

98 NOV 31 PM 2:36

Ms. Madhulla Logan
Hazardous Materials Specialist
Alameda County Health Care Services Agency
Environmental Health Services
Environmental Protection (LOP)
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

November 30, 1998

RE: Third of Four Required Groundwater Monitoring Events (Fourth Quarter, 1998) at Runnels Industries, Inc., 3590 Enterprise Avenue, Hayward, CA.

Dear Ms. Logan;

This letter report documents the third of the four quarterly groundwater monitoring events required in your letter dated April 06, 1998 that was addressed to Mr. Al Gant at Runnels Industries, Inc., 3590 Enterprise Avenue in Hayward, California. The location of the 3590 Enterprise Avenue property is shown in Figure 1.

1.0 POTENTIOMETRIC SURFACE GRADIENT AND DIRECTION OF GRADIENT

Depth to water in each monitoring well was measured to +/- 0.01 feet using a Solinst Model 101 water level meter between 08:04 and 08:11 on November 03, 1998. The depth to water was converted to potentiometric surface elevation by subtracting the measured depths to water from the casing top elevation. This information is presented in Table 1 along with the water surface elevations from previous monitoring events.

For the five monitoring wells there are four triangles with a well at each apex for which a groundwater gradient and flow direction (more precisely direction of groundwater gradient, since the horizontal hydraulic conductivity anisotropy is unknown) may be calculated using the three-point problem approach. The groundwater gradient direction and gradient for each of the triangles are included in Table 2 that also provides this information for previous monitoring events.

Figure 2 presents a potentiometric surface map showing well locations and groundwater surface contours as measured on November 03, 1998 using the method of minimum area triangles in a minimum bounded field. The average direction of groundwater gradient on November 03, 1998 was south 67.77 degrees west with a slope (gradient) of 0.0043 feet per foot.

2.0 MONITORING WELL PURGING AND SAMPLING

The monitoring wells were purged by pumping with an "ES-60" submersible pump marketed for monitoring well purging by Enviro-Tech Services Co. of Martinez, California. Field measured water quality parameters were measured using a Cambridge Scientific Industries Hydac™ Conductivity Temperature pH Tester. Well purging activities and the field measured water quality parameters are documented in Attachment A. For each well, purging continued until specific conductance stabilized to +/- 5% on consecutive readings.

Groundwater samples were collected for halogenated volatile organic compound analysis by U.S. EPA Method 8010 from monitoring wells MW-1 through MW-5. The samples were collected directly from the discharge end of the purge pump delivery tubing at a pumping rate of less than 1 L/minute. Water samples were collected, in duplicate, into 40-mL glass vials with Teflon™ septum lids.

Groundwater sample bottles were labeled and placed in an ice chest with a 2 Liter plastic bottle containing ice. A Chain-of-Custody form was filled out and was delivered with the ice chest to Chromalab, Inc. of Pleasanton, California, a state certified laboratory (DTSC No. 1094).

3.0 GROUNDWATER ANALYTICAL RESULTS

Groundwater samples from MW-1 through MW-5 were submitted to Chromalab for analysis by EPA Method 8010 for halogenated volatile organic compounds. Copies of the laboratory report and chain-of-custody documentation are contained in Attachment B.

Eight Method 8010 analytes were identified in groundwater from the five monitoring wells at the 3590 Enterprise Avenue property. These compounds and their respective maximum contaminant levels (MCLs) are listed below

| Concentration in micrograms per Liter | MW-1 | MW-2 | MW-3 | MW-4 | MW-5 | MCL |
|--|-------|-------|-------|-------|-------|------|
| 1,1-Dichloroethane | <0.50 | 3.7 | 4.7 | <0.50 | 15 | 5.0 |
| 1,2-Dichloroethane | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 5.0 |
| 1,1-Dichloroethene | 2.3 | 3.0 | 10 | <0.50 | 150 | 6.0 |
| Trans-1,2-Dichloroethene | 0.80 | <0.50 | <0.50 | <0.50 | <0.50 | 10.0 |
| Cis-1,2-Dichloroethene | 2.2 | <0.50 | <0.50 | <0.50 | <0.50 | 6.0 |
| Trichloroethene | 28 | 3.4 | <0.50 | <0.50 | 5.3 | 5.0 |

Ms. Madhulla Logan
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Primary compounds 1,1-Dichloroethane (11-DCA) and 1,1-Dichloroethene (11-DCE) were present in up/cross gradient wells MW-3 and MW-2. Down/cross gradient well MW-1 contained 11-DCE. The 11-DCE concentration exceeded its MCL in well MW-3. These compounds were otherwise below their respective MCLs in the other wells referred to.

In centrally located monitoring well MW-5 Trichloroethene (TCE) was almost equal to its MCL, 11-DCA exceeded its MCL by a factor of three and 11-DCE by a factor of 25. In light of this and the previous groundwater data, including location B-7, reported in the September 30, 1997 Additional Site Investigations report, an off site source to the east is suggested.

Primary compounds TCE was found in down/cross gradient well MW-1 and MW-4. The MCL for TCE was exceeded in MW-1.

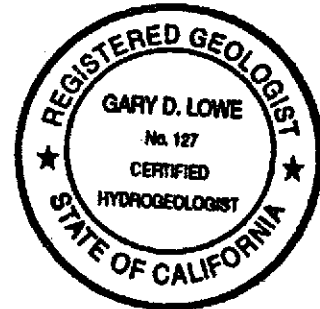
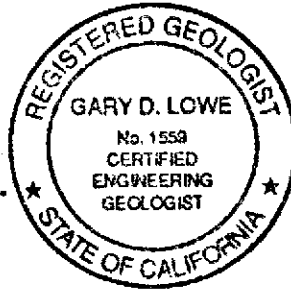
The fourth and final requested quarterly monitoring event is scheduled for the week of February 01, 1999.

Please do not hesitate to call me at 925-373-9211 should you have any questions.

Sincerely,



Gary D. Lowe, R.G., C.E.G., C.HG.
Principal, Hydrogeologist



xc: Mr. Al Gant

TABLE 1
 WATER LEVEL MEASUREMENTS
 RUNNELS INDUSTRIES, INC.
 3590 ENTERPRISE AVENUE, HAYWARD, CALIFORNIA

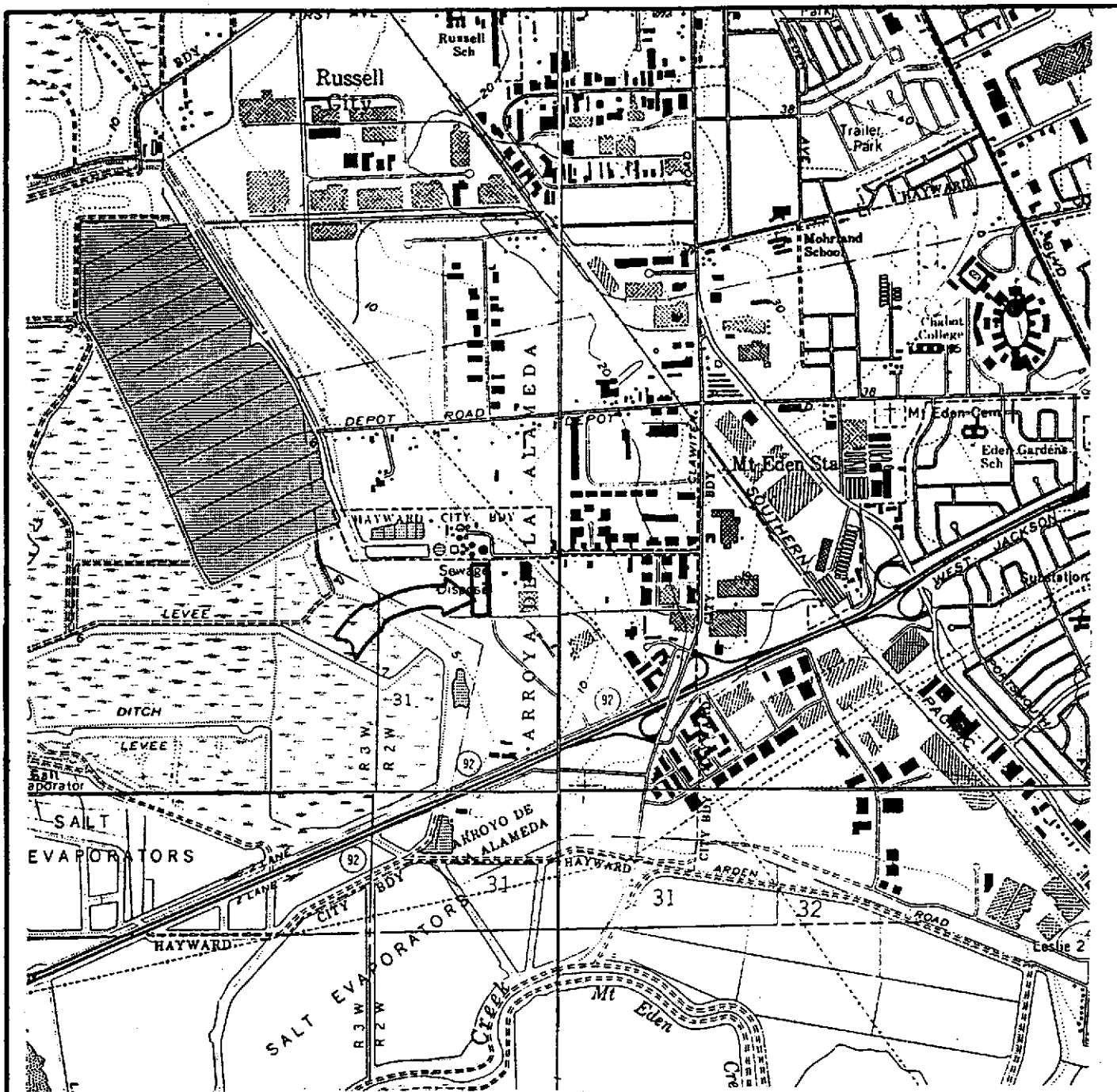
| WELL | TIME | DEPTH TO WATER feet | GROUNDWATER ELEVATION |
|--|---------|------------------------------|--------------------------|
| MW-1. Inst. 12/03/85. TD = 15.65. Screen Interval not available. EL: | | | 9.96 |
| | 8/20/97 | 7:48 | 1.40 |
| | 5/7/98 | 8:54 | 2.18 |
| | 8/3/98 | 8:04 | 1.60 |
| | 11/3/98 | 8:04 | 1.52 |
| MW-2. Inst. 08/18/97. TD = 12.14. Screen interval 7.1-12.1. EL: | | | 8.86 |
| | 8/20/97 | 7:26 | 2.45 |
| | 5/7/98 | 8:52 | 3.02 |
| | 8/3/98 | 8:06 | 2.76 |
| | 11/3/98 | 8:06 | 2.64 |
| MW-3. Inst. 08/18/97. TD = 12.15. Screen Interval 7.1-12.1. EL: | | | 7.91 |
| | 8/20/97 | 7:18 | 2.14 |
| | 5/7/98 | 8:49 | 3.35 |
| | 8/3/98 | 8:08 | 2.14 |
| | 11/3/98 | 8:08 | 1.93 |
| MW-4. Inst. 08/18/97. TD = 12.65. Screen Interval 7.6-12.6. EL: | | | 8.47 |
| | 8/20/97 | 7:44 | 1.13 |
| | 5/7/98 | 8:47 | 2.11 |
| | 8/3/98 | 8:10 | 1.20 |
| | 11/3/98 | 8:10 | 1.18 |
| MW-5. Inst. 08/18/97. TD = 12.68. Screen Interval 7.5-12.65. EL: | | | 8.86 |
| | 8/20/97 | 7:35 | 1.31 |
| | 5/7/98 | 8:44 | 2.24 |
| | 8/3/98 | 8:12 | 1.56 |
| | 11/3/98 | 8:11 | 1.41 |

TABLE 2
 POTENTIOMETRIC SURFACE GRADIENTS AND DIRECTIONS
 RUNNELS INDUSTRIES, INC.
 3590 ENTERPRISE AVENUE, HAYWARD, CALIFORNIA

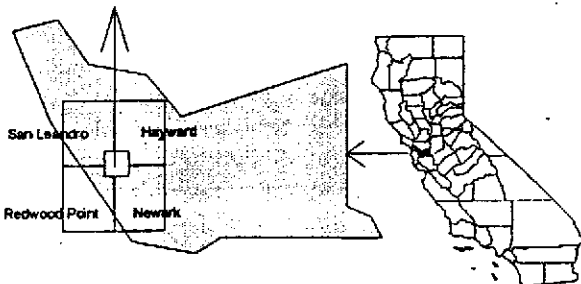
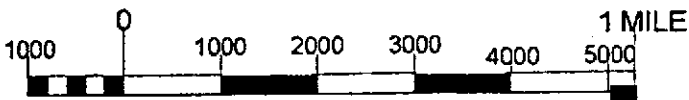
| WELL TRIANGLE | | | GRADIENT | GRADIENT DIRECTION |
|---------------|------|------|----------|--------------------|
| 8/20/97 | | | | |
| MW-1 | MW-2 | MW-5 | 0.0049 | S 59.43 °W |
| MW-2 | MW-3 | MW-5 | 0.0074 | S 82.55 °W |
| MW-3 | MW-4 | MW-5 | 0.0053 | N 73.08 °W |
| MW-1 | MW-4 | MW-5 | 0.0015 | S 46.79 °W |
| | | AVE | 0.0048 | S 73.92 °W |
| 5/7/98 | | | | |
| MW-1 | MW-2 | MW-5 | 0.0039 | S 69.98 °W |
| MW-2 | MW-3 | MW-5 | 0.0080 | N 84.72 °W |
| MW-3 | MW-4 | MW-5 | 0.0067 | N 65.82 °W |
| MW-1 | MW-4 | MW-5 | 0.0015 | S 77.59 °W |
| | | AVE | 0.0050 | S 89.26 °W |
| 8/3/98 | | | | |
| MW-1 | MW-2 | MW-5 | 0.0054 | S 62.85 °W |
| MW-2 | MW-3 | MW-5 | 0.0064 | S 74.01 °W |
| MW-3 | MW-4 | MW-5 | 0.0049 | S 85.54 °W |
| MW-1 | MW-4 | MW-5 | 0.0034 | S 61.53 °W |
| | | AVE | 0.0050 | S 70.98 °W |
| 11/3/98 | | | | |
| MW-1 | MW-2 | MW-5 | 0.0052 | S 58.61 °W |
| MW-2 | MW-3 | MW-5 | 0.0063 | S 71.32 °W |
| MW-3 | MW-4 | MW-5 | 0.0038 | N 86.52 °W |
| MW-1 | MW-4 | MW-5 | 0.0020 | S 47.69 °W |
| | | AVE | 0.0043 | S 67.77 °W |

TABLE 3
VOLATILE HALOGENATED ORGANIC COMPOUNDS
IN GROUNDWATER
RUNNELS INDUSTRIES, INC.
3590 ENTERPRISE AVENUE, HAYWARD, CALIFORNIA
(all concentrations in micrograms per liter)

| | Vinyl chloride | 1,1-Dichloroethane | 1,2-Dichloroethane | 1,1-Dichloroethene | 1,1,1-Trichloroethane | 1,1,2-Trichloroethane | TRANS-1,2-Dichloroethene | CIS-1,2-Dichloroethene | Trichloroethene | Tetrachloroethene |
|--|----------------|--------------------|--------------------|--------------------|-----------------------|-----------------------|--------------------------|------------------------|-----------------|-------------------|
| MW-1. Installed 12/03/85. TD = 15.65. Screen Interval not available. | | | | | | | | | | |
| 8/20/97 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | 44 | < 5.0 |
| 5/7/98 | < 0.5 | < 0.5 | < 0.5 | 2.4 | < 0.5 | < 0.5 | < 0.5 | 3.3 | 39 | 1.3 |
| 8/3/98 | < 0.5 | < 0.5 | < 0.5 | 2.2 | < 0.5 | < 0.5 | < 0.5 | 3.0 | 36 | 1.1 |
| 11/3/98 | < 0.5 | < 0.5 | < 0.5 | 2.3 | < 0.5 | < 0.5 | 0.80 | 2.2 | 28 | < 0.5 |
| MW-2. Installed 08/18/97. TD = 12.14. Screen Interval 7.1-12.1 | | | | | | | | | | |
| 8/20/97 | < 0.5 | 4.5 | < 0.5 | 3.9 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | 5.0 | < 0.5 |
| 5/7/98 | < 0.5 | 0.6 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| 8/3/98 | < 0.5 | 1.1 | < 0.5 | 1.1 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | 2.2 | < 0.5 |
| 11/3/98 | < 0.5 | 3.7 | < 0.5 | 3.0 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | 3.4 | < 0.5 |
| MW-3. Installed 08/18/97. TD = 12.15. Screen Interval 7.1-12.1 | | | | | | | | | | |
| 8/20/97 | < 0.5 | 5.9 | < 0.5 | 13 | 0.6 | < 0.5 | < 0.5 | < 0.5 | 0.5 | < 0.5 |
| 5/7/98 | < 0.5 | 2.9 | < 0.5 | 4.4 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| 8/3/98 | < 0.5 | 2.7 | < 0.5 | 7.3 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| 11/3/98 | < 0.5 | 4.7 | < 0.5 | 10 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| MW-4. Installed 08/18/97. TD = 12.65. Screen Interval 7.6-12.6 | | | | | | | | | | |
| 8/20/97 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | 0.6 | < 0.5 |
| 5/7/98 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | 2.7 | < 0.5 |
| 8/3/98 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | 0.72 | < 0.5 |
| 11/3/98 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| MW-5. Installed 08/18/97. TD = 12.68. Screen Interval 7.5-12.65 | | | | | | | | | | |
| 8/20/97 | < 0.5 | 25 | < 0.5 | 170 | < 0.5 | 0.9 | < 0.5 | < 0.5 | 8.6 | < 0.5 |
| 5/7/98 | 0.5 | 16 | < 0.5 | 140 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | 7.4 | < 0.5 |
| 8/3/98 | < 0.5 | 16 | 0.53 | 150 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | 7.5 | < 0.5 |
| 11/3/98 | < 0.5 | 15 | < 0.5 | 150 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | 5.3 | < 0.5 |



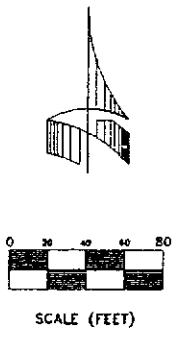
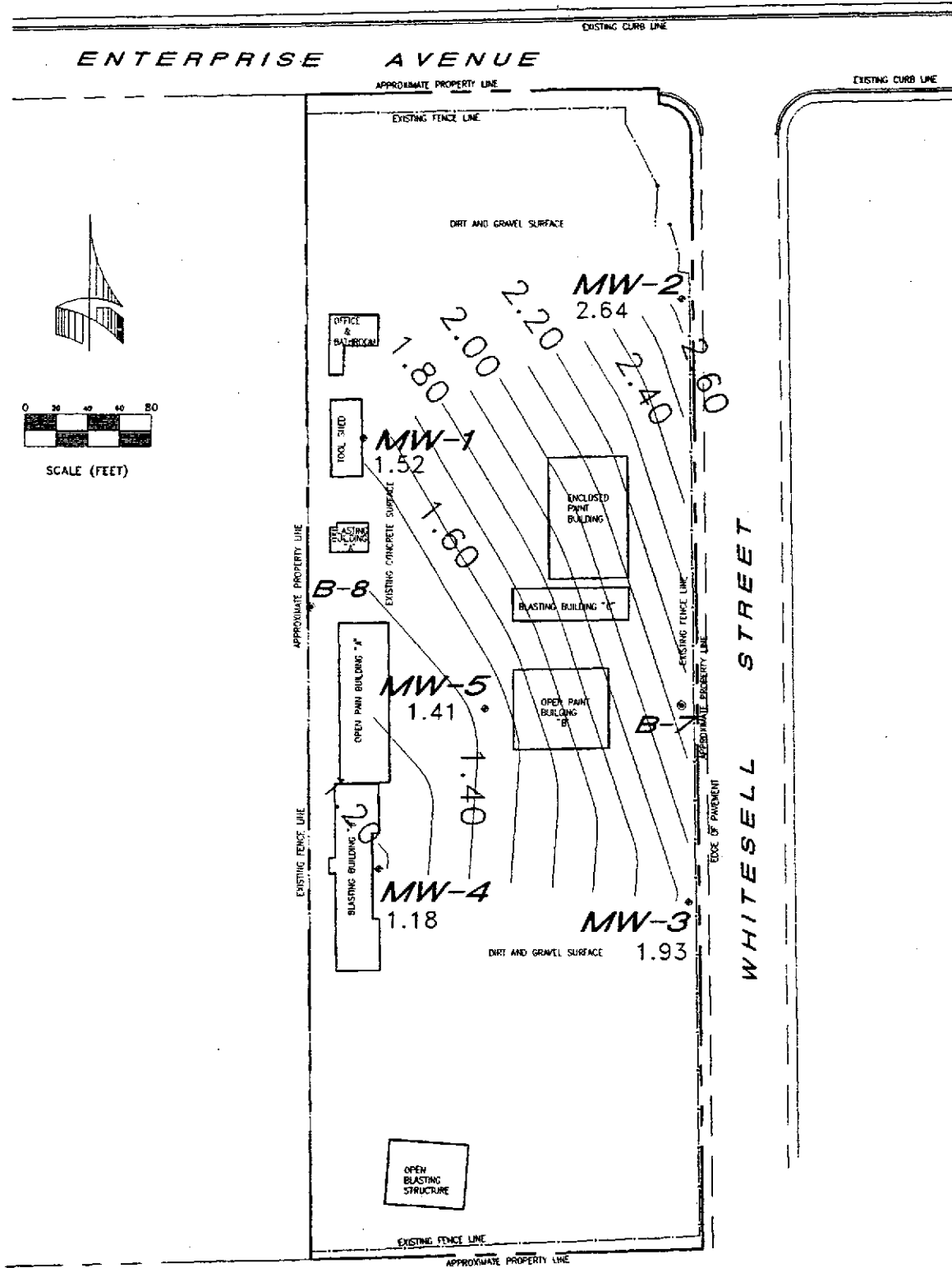
Base from U.S. Geological Survey
 7.5 Minute Series Topographic Maps
 San Leandro - Hayward
 Redwood Point - Newark
 Editions of 1959, Photorevised 1960



H₂OGEOL
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**SITE LOCATION MAP
 RUNNELS INDUSTRIES, INC.
 3590 ENTERPRISE AVENUE
 HAYWARD, CALIFORNIA**

**FIGURE
 1**



Well survey by Ron Archer, Civil Engineer, Inc., August 20, 1997. Top of casing elevations: MW-1 = 9.96; MW-2 = 8.86; MW-3 = 7.91; MW-4 = 8.47; and MW-5 = 8.86.

CONTOUR INTERVAL 0.1 FEET

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**POTENTIOMETRIC SURFACE MAP FOR 11/03/98
RUNNELS INDUSTRIES, INC.
3590 ENTERPRISE AVENUE
HAYWARD, CALIFORNIA**

**FIGURE
2**



A GROUND WATER CONSULTANCY

P.O. Box 2165 ■ Livermore, California 94551 ■ (925) 373-9211

ATTACHMENT A

FIELD DATA SHEET
LOG OF WELL SAMPLING ACTIVITIES

LOG OF WELL SAMPLING ACTIVITIES

Well Identification: MW-1 Project Name: 3590 Enterprise Avenue, Hayward, CA Date: 11/03/98

Sampled by: G. Lowe Weather Conditions:

Well Location: Well Casing Diameter: 2-inch Depth of Well Casing: 15.6'

Measuring Point: Top of PVC Casing Initial Depth to Water: 8.4' Final Depth to Water: Not measured

Casing Volume (1 vol./ 3 vol): 1.15/2.46 Well Borehole Volume:

Purging Method: Centrifugal Pump/Peristaltic Pump Sampling Method: Peristaltic Pump
 Grundfos Submersible Pump Grundfos Submersible Pump
 Centrifugal Pump/ES-60 Submersible Teflon Bailor
 ES-40/60 Submersible Pump X ES Sub. Pump @ < 1L/min. X

Purging Rate: See below Total Discharge: 45 Casing Volumes Purged: 3.9

Comments:

Waste Water Disposal: To drum.

Starting Time:

Time Pump on: 09:01

| Date | Time | Gal. Purged | pH | T deg. F | Diluted S.C. | Dil. Factor | S.C. (µS/cm) | Color |
|----------|-------|-------------|-----|----------|--------------|-------------|--------------|-------|
| 11/03/98 | : | | | | | x | = | |
| | 09:06 | 2 | 7.9 | 64.7 | | x | = 12.25 | |
| | 09:07 | 2 | 7.9 | 64.7 | | x | = 12.25 | |
| | 09:08 | 4 | 7.9 | 64.7 | | x | = 12.25 | |
| | 09:09 | 6 | 7.9 | 64.7 | | x | = 12.25 | |
| | : | | | | | x | = | |
| | : | | | | | x | = | |
| | : | | | | | x | = | |
| | : | | | | | x | = | |
| | : | | | | | x | = | |
| | : | | | | | x | = | |
| | : | | | | | x | = | |

Sample Identification: 3590/MW-1 Sample Time: 09:13

TURBIDITY ANALYSIS

Finishing Time: Time Analyzed: NTU Value:

LOG OF WELL SAMPLING ACTIVITIES

Well Identification: MW-2 Project Name: 3590 Enterprise Avenue, Hayward, CA Date: 11/03/98

Sampled by: G. Lowe Weather Conditions:

Well Location: Well Casing Diameter: 2-inch Depth of Well Casing: 12.1'

Measuring Point: Top of PVC Casing Initial Depth to Water: 6.2' Final Depth to Water: Not measured

Casing Volume (1 vol./ 3 vol): 0.45/2.54 Well Borehole Volume:

Purging Method: Centrifugal Pump/Peristaltic Pump Sampling Method: Peristaltic Pump
 Grundfos Submersible Pump Grundfos Submersible Pump
 Centrifugal Pump/ES-60 Submersible Teflon Bailor
 ES-40/60 Submersible Pump X ES Sub. Pump @ < 1L/min. X

Purging Rate: See below Total Discharge: 4 Casing Volumes Purged: 4.2

Comments:

Waste Water Disposal: To drum.

Starting Time:

Time Pump on: 09:52

| Date | Time | Gal. Purged | pH | T deg. F | Diluted S.C. | Dil. Factor | S.C. (µS/cm) | Color |
|----------|-------|-------------|-----|----------|--------------|-------------|--------------|-------|
| 11/03/98 | : | | | | | x | = | |
| | 09:54 | 2 | 7.9 | 65.4 | | x | = 12.25 | |
| | 09:55 | 2 | 7.9 | 65.4 | | x | = 12.25 | |
| | 09:56 | 4 | 7.9 | 65.4 | | x | = 12.25 | |
| | 09:57 | 4 | 7.9 | 65.4 | | x | = 12.25 | |
| | : | | | | | x | = | |
| | : | | | | | x | = | |
| | : | | | | | x | = | |
| | : | | | | | x | = | |
| | : | | | | | x | = | |
| | : | | | | | x | = | |
| | : | | | | | x | = | |
| | : | | | | | x | = | |

Sample Identification: 3590/MW-2 Sample Time: 09:58

TURBIDITY ANALYSIS

Finishing Time: Time Analyzed: NTU Value:

LOG OF WELL SAMPLING ACTIVITIES

Well Identification: MW-3 Project Name: 3590 Enterprise Avenue, Hayward, CA Date: 11/03/98

Sampled by: G. Lowe Weather Conditions:

Well Location: 6 Well Casing Diameter: 2-inch Depth of Well Casing: 12.15

Measuring Point: Top of PVC Casing Initial Depth to Water: 5.75 Final Depth to Water: Not measured

Casing Volume (1 vol./3 vol): 0.97 / 2.96 Well Borehole Volume:

Purging Method: Centrifugal Pump/Peristaltic Pump Sampling Method: Peristaltic Pump
 Grundfos Submersible Pump Grundfos Submersible Pump
 Centrifugal Pump/ES-80 Submersible Teflon Baiter
 ES-40/60 Submersible Pump X ES Sub. Pump @ <1L/min. X

Purging Rate: See below Total Discharge: 4 Casing Volumes Purged: 4

Comments:

Waste Water Disposal: To drum.

Starting Time:

Time Pump on: 08:41

| Date | Time | Gal. Purged | pH | T deg. F | Diluted S.C. | Oil Factor | S.C. (uS/cm) | Color |
|----------|-------|-------------|------|----------|--------------|------------|--------------|-------|
| 11/03/98 | | | | | | x | = | |
| | 08:41 | 2.1 | 7.93 | 62.0 | | x | = | 12.99 |
| | 08:47 | 3 | 7.94 | 62.0 | | x | = | 12.14 |
| | 08:44 | 3.2 | 7.95 | 62.0 | | x | = | 12.16 |
| | 08:46 | 4 | 7.94 | 62.0 | | x | = | 12.19 |
| | : | | | | | x | = | |
| | : | | | | | x | = | |
| | : | | | | | x | = | |
| | : | | | | | x | = | |
| | : | | | | | x | = | |
| | : | | | | | x | = | |

Sample Identification: 3590.MW. 2 Sample Time: 12:46

TURBIDITY ANALYSIS

Finishing Time: Time Analyzed: NTU Value:

LOG OF WELL SAMPLING ACTIVITIES

Well Identification: MW-4 Project Name: 3590 Enterprise Avenue, Hayward, CA Date: 11/03/98

Sampled by: G. Lowe Weather Conditions:

Well Location: C Well Casing Diameter: 2-inch Depth of Well Casing: 12.25

Measuring Point: Top of PVC Casing Initial Depth to Water: 3.27 Final Depth to Water: Not measured

Casing Volume (1 vol./3 vol): 0.46 / 2.57 Well Borehole Volume:

Purging Method: Centrifugal Pump/Peristaltic Pump Sampling Method: Peristaltic Pump
 Grundfos Submersible Pump Grundfos Submersible Pump
 Centrifugal Pump/ES-80 Submersible Teflon Baiter
 ES-40/60 Submersible Pump X ES Sub. Pump @ <1L/min. X

Purging Rate: See below Total Discharge: 4 Casing Volumes Purged: 4.65

Comments:

Waste Water Disposal: To drum.

Starting Time:

Time Pump on: 08:24

| Date | Time | Gal. Purged | pH | T deg. F | Diluted S.C. | Oil Factor | S.C. (uS/cm) | Color |
|----------|-------|-------------|------|----------|--------------|------------|--------------|-------|
| 11/03/98 | | | | | | x | = | |
| | 08:38 | 2.1 | 7.67 | 66.2 | | x | = | 2.60 |
| | 08:39 | 3 | 7.67 | 65.9 | | x | = | 2.410 |
| | 08:40 | 2.1 | 7.67 | 65.9 | | x | = | 2.380 |
| | 08:39 | 4 | 7.61 | 65.9 | | x | = | 2.40 |
| | : | | | | | x | = | |
| | : | | | | | x | = | |
| | : | | | | | x | = | |
| | : | | | | | x | = | |
| | : | | | | | x | = | |
| | : | | | | | x | = | |

Sample Identification: 3590.MW. 4 Sample Time: 02:24

TURBIDITY ANALYSIS

Finishing Time: Time Analyzed: NTU Value:

LOG OF WELL SAMPLING ACTIVITIES

Well Identification: MW-5 Project Name: 3590 Enterprise Avenue, Hayward, CA Date: 11/03/98

Sampled by: G. Lowe Weather Conditions:

Well Location: Well Casing Diameter: 2-inch Depth of Well Casing: 17.5'

Measuring Point: Top of PVC Casing Initial Depth to Water: 3.45 Final Depth to Water: Not measured

Casing Volume (1 vol./3 vol): 0.83/ 2.5 Well Borehole Volume:

Purging Method: Centrifugal Pump/Peristaltic Pump Sampling Method: Peristaltic Pump
 Grundfos Submersible Pump Grundfos Submersible Pump
 Centrifugal Pump/ES-60 Submersible Teflon Beaker
 ES-40/60 Submersible Pump X ES Sub. Pump @ <1L/min. X

Purging Rate: See below Total Discharge: 4 Casing Volumes Purged: 4.8

Comments:

Waste Water Disposal: To drum.

Starting Time:

Time Pump on: 03:11

| Date | Time | Gal. Purged | pH | T deg. F | Diluted S.C. | Dil. Factor | S.C. (uS/cm) | Color |
|----------|-------|-------------|------|----------|--------------|-------------|--------------|-------|
| 11/03/98 | : | | | | | x | = | |
| | 03:30 | 2.5 | 7.06 | 44.7 | | x | = 14.15 | |
| | 04:10 | 3 | 7.07 | 45.0 | | x | = 11.5 | |
| | 04:31 | 3.5 | 7.03 | 46.0 | | x | = 16.73 | |
| | 04:37 | 4 | 7.04 | 46.0 | | x | = 16.5 | |
| | : | | | | | x | = | |
| | : | | | | | x | = | |
| | : | | | | | x | = | |
| | : | | | | | x | = | |
| | : | | | | | x | = | |
| | : | | | | | x | = | |

Sample Identification: 3590/MW-5 Sample Time: 04:22

TURBIDITY ANALYSIS

Finishing Time: Time Analyzed: NTU Value:



A GROUND WATER CONSULTANCY

P.O. Box 2165 ■ Livermore, California 94551 ■ (925) 373-9211

ATTACHMENT B

LABORATORY ANALYTICAL REPORT
SAMPLE CHAIN OF CUSTODY

CHROMALAB, INC.

Environmental Services (SDB)

November 12, 1998

Submission #: 9811045

H2OGEOL

Atten: Gary Lowe

Project: RUNNELS INDUSTRIES
Received: November 3, 1998

re: One sample for Volatile Halogenated Organics analysis.
Method: SW846 Method 8010A July 1992

Client Sample ID: 3590/MW-1

Spl#: 213612

Sampled: November 3, 1998

Matrix: WATER

Run#: 15926

Analyzed: November 9, 1998

| ANALYTE | RESULT (ug/L) | REPORTING LIMIT (ug/L) | BLANK RESULT (ug/L) | BLANK SPIKE (%) | DILUTION FACTOR |
|--|------------------|------------------------------|---------------------------|-----------------------|--------------------|
| VINYL CHLORIDE | N.D. | 0.50 | N.D. | -- | 1 |
| CHLOROETHANE | N.D. | 0.50 | N.D. | -- | 1 |
| TRICHLOROFLUOROMETHANE | N.D. | 0.50 | N.D. | -- | 1 |
| 1,1-DICHLOROETHENE | 2.3 | 0.50 | N.D. | 80.0 | 1 |
| METHYLENE CHLORIDE | N.D. | 5.0 | N.D. | -- | 1 |
| TRANS-1,2-DICHLOROETHENE | 0.80 | 0.50 | N.D. | -- | 1 |
| CIS-1,2-DICHLOROETHENE | 2.2 | 0.50 | N.D. | -- | 1 |
| 1,1-DICHLOROETHANE | N.D. | 0.50 | N.D. | -- | 1 |
| CHLOROFORM | N.D. | 3.0 | N.D. | -- | 1 |
| 1,1,1-TRICHLOROETHANE | N.D. | 0.50 | N.D. | -- | 1 |
| CARBON TETRACHLORIDE | N.D. | 0.50 | N.D. | -- | 1 |
| 1,2-DICHLOROETHANE | N.D. | 0.50 | N.D. | -- | 1 |
| TRICHLOROETHENE | 28 | 0.50 | N.D. | 83.0 | 1 |
| Note: VALUE IS TAKEN FROM GC/MS RUN EPA METHOD 8210A | | | | | |
| 1,2-DICHLOROPROPANE | N.D. | 0.50 | N.D. | -- | 1 |
| BROMODICHLOROMETHANE | N.D. | 0.50 | N.D. | -- | 1 |
| 2-CHLOROETHYL VINYL ETHER | N.D. | 0.50 | N.D. | -- | 1 |
| TRANS-1,3-DICHLOROPROPENE | N.D. | 0.50 | N.D. | -- | 1 |
| CIS-1,3-DICHLOROPROPENE | N.D. | 0.50 | N.D. | -- | 1 |
| 1,1,2-TRICHLOROETHANE | N.D. | 0.50 | N.D. | -- | 1 |
| TETRACHLOROETHENE | N.D. | 0.50 | N.D. | -- | 1 |
| DIBROMOCHLOROMETHANE | N.D. | 0.50 | N.D. | -- | 1 |
| CHLOROENZENE | N.D. | 0.50 | N.D. | 69.0 | 1 |
| BROMOFORM | N.D. | 2.0 | N.D. | -- | 1 |
| 1,1,2,2-TETRACHLOROETHANE | N.D. | 0.50 | N.D. | -- | 1 |
| 1,3-DICHLOROBENZENE | N.D. | 0.50 | N.D. | -- | 1 |
| 1,4-DICHLOROBENZENE | N.D. | 0.50 | N.D. | -- | 1 |
| 1,2-DICHLOROBENZENE | N.D. | 0.50 | N.D. | -- | 1 |
| TRICHLOROTRIFLUOROETHANE | N.D. | 2.0 | 9.80 | -- | 1 |
| CHLOROMETHANE | N.D. | 1.0 | N.D. | -- | 1 |
| BROMOMETHANE | N.D. | 1.0 | N.D. | -- | 1 |

Oleg Nemtsov
Analyst

Michael Verona
Operations Manager

925-373-9222 x 111

1220 Quarry Lane • Pleasanton, California 94566-4756

(925) 484-1919 • Facsimile (925) 484-1096

Federal ID #68-0140157

CHROMALAB, INC.

Environmental Services (SDB)

November 12, 1998

Submission #: 9811045

H2OGEOL

Atten: Gary Lowe

Project: RUNNELS INDUSTRIES
Received: November 3, 1998

re: One sample for Volatile Halogenated Organics analysis.
Method: SW846 Method 8010A July 1992

Client Sample ID: 3590/MW-2

Spl#: 213613

Sampled: November 3, 1998

Matrix: WATER

Run#: 15926

Analyzed: November 9, 1998

| ANALYTE | RESULT (ug/L) | REPORTING LIMIT (ug/L) | BLANK RESULT (ug/L) | BLANK SPIKE (%) | DILUTION FACTOR |
|---------------------------|------------------|------------------------------|---------------------------|-----------------------|--------------------|
| VINYL CHLORIDE | N.D. | 0.50 | N.D. | -- | 1 |
| CHLOROETHANE | N.D. | 0.50 | N.D. | -- | 1 |
| TRICHLOROFLUOROMETHANE | N.D. | 0.50 | N.D. | -- | 1 |
| 1,1-DICHLOROETHENE | 3.0 | 0.50 | N.D. | 80.0 | 1 |
| METHYLENE CHLORIDE | N.D. | 5.0 | N.D. | -- | 1 |
| TRANS-1,2-DICHLOROETHENE | N.D. | 0.50 | N.D. | -- | 1 |
| CIS-1,2-DICHLOROETHENE | N.D. | 0.50 | N.D. | -- | 1 |
| 1,1-DICHLOROETHANE | 3.7 | 0.50 | N.D. | -- | 1 |
| CHLOROFORM | N.D. | 3.0 | N.D. | -- | 1 |
| 1,1,1-TRICHLOROETHANE | N.D. | 0.50 | N.D. | -- | 1 |
| CARBON TETRACHLORIDE | N.D. | 0.50 | N.D. | -- | 1 |
| 1,2-DICHLOROETHANE | N.D. | 0.50 | N.D. | -- | 1 |
| TRICHLOROETHENE | 3.4 | 0.50 | N.D. | 83.0 | 1 |
| 1,2-DICHLOROPROPANE | N.D. | 0.50 | N.D. | -- | 1 |
| BROMODICHLOROMETHANE | N.D. | 0.50 | N.D. | -- | 1 |
| 2-CHLOROETHYL VINYL ETHER | N.D. | 0.50 | N.D. | -- | 1 |
| TRANS-1,3-DICHLOROPROPENE | N.D. | 0.50 | N.D. | -- | 1 |
| CIS-1,3-DICHLOROPROPENE | N.D. | 0.50 | N.D. | -- | 1 |
| 1,1,2-TRICHLOROETHANE | N.D. | 0.50 | N.D. | -- | 1 |
| TETRACHLOROETHENE | N.D. | 0.50 | N.D. | -- | 1 |
| DIBROMOCHLOROMETHANE | N.D. | 0.50 | N.D. | -- | 1 |
| CHLOROENZENE | N.D. | 0.50 | N.D. | 69.0 | 1 |
| BROMOFORM | N.D. | 2.0 | N.D. | -- | 1 |
| 1,1,2,2-TETRACHLOROETHANE | N.D. | 0.50 | N.D. | -- | 1 |
| 1,3-DICHLOROBENZENE | N.D. | 0.50 | N.D. | -- | 1 |
| 1,4-DICHLOROBENZENE | N.D. | 0.50 | N.D. | -- | 1 |
| 1,2-DICHLOROBENZENE | N.D. | 0.50 | N.D. | -- | 1 |
| TRICHLOROTRIFLUOROETHANE | N.D. | 2.0 | 9.80 | -- | 1 |
| CHLOROMETHANE | N.D. | 1.0 | N.D. | -- | 1 |
| BROMOMETHANE | N.D. | 1.0 | N.D. | -- | 1 |

Oleg Nemtsov
Analyst

Michael Verona
Operations Manager

925-373-9222 x 111

1220 Quarry Lane • Pleasanton, California 94566-4756

(925) 484-1919 • Facsimile (925) 484-1096

Federal ID #68-0140157

CHROMALAB, INC.

Environmental Services (SOB)

November 12, 1998

Submission #: 9811045

H2OGEOL

Atten: Gary Lowe

Project: RUNNELS INDUSTRIES
Received: November 3, 1998

re: One sample for Volatile Halogenated Organics analysis.
Method: SW846 Method 8010A July 1992

Client Sample ID: 3590/MW-3

Spl#: 213614

Sampled: November 3, 1998

Matrix: WATER

Run#: 15926

Analyzed: November 9, 1998

| ANALYTE | RESULT (ug/L) | REPORTING LIMIT (ug/L) | BLANK RESULT (ug/L) | BLANK SPIKE (%) | DILUTION FACTOR |
|---------------------------|---------------|------------------------|---------------------|-----------------|-----------------|
| VINYL CHLORIDE | N.D. | 0.50 | N.D. | -- | 1 |
| CHLOROETHANE | N.D. | 0.50 | N.D. | -- | 1 |
| TRICHLOROFLUOROMETHANE | N.D. | 0.50 | N.D. | -- | 1 |
| 1,1-DICHLOROETHENE | 10 | 0.50 | N.D. | 80.0 | 1 |
| METHYLENE CHLORIDE | N.D. | 5.0 | N.D. | -- | 1 |
| TRANS-1,2-DICHLOROETHENE | N.D. | 0.50 | N.D. | -- | 1 |
| CIS-1,2-DICHLOROETHENE | N.D. | 0.50 | N.D. | -- | 1 |
| 1,1-DICHLOROETHANE | 4.7 | 0.50 | N.D. | -- | 1 |
| CHLOROFORM | N.D. | 3.0 | N.D. | -- | 1 |
| 1,1,1-TRICHLOROETHANE | N.D. | 0.50 | N.D. | -- | 1 |
| CARBON TETRACHLORIDE | N.D. | 0.50 | N.D. | -- | 1 |
| 1,2-DICHLOROETHANE | N.D. | 0.50 | N.D. | -- | 1 |
| TRICHLOROETHENE | N.D. | 0.50 | N.D. | 83.0 | 1 |
| 1,2-DICHLOROPROPANE | N.D. | 0.50 | N.D. | -- | 1 |
| BROMODICHLOROMETHANE | N.D. | 0.50 | N.D. | -- | 1 |
| 2-CHLOROETHYL VINYL ETHER | N.D. | 0.50 | N.D. | -- | 1 |
| TRANS-1,3-DICHLOROPROPENE | N.D. | 0.50 | N.D. | -- | 1 |
| CIS-1,3-DICHLOROPROPENE | N.D. | 0.50 | N.D. | -- | 1 |
| 1,1,2-TRICHLOROETHANE | N.D. | 0.50 | N.D. | -- | 1 |
| TETRACHLOROETHENE | N.D. | 0.50 | N.D. | -- | 1 |
| DIBROMOCHLOROMETHANE | N.D. | 0.50 | N.D. | -- | 1 |
| CHLOROBENZENE | N.D. | 0.50 | N.D. | 69.0 | 1 |
| BROMOFORM | N.D. | 2.0 | N.D. | -- | 1 |
| 1,1,2,2-TETRACHLOROETHANE | N.D. | 0.50 | N.D. | -- | 1 |
| 1,3-DICHLOROBENZENE | N.D. | 0.50 | N.D. | -- | 1 |
| 1,4-DICHLOROBENZENE | N.D. | 0.50 | N.D. | -- | 1 |
| 1,2-DICHLOROBENZENE | N.D. | 0.50 | N.D. | -- | 1 |
| TRICHLOROTRIFLUOROETHANE | N.D. | 2.0 | 9.80 | -- | 1 |
| CHLOROMETHANE | N.D. | 1.0 | N.D. | -- | 1 |
| BROMOMETHANE | N.D. | 1.0 | N.D. | -- | 1 |

Oleg Nemtsov
Analyst

Michael Verona
Operations Manager

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Federal ID #68-0140157

CHROMALAB, INC.

Environmental Services (SOB)

November 12, 1998

Submission #: 9811045

H2OGEOL

Atten: Gary Lowe

Project: RUNNELS INDUSTRIES
Received: November 3, 1998

re: One sample for Volatile Halogenated Organics analysis.
Method: SW846 Method 8010A July 1992

Client Sample ID: 3590/MW-4

Spl#: 213615

Sampled: November 3, 1998

Matrix: WATER

Run#: 15926

Analyzed: November 9, 1998

| ANALYTE | RESULT (ug/L) | REPORTING LIMIT (ug/L) | BLANK RESULT (ug/L) | BLANK SPIKE (%) | DILUTION FACTOR |
|---------------------------|---------------|------------------------|---------------------|-----------------|-----------------|
| VINYL CHLORIDE | N.D. | 0.50 | N.D. | -- | 1 |
| CHLOROETHANE | N.D. | 0.50 | N.D. | -- | 1 |
| TRICHLOROFLUOROMETHANE | N.D. | 0.50 | N.D. | -- | 1 |
| 1,1-DICHLOROETHENE | N.D. | 0.50 | N.D. | 80.0 | 1 |
| METHYLENE CHLORIDE | N.D. | 5.0 | N.D. | -- | 1 |
| TRANS-1,2-DICHLOROETHENE | N.D. | 0.50 | N.D. | -- | 1 |
| CIS-1,2-DICHLOROETHENE | N.D. | 0.50 | N.D. | -- | 1 |
| 1,1-DICHLOROETHANE | N.D. | 0.50 | N.D. | -- | 1 |
| CHLOROFORM | N.D. | 3.0 | N.D. | -- | 1 |
| 1,1,1-TRICHLOROETHANE | N.D. | 0.50 | N.D. | -- | 1 |
| CARBON TETRACHLORIDE | N.D. | 0.50 | N.D. | -- | 1 |
| 1,2-DICHLOROETHANE | N.D. | 0.50 | N.D. | -- | 1 |
| TRICHLOROETHENE | N.D. | 0.50 | N.D. | 83.0 | 1 |
| 1,2-DICHLOROPROPANE | N.D. | 0.50 | N.D. | -- | 1 |
| BROMODICHLOROMETHANE | N.D. | 0.50 | N.D. | -- | 1 |
| 2-CHLOROETHYL VINYL ETHER | N.D. | 0.50 | N.D. | -- | 1 |
| TRANS-1,3-DICHLOROPROPENE | N.D. | 0.50 | N.D. | -- | 1 |
| CIS-1,3-DICHLOROPROPENE | N.D. | 0.50 | N.D. | -- | 1 |
| 1,1,2-TRICHLOROETHANE | N.D. | 0.50 | N.D. | -- | 1 |
| TETRACHLOROETHENE | N.D. | 0.50 | N.D. | -- | 1 |
| DIBROMOCHLOROMETHANE | N.D. | 0.50 | N.D. | -- | 1 |
| CHLOROBENZENE | N.D. | 0.50 | N.D. | 69.0 | 1 |
| BROMOFORM | N.D. | 2.0 | N.D. | -- | 1 |
| 1,1,2,2-TETRACHLOROETHANE | N.D. | 0.50 | N.D. | -- | 1 |
| 1,3-DICHLOROBENZENE | N.D. | 0.50 | N.D. | -- | 1 |
| 1,4-DICHLOROBENZENE | N.D. | 0.50 | N.D. | -- | 1 |
| 1,2-DICHLOROBENZENE | N.D. | 0.50 | N.D. | -- | 1 |
| TRICHLOROTRIFLUOROETHANE | N.D. | 2.0 | 9.80 | -- | 1 |
| CHLOROMETHANE | N.D. | 1.0 | N.D. | -- | 1 |
| BROMOMETHANE | N.D. | 1.0 | N.D. | -- | 1 |

Oleg Nemtsov
Analyst

Michael Verona
Operations Manager

925-373-9222

1220 Quarry Lane • Pleasanton, California 94566-4756
(925) 484-1919 • Facsimile (925) 484-1096
Federal ID #68-0140157

CHROMALAB, INC.

Environmental Services (SOB)

November 12, 1998

Submission #: 9811045

H2OGEOL

Atten: Gary Lowe

Project: RUNNELS INDUSTRIES
Received: November 3, 1998

re: One sample for Volatile Halogenated Organics analysis.
Method: SW846 Method 8010A July 1992

Client Sample ID: 3590/MW-5

Spl#: 213616

Matrix: WATER

Sampled: November 3, 1998

Run#: 15926

Analyzed: November 9, 1998

| ANALYTE | RESULT (ug/L) | REPORTING LIMIT (ug/L) | BLANK RESULT (ug/L) | BLANK DILUTION SPIKE FACTOR (%) | |
|--|------------------|------------------------------|---------------------------|---------------------------------------|---|
| VINYL CHLORIDE | N.D. | 0.50 | N.D. | -- | 1 |
| CHLOROETHANE | N.D. | 0.50 | N.D. | -- | 1 |
| TRICHLOROFLUOROMETHANE | N.D. | 0.50 | N.D. | -- | 1 |
| 1,1-DICHLOROETHENE | 150 | 0.50 | N.D. | 80.0 | 1 |
| Note: VALUE IS TAKEN FROM GC/MS RUN EPA METHOD 8240A | | | | | |
| METHYLENE CHLORIDE | N.D. | 5.0 | N.D. | -- | 1 |
| TRANS-1,2-DICHLOROETHENE | N.D. | 0.50 | N.D. | -- | 1 |
| CIS-1,2-DICHLOROETHENE | N.D. | 0.50 | N.D. | -- | 1 |
| 1,1-DICHLOROETHANE | 15 | 0.50 | N.D. | -- | 1 |
| CHLOROFORM | N.D. | 3.0 | N.D. | -- | 1 |
| 1,1,1-TRICHLOROETHANE | N.D. | 0.50 | N.D. | -- | 1 |
| CARBON TETRACHLORIDE | N.D. | 0.50 | N.D. | -- | 1 |
| 1,2-DICHLOROETHANE | N.D. | 0.50 | N.D. | -- | 1 |
| TRICHLOROETHENE | 5.3 | 0.50 | N.D. | 83.0 | 1 |
| 1,2-DICHLOROPROPANE | N.D. | 0.50 | N.D. | -- | 1 |
| BROMODICHLOROMETHANE | N.D. | 0.50 | N.D. | -- | 1 |
| 2-CHLOROETHYL VINYL ETHER | N.D. | 0.50 | N.D. | -- | 1 |
| TRANS-1,3-DICHLOROPROPENE | N.D. | 0.50 | N.D. | -- | 1 |
| CIS-1,3-DICHLOROPROPENE | N.D. | 0.50 | N.D. | -- | 1 |
| 1,1,2-TRICHLOROETHANE | N.D. | 0.50 | N.D. | -- | 1 |
| TETRACHLOROETHENE | N.D. | 0.50 | N.D. | -- | 1 |
| DIBROMOCHLOROMETHANE | N.D. | 0.50 | N.D. | -- | 1 |
| CHLOROENZENE | N.D. | 0.50 | N.D. | 69.0 | 1 |
| BROMOFORM | N.D. | 2.0 | N.D. | -- | 1 |
| 1,1,2,2-TETRACHLOROETHANE | N.D. | 0.50 | N.D. | -- | 1 |
| 1,3-DICHLOROBENZENE | N.D. | 0.50 | N.D. | -- | 1 |
| 1,4-DICHLOROBENZENE | N.D. | 0.50 | N.D. | -- | 1 |
| 1,2-DICHLOROBENZENE | N.D. | 0.50 | N.D. | -- | 1 |
| TRICHLOROTRIFLUOROETHANE | N.D. | 2.0 | 9.80 | -- | 1 |
| CHLOROMETHANE | N.D. | 1.0 | N.D. | -- | 1 |
| BROMOMETHANE | N.D. | 1.0 | N.D. | -- | 1 |

Oleg Nemtsov
Analyst

Michael Verona
Operations Manager

9811045/213612-213616

42930

| H ₂ OGEOL A GROUNDWAT P.O. BOX 2165 LIVERMORE, CALIFORNIA 9455 | | SURR #: 9311845 REP: GC CLIENT: H2OGEOL DUE: 11/10/98 REF #12300 | CUSTODY PAGE 1 of 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|------------|--|------------------------|---------|---------|-----------|----------|-------|-------|--|-----------|----------|-------|-------|--|-----------|----------|-------|-------|--|-----------|----------|-------|-------|--|-----------|----------|-------|-------|--|---|--|---|--|--|--|--|--|---|--|--|--|---|--|---|--|--|--|---|--|---|--|--|--|---|--|---|--|--|--|---|--|---|--|--|--|---|
| SAMPLER(S): Gary D. Lowe | | ANALYTE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SAMPLER'S SIGNATURE: <i>[Signature]</i> | | SAMPLE RECEIPT TOTAL NO. CONTAINERS: 10 CHAIN OF CUSTODY SEALS: Y RECD GOOD CONDITION/COLD: Y CONFORMS TO RECORD: Y LAB NO: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FAX RESULTS TO (510) 373-8222 | | Halogenated Halocarbon Compounds EPA 8010 NUMBER OF CONTAINERS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>SAMPLE ID.</th> <th>DATE</th> <th>TIME</th> <th>MATRIX</th> <th>LAB ID.</th> </tr> </thead> <tbody> <tr><td>3590/MW-1</td><td>11/03/98</td><td>09:10</td><td>WATER</td><td></td></tr> <tr><td>3590/MW-2</td><td>11/03/98</td><td>09:58</td><td>WATER</td><td></td></tr> <tr><td>3590/MW-3</td><td>11/03/98</td><td>08:41</td><td>WATER</td><td></td></tr> <tr><td>3590/MW-4</td><td>11/03/98</td><td>08:31</td><td>WATER</td><td></td></tr> <tr><td>3590/MW-5</td><td>11/03/98</td><td>04:22</td><td>WATER</td><td></td></tr> </tbody> </table> | SAMPLE ID. | DATE | TIME | MATRIX | LAB ID. | 3590/MW-1 | 11/03/98 | 09:10 | WATER | | 3590/MW-2 | 11/03/98 | 09:58 | WATER | | 3590/MW-3 | 11/03/98 | 08:41 | WATER | | 3590/MW-4 | 11/03/98 | 08:31 | WATER | | 3590/MW-5 | 11/03/98 | 04:22 | WATER | | <table border="1"> <thead> <tr> <th></th> <th>X</th> <th></th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr><td></td><td>X</td><td></td><td></td><td></td><td>2</td></tr> <tr><td></td><td>X</td><td></td><td></td><td></td><td>2</td></tr> <tr><td></td><td>X</td><td></td><td></td><td></td><td>2</td></tr> <tr><td></td><td>X</td><td></td><td></td><td></td><td>2</td></tr> <tr><td></td><td>X</td><td></td><td></td><td></td><td>2</td></tr> </tbody> </table> | | X | | | | | | X | | | | 2 | | X | | | | 2 | | X | | | | 2 | | X | | | | 2 | | X | | | | 2 |
| SAMPLE ID. | DATE | TIME | MATRIX | LAB ID. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3590/MW-1 | 11/03/98 | 09:10 | WATER | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3590/MW-2 | 11/03/98 | 09:58 | WATER | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3590/MW-3 | 11/03/98 | 08:41 | WATER | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3590/MW-4 | 11/03/98 | 08:31 | WATER | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3590/MW-5 | 11/03/98 | 04:22 | WATER | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | X | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | X | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | X | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | X | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | X | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RELINQUISHED BY: <i>[Signature]</i> SIGNATURE: Gary D. Lowe PRINTED NAME: Gary D. Lowe COMPANY: H ₂ OGEOL | | RELINQUISHED BY: SIGNATURE: PRINTED NAME: COMPANY: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RECEIVED BY: <i>[Signature]</i> SIGNATURE: C. Cassidy PRINTED NAME: C. Cassidy COMPANY: Chromalab, Inc. | | RECEIVED BY LABORATORY: SIGNATURE: PRINTED NAME: COMPANY: Chromalab, Inc. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NOTE 10 DAY TURNAROUND | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |