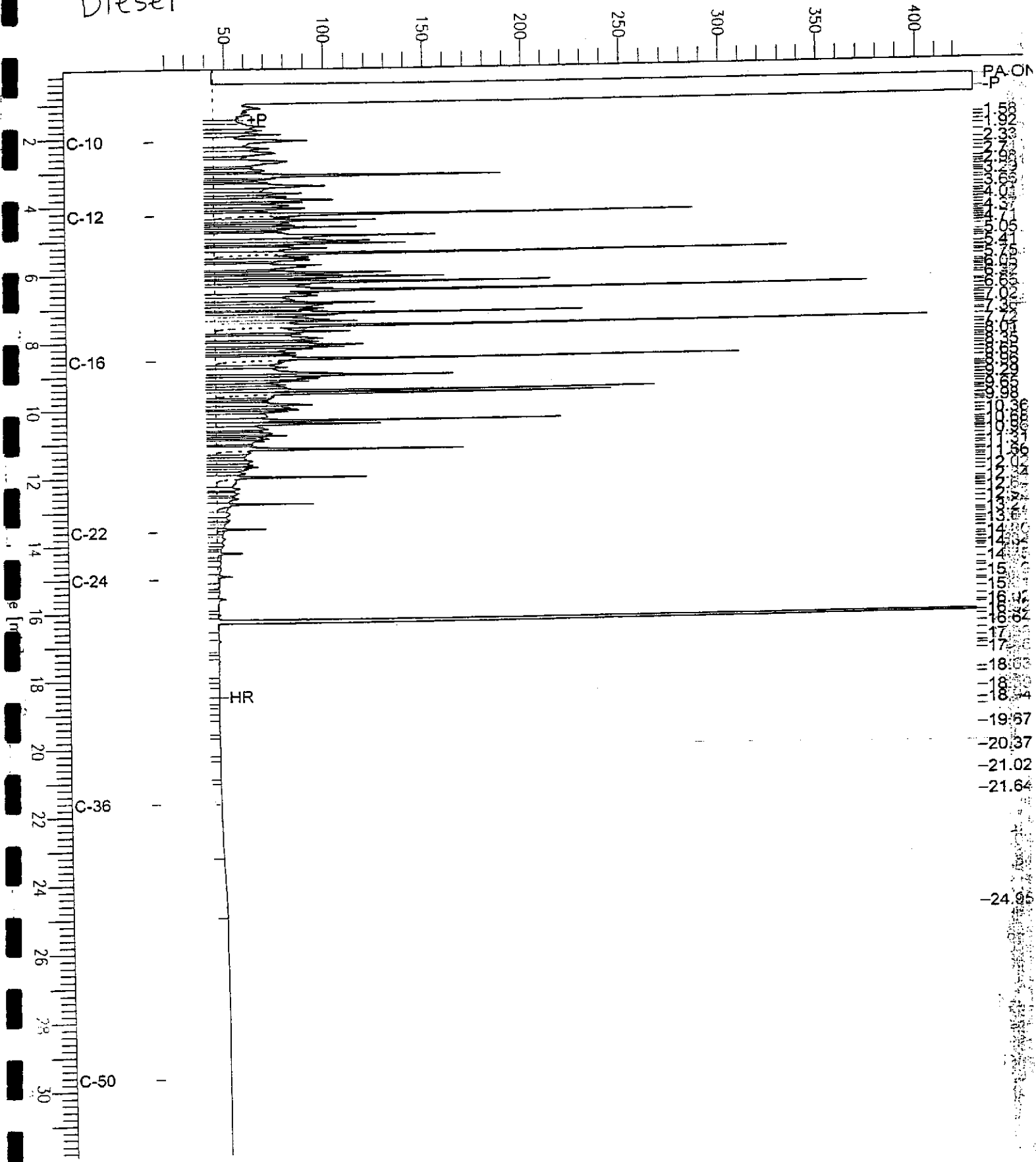
Sample Name : ccv,00ws0263,dsl
FileName : G:\GC11\CHA\036A003.RAW
Method : ATEH035.MTH
Start Time : 0.01 min
Scale Factor : 0.0

End Time : 31.91 min
Plot Offset : 14 mV

Sample #: 500mg/L
Date : 2/5/01 05:38 PM
Time of Injection: 2/5/01 03:44 PM
Low Point : 14.13 mV
High Point : 429.93 mV
Plot Scale: 415.8 mV

Diesel

Response [mV]





Total Extractable Hydrocarbons

Lab #:	150060	Location:	Simeon. 64th street prop.
Client:	Erler & Kalinowski, Inc.	Prep:	EPA 3520
Project#:	990016.04	Analysis:	EPA 8015M
Matrix:	Water	Batch#:	61266
Units:	ug/L	Prepared:	02/02/01
Diln Fac:	1.000	Analyzed:	02/06/01

Type: BS Cleanup Method: EPA 3630C
 Lab ID: QC136643

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	2,500	1,635	65	45-110

Surrogate	%REC	Limits
Hexacosane	101	44-121

Type: BSD Cleanup Method: EPA 3630C
 Lab ID: QC136644

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	2,500	1,750	70	45-110	7	22

Surrogate	%REC	Limits
Hexacosane	107	44-121



Total Extractable Hydrocarbons

Lab #:	150060	Location:	Simeon. 64th street prop.
Client:	Erler & Kalinowski, Inc.	Prep:	SHAKER TABLE
Project#:	990016.04	Analysis:	EPA 8015M
Matrix:	Soil	Sampled:	02/01/01
Units:	mg/Kg	Received:	02/01/01
Basis:	wet	Prepared:	02/07/01
Batch#:	61367		

Field ID:	SMW-4 SOIL	Diln Fac:	250.0
Type:	SAMPLE	Analyzed:	02/11/01
Lab ID:	150060-006	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C10-C24	21,000 H Y	500

Surrogate	%REC	Limits
Hexacosane	DO	60-136

Field ID:	SMW-COMP SOIL	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	02/10/01
Lab ID:	150060-012	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C10-C24	80 H Y	1.0

Surrogate	%REC	Limits
Hexacosane	101	60-136

Type:	BLANK	Analyzed:	02/09/01
Lab ID:	QC137006	Cleanup Method:	EPA 3630C
Diln Fac:	1.000		

Analyte	Result	RL
Diesel C10-C24	ND	0.99

Surrogate	%REC	Limits
Hexacosane	70	60-136

H= Heavier hydrocarbons contributed to the quantitation
 = Sample exhibits fuel pattern which does not resemble standard
 DO= Diluted Out
 ND= Not Detected
 R= Reporting Limit

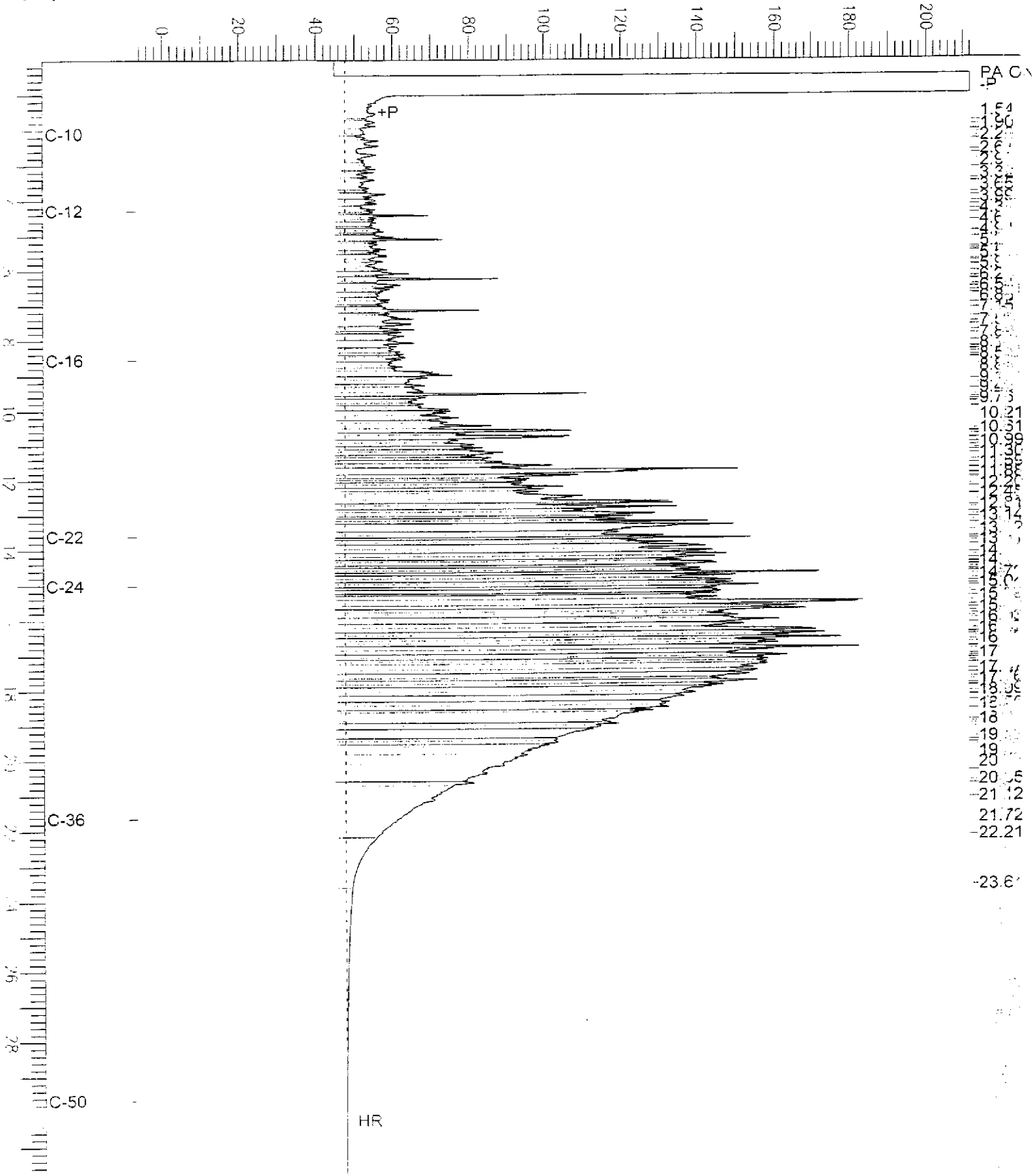
Chromatogram

Sample Name : 150060-006sg,61367
FileName : G:\GC11\CHA\042A010.RAW
Method : ATEH035.MTH
Start Time : 0.01 min
Scale Factor: 0.0

Sample #: 61367
Date : 2/12/01 08:54 AM
Time of Injection: 2/11/01 09:31 PM
Low Point : -6.64 mV
High Point : 212.12 mV
Plot Scale: 218.8 mV

SMW-4 Soil

Response [mV]



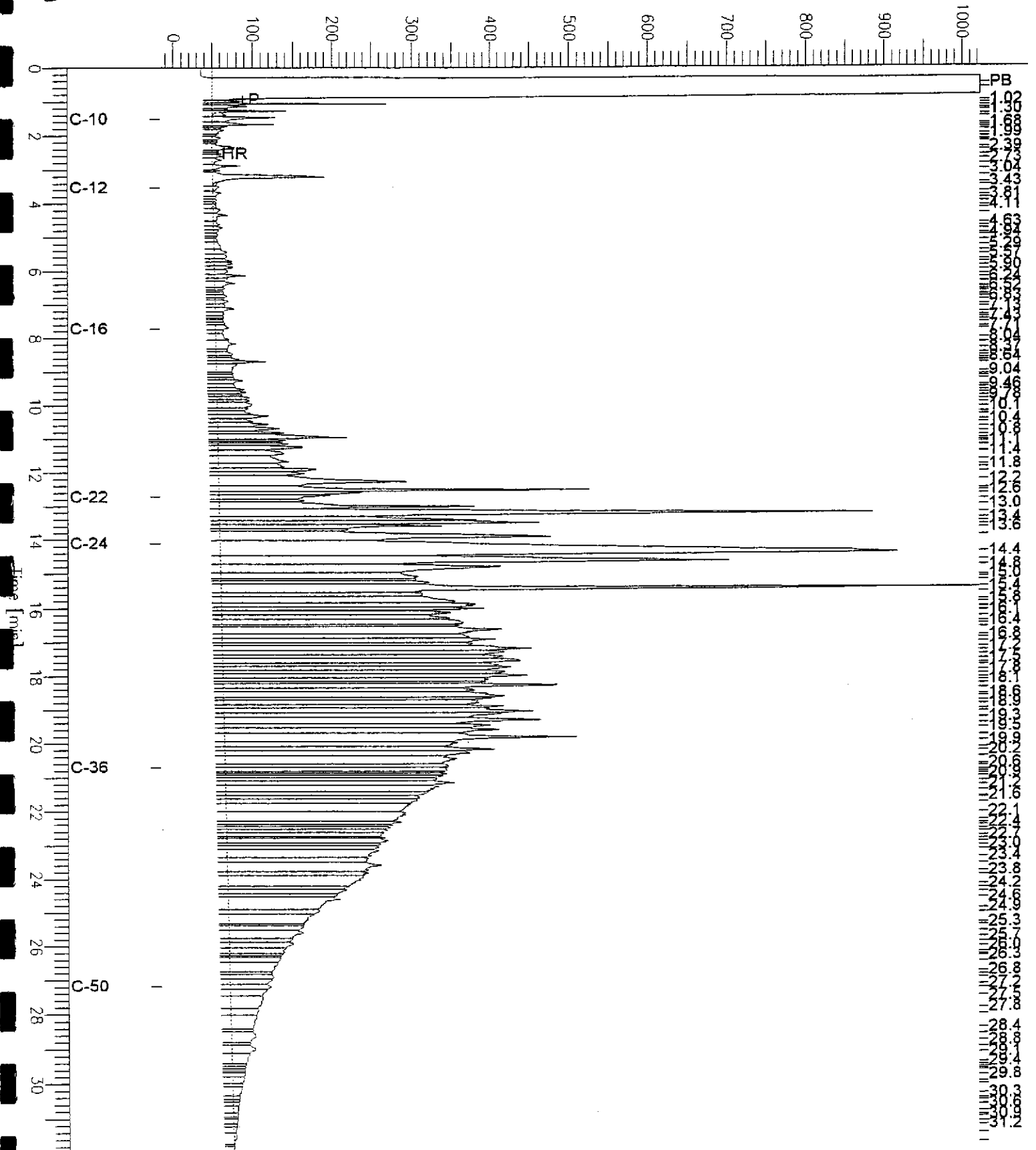
Chromatogram

Sample Name : 150060-012sg,61367
FileName : G:\GC15\CHB\040B039.RAW
Method : BTEH037.MTH
Start Time : 0.00 min
Scale Factor: 0.0

Sample #: 61367
Date : 02/11/2001 01:32 PM
Time of Injection: 02/10/2001 11:42 AM
Low Point : -16.48 mV
Plot Scale: 1040.5 mV
End Time : 31.90 min
High Point : 1024.00 mV
Plot Offset: -16 mV

SMW-COMP Soil

Response [mV]

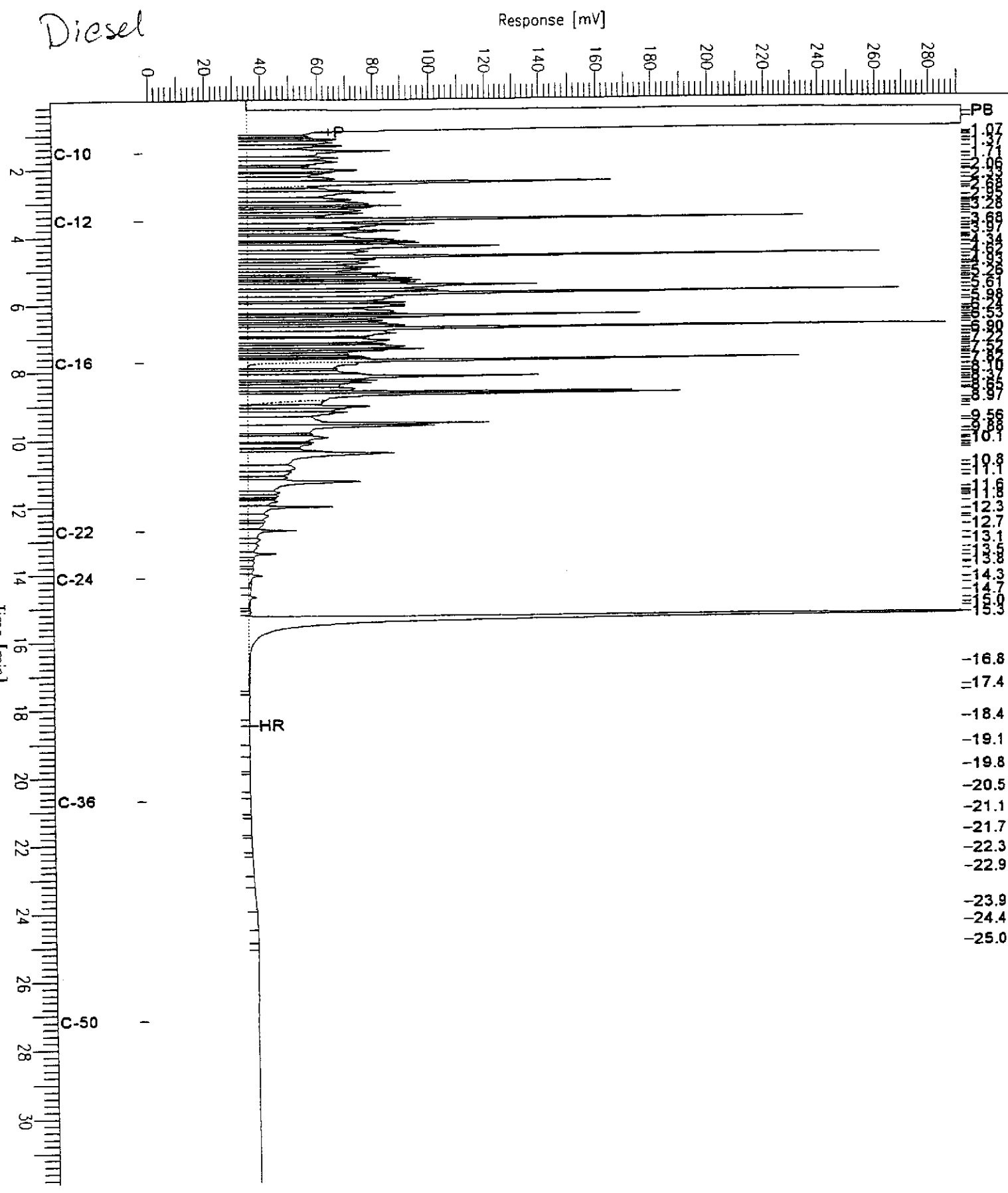


Sample Name : ccv,00ws0263,ds1
FileName : G:\GC15\CHB\040B002.RAW
Method : BTEH037.MTH
Start Time : 0.01 min
Scale Factor : 0.0

End Time : 31.91 min
Plot Offset : -2 mV

Sample #: 500mg/L
Date : 02/09/2001 10:22 AM
Time of Injection: 02/09/2001 08:29 AM
Low Point : -1.87 mV
High Point : 291.82 mV
Plot Scale: 293.7 mV

Diesel



16.8
17.4
18.4
19.1
19.8
20.5
21.1
21.7
22.3
22.9
23.9
24.4
25.0



Total Extractable Hydrocarbons

Lab #:	150060	Location:	Simeon. 64th street prop.
Client:	Erler & Kalinowski, Inc.	Prep:	SHAKER TABLE
Project#:	990016.04	Analysis:	EPA 8015M
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC137007	Batch#:	61367
Matrix:	Soil	Prepared:	02/07/01
Units:	mg/Kg	Analyzed:	02/10/01
Basis:	wet		

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	46.47	41.22	89	67-121

Surrogate	%REC	Limits
Hexacosane	70	60-136

Purgeable Organics by GC/MS

Lab #:	150060	Location:	Simeon. 64th street prop.
Client:	Erler & Kalinowski, Inc.	Prep:	EPA 5030
Project#:	990016.04	Analysis:	EPA 8260B
Field ID:	SMW-1	Batch#:	61241
Lab ID:	150060-001	Sampled:	02/01/01
Matrix:	Water	Received:	02/01/01
Units:	ug/L	Analyzed:	02/02/01
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	10
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0

ND= Not Detected

RL= Reporting Limit

**Purgeable Organics by GC/MS**

Lab #:	150060	Location:	Simeon. 64th street prop.
Client:	Erler & Kalinowski, Inc.	Prep:	EPA 5030
Project#:	990016.04	Analysis:	EPA 8260B
Field ID:	SMW-1	Batch#:	61241
Lab ID:	150060-001	Sampled:	02/01/01
Matrix:	Water	Received:	02/01/01
Units:	ug/L	Analyzed:	02/02/01
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	100	80-122
1,2-Dichloroethane-d4	99	78-123
Toluene-d8	101	80-110
Bromofluorobenzene	102	80-115

ND= Not Detected

RL= Reporting Limit



Purgeable Organics by GC/MS

Lab #:	150060	Location:	Simeon. 64th street prop.
Client:	Erler & Kalinowski, Inc.	Prep:	EPA 5030
Project#:	990016.04	Analysis:	EPA 8260B
Field ID:	SMW-2	Batch#:	61275
Lab ID:	150060-002	Sampled:	02/01/01
Matrix:	Water	Received:	02/01/01
Units:	ug/L	Analyzed:	02/04/01
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	10
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0

ND= Not Detected

RL= Reporting Limit

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Purgeable Organics by GC/MS

Lab #:	150060	Location:	Simeon. 64th street prop.
Client:	Erler & Kalinowski, Inc.	Prep:	EPA 5030
Project#:	990016.04	Analysis:	EPA 8260B
Field ID:	SMW-2	Batch#:	61275
Lab ID:	150060-002	Sampled:	02/01/01
Matrix:	Water	Received:	02/01/01
Units:	ug/L	Analyzed:	02/04/01
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	97	80-122
1,2-Dichloroethane-d4	98	78-123
Toluene-d8	100	80-110
Bromofluorobenzene	101	80-115

**Purgeable Organics by GC/MS**

Lab #:	150060	Location:	Simeon. 64th street prop.
Client:	Erler & Kalinowski, Inc.	Prep:	EPA 5030
Project#:	990016.04	Analysis:	EPA 8260B
Field ID:	DUP-2	Batch#:	61241
Lab ID:	150060-003	Sampled:	02/01/01
Matrix:	Water	Received:	02/01/01
Units:	ug/L	Analyzed:	02/02/01
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	10
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0

ND= Not Detected

RL= Reporting Limit

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Purgeable Organics by GC/MS

Lab #:	150060	Location:	Simeon. 64th street prop.
Client:	Erler & Kalinowski, Inc.	Prep:	EPA 5030
Project#:	990016.04	Analysis:	EPA 8260B
Field ID:	DUP-2	Batch#:	61241
Lab ID:	150060-003	Sampled:	02/01/01
Matrix:	Water	Received:	02/01/01
Units:	ug/L	Analyzed:	02/02/01
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	99	80-122
1,2-Dichloroethane-d4	103	78-123
Toluene-d8	99	80-110
Bromofluorobenzene	102	80-115

ND= Not Detected

RL= Reporting Limit

**Purgeable Organics by GC/MS**

Lab #:	150060	Location:	Simeon. 64th street prop.
Client:	Erler & Kalinowski, Inc.	Prep:	EPA 5030
Project#:	990016.04	Analysis:	EPA 8260B
Field ID:	SMW-3	Batch#:	61241
Lab ID:	150060-004	Sampled:	02/01/01
Matrix:	Water	Received:	02/01/01
Units:	ug/L	Analyzed:	02/02/01
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	14	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	10
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0

ND= Not Detected

RL= Reporting Limit

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Purgeable Organics by GC/MS

Lab #:	150060	Location:	Simeon. 64th street prop.
Client:	Erler & Kalinowski, Inc.	Prep:	EPA 5030
Project#:	990016.04	Analysis:	EPA 8260B
Field ID:	SMW-3	Batch#:	61241
Lab ID:	150060-004	Sampled:	02/01/01
Matrix:	Water	Received:	02/01/01
Units:	ug/L	Analyzed:	02/02/01
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	100	80-122
1,2-Dichloroethane-d4	104	78-123
Toluene-d8	99	80-110
Bromofluorobenzene	102	80-115

ND= Not Detected

RL= Reporting Limit



Purgeable Organics by GC/MS

Lab #:	150060	Location:	Simeon. 64th street prop.
Client:	Erler & Kalinowski, Inc.	Prep:	EPA 5030
Project#:	990016.04	Analysis:	EPA 8260B
Field ID:	SMW-4	Batch#:	61241
Lab ID:	150060-005	Sampled:	02/01/01
Matrix:	Water	Received:	02/01/01
Units:	ug/L	Analyzed:	02/02/01
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	10
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0

ND= Not Detected

RL= Reporting Limit

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Purgeable Organics by GC/MS

Lab #:	150060	Location:	Simeon. 64th street prop.
Client:	Erler & Kalinowski, Inc.	Prep:	EPA 5030
Project#:	990016.04	Analysis:	EPA 8260B
Field ID:	SMW-4	Batch#:	61241
Lab ID:	150060-005	Sampled:	02/01/01
Matrix:	Water	Received:	02/01/01
Units:	ug/L	Analyzed:	02/02/01
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	IREC	Limits
Dibromofluoromethane	101	80-122
1,2-Dichloroethane-d4	104	78-123
Toluene-d8	100	80-110
Bromofluorobenzene	100	80-115



Purgeable Organics by GC/MS

Lab #:	150060	Location:	Simeon. 64th street prop.
Client:	Erler & Kalinowski, Inc.	Prep:	EPA 5030
Project#:	990016.04	Analysis:	EPA 8260B
Field ID:	SMW-4 PURGE	Batch#:	61241
Lab ID:	150060-007	Sampled:	02/01/01
Matrix:	Water	Received:	02/01/01
Units:	ug/L	Analyzed:	02/02/01
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	10
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0

ND= Not Detected

RL= Reporting Limit

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**Purgeable Organics by GC/MS**

Lab #:	150060	Location:	Simeon. 64th street prop.
Client:	Erler & Kalinowski, Inc.	Prep:	EPA 5030
Project#:	990016.04	Analysis:	EPA 8260B
Field ID:	SMW-4 PURGE	Batch#:	61241
Lab ID:	150060-007	Sampled:	02/01/01
Matrix:	Water	Received:	02/01/01
Units:	ug/L	Analyzed:	02/02/01
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	MREC	Limits
Dibromofluoromethane	102	80-122
1,2-Dichloroethane-d4	104	78-123
Toluene-d8	100	80-110
Bromofluorobenzene	99	80-115

ND= Not Detected

RL= Reporting Limit

**Purgeable Organics by GC/MS**

Lab #:	150060	Location:	Simeon. 64th street prop.
Client:	Erler & Kalinowski, Inc.	Prep:	EPA 5030
Project#:	990016.04	Analysis:	EPA 8260B
Field ID:	SMW-1,2,3 PURGE	Batch#:	61241
Lab ID:	150060-008	Sampled:	02/01/01
Matrix:	Water	Received:	02/01/01
Units:	ug/L	Analyzed:	02/03/01
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	10
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0

ND= Not Detected

RL= Reporting Limit

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**Purgeable Organics by GC/MS**

Lab #:	150060	Location:	Simeon. 64th street prop.
Client:	Erler & Kalinowski, Inc.	Prep:	EPA 5030
Project#:	990016.04	Analysis:	EPA 8260B
Field ID:	SMW-1,2,3 PURGE	Batch#:	61241
Lab ID:	150060-008	Sampled:	02/01/01
Matrix:	Water	Received:	02/01/01
Units:	ug/L	Analyzed:	02/03/01
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	98	80-122
1,2-Dichloroethane-d4	100	78-123
Toluene-d8	99	80-110
Bromofluorobenzene	101	80-115

ND= Not Detected

RL= Reporting Limit

**Purgeable Organics by GC/MS**

Lab #:	150060	Location:	Simeon. 64th street prop.
Client:	Erler & Kalinowski, Inc.	Prep:	EPA 5030
Project#:	990016.04	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC136546	Batch#:	61241
Matrix:	Water	Analyzed:	02/02/01
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	10
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0

ND= Not Detected

RL= Reporting Limit

**Purgeable Organics by GC/MS**

Lab #:	150060	Location:	Simeon. 64th street prop.
Client:	Erler & Kalinowski, Inc.	Prep:	EPA 5030
Project#:	990016.04	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC136546	Batch#:	61241
Matrix:	Water	Analyzed:	02/02/01
Units:	ug/L		

Analyte	Result	RL
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	96	80-122
1,2-Dichloroethane-d4	98	78-123
Toluene-d8	99	80-110
Bromofluorobenzene	102	80-115

ND= Not Detected

RL= Reporting Limit

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Purgeable Organics by GC/MS

Lab #:	150060	Location:	Simeon. 64th street prop.
Client:	Erler & Kalinowski, Inc.	Prep:	EPA 5030
Project#:	990016.04	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC136547	Batch#:	61241
Matrix:	Water	Analyzed:	02/02/01
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	10
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0

ND= Not Detected

RL= Reporting Limit

**Purgeable Organics by GC/MS**

Lab #:	150060	Location:	Simeon. 64th street prop.
Client:	Erler & Kalinowski, Inc.	Prep:	EPA 5030
Project#:	990016.04	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC136547	Batch#:	61241
Matrix:	Water	Analyzed:	02/02/01
Units:	ug/L		

Analyte	Result	RL
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	98	80-122
1,2-Dichloroethane-d4	98	78-123
Toluene-d8	99	80-110
Bromofluorobenzene	101	80-115

ND= Not Detected

RL= Reporting Limit

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Purgeable Organics by GC/MS

Lab #:	150060	Location:	Simeon. 64th street prop.
Client:	Erler & Kalinowski, Inc.	Prep:	EPA 5030
Project#:	990016.04	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC136676	Batch#:	61275
Matrix:	Water	Analyzed:	02/04/01
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	10
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0

ND= Not Detected

RL= Reporting Limit

**Purgeable Organics by GC/MS**

Lab #:	150060	Location:	Simeon. 64th street prop.
Client:	Erler & Kalinowski, Inc.	Prep:	EPA 5030
Project#:	990016.04	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC136676	Batch#:	61275
Matrix:	Water	Analyzed:	02/04/01
Units:	ug/L		

Analyte	Result	RL
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	IREC	Limits
Dibromofluoromethane	99	80-122
1,2-Dichloroethane-d4	100	78-123
Toluene-d8	100	80-110
Bromofluorobenzene	100	80-115

ND= Not Detected

RL= Reporting Limit

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**Purgeable Organics by GC/MS**

Lab #:	150060	Location:	Simeon. 64th street prop.
Client:	Erler & Kalinowski, Inc.	Prep:	EPA 5030
Project#:	990016.04	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	61241
Units:	ug/L	Analyzed:	02/02/01
Diln Fac:	1.000		

Type: BS Lab ID: QC136544

Analyte	Spiked	Result	IREC	Limits
1,1-Dichloroethene	50.00	45.96	92	74-132
Benzene	50.00	48.21	96	80-116
Trichloroethene	50.00	46.58	93	80-119
Toluene	50.00	46.70	93	80-120
Chlorobenzene	50.00	50.39	101	80-117

Surrogate	IREC	Limits
Dibromofluoromethane	98	80-122
1,2-Dichloroethane-d4	100	78-123
Toluene-d8	100	80-110
Bromofluorobenzene	98	80-115

Type: BSD Lab ID: QC136545

Analyte	Spiked	Result	IREC	Limits	RPD	Lim
1,1-Dichloroethene	50.00	44.53	89	74-132	3	20
Benzene	50.00	47.26	95	80-116	2	20
Trichloroethene	50.00	45.77	92	80-119	2	20
Toluene	50.00	45.69	91	80-120	2	20
Chlorobenzene	50.00	48.78	98	80-117	3	20

Surrogate	IREC	Limits
Dibromofluoromethane	97	80-122
1,2-Dichloroethane-d4	99	78-123
Toluene-d8	99	80-110
Bromofluorobenzene	98	80-115

Purgeable Organics by GC/MS

Lab #:	150060	Location:	Simeon. 64th street prop.
Client:	Erler & Kalinowski, Inc.	Prep:	EPA 5030
Project#:	990016.04	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	61275
Units:	ug/L	Analyzed:	02/04/01
Diln Fac:	1.000		

Type: BS Lab ID: QC136674

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	50.00	51.30	103	74-132
Benzene	50.00	50.94	102	80-116
Trichloroethene	50.00	49.16	98	80-119
Toluene	50.00	48.58	97	80-120
Chlorobenzene	50.00	51.02	102	80-117

Surrogate	%REC	Limits
Dibromofluoromethane	98	80-122
1,2-Dichloroethane-d4	99	78-123
Toluene-d8	99	80-110
Bromofluorobenzene	97	80-115

Type: BSD Lab ID: QC136675

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	50.00	48.19	96	74-132	6	20
Benzene	50.00	48.95	98	80-116	4	20
Trichloroethene	50.00	47.19	94	80-119	4	20
Toluene	50.00	47.43	95	80-120	2	20
Chlorobenzene	50.00	50.05	100	80-117	2	20

Surrogate	%REC	Limits
Dibromofluoromethane	96	80-122
1,2-Dichloroethane-d4	97	78-123
Toluene-d8	101	80-110
Bromofluorobenzene	98	80-115

RPD= Relative Percent Difference



Purgeable Organics by GC/MS

Lab #:	150060	Location:	Simeon. 64th street prop.
Client:	Erler & Kalinowski, Inc.	Prep:	EPA 5030
Project#:	990016.04	Analysis:	EPA 8260B
Field ID:	SMW-4 SOIL	Diln Fac:	25.00
Lab ID:	150060-006	Batch#:	61240
Matrix:	Soil	Sampled:	02/01/01
Units:	ug/Kg	Received:	02/01/01
Basis:	wet	Analyzed:	02/02/01

Analyte	Result	RL
Freon 12	ND	250
Chloromethane	ND	250
Vinyl Chloride	ND	250
Bromomethane	ND	250
Chloroethane	ND	250
Trichlorofluoromethane	ND	130
Acetone	ND	500
Freon 113	ND	130
1,1-Dichloroethene	ND	130
Methylene Chloride	ND	500
Carbon Disulfide	ND	130
MTBE	ND	130
trans-1,2-Dichloroethene	ND	130
Vinyl Acetate	ND	1,300
1,1-Dichloroethane	ND	130
2-Butanone	ND	250
cis-1,2-Dichloroethene	ND	130
2,2-Dichloropropane	ND	130
Chloroform	ND	130
Bromochloromethane	ND	130
1,1,1-Trichloroethane	ND	130
1,1-Dichloropropene	ND	130
Carbon Tetrachloride	ND	130
1,2-Dichloroethane	ND	130
Benzene	ND	130
Trichloroethene	ND	130
1,2-Dichloropropane	ND	130
Bromodichloromethane	ND	130
Dibromomethane	ND	130
4-Methyl-2-Pentanone	ND	250
cis-1,3-Dichloropropene	ND	130
Toluene	700	130
trans-1,3-Dichloropropene	ND	130
1,1,2-Trichloroethane	ND	130
2-Hexanone	ND	250
1,3-Dichloropropane	ND	130
Tetrachloroethene	ND	130

ND= Not Detected

RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	150060	Location:	Simeon. 64th street prop.
Client:	Erler & Kalinowski, Inc.	Prep:	EPA 5030
Project#:	990016.04	Analysis:	EPA 8260B
Field ID:	SMW-4 SOIL	Diln Fac:	25.00
Lab ID:	150060-006	Batch#:	61240
Matrix:	Soil	Sampled:	02/01/01
Units:	ug/Kg	Received:	02/01/01
Basis:	wet	Analyzed:	02/02/01

Analyte	Result	RL
Dibromochloromethane	ND	130
1,2-Dibromoethane	ND	130
Chlorobenzene	ND	130
1,1,1,2-Tetrachloroethane	ND	130
Ethylbenzene	1,400	130
m,p-Xylenes	2,200	130
o-Xylene	1,100	130
Styrene	ND	130
Bromoform	ND	130
Isopropylbenzene	880	130
1,1,2,2-Tetrachloroethane	ND	130
1,2,3-Trichloropropane	ND	130
Propylbenzene	1,100	130
Bromobenzene	ND	130
1,3,5-Trimethylbenzene	800	130
2-Chlorotoluene	ND	130
4-Chlorotoluene	ND	130
tert-Butylbenzene	ND	130
1,2,4-Trimethylbenzene	3,600	130
sec-Butylbenzene	570	130
para-Isopropyl Toluene	450	130
1,3-Dichlorobenzene	ND	130
1,4-Dichlorobenzene	ND	130
n-Butylbenzene	540	130
1,2-Dichlorobenzene	ND	130
1,2-Dibromo-3-Chloropropane	ND	130
1,2,4-Trichlorobenzene	ND	130
Hexachlorobutadiene	ND	130
Naphthalene	1,400	130
1,2,3-Trichlorobenzene	ND	130

Surrogate	%REC	Limits
Dibromofluoromethane	98	63-133
1,2-Dichloroethane-d4	106	76-127
Toluene-d8	101	80-111
Bromofluorobenzene	105	77-126

ND= Not Detected

RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	150060	Location:	Simeon. 64th street prop.
Client:	Erler & Kalinowski, Inc.	Prep:	EPA 5030
Project#:	990016.04	Analysis:	EPA 8260B
Field ID:	SMW-COMP SOIL	Diln Fac:	1.000
Lab ID:	150060-012	Batch#:	61245
Matrix:	Soil	Sampled:	02/01/01
Units:	ug/Kg	Received:	02/01/01
Basis:	wet	Analyzed:	02/02/01

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	52	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0

ND= Not Detected

RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	150060	Location:	Simeon. 64th street prop.
Client:	Erler & Kalinowski, Inc.	Prep:	EPA 5030
Project#:	990016.04	Analysis:	EPA 8260B
Field ID:	SMW-COMP SOIL	Diln Fac:	1.000
Lab ID:	150060-012	Batch#:	61245
Matrix:	Soil	Sampled:	02/01/01
Units:	ug/Kg	Received:	02/01/01
Basis:	wet	Analyzed:	02/02/01

Analyte	Result	RL
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	105	63-133
1,2-Dichloroethane-d4	100	76-127
Toluene-d8	101	80-111
Bromofluorobenzene	99	77-126

ND= Not Detected

RL= Reporting Limit



Purgeable Organics by GC/MS

Lab #:	150060	Location:	Simeon. 64th street prop.
Client:	Erler & Kalinowski, Inc.	Prep:	EPA 5030
Project#:	990016.04	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC136543	Batch#:	61240
Matrix:	Water	Analyzed:	02/02/01
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0

ND= Not Detected

RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	150060	Location:	Simeon. 64th street prop.
Client:	Erler & Kalinowski, Inc.	Prep:	EPA 5030
Project#:	990016.04	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC136543	Batch#:	61240
Matrix:	Water	Analyzed:	02/02/01
Units:	ug/L		

Analyte	Result	RL
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	IREC	Limits
Dibromofluoromethane	100	63-133
1,2-Dichloroethane-d4	110	76-127
Toluene-d8	102	80-111
Bromofluorobenzene	102	77-126

ND= Not Detected

L= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	150060	Location:	Simeon. 64th street prop.
Client:	Erler & Kalinowski, Inc.	Prep:	EPA 5030
Project#:	990016.04	Analysis:	EPA 8260B
Type:	BLANK	Basis:	wet
Lab ID:	QC136563	Diln Fac:	1.000
Matrix:	Soil	Batch#:	61245
Units:	ug/Kg	Analyzed:	02/02/01

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0

ND= Not Detected

RL= Reporting Limit

**Purgeable Organics by GC/MS**

Lab #:	150060	Location:	Simeon. 64th street prop.
Client:	Erler & Kalinowski, Inc.	Prep:	EPA 5030
Project#:	990016.04	Analysis:	EPA 8260B
Type:	BLANK	Basis:	wet
Lab ID:	QC136563	Diln Fac:	1.000
Matrix:	Soil	Batch#:	61245
Units:	ug/Kg	Analyzed:	02/02/01

Analyte	Result	RL
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	REC	Limits
Dibromofluoromethane	105	63-133
1,2-Dichloroethane-d4	100	76-127
Toluene-d8	102	80-111
Bromofluorobenzene	97	77-126

ND= Not Detected

L= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	150060	Location:	Simeon. 64th street prop.
Client:	Erler & Kalinowski, Inc.	Prep:	EPA 5030
Project#:	990016.04	Analysis:	EPA 8260B
Type:	LCS	Basis:	wet
Lab ID:	QC136562	Diln Fac:	1.000
Matrix:	Soil	Batch#:	61245
Units:	ug/Kg	Analyzed:	02/02/01

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	50.00	50.51	101	66-138
Benzene	50.00	48.46	97	76-121
Trichloroethene	50.00	50.24	100	75-124
Toluene	50.00	51.65	103	75-124
Chlorobenzene	50.00	49.27	99	78-115

Surrogate	%REC	Limits
Dibromofluoromethane	105	63-133
1,2-Dichloroethane-d4	101	76-127
Toluene-d8	103	80-111
Bromofluorobenzene	97	77-126

