

**C O V E R**

**FAX**

**S H E E T**

**To:** Scott Seery  
**Fax #:** 510/337-9335  
**Subject:** Data Submittal for 5054 Havens Place, Dublin  
**Date:** November 5, 1998  
**Pages:** 7, including this cover page

Have a nice day Scott!

From the desk of .

**Mark Becker**  
SECOR International Incorporated  
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Mountain View, CA 94043

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Via Facsimile and U.S. Mail

November 5, 1998

Mr. Scott Seery  
Alameda County Health Care Services Agency  
1131 Harbor Bay Parkway, Suite 250  
Alameda, California 94502-6577

**TRANSMITTAL OF ANALYTICAL RESULTS FROM THE LIMITED SOIL AND GROUNDWATER INVESTIGATION ASSOCIATED WITH A LEAKING UNDERGROUND STORAGE TANK LOCATED AT 5054 HAVENS PLACE, DUBLIN, CALIFORNIA**

Dear Mr. Seery:

SECOR International Incorporated (SECOR) is pleased to submit this letter on behalf of Archstone Communities (Archstone) presenting the results of the limited soil and groundwater investigation (LSI) associated with a leaking underground storage tank (LUST) recently discovered at 5054 Havens Place, in Dublin, California (the subject property). This letter is being presented as a preliminary data transmittal to gain your concurrence that no further subsurface investigation is necessary at the subject property and that Archstone may continue with site development work. A formal closure report will be submitted at a later date. The LSI was conducted pursuant to your October 27, 1998 oral concurrence with the SECOR workplan dated October 26, 1998, as amended based on discussions with you in the field (specifically, elimination of boring location B4 in lieu of moving boring B5 closer to the excavation limit).

The laboratory analytical results for the soil and groundwater samples collected are summarized in the attached tables (Tables 1 and 2) and illustrated in Figure 2. Review of the soil analytical results indicates that only low residual concentrations of diesel-range petroleum hydrocarbons (TPH-d) were detected, ranging between less than 50 milligrams per kilogram (mg/kg) and 130 mg/kg. Of the constituents analyzed in groundwater, TPH-d, TPH-g, benzene, ethylbenzene, and total xylenes were variously detected in the samples. TPH-d was detected in samples B-3 and B-8 at 58,000 and 1,400 micrograms per liter ( $\mu\text{g/L}$ ). While TPH-g was detected in samples B-1, B-2, B-3, and B-8 at concentrations ranging from 3,300 to 7,700  $\mu\text{g/L}$ , the laboratory report qualified the chromatographic pattern as a heavier hydrocarbon such as diesel. No primary drinking water standard maximum contaminant level (MCL) under the California Department of Toxic Substances Control currently exists for either TPH-g or TPH-d in groundwater.

Benzene, ethylbenzene, and total xylene were detected in one or more groundwater samples: B-2 and B-8 (benzene), B-8 (ethylbenzene), and B-1 through B-8 (total xylene). None of these analytes occurred above their respective MCL's. In addition, neither MTBE or dissolved lead were not detected at or above the laboratory method reporting limit.

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With regards to the hydraulic regime at the site, groundwater flow direction in the vicinity of the UST excavation trends to the south-southeast at a shallow gradient. Groundwater was encountered at a depth of approximately 17 feet below ground surface during the subsurface investigation.

Based on the LSI soil sample results, the UST removal remedial excavation work completed by Archstone appears to have removed the majority of the source of petroleum hydrocarbons to groundwater (i.e., the UST and impacted soil). Despite the occurrence of TPH-d and TPH-g in groundwater at up gradient and down gradient locations with respect to the former UST excavation, no other analytes were detected at levels above the respective MCL's. As such, on behalf of Archstone, SECOR respectfully requests that you review the attached laboratory analytical results in consideration of site closure and granting a continuance to proceed with site development activities.

Feel free to contact Howe Gates at (503) 691-2030 or Mark Becker at (650) 691- 0131, extension 31 to discuss these findings.

Sincerely,

**SECOR International Incorporated**



Mark Becker  
Senior Scientist



Seth Stiles, R.G.  
Project Geologist

Attachments

cc: Michael Berman, Archstone  
Howe Gates, SECOR

**Table 1**  
**Summary of Groundwater Analytical Results**  
**for Samples Collected at 5054 Havens Place**  
**in Dublin, California**

Sample ID	Sample Date	Analytical Results ( $\mu\text{g/L}$ ) <sup>a</sup>							
		TPH-a <sup>b</sup>	TPH-g <sup>c</sup>	MTBE <sup>d</sup>	Dissolved Lead <sup>e</sup>	BTEX <sup>f</sup>	Toluene <sup>g</sup>	Ethylbenzene <sup>g</sup>	Xylene <sup>g</sup>
B-1	10-30-98	no sample	7,700 <sup>h</sup>	<100	<0.015	<10	<10	<10	52
B-2	10-30-98	no sample	3,300 <sup>h</sup>	<5.0	no sample	0.56	<0.50	<0.50	3
B-3	10-28-98	58,000 <sup>h</sup>	7,500 <sup>h</sup>	<5.0	<0.015	<0.50	<0.50	<0.50	2.2
B-5	10-28-98	<50	<50	<5.0	<0.015	<0.50	<0.50	<0.50	1.1
B-6	10-28-30-98	<50	<50	<5.0	<0.015	<0.50	<0.50	<0.54	4.3
B-7	10-28-98	<50	<50	<5.0	<0.015	<0.50	<0.50	<0.50	1.1
B-8	10-28-98	1,400	4,100 <sup>h</sup>	<5.0	<0.015	0.92	<0.50	0.90	32
MCL <sup>g</sup>		NE <sup>h</sup>	NE	35 <sup>i</sup>	50	1	150	680	1750

- a Laboratory analytical results, reported as micrograms per liter ( $\mu\text{g/L}$ ).
- b Total diesel-range petroleum hydrocarbons, by EPA Method 8015 Modified
- c Total gasoline-range petroleum hydrocarbons, by EPA Method 8015 Modified
- d Methyl tertiary butyl ether, by EPA Method 8020
- e Dissolved lead (i.e., sample was filtered by the laboratory and the filtrate analyzed), by EPA Method 6010
- f BTEX (benzene, toluene, ethylbenzene and xylene), by EPA Method 8020
- g California Department of Toxic Substances Control (DTSC) Primary Drinking Water Standard Maximum Contaminant Level
- h NE = Not established
- i This value is an interim Action Level established by the DTSC
- x Results within quantitation range; chromatographic pattern not typical of fuel

**Table 2**  
**Summary of Soil Analytical Results**  
**for Samples Collected at 5054 Havens Place**  
**in Dublin, California**

Sample ID	Sample Date	Sample Depth (feet)	TRH-d <sup>a</sup> (mg/kg) <sup>b</sup>
B1-16	10-28-98	16	120
B2-13	10-28-98	13	56
B3-10	10-28-98	10	120
B5-16	10-28-98	16	130
B6-7	10-28-98	7	<1.0
B6-17	10-28-98	16	<1.0
B7-13	10-28-98	13	<1.0
B8-13	10-28-98	13	100

a Total diesel-range petroleum hydrocarbons, by EPA Method 8015 Modified  
b Laboratory analytical results, reported as milligrams per kilogram (mg/kg).

← BUILDING PAD LIMIT

DEPTH	13'	WATER
TPHd	100	1400
TPHg	---	4100
B	---	0.92
E	---	0.90
X	---	32

DEPTH	13'	WATER
X	---	1.2



X B6

X B7

DEPTH	10'	WATER
TPHd	120	58000
TPHg	---	7500
X	---	2.2

X B3

X B2

DEPTH	13'	WATER
TPHd	56	---
TPHg	---	3300
B	---	0.56
X	---	3

APPROXIMATE EXTENT OF EXCAVATION

DEPTH	7'	17'	WATER
X	---	---	4.3

X B6

E 0.54

*Handwritten notes:*  
NO TPH-GH  
BTEX FOR  
H2O

DEPTH	18'	WATER
TPHd	130	<50
X	---	1.1

X B5

X B1

DEPTH	13'	WATER
TPHd	120	---
TPHg	---	7700
X	---	32

CHAIN LINK FENCE

HYDROCARBON DATA		
DEPTH	13'	WATER
TPHd	100	120.5
TPHg	---	NA
B	---	---
E	---	---
X	---	---

• TPHd = DIESEL RANGE HYDROCARBONS  
 • TPHg = GASOLINE RANGE HYDROCARBONS  
 • B = BENZENE  
 • E = ETHYLBENZENE  
 • X = XYLENE  
 • NA = NOT ANALYZED  
 • --- = DATA NOT COLLECTED

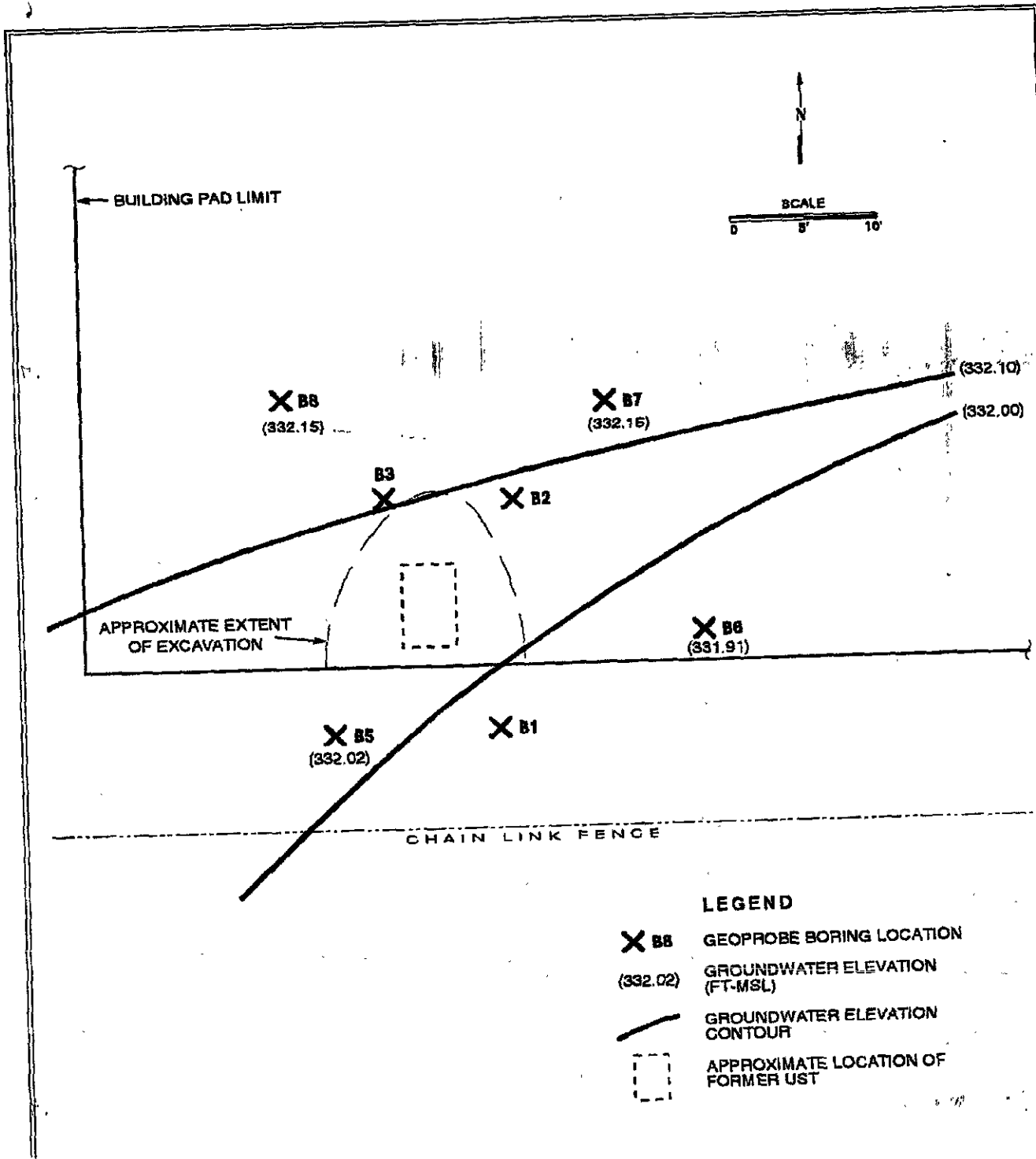
SOIL RESULTS IN mg/kg. WATER RESULTS IN µg/L

LEGEND

X B6 GEOPROBE BORING LOCATION

--- APPROXIMATE LOCATION OF FORMER UST

DRAFTED BY: PEM	CHECKED BY: MB	PROJECT NUMBER: F0803-041-01	FIGURE NUMBER: 2	<p><b>SECOR</b> 1225 Pear Avenue Suite 110 Mountain View, CA 94043</p>
DWG DATE: 11/3/98	REV DATE:	CLIENT: ARCHSTONE COMMUNITIES	TITLE: SITE PLAN WITH COMPOUNDS DETECTED IN SOIL AND GROUNDWATER SAMPLES 5054 HAVENS PLACE DUBLIN, CA	
FILE NAME: ScrARC5054DubInSt2				



- LEGEND**
- X B8 GEOPROBE BORING LOCATION
  - (332.02) GROUNDWATER ELEVATION (FT-MSL)
  - GROUNDWATER ELEVATION CONTOUR
  - - - - - APPROXIMATE LOCATION OF FORMER UST

DRAFTED BY: PEM	CHECKED BY: MB	PROJECT NUMBER: F0803-041-01	FIGURE NUMBER 3	<b>SECOR</b> 1225 Pear Avenue Suite 110 Mountain View, CA 94043
DWG DATE: 11/3/98	REV DATE:	CLIENT: ARCHSTONE COMMUNITIES	TITLE: GROUNDWATER ELEVATION CONTOUR MAP 5054 HAVENS PLACE DUBLIN, CA	
FILE NAME: ScrARCS054DublnSt3				