Dublin Rock & Ready Mix 6365 Scarlett Court Dublin, CA 94568

ATTN: Michael Dolan

Site: Dublin Rock & Ready Mix 6393 Scarlett Court Dublin, California

Date: February 12, 1996



GROUNDWATER SAMPLING REPORT 960212-V-1

Blaine Tech Services, Inc. performs specialized environmental sampling and documentation as an independent third party. In order to avoid compromising the objectivity necessary for the proper and disinterested performance of this work, Blaine Tech Services, Inc. does not participate in the interpretation of analytical results, or become involved with the marketing or installation of remedial systems.

This report deals with the groundwater well sampling performed by our firm in response to your request. Data collected in the course of our work at the site are presented in the TABLE OF WELL MONITORING DATA. This information was collected during our inspection, well evacuation and sample collection. Measurements include the total depth of the well and the depth to water. Water surfaces were further inspected for the presence of immiscibles. A series of electrical conductivity, pH, and temperature readings were obtained during well evacuation and at the time of sample collection.

Blaine Tech Services, Inc. Report No. 960212-V-1

(408) 995.5535 x 214

Dublin Rock & Ready Mix

Page 1

STANDARD PRACTICES

Evacuation and Sampling Equipment

As shown in the TABLE OF WELL MONITORING DATA, the wells at this site were evacuated according to a protocol requirement for the removal of three case volumes of water before sampling. The wells were evacuated using bailers.

Samples were collected using bailers.

Bailers: A bailer, in its simplest form, is a hollow tube which has been fitted with a check valve at the lower end. The device can be lowered into a well by means of a cord. When the bailer enters the water, the check valve opens and liquid flows into the interior of the bailer. The bottom check valve prevents water from escaping when the bailer is drawn up and out of the well.

Two types of bailers are used in groundwater wells at sites where fuel hydrocarbons are of concern. The first type of bailer is made of a clear material such as acrylic plastic and is used to obtain a sample of the surface and the near surface liquids, in order to detect the presence of visible or measurable fuel hydrocarbon floating on the surface. The second type of bailer is made of Teflon or stainless steel, and is used as an evacuation and/or sampling device.

Bailers are inexpensive and relatively easy to clean. Because they are manually operated, variations in operator technique may have a greater influence than would be found with more automated sampling equipment. Also, where fuel hydrocarbons are involved, the bailer may include near surface contaminants that are not representative of water deeper in the well.

Decontamination

All apparatus is brought to the site in clean and serviceable condition. The equipment is decontaminated after each use and before leaving the site.

Effluent Materials

The evacuation process creates a volume of effluent water which must be contained. Blaine Tech Services, Inc. will place this water in appropriate containers of the client's choice or bring new 55 gallon DOT 17 E drums to the site, which are appropriate for the containment of the effluent materials. The determination of how to properly dispose of the effluent water must usually await the results of laboratory analyses of the sample collected from the groundwater well. If that sample does not establish whether or not the effluent water is contaminated, or if

effluent from more than one source has been combined in the same container, it may be necessary to conduct additional analyses on the effluent material.

Sampling Methodology

Samples were obtained by standardized sampling procedures that follow an evacuation and sample collection protocol. The sampling methodology conforms to both State and Regional Water Quality Control Board standards and specifically adheres to EPA requirements for apparatus, sample containers and sample handling as specified in publication SW 846 and T.E.G.D. which is published separately.

Sample Containers

Sample containers are supplied by the laboratory performing the analyses.

Sample Handling Procedures

Following collection, samples are promptly placed in an ice chest containing deionized ice or an inert ice substitute such as Blue Ice or Super Ice. The samples are maintained in either an ice chest or a refrigerator until delivered into the custody of the laboratory.

Sample Designations

All sample containers are identified with both a sampling event number and a discrete sample identification number. Please note that the sampling event number is the number that appears on our chain of custody. It is roughly equivalent to a job number, but applies only to work done on a particular day of the year rather than spanning several days, as jobs and projects often do.

Chain of Custody

Samples are continuously maintained in an appropriate cooled container while in our custody and until delivered to the laboratory under our standard chain of custody. If the samples are taken charge of by a different party (such as another person from our office, a courier, etc.) prior to being delivered to the laboratory, appropriate release and acceptance records are made on the chain of custody (time, date and signature of person accepting custody of the samples).

Hazardous Materials Testing Laboratory

The samples obtained at this site were delivered to American Environmental Network in Pleasant Hill, California. AEN is certified by the California Department of Health Services as a Hazardous Materials Testing Laboratory, and is listed as DOHS HMTL #1172.

Personnel

All Blaine Tech Services, Inc. personnel receive 29 CFR 1910.120(e)(2) training as soon after being hired as is practical. In addition, many of our personnel have additional certifications that include specialized training in level B supplied air apparatus and the supervision of employees working on hazardous materials sites. Employees are not sent to a site unless we are confident they can adhere to any site safety provisions in force at the site and unless we know that they can follow the written provisions of an SSP and the verbal directions of an SSO.

In general, employees sent to a site to perform groundwater well sampling will assume an OSHA level D (wet) environment exists unless otherwise informed. The use of gloves and double glove protocols protects both our employees and the integrity of the samples being collected. Additional protective gear and procedures for higher OSHA levels of protection are available.

Please call if we can be of any further assistance.

Richard C. Blaine

RCB/lp

attachments: table of well monitoring data

chain of custody

certified analytical report

American Environmental Network

Certificate of Analysis

DOHS Certification: 1172

AIHA Accreditation: 11134

PAGE 1

BLAINE TECH SERVICES 985 TIMOTHY DRIVE SAN JOSE. CA 95133

ATTN: KENT BROWN

CLIENT PROJ. ID: DUBLIN ROCK

C.O.C. NUMBER: 960212-V-1

REPORT DATE: 02/29/96

DATE(S) SAMPLED: 02/12/96

DATE RECEIVED: 02/14/96

AEN WORK ORDER: 9602224

PROJECT SUMMARY:

On February 14, 1996, this laboratory received 7 water sample(s).

Client requested sample(s) be analyzed for organic parameters. Results of analysis are summarized on the following page(s). Please see quality control report for a summary of QC data pertaining to this project.

Samples will be stored for 30 days after completion of analysis, then disposed of in accordance with State and Federal regulations. Samples may be archived by prior arrangement.

If you have any questions, please contact Client Services at (510) 930-9090.

Larry Klein

Laboratory Director

BLAINE TECH SERVICES

SAMPLE ID: MW-1

AEN LAB NO: 9602224-01 AEN WORK ORDER: 9602224 CLIENT PROJ. ID: DUBLIN ROCK

DATE SAMPLED: 02/12/96 DATE RECEIVED: 02/14/96

REPORT DATE: 02/29/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs Benzene Toluene Ethylbenzene Xylenes, Total Purgeable HCs as Gasoline	EPA 8020 71-43-2 108-88-3 100-41-4 1330-20-7 5030/GCFID	ND ND ND ND ND	0.5 u 0.5 u 0.5 u 2 u 0.05 m	g/L g/L	02/20/96 02/20/96 02/20/96 02/20/96 02/20/96

BLAINE TECH SERVICES

SAMPLE ID: MW-2 AEN LAB NO: 9602224-02 AEN WORK ORDER: 9602224

CLIENT PROJ. ID: DUBLIN ROCK

DATE SAMPLED: 02/12/96 DATE RECEIVED: 02/14/96 REPORT DATE: 02/29/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs Benzene	EPA 8020 71-43-2	15.000 *	50	ug/L	02/21/96
Toluene Ethylbenzene	108-88-3 100-41-4	8,100 * 4,200 *	50	ug/L ug/L	02/21/96 02/21/96
Xylenes, Total Purgeable HCs as Gasoline	1330-20-7 5030/GCFID	18,000 * 78 *	200		02/21/96 02/21/96

Reporting limits elevated due to high levels of target compounds. Sample run at dilution.

BLAINE TECH SERVICES

SAMPLE ID: MW-3 AEN LAB NO: 9602224-03 AEN WORK ORDER: 9602224 CLIENT PROJ. ID: DUBLIN ROCK

DATE SAMPLED: 02/12/96 DATE RECEIVED: 02/14/96

REPORT DATE: 02/29/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs Benzene Toluene Ethylbenzene Xylenes, Total Purgeable HCs as Gasoline	EPA 8020 71-43-2 108-88-3 100-41-4 1330-20-7 5030/GCFID	ND ND ND ND ND	0.5 i 0.5 i 0.5 i 2 i 0.05 m	ıg/L ıg/L ıg/L	02/20/96 02/20/96 02/20/96 02/20/96 02/20/96

BLAINE TECH SERVICES

SAMPLE ID: MW-4 AEN LAB NO: 9602224-04 AEN WORK ORDER: 9602224 CLIENT PROJ. ID: DUBLIN ROCK

DATE SAMPLED: 02/12/96

DATE RECEIVED: 02/14/96 REPORT DATE: 02/29/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs Benzene Toluene Ethylbenzene Xylenes, Total Purgeable HCs as Gasoline	EPA 8020 71-43-2 108-88-3 100-41-4 1330-20-7 5030/GCFID	130 * ND 120 * 51 * 1.5 *	0.5 (0.5 (0.5 (2 (0.05 (ug/L ug/L ug/L	02/26/96 02/26/96 02/26/96 02/26/96 02/26/96

BLAINE TECH SERVICES

SAMPLE ID: MW-5 AEN LAB NO: 9602224-05 AEN WORK ORDER: 9602224 CLIENT PROJ. ID: DUBLIN ROCK

DATE SAMPLED: 02/12/96 DATE RECEIVED: 02/14/96

REPORT DATE: 02/29/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs Benzene Toluene Ethylbenzene Xylenes, Total	EPA 8020 71-43-2 108-88-3 100-41-4 1330-20-7	ND ND ND ND	0.5 น 0.5 น 0.5 น 2 น	g/L g/L	02/21/96 02/21/96 02/21/96 02/21/96 02/21/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

BLAINE TECH SERVICES

SAMPLE ID: MW-6 AEN LAB NO: 9602224-06 AEN WORK ORDER: 9602224 CLIENT PROJ. ID: DUBLIN ROCK

DATE SAMPLED: 02/12/96

DATE RECEIVED: 02/14/96 REPORT DATE: 02/29/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE Analyzed
BTEX & Gasoline HCs Benzene Toluene Ethylbenzene Xylenes, Total Purgeable HCs as Gasoline	EPA 8020 71-43-2 108-88-3 100-41-4 1330-20-7 5030/GCFID	ND ND ND ND ND	0.5 u 0.5 u 0.5 u 2 u 0.05 m	g/L g/L g/L	02/21/96 02/21/96 02/21/96 02/21/96 02/21/96

BLAINE TECH SERVICES

SAMPLE ID: TRIP AEN LAB NO: 9602224-07 AEN WORK ORDER: 9602224 CLIENT PROJ. ID: DUBLIN ROCK

DATE SAMPLED: 02/12/96 DATE RECEIVED: 02/14/96

REPORT DATE: 02/29/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs Benzene Toluene Ethylbenzene Xylenes, Total Purgeable HCs as Gasoline	EPA 8020 71-43-2 108-88-3 100-41-4 1330-20-7 5030/GCFID	ND ND ND ND ND	0.5 0.5 0.5 2 0.05	ug/L ug/L ug/L	02/21/96 02/21/96 02/21/96 02/21/96 02/21/96

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

AEN (CALIFORNIA) QUALITY CONTROL REPORT

AEN JOB NUMBER: 9602224

CLIENT PROJECT ID: 960212-V-1

Quality Control and Project Summary

All laboratory quality control parameters were found to be within established limits.

<u>**Definitions**</u>

Laboratory Control Sample (LCS)/Method Spike(s): Control samples of known composition. LCS and Method Spike data are used to validate batch analytical results.

Matrix Spike(s): Aliquot of a sample (aqueous or solid) with added quantities of specific compounds and subjected to the entire analytical procedure. Matrix spike and matrix spike duplicate QC data are advisory.

Method Blank: An analytical control consisting of all reagents, internal standards, and surrogate standards carried through the entire analytical process. Used to monitor laboratory background and reagent contamination.

Not Detected (ND): Not detected at or above the reporting limit.

Relative Percent Difference (RPD): An indication of method precision based on duplicate analysis.

Reporting Limit (RL): The lowest concentration routinely determined during laboratory operations. The RL is generally 1 to 10 times the Method Detection Limit (MDL). Reporting limits are matrix, method, and analyte dependent and take into account any dilutions performed as part of the analysis.

Surrogates: Organic compounds which are similar to analytes of interest in chemical behavior, but are not found in environmental samples. Surrogates are added to all blanks, calibration and check standards, samples, and spiked samples. Surrogate recovery is monitored as an indication of acceptable sample preparation and instrumental performance.

- D: Surrogates diluted out.
- #: Indicates result outside of established laboratory QC limits.

QUALITY CONTROL DATA

METHOD: EPA 8020, 5030 GCFID

AEN JOB NO: 9602224 INSTRUMENT: F, H MATRIX: WATER

Surrogate Standard Recovery Summary

Date			Percent Recovery
Analyzed	Client Id.	Lab Id.	Fluorobenzene
02/20/96 02/21/96 02/20/96 02/26/96 02/21/96 02/21/96 02/21/96	MW-1 MW-2 MW-3 MW-4 MW-5 MW-6 TRIP	01 02 03 04 05 06 07	99 101 97 103 97 97 97
QC Limits:			70-130

DATE ANALYZED: 02/21/96 SAMPLE SPIKED: 9602227-04 INSTRUMENT: H

Matrix Spike Recovery Summary

				QC Limi	ts
Analyte	Spike Added (ug/L)	Average Percent Recovery	RPD	Percent Recovery	RPD
Benzene Toluene	49.0 155	94 95	16 7	85-109 87-111	17 16
Hydrocarbons as Gasoline	1000	107	12	66-117	19

Daily method blanks for all associated analytical runs showed no contamination at or above the reporting limit.

TABLE OF WELL MONITORING DATA

Well I.D.	MW-1			M₩-2			MW~3			
Date Sampled	02/12/96			02/12/9	02/12/96			02/12/96		
Well Diameter (in.)	2			2	2			2		
Total Well Depth (ft.)	19.28			19.82			18.57			
Depth To Water (ft.)	1.95			2.60			2.45			
Free Product (in.)	NONE			NONE			NONE			
Reason If Not Sampled										
1 Case Volume (gal.)	2.77			2.75			2.53			
Did Well Dewater?	NO			NO				NO		
Gallons Actually Evacuated	9.0			8.5			8.0			
Purging Device	BAILER			BAILER			BAILER			
Sampling Device	BAILER			BAILER			BAILER			
Time	10:45	10:49	10:53	12:45	12:49	12:53	10:00	10:04	10:08	
Temperature (Fahrenheit)	64.8	65.0	65.0	65.8	64.2	64.2	66.4	66.6	66.6	
рН	7.2	7.0	7.0	7.8	6.8	6.8	7.0	7.2	7.2	
Conductivity (micromhos/cm)	3600	3400	3400	2400	2400	2400	3400	3400	3400	
Nephelometric Turbidity Units	>200	>200	>200	>200	>200	>200	>200	>200	>200	
BTS Chain of Custody	960212-	V-1		960212-	V-1		960212-	·V-1		
BTS Sample I.D.	MW-1			MW-2			MW-3			
DOHS HMTL Laboratory	AEN			AEN				AEN		
Analysis	TPH (GA	S), BTEX		TPH (GA	TPH (GAS), BTEX			TPH (GAS), BTEX		

,			
SUMMARY C	F CAR RESULTS	in parts per billion unles	s otherwise noted
Bollo mant to			
DOHS HMTL Laboratory	AEN	AEN	AEN
Laboratory Sample I.D.	9602224-01	9602224-02	9602224-03
TPH Gasoline	ND	78,000	ND
Benzene	ND	15,000	ND
Toluene	ND	8,100	ND
Ethyl Benzene	ND	4,200	ND
Xylene Isomers	ND	18,000	ND

In the interest of clarity, an addendum has been added to the TABLE which lists analytical results in such a way that our field observations are presented together with the analytical results. This addendum is entitled a SUMMARY OF CAR RESULTS. As indicated by the title, the source documents for these numbers are the laboratory's certified analytical reports. These certified analytical reports (CARs) are generated by the laboratory as the sole official documents in which they issue their findings. Any discrepancy between the CAR and a tabular or text presentation of analytical values must be decided in favor of the CAR on the grounds that the CAR is the authoritative legal document.

TABLE OF WELL MONITORING DATA

Well I.D.	MW-4			MW-5			MW-6			
Date Sampled	02/12/9	6		02/12/9	02/12/96			02/12/96		
Mall Diameter (de)				_						
Well Diameter (in.)	2			2			2			
Total Well Depth (ft.)	18.85			9.92			9.85			
Depth To Water (ft.)	2.80			2.78			4.50			
Free Product (in.)	NONE			NONE			NONE			
Reason If Not Sampled										
1 Case Volume (gal.)	2.56			4 4 4						
Did Well Dewater?				- "	1.14			0.85		
• • • • • • • • • • • • • • • • • • • •	NO				NO			NO		
Gallons Actually Evacuated	8.0			4.0			3.0			
Purging Device	BAILER			BAILER			BAILER			
Sampling Device	BAILER			BAILER			BAILER			
Time										
Temperature (Fahrenheit)	12:20	12:24	12:28	11:15	11:19	11:23	11:50	11:53	11:56	
рН	64.0	64.6	64.6	62.4	63.2	63.2	60.2	60.2	60.2	
Conductivity (micromhos/cm)	7.6	6.8	6.8	7.4	7.0	7.0	7.8	7.8	7.8	
Nephelometric Turbidity Units	2600	2800	2800	4800	5000	5000	3100	3000	3000	
	>200	>200	>200	>200	>200	>200	>200	>200	>200	
BTS Chain of Custody		- 200	. 200	7200	7200	, 200	7200	7200	>200	
BTS Sample I.D.	960212-	·V-1		960212-	-V-1		960212-	-V-1		
DOHS HMTL Laboratory	MW-4			MW-5			MW-6			
Analysis	AEN			AEN			AEN			
	TPH (GA	S), BTEX			S), BTEX			s), BTEX		

SUMMARY	OF CAR RESUL	T S in parts per billion	unless otherwise noted
DOHS HMTL Laboratory	AEN	AEN	AEN
Laboratory Sample I.D.	9602224-04	9602224-05	9602224-06
TPH Gasoline	1,500	ИО	ND
Benzene	130	ND	ND
Toluene	ND	ND	ND
Ethyl Benzene	120	ND	ND
Xylene Isomers	51	ND	ND