Remedial Investigation/ Feasibility Study Report

The Shops at First Street Project Site Bellevue, Washington

Volume 2 of 2

Benenson Bellevue II, L.P.

K/J 946059.00
November 1994 (Revised July 1997)
Kennedy/Jenks Consultants

Appendix A

EMR Phase I Environmental Site Assessment Report

PHASE I ENVIRONMENTAL SITE ASSESSMENT

Benenson Bellevue Associates II Property The Shops at First Street Property 100/110 108th Avenue NE and 10812 Main Street Bellevue, Washington 98004

Project Number 1153

April 12, 1994





ENVIRONMENTAL MANAGEMENT RESOURCES

PHASE I ENVIRONMENTAL SITE ASSESSMENT

Benenson Bellevue Associates II Property
The Shops at First Street Project
100/110 108th Avenue NE and 10812 Main Street
Bellevue, Washington 98004

Project Number 1153

Prepared for:

Benenson Bellevue Associates II c/o The Benenson Capital Company 708 Third Avenue New York, New York 10017

Prepared by:

Environmental Management Resources, Inc. 2509 152nd Avenue NE, Suite B Redmond, Washington

> David L. Welch Project Manager

COP

April 12, 1994

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1.0 INTRODUCTION

This Phase I Environmental Site Assessment was prepared by Environmental Management Resources, Inc. ("EMR") on behalf of the owners, Benenson Bellevue Associates II, a limited partnership of The Benenson Capital Company of New York, New York. The name assigned to this site by EMR is Benenson Bellevue/Phase I. The addresses of the site are 100/110 108th Avenue Northeast and 10812 Main Street. The tenant utilizing 100 108th Avenue Northeast at the present time is Office Depot, a retail business supplies store. The portion of the property located at 110 108th Avenue Northeast is a former laundromat/dry cleaning facility, is currently vacant, and is undergoing renovation. The portion of the property located at 10812 Main Street is a former Chevron service station and is currently a vacant, asphalt-surfaced lot. EMR is the chosen environmental consultant to conduct the Phase I Investigation. Key Bank of Washington is the lender.

1.1 Purpose

The purpose of this investigation is to conduct a Phase I Environmental Site Assessment on behalf of the owners of the property, Benenson Bellevue Associates II. The lender for the owners is Key Bank of Washington, which requires Phase I Environmental Assessments prior to a property transfer or refinancing. The contents of this report follows the May, 1993 revised version of the ASTM guidance on "Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process" from the Bureau of National Affairs Environmental Due Diligence Guide (App 501.2001). The report format guidelines are specified by Key Bank of Washington.

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1.2 Sources of Information

1.2.1 Published Sources of Information

Environmental Data Resources, Inc. 3530 Post Road Southport, CT 06490

Bellevue South, WA USGS 7.5' Topographic-Bathymetric Quadrangle USGS 1983

Sanborn Map Company 629 Fifth Ave. Pelham, NY 10803

3

Ms. Sally Perkins WDOE-Northwest Regional Office File Records (Water Wells) (206) 649-7239

Transamerica Title Insurance Company 320 108th Avenue N.E. Bellevue, WA 98009

Prezant Associates, Inc.,
"Office Depot, 100 108th Avenue NE,
Asbestos Hazard and Risk Assessment"
August 11, 1993

City of Bellevue Historic Building Permits (206) 455-6875

EA Science and Engineering, "UST Assessment Report, Chevron Service Station No. 9-2581, 10812 Main Street", to Chevron USA, Inc., October 13, 1990

Dames & Moore, to the Koll Company, correspondence letters dated December 21, 1990 and February 22, 1991

EA Science and Engineering, to First Western Development, letter dated February 15, 1991

Washington Department of Ecology, to Chevron USA, Inc., letter dated December 28, 1990

Washington Department of Ecology, Notification of Dangerous Waste Activities, copies of 1a) first notification and 1c) withdraw site I.D.#, Bellevue Cleaning Village, received August 2, 1990 and June 28, 1993

Environmental Management Resources (EMR) Inc., "Asbestos Building Inspection SE Corner of 108th and Main Street Bellevue, Washington", to Turner Construction Company, January 12, 1994

Environmental Management Resources (EMR) Inc., "Additional Asbestos Building Inspection", to Turner Construction Company, March 11, 1994

Seattle-King County Department of Health, "Abandoned Landfill Study in King County" April 30, 1985

Richard W. Galster William T. Laprade "Geology of Seattle, Washington, United States of America", Bulletin of the Association of Engineering Geologists, Volume XXVIII, No. 3, 1991

University of Washington Suzzalo Library (206) 543-9392

Washington Department of Natural Resources Aerial Photographs, August 1981 (SP) and July 1970 (KP-70), 1:12,000 scale, black and white

RECEIVED

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DEPT. OF ECOLOGY

1.2.2 Record of Personal Communications

Ms. Jennifer Fier,
Director of Architecture and Construction,
Benenson Bellevue Associates II, a Limited
Partnership, c/o The Benenson Capital Company
708 Third Avenue
New York, New York 10017
(212) 867-0990

Mr. Brad Edwards Loan Processing Officer Key Bank of Washington (206) 689-5472

Ms. Marian Bruner, HQ Enforcement Coordinator WDOE Enforcement Olympia, WA (206) 407-6961

Mr. Larry Turner Puget Power (206) 746-5000

Ms. Stella Nehan
Puget Sound Air Pollution Control Agency
(PSAPCA)
(206) 343-8800 ext. 4011

Ms. Sally Perkins WDOE-Northwest Regional Office File Records (Water Wells) (206) 649-7239

Mr. Kavous Abbasian Bellevue Cleaning Village (former tenant) (206) 643-2897

Mr. Scott Holbrook Mr. Michael Raftery Turner Construction Company (206) 224-4343

Julia Kruger
City of Bellevue
Environment and Land Use, Zoning,
Wetlands/Sensitive Areas
(206) 455-6864

Ms. Helene Bryant City of Bellevue Public Works Department Storm and Surface Water Division (206) 637-7945

Captain Molton
Battalion Chief
City of Bellevue Fire Dept.
(206) 455-6892

Ms. Diane M. Istvan Foster Pepper & Shefelman, a Law Partnership (206) 447-4400

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2.0 SCOPE OF SERVICES

The scope of work for this investigation generally followed ASTM guidance for conducting Phase I Environmental Site Assessments, the Key Bank of Washington's reporting guidelines and EMR's past experience and expertise in performing such investigations. Authorization of services was provided by The Benenson Capital Company. The following assessment activities were performed:

- Exterior site reconnaissance to observe the subject property, adjacent properties, topography, drainage patterns, ground surface materials, presence of business-related detritus, underground or above-ground storage tanks, pole and/or pad-mounted transformers and sewer system;
- Interior site buildings reconnaissance including presence of suspected asbestos or lead containing material, man-made mineral fibers (fiberglass, mineral wools, slag wools, or refractory ceramic fibers), unusual odors, locations of ventilation systems, fluid-filled transformers/capacitors and fluorescent lighting fixtures for presence of potential PCBs and insectile or arachnoidal infestations;
- Researched geology and hydrogeology of the site;
- Acquired historical Chain-of-Title documents to determine chain of ownership over previous 50 years;
- Reviewed aerial photographs;
- Reviewed historical municipal building permits;
- Reviewed available historical Sanborn Fire Insurance Maps;
- Reviewed historical Polk Street directories;
- Reviewed previous assessment work conducted;
- Conducted a regulatory list search of federal and state databases for facilities listed within onehalf to one mile from the subject site;
- Conducted a telephone inquiry of federal, state, county and municipal agencies to determine existence of previous hazardous waste enforcements or public complaints, wetlands in close proximity, flood plains and air emissions violations;
- Compiled this report with recommendations.

3.0 DESCRIPTION OF SITE

The Benenson Bellevue Associates II site is located at 100/110 108th Avenue NE and 10812 Main Street, on the northeast corner of Main Street and 108th Avenue Northeast, in the City of Bellevue, King County, Washington (Exhibit A-Figure 1; Exhibit B-Photographs). The site is located in the SW 1/4 of the NE 1/4 of Section 32, Township 25 North, Range 5 East. It is zoned multi-unit commercial. The Benenson Bellevue Associates II site consists of an L-shaped parcel of land. The subject property area is approximately 152,000 square feet (legal description-Exhibit B). Though the legal description describes parcels "A", "B", "C", and "D", parcels "A" and "D" should be considered as the subject site for this investigation. The site is approximately 40 to 45 feet in elevation above mean sea level.

There is an L-shaped building and a rectangular building separated by a canopy area located on site. This series of structures was constructed in 1961. (Exhibit A-Figure 2; Exhibit B-Photographs). The L-shaped building houses the Office Depot business. The rectangular building to the west is vacant. This building formerly housed the Bellevue Cleaning Village business. A canopy area separates the two buildings. The south side of the L-shaped building formerly housed an art and frame shop but has now become a remodeled Office Depot expansion.

3.1 Topography

The site is located on the south edge of downtown Bellevue, approximately 1/2 mile east of Meydenbauer Bay, a fresh water inlet on the east side of Lake Washington. The area is generally along an axis of hills that trend north south, with the west sides sloping toward Meydenbauer Bay and the east sides sloping toward Interstate 5. These hills are part of the Interlake Drift Upland physiographic division of the Seattle area (Galster, Laprade, 1991).

The site gently slopes to the southwest. There are no topographic depressions at the site; water does not pond on the site. Drainage at the site crowns from the northern portion of the property southwest toward the 108th Avenue NE and Main Street intersection. There are nine (9) catch basins located in the western portion and off the western edge of the site (Exhibit A-Figure 2).

3.2 Adjacent Properties

The properties located adjacent to the site are described below, shown in Exhibit A-Figure 2 and presented in Exhibit B-Photographs. The eastern side of the site is bordered by TOYS-R-US, a retail toy store. To the north is Skipper's, a fast-food seafood restaurant. Across 108th Avenue NE to the west, listed north to south are: Pacific First Federal Building, Hairacy Hair Salon, a TV repair shop, a residence, a beauty salon, Tovo Health Center and Budget Rent-a-Car. To the south, is a church and across Main Street to the south, is Stewart Title Building.

3.3 Geology

The soil near ground surface at the site is composed of a very dense, brown to grayish-brown, glacial tills. These soils were deposited and compacted by continental ice sheet during the Vashon Stade of the Fraser glaciation (EA Science and Engineering, 1990). The Puget Sound area is in a seismically active area; however, without a detailed geotechnical study it is difficult to estimate seismic susceptibility.

Based on review of local geology, there is no evidence of asbestos, crystalline silica or zeolite minerals in the soils underlying the site. No ferrous or non-ferrous metal smelting slags were used as fill on the site. Review of local maps indicated there are no foundries within two miles. Visual reconnaissance indicated no high voltage power transmission lines were located within 100 yards.

3.4 Hydrogeology

Mercer Slough, a lowland, swampy area is located approximately one mile to the southeast of the site. Lake Sturtevant is located approximately 3/4 mile to the northeast. This lake is at an elevation of approximately 40 feet in the Interlake Drift Upland physiographic division. Water well records reviewed at Department of Ecology indicates depth to groundwater in the area is variable. Domestic wells drilled approximately one mile to the north have had static water levels at a depth between 45 and 50 feet below ground surface. Monitoring wells installed approximately 1/4 mile to the west have had groundwater encountered at a depth of 28 to 30 feet below ground surface. Soil borings drilled to a depth of 50 feet in 1990 by EA Science and Engineering on the former Chevron site at 10812 Main Street, did not encounter groundwater (EA Science and Engineering, 1990). Based on topography, it is expected that groundwater flow is to the southwest. Julia Kruger of City of Bellevue Environmental and Land Use Zoning informed EMR that the site is not in listed wetland or sensitive area. Based on a visual inspection, no water wells are located on site.

3.5 Water Supply/Sewage System

The buildings are connected to the municipal sanitary sewer system and to the municipal potable water supply. Based on our research and observations, there is no evidence to suggest that any chemicals have been discharged to the system.

4.0 SITE HISTORY

Foster Pepper and Shefelman, attorneys for Benenson Bellevue Associates II, provided EMR with a Chain-of-Title review that indicated that the subject property is owned by Benenson Bellevue Associates II, a Limited Partnership of the Benenson Capital Company of New York, New York (Exhibit C). The review dates back to 1963. The title review did not reveal any potential environmental concern from past uses of the site.

4.1 Historic Polk Street Directory Review

On March 16, 1994, EMR personnel reviewed historic Polk Street directories at the Bellevue Public Library. Polk directories for the years 1959, 1967, 1978 and 1985 were reviewed. Historic addresses for gasoline service stations, auto repair facilities, dry cleaners/laundromats and oil distributors were researched.

- 1959 No auto repair, oil distributors or dry cleaning/laundry facilities were identified in the area. Three gasoline stations were identified in the area. All American City Service was located at 804 104th Avenue NE, Bellevue Signal Service was located at 152 104th Avenue NE and Hal's Richfield was located at 10530 Main Street.
- 1967 No dry cleaning or oil distributor facilities were identified in the area. Bellevue Towing at 10708 Main Street was listed as an auto repair facility. Bellevue Cleaning Village at 110 108th Avenue NE was listed as a coin-op laundromat. Three gasoline stations were identified in the area. Jim's Bellevue Ritchfield was located at 10530 Main Street, Rocky's Ritchfield was located at 327 108th Avenue NE and Standard Station, Inc. was located at 10812 Main Street.
- 1978 No auto repair facilities were identified in the area. A dry cleaning establishment was located at 10335 Main Street. Four gasoline stations were identified in the area. Bellevue Arco was located at 327 108th Avenue NE, Fill 'em Fast was located at 10530 Main Street, Johnnie's Mobil was located at 10708 Main Street and Main Street Chevron was located at 10812 Main Street.
- 1985 No auto repair facilities were identified in the area. A dry cleaning establishment was located at 10335 Main Street. Two gasoline stations were identified in the area. Prestige Station was located at 10530 Main Street and Main Street Chevron was located at 10812 Main Street.

4.2 Aerial Photograph Review

EMR conducted an aerial photograph review for the subject site at the University of Washington Suzzalo Library on March 16, 1994. Aerial photographs for the subject property were reviewed for the years 1970 and 1981. Both photographs were shot by Washington Department of Natural Resources in black and white at a scale of 1:12000. The former Chevron Station building and canopy at 10812 Main Street was visible in both photographs. No other potential areas of environmental concern were observed.

4.3 Sanborn Fire Insurance Map Review

EMR conducted a Sanborn fire insurance map review for the subject site at the University of Washington Suzzalo Library on March 16, 1994. Though available Sanborn Fire Insurance maps were reviewed for the City of Bellevue; there was no map coverage of the area. Map coverage consisted of the older section of Bellevue to the west.

4.4 City of Bellevue Permit Review

EMR conducted a City of Bellevue permit review at Bellevue City Hall on March 16, 1994. Available permits on microfiche for 100 and 110 108th Avenue Northeast were reviewed to determine the potential for permitted underground storage tank installations or other construction that could be of potential environmental concern. In addition, the review was informative as to previous owners and tenants of the property and ages of the buildings and remodeled additions.

The original owner and tenant of the property was P-X supermarket, which built the existing Office Depot building, canopy and former Bellevue Cleaning Village building in 1961-1962. The 10812 Main Street property was leased by P-X supermarket to Standard Oil Company of California to construct a gasoline service station in 1963-1964. In 1968, Mayfair Stores owned the property and constructed an addition to the Office Depot building which consisted of the south end of the "L-shaped" building shown in Figure 2. Lucky Food Stores owned the property in 1976, at which time the canopy was remodeled. A furniture store tenant occupied 106 108th Avenue NE in 1978. In 1985, Lucky Food Stores continued to own the property, but had leased tenant space to an art and frame retail store.

4.5 Previous Investigations

No previous Phase I Environmental Investigations have been performed on the property. However, EA Science and Engineering of Redmond, Washington conducted an underground storage tank assessment on behalf of Chevron USA, Inc. at the former Chevron Station 9-2581 located at 10812 Main Street. Approximately 1,000 cubic yards of hydrocarbon-contaminated backfill and soil was excavated, treated by aeration in one foot lifts; and then backfilled into the original excavations. Three soil borings were drilled to a depth of 50 feet. Groundwater was not encountered and field screening and laboratory analysis did not detect the presence of hydrocarbons. The final report by EA Science and Engineering was submitted October 13, 1990 and is available for public review at Washington Department of Ecology Northwest Regional Office's (WDOE-NRO) leaking underground storage tank (LUST) files section. Correspondence from WDOE-NRO to Chevron USA, Inc. on December 28, 1990 stated that tank removal and remediation met or exceeded regulations (Exhibit D).

Foster Pepper and Shefelman, attorneys for Benenson Bellevue Associates II, provided EMR with copies of correspondence from EA Science and Engineering and Dames and Moore which indicated that clean site closure had been completed at the former Chevron site. Dames and Moore was hired by The Koll Company to review the EA Science and Engineering UST assessment report. Copies of this correspondence are provided in Exhibit D.

An asbestos hazard and risk assessment was performed by Prezant Associates, Inc. of Seattle, Washington on the southern portion of the Office Depot at 100 108th Avenue NE. The asbestos building inspection was conducted on behalf of Office Depot, Inc. of Concord, California in August, 1993. Asbestos containing materials in the form of floor tiles, mastics and paper backing on linoleum flooring were present (Exhibit D). Insulation Removal Specialists, Inc. (IRS) of Tukwila, Washington, under supervision by Turner Construction Company of Seattle, has since removed this asbestos-containing material.

At the request of Turner Construction Company, EMR conducted an asbestos building inspection at the former Bellevue Cleaning Village at 110 108th Avenue NE, the west side of the Office Depot warehouse, and the canopy area in December, 1993 on behalf of the owners, Benenson Bellevue Associates II. EMR's report dated January 12, 1994 summarized results of this asbestos inspection. Roofing Tar/Paper on the roof of the canopy and former laundromat/dry cleaners contained asbestos. In addition, loose pieces of cement-asbestos (transite) wallboard were found near the east wall. Asbestos-containing sprayon acoustic ceiling material was found throughout. Asbestos-containing, 9-inch and 12-inch floor tiles and mastic were also identified. Asbestos containing, 12-inch floor tiles were identified in the west portion of the Office Depot warehouse. All asbestos-containing material has been removed by IRS (Exhibit D).

Turner Construction Company, while conducting remodelling of the Office Depot, notified EMR that they suspected additional asbestos containing material on the west exterior wall south of the entrance. The suspect material was in an area that EMR had previously not been contracted to inspect. EMR subsequently sampled the material and determined that it was cement-asbestos board (transite). EMR submitted a letter summarizing the results on March 11, 1994 to Turner Construction Company (Exhibit D).

Prior to removal of the asbestos containing material, Puget Sound Air Pollution Control Agency had records of three separate permits for asbestos removal notification pertaining to the property. Copies of these are included in Exhibit D.

5.0 INVESTIGATION AND FINDINGS

5.1 Site Visits

A site inspection was conducted by EMR on March 16, 1994. The "L" shaped building in the northeast portion of the site is currently in use by Office Depot, a retail office supply store. The former Bellevue Cleaning Village at 110 108th Avenue NE was vacant and undergoing asbestos removal at the time of our site reconaissance. The former Chevron Station at 10812 Main Street had been removed and replaced with an asphalt surface.

Approximately 70% of the property is covered by asphalt, concrete curbs and planter boxes. The remaining 30% consists of the two site buildings and connecting canopy. None of the property was observed to have a surface that would allow natural infiltration of surface water.

5.2 Hazardous Materials

No hazardous materials were observed anywhere on the property.

5.3 Storage Tanks

No above or below ground storage tanks were observed. The former dry cleaning facility had an EPA I.D. number (WAD988475992) issued in 1990 as a Resource Conservation and Recovery Act (RCRA) Small Quantity Generator. Upon calling EPA Region X regarding the EPA I.D. number, EMR was informed that the number was issued for generating 340 pounds annually of waste perchloroethylene (PCE). This chemical is commonly used in dry cleaning operations. Section 5.8 summarizes an interview with former Bellevue Cleaning Village tenant Mr. Kavous Abbasian. Mr. Abbasian informed EMR that to the best of his knowledge, there were never any USTs prior to or during his tenant occupancy. Exhibit E presents copies of the "Notification of Dangerous Waste Activity" forms.

5.4 General Observations

There was no evidence of oil or chemical spills which would could cause soil staining or stressed vegetation. There was some business related debris consisting of wood planks and general rubbish located in the fenced area to the north of the former laundry/dry cleaning facility. The roof drains are located outside of the building exterior walls and discharge to the ground.

5.5 Results of Area Survey

Three pad-mounted transformers were observed along the west property boundary. A fourth pad-mounted transformer was observed located north of the former laundry/dry cleaning facility outside the fenced area (Exhibit A-Figure 2). The transformers are labeled #1 (TL207), #2 (U522), #3 (U524) and #4 (N-9611), respectively. According to Mr. Larry Turner of Puget Power, transformer #1 was tested PCB free in 1988. Transformers #2 and #3 were installed PCB-free. Transformer #4 is scheduled for replacement in late April, 1994.

5.6 Results of Building Survey

The buildings were constructed in 1961 by Hainsworth Construction Company for PX Sooper Market. The buildings are constructed of concrete block with a flat, wood frame roof coated with asphalt tar. The interior walls are sheetrock and the floors are concrete. During this investigation, Turner Construction Company was remodeling the Office Depot and IRS was removing asbestos containing material. There was no thermal insulation observed. There was no mineral wool, slag wool, or refractory ceramic fibers (RCFs) observed. There were no other man-made mineral fiber containing materials observed. The heating ventilation and air conditioning (HVAC) system is powered by natural gas. According to Mr. Scott Holbrook of Turner Construction, all fluorescent lighting fixtures were assumed to have PCB-containing ballasts due to their age, and were subsequently being handled accordingly.

No transformers were present in the buildings. There was no formaldehyde-releasing substances or solvent-plasticizer releasing substances observed at the site. There was no observable evidence of latent building defects or insectoidal or arachnoidal infestations.

There were no fluid-filled capacitors observed inside the buildings. There is no data available for radon emanations inside the property buildings. However, the State of Washington Department of Health, Division of Radiation Protection compiled Bonneville Power Administration (BPA) radon data for 1990 in Washington State counties. King County was listed as a low risk radon county.

5.7 Results of Regulatory Agency Contacts

Environmental Data Resources, Inc. (EDR) provided a national radius profile for the site. This profile presents the results of United States Environmental Protection Agency (USEPA) national priorities list (NPL); the comprehensive environmental response, compensation and liability information system (CERCLIS); Resource Conservation and Recovery Information System (RCRIS) which includes transporters, small quantity generators (Sm. Quan. Gen.), large quantity generators (Lg. Quan. Gen.), and treatment, storage and disposal (TSD) facilities; and the USEPA emergency response notification system (ERNS).

The profile also includes: listed Washington Department of Ecology (WDOE) toxic cleanup program (State Haz. Waste) sites, regional leaking underground storage tank (LUST) sites, registered underground storage tank sites (USTs) and municipal solid waste facilities (state landfills). The EDR report is provided in Exhibit F.

5.7.1 Federal Database Information

No sites located within one mile are on the NPL, CERCLIS, RCRIS Lg. Quan. Gen. or RCRIS-TSD. The former Bellevue Cleaning Village, part of the subject property at 110 108th Avenue NE is listed as a RCRIS Sm. Quan. Gen.. Section 5.3 details our results of inquiry to EPA Region X regarding this listing. The subject property was not on the ERNS database.

5.7.2 State Database Information

There are no WDOE State Haz. Waste sites listed within one mile of the subject property. There are no state landfill sites listed within 1/2 mile of the subject property. A portion of the subject property at 10812 Main Street was listed as a WDOE LUST and UST site. This site is the former Chevron Station No. 92581. Upon review of the file at WDOE Northwest Regional Office in Bellevue, Washington cleanup was completed and approved by WDOE in 1990, as apparent by correspondence from WDOE to Chevron (Exhibit D).

In addition to sites listed as WDOE landfills, EMR researched the presence of historic county landfills in the vicinity of the subject site. Two landfills were identified in the area: the abandoned Eastgate Landfill in east Bellevue is located 3 1/2 miles to the southeast of the site and the abandoned Factorial Landfill in southeast Bellevue is located approximately 3 miles to the southeast of the site (Seattle-King County Department of Health, 1985). Due to the distance of these landfills from the subject property, they do not appear to be a source of environmental concern.

Table 1: Regulatory Agency File Search Summary						
LIST	SITE NAME	ADDRESS	DISTANCE/DIRECTION			
US EPA RCRIS	Bellevue Cleaning Village	110 108th Avenue NE Bellevue WA 98004	0.00 miles/-			
Small Quantity Generator	Town and Country Cleaners, Inc.	310 105th Avenue NE Bellevue WA 98004	1/8 to 1/4 mile/NW			
WDOE LUST LIST	Chevron Station # 92581	10812 Main Street Bellevue WA 98004	0.00 miles/			
WDOE UST LIST	Chevron Station # 92581	10812 Main Street Bellevue WA 98004	0.00 miles/			

5.8 Results of Personnel Interview/Site Records Review

Ms. Marian Bruner of WDOE informed EMR that there were no records of WDOE enforcements pertaining to the site. Captain Molton, Battalion Chief/Hazmat Team Coordinator for Bellevue Fire Department, informed EMR that no spills of hazardous chemicals had been reported. Helene Bryant of the City of Bellevue Public Works, Storm and Surface Water Division, stated that there was no record of any surface spills that could potentially affect the storm sewer system.

Following receipt of copies of "Notification of Dangerous Waste" activities forms that had been completed to obtain and withdraw EPA I.D. # WAD988475992 from EPA Region X, EMR interviewed Mr. Kavous Abbasian, former tenant of Bellevue Cleaning Village, on April 4, 1994. The completed questionnaire is presented in Exhibit E. According to Mr. Abbasian, he purchased the business in 1983 and operated until June of 1993. Mr. Abbasian stated that all equipment pertaining to dry cleaning operations had been removed in June of 1993. Section 5.3 and 5.7.1 elaborate on the Bellevue Cleaning Village operation.

6.0 LIMITATIONS

This assessment was completed following generally accepted practices of other consultants undertaking similar studies at the same time and in the same geographical area. Geologic and soil formations are inherently random, variable and indeterminate in nature; therefore, the findings and conclusions stated herein must be considered not as scientific certainties, but as professional opinions concerning the significance of the limited data gathered during the assessment. No other warranty, expressed or implied, is made. EMR does not and cannot represent that the site contains no hazardous waste or material, petroleum products, or other latent condition beyond that noted by EMR during the period of site assessment. Reuse of any part of this assessment for any other purpose without EMR's written authorization shall be at Client's risk. The Client agrees to indemnify and hold harmless EMR from all actions, claims, damages, and expense, including attorney fees, arising out of any unauthorized reuse.

7.0 CONCLUSIONS

Available information pertaining to historic site use of the Office Depot building does not indicate the potential for environmental concern.

Previously identified asbestos-containing material has been removed by Insulation Removal Specialists (IRS) of Tukwila, Washington under the supervision of Turner Construction Company. Based on this removal, asbestos is no longer a source of environmental concern. Also, original fluorescent lighting fixtures from 1961 which are assumed by Turner Construction Company to have PCB-containing ballasts, are being disposed of accordingly.

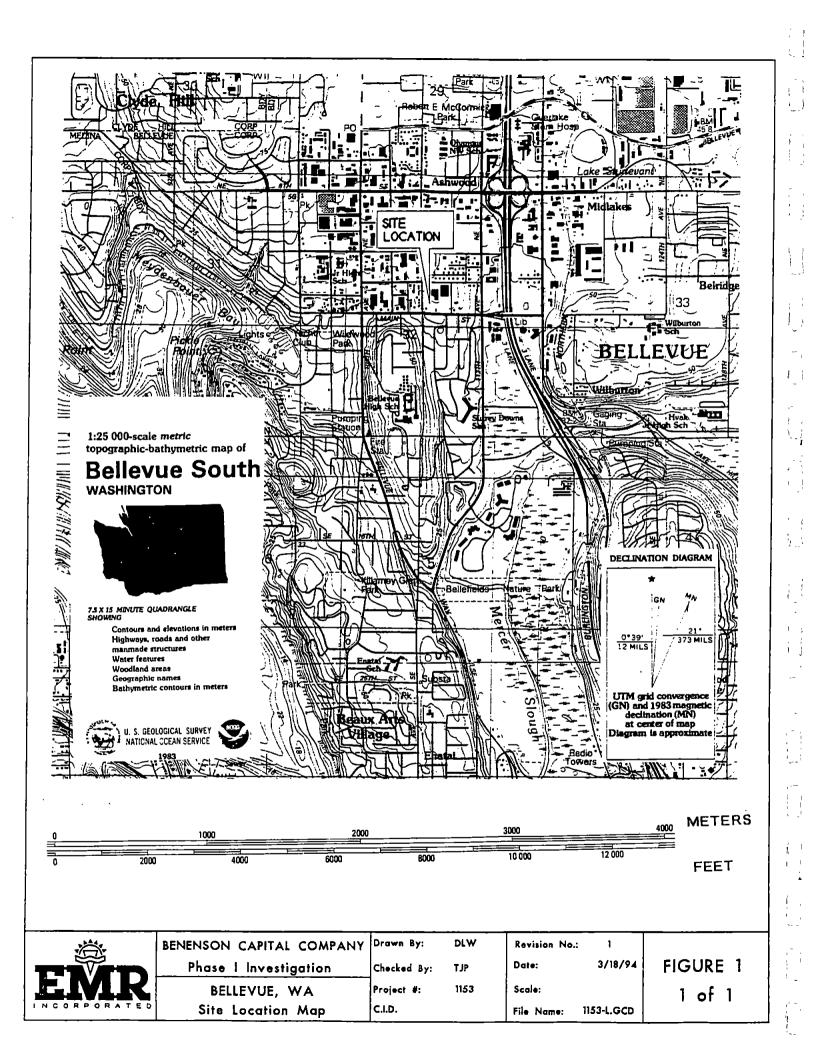
The former Chevron Station No. 92581 at 10812 Main Street underwent UST closure and soil remediation in 1990. Available records indicate that soils contaminated with petroleum hydrocarbons above regulatory cleanup levels were excavated, effectively treated and replaced as backfill. WDOE responded with correspondence suggesting no further action was necessary. In addition, groundwater was not encountered to a maximum explored depth of 50 feet below ground surface which suggests that groundwater contamination is unlikely.

Based on historical information and an interview with the former tenant Mr. Kavous Abbasian, the former Bellevue Cleaning Village at 110 108th Avenue NE is considered a low risk source of potential environmental concern. Though EMR confirmed that the facility did conduct dry cleaning operations and generated waste perchloroethylene, there was no evidence of underground storage tanks. During our inspection of the facility, there were no obvious signs of staining and/or odors that indicated surficial (flooring/tiles) releases.

8.0 RECOMMENDATIONS

EMR suggests that based on the conclusions stated in section 7.0, no further action is necessary in the area of the former Chevron Station, Bellevue Cleaning Village, or the existing Office Depot. There is no evidence to suggest any other part of the property would be a source of potential environmental concern.

EXHIBIT A - Figures



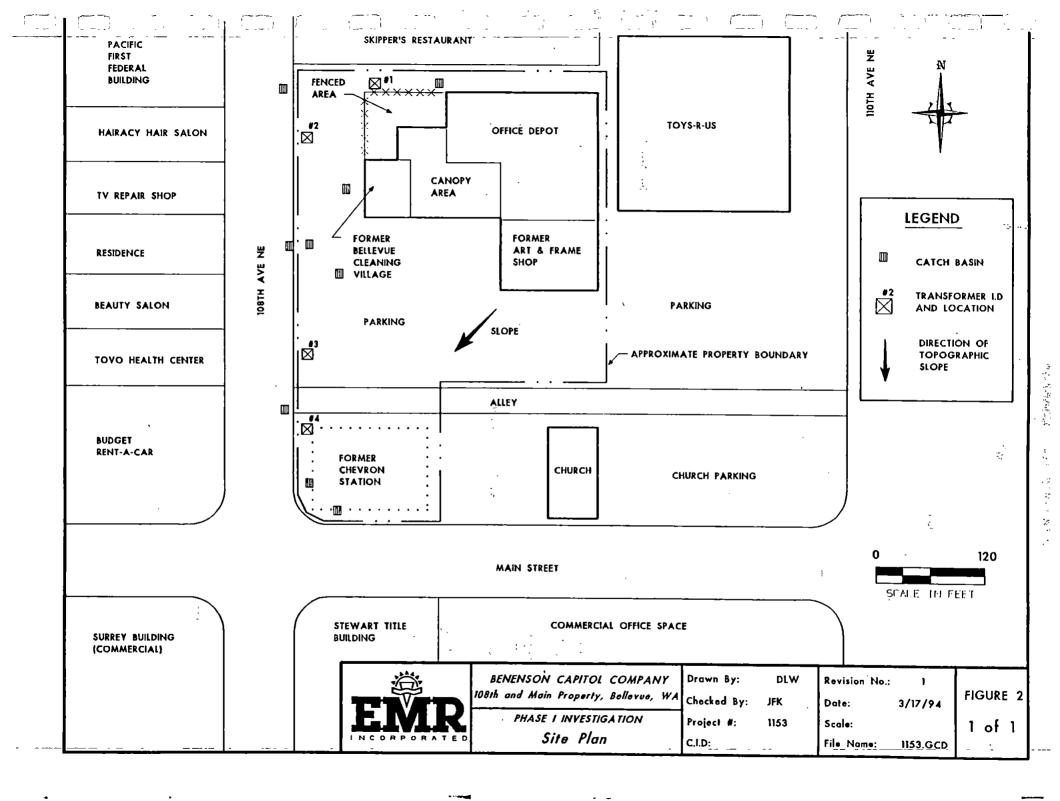
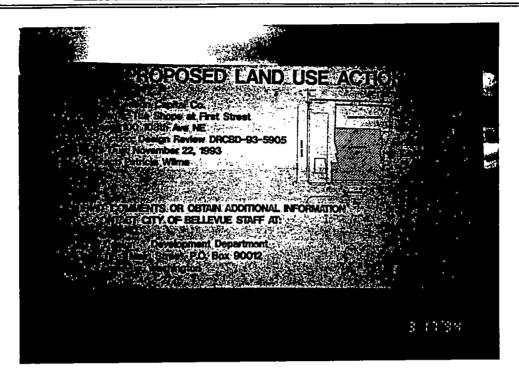


EXHIBIT B: Photographs

)ATE: April 4, 1994

.'ROJECT NAME: Benenson Bellevue/Phase I PROJECT NUMBER: 1153

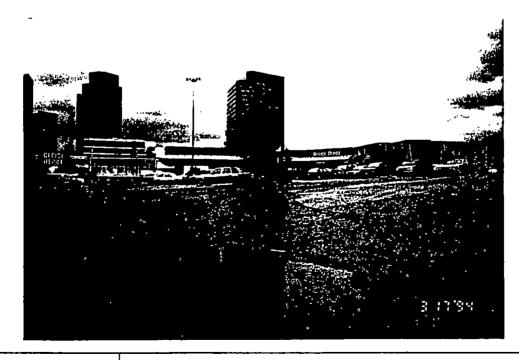
PROJECT LOCATION: Main Street and 108th Avenue NE, Bellevue, WA



EMR

PHOTO: 1

VIEW: North at proposed land use action sign posted at south entrance off Main Street.



EMR

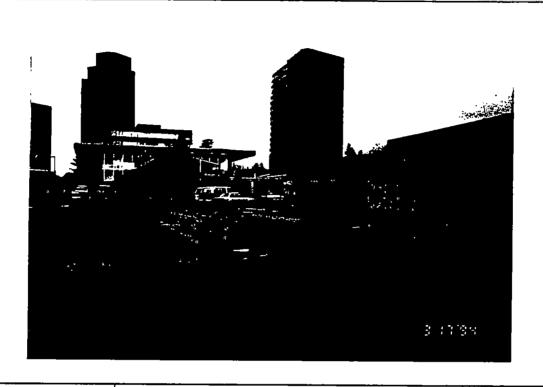
PHOTO: 2

VIEW: Toward N. from S. side of property at from left to right: Office Depot sign, former Bellevue Cleaning Village, canopy area and Office Depot.

DATE: April 4, 1994

PROJECT NAME: Benenson Bellevue/Phase i PROJECT NUMBER: 1153

PROJECT LOCATION: Main Street and 108th Avenue NE, Bellevue, WA



EMR

PHOTO: 3

VIEW: Toward N. looking at north adjacent Skipper's Restaurant from W. side of former Bellevue Cleaning Village (110 108th Avenue NE).



EMR

PHOTO: 4

VIEW: Toward N from E side of Office Depot building at E. adjacent Toys "R" Us retail toy store property.

DATE: April 4, 1994

PROJECT NAME: Benenson Bellevue/Phase I PROJECT NUMBER: 1153

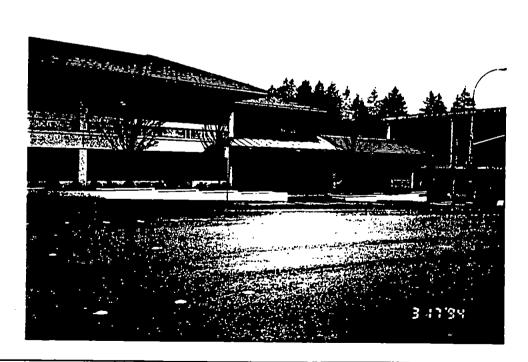
PROJECT LOCATION: Main Street and 108th Avenue NE, Bellevue, WA



EMR

PHOTO: 5

VIEW: Toward E looking at church from former Chevron service station portion of property,



EMR

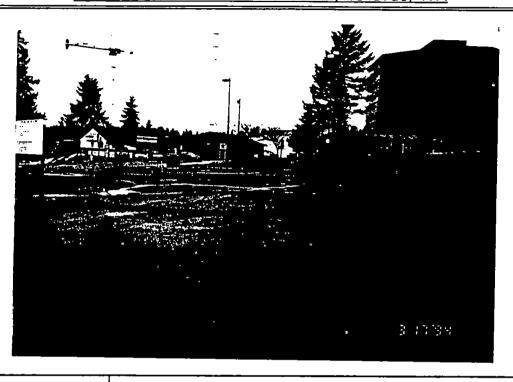
PHOTO: 6

VIEW: Toward S. from S. side of property (former Chevron station) at Stewart Title Company building across Main Street.

DATE: April 4, 1994

PROJECT NAME: Benenson Bellevue/Phase I PROJECT NUMBER: 1153

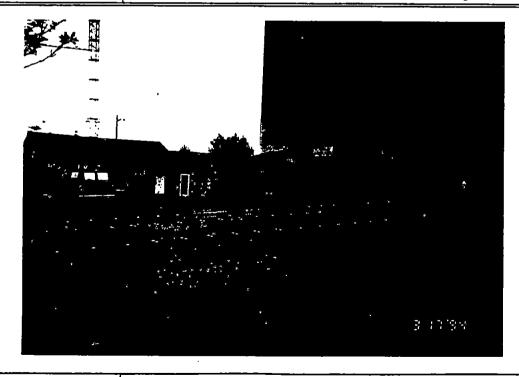
PROJECT LOCATION: Main Street and 108th Avenue NE, Bellevue, WA



EMR

PHOTO: 7

VIEW: Toward NW looking across asphalt lot (former Chevron station) at from left to right: Budget rent-a-car, Tovo Health Center, beauty salon, residence (behind tree), hair salon and Pacific First Federal Building.



EMR

PHOTO: 8

ViEW: Toward NW. from 108th Street NE entrance west of former Bellevue Cleaning Village at from left to right: TV repair shop, Hairacy Hair Salon and Pacific First Federal Building.

EXHIBIT C: Semi-centennial Chain-of-Title Review

FOSTER PEPPER & SHEFELMAN

A LAW PARTMERSHIP INCLUDING PROFESSIONAL SERVICE COMPGRATIONS

RECEIVED

1111 THIRD AVENUE BUITE 3400 SEATTLE, WASHINGTON 98101 (206) 447-4400 9000 PM 2: 57
PORTLAND, DREGON OFFICE
(800) 221-0807
TELECOPIER: 800) 221-1810

BELLEVUE, WASHINGTON OFFICE (204) 451-0500 TELECOPER: (206) 455-5457

> TELECOPIER: (206) 447-9700 (206) 447-9283 TELEX: (206) 32-8024 ANSKB: FOSTER LAW SEA

Respond to Seattle Office			
DATE: March 30, 1994	TIME: 2:39 p	<u>m</u>	Pacific Time
TO: _David Walsh/EMR			
CITY: Redmond. Washington			
FAX NO: <u>869-7820</u>	OFFICE PHONE	NO	
IF YOU DO NOT WANT YOUR FAX VOICE	CONFIRMED PLEAS	SE CHECK THIS BOX	· 🗆
FROM: Diane M. Istvan			
NAME OF DOCUMENT(S): cc of letter with	enclosures		
			
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REQUESTED BY: D. Adams		FLOOR: <u>32-56</u>	
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THE U.S. POSTAL SERVICE. THANK YOU.			
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FOSTER PEPPER & SHEFELMAN

A LAW PARTHERSHIP INCLUDING PROFESSIONAL SERVICE COMPORATIONS COPY

DELLEVUE. WASHINGTON OFFICE (206) 451-0500 TELECOPIER: (206) 455-5487 1111 THIRD AVENUE SUITE 3400 SEATTLE. WASHINGTON 96101 (206) 447-4400

PORTLAND, OREGON OFFICE (503) 221-0607 TELECOPIER: (503) 221-1610

TELECOPIER: (206) 447-9700 - (206) 447-9283

DIRECT DIAL: (208) 447-4682

March 30, 1994

VIA FACSIMILE

Mr. Audie Newson
Puget Power Realty
Real Estate Department
411 108th Ave. N.E. Floor 11
Bellevue, Washington 98009

Dear Mr. Newson:

Here, at the request of Jennifer Fier and Steve Cox, are the following with respect to the Benenson Bellevue property.

- 1. Title commitment for property except for the ex-Chevron station portion.
- 2. Title policy for the Chevron portion showing title in the Benenson Bellevue Associates L.P. and the deed from Benenson Bellevue Associates L.P to The Benenson Capital Company.

Please call if you have any questions.

sincerely,

1 1/10/

DMI/daa Encls.

cc: Jennifer Fier Steve Cox

DESCRIPTION:

PARCEL A:

THAT PORTION OF THE SOUTHWEST 1/4 OF THE NORTHEAST 1/4 OF SECTION 32, TOWNSHIP 25 NORTH, RANGE 5 EAST W.M., DESCRIBED AS FOLLOWS:

BEGINNING AT THE STONE NONUMENT AT THE INTERSECTION OF THE CENTERLINES OF MAIN STREET WITH 108TH AVENUE NORTHEAST, SAID POINT BEING APPROXIMATELY 4.8 FEET NORTH OF THE TRUE CENTER OF SAID SECTION 32;

THENCE NORTH 00°05'55" EAST. MORE OR LESS. ALONG SAID CENTERLINE. 190.02 FEFT. THENCE SOUTH 88°03'32" EAST, MORE OR LESS. PARALLEL WITH THE CENTERLINE OF MAIN STREET, 180.02 FEET:

THENCE SOUTH 00°05'55" WEST, MORE OR LESS, AND PARALLEL WITH THE CENTERLINE OF 108TH AVENUE NORTHEAST, 190.02 FEET TO SAID CENTERLINE OF MAIN STREET; THENCE NORTH 88°03'32" WEST, MORE OR LESS, 180.02 FEET TO THE POINT OF BEGINNING;

EXCEPT THE SOUTH 40 FEET THEREOF FOR MAIN STREET, AS ESTABLISHED IN VOLUME 5 OF ROAD DEEDS ON PAGE 199, AND BY DEED RECORDED UNDER RECORDING NO. 3212225;

AND EXCEPT THE WEST 30 FEET CONVEYED TO KING COUNTY FOR 108TH AVENUE N.E. BY DEED RECORDED UNDER RECORDING NO. 913178;

SITUATE IN THE CITY OF BELLEVUE, COUNTY OF KING, STATE OF WASHINGTON.

PARCEL B:

THAT PORTION OF THE SOUTHWEST 1/4 OF THE NORTHEAST 1/4 OF SECTION 32, TOWNSHIP 25 NORTH, RANGE 5 EAST W.M., DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT ON THE EAST MARGIN OF 108TH AVENUE NORTHEAST FROM WHICH THE POINT OF INTERSECTION OF THE SAID EAST MARGIN WITH THE ORIGINAL NORTH MARGIN OF MAIN STREET BEARS SOUTH 00°05'55" WEST 150.00 FEET;

THENCE NORTH 00°05'55" EAST ALONG SAID EAST MARGIN 397.78 FEET TO A POINT 107.75 FEET SOUTH FROM THE INTERSECTION OF NORTHEAST 2ND STREET AND 108TH AVENUE NORTHEAST;

THENCE SOUTH 88°03'32" EAST. 309.39 FEET TO A POINT IN A LINE 647.66 FEET WESTERLY OF, WHEN MEASURED AT RIGHT ANGLES TO. THE EAST LINE OF THE WEST 3/4THS OF THE SOUTH 1/2 OF THE SAID SOUTHWRST 1/4 OF THE NORTHEAST 1/4:

THENCE NORTH 00°11'05" EAST, 57.78 FEET;

THENCE SOUTH 88°03'44" EAST, 59.38 FRET;

THENCE SOUTH 01°56'16" WEST, 490.28 FEET;

THENCE NORTH 88°03'32" WEST. 120.00 FEET:

THENCE SOUTH 00°05'55" WEST, 115.06 FEET TO THE SAID NORTH MARGIN OF MAIN STREET;

THENCE NORTH 88°03'32" WEST ALONG SAID NORTH MARGIN 84.12 FEET;

THENCE NORTH 00"05'55" EAST 150.00 FEET;

THENCE NORTH 88°03'32" WEST 150.00 FEET TO THE POINT OF BEGINNING;

EXCEPT THE SOUTH 10.00 FEET THEREOF FOR STREET AS CONVEYED TO STATE OF WASHINGTON, BY DEED RECORDED UNDER RECORDING NO. 3212225;

SITUATE IN THE CITY OF BELLEVUE, COUNTY OF KING. STATE OF WASHINGTON.

0860636

PARCEL C: .

THAT PORTION OF THE SOUTHWEST 1/4 OF THE NORTHEAST 1/4 OF SECTION 32, TOWNSHIP 25 NORTH, RANGE 5 EAST W.M., DESCRIBED AS FOLLOWS:

BEGINNING AT THE STONE MONUMENT AT THE INTERSECTION OF THE CENTERLINES OF MAIN STREET WITH 108TH AVENUE N.E., SAID POINT BEING APPROXIMATELY 4.8 FEET NORTH OF THE TRUE CENTER OF SAID SECTION 32:

THENCE NORTH 00°05'55" EAST ALONG SAID CENTERLINE 190.02 FEET;

THENCE SOUTH 88°03'32" EAST PARALLEL WITH THE CENTERLINE OF MAIN STREET 30.02 FEET TO THE EAST MARGIN OF 108TH AVENUE N.E.;

THENCE NORTH 00 05 55" EAST ALONG SAID MARGIN 387.78 PEET;

THENCE SOUTH 88°03'32" EAST 309.39 FEET TO THE WEST LINE OF THE EAST 647.86 FEET OF THE WEST 3/4 OF THE SOUTHWEST 1/4 OF THE NORTHEAST 1/4 OF SAID SECTION

THENCE NORTH OC°11'05" EAST ALONG SAID WEST LINE 57.78 FEET TO THE TRUE POINT OF BEGINNING OF THIS DESCRIPTION;

THENCE SOUTH 88°03'44" EAST 59.38 FEET;

THENCE NORTH 01°56'16" EAST 27.24 FEET TO THE SOUTH MARGIN OF N.E. SECOND

STREET; THENCE NORTH 89°13'13" WEST ALONG SAID MARGIN 61.21 FEET TO A POINT WHICH BEARS NORTH 00°11'05" EAST FROM THE TRUE POINT OF BEGINNING; THENCE SOUTH 00°11'05" WEST 26.24 FEET TO THE TRUE POINT OF BEGINNING;

SITUATE IN THE CITY OF BELLEVUE, COUNTY OF KING, STATE OF WASHINGTON.

0860636

Form No. W-AK-555 (Previous Porm No. MOR) ESCROW NO.

LOAN NO.

MORTGAGOR

PLAT MAP Vol PG

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This map does not purport to show all highways, roads or easements affecting said to the s

TRANSAMERICA TITLE INSURANCE COMPANY 320 108TH AVENUE N.E. P.O. BOX 1493 BELLEVUE, WA 98009

Trepared for:

FOSTER PEPPER & SHEFELMAN

1111 3RD AVENUE, STE 3400 SEATTLE, WA 98101 Attn: DIANE ISTVAN Transamerica No. : 860636
Customer Reference: BENENSON
Seller : --Buyer/Borrower : ---

For service on this order call: (206) 646-8589/1-800-441-7701
JOHN W. JONES or DAVID P. CAMPBELL

(FAX #(206) 646-311,

SUPPLEMENTAL NO. 1 TO THE SECOND COMMITMENT

ATTENTION: This Supplemental contains changes which impact title to property set forth in the above-referenced commitment.

ffective Date: October 8, 1993 at 8:00 A.M.

CHEDULE "B"

A) Paragraphs Nos. 7 and 12 are deleted.

EXCEPT AS TO THE MATTERS REPORTED HEREINABOVE, THE TITLE TO THE PROPERTY COVERED BY THIS ORDER HAS NOT BEEN RE-EXAMINED.

---END---

JWJ/qst

· +5 /5 · 1

ישה בא אורונו ווא איני שבו וובו ווו אים בא אורונו וויב

PLEASE DIRECT CORRESPONDENCE TO: Transamerica Title Insurance Co. 320 108th Avenue N.E. P.O. Box 1493 Bellevue. WA 98009

Prepared for:

FOSTER, PEPPER & SHEFELMAN 1111 THIRD AVENUE, SUITE 3400 SEATTLE, WA 98101

ATTN: DIANE TOTAL

Transamerica No.: 0860636

Customer No.

Seller

Buyer/Borrower

Title Officer

For service on this order, call: 646-8589/1-800-441-7701

JOHN W. JONES or DAVID P.

CAMPRELL

(FAX #846-8593)

SCHEDULE A

SECOND COMMITMENT

EFFECTIVE DATE: October 1, 1993 at 8:00 A.M.

1. Policy or policies to be issued:

Amount

Premium

(X) Alta Owner's Policy (6-1-87)

See Note 1

Tax

() Alta Owner's Policy-1970

(Amended 10-17-70) Commercial Rate

Extended Policy

Proposed Insured: TO BE DETERMINED

(SEE NOTE 2)

Premium

Tax

Total See Note 1

Title to fee simple estate or interest in said land is at the effective date hereof vested in:

THE BENENSON CAPITAL COMPANY, A NEW YORK GENERAL PARTNERSHIP

3. The land referred to in this commitment is situated in the County of King. State of Washington and is described as follows:

-see attached-

SCHEDULE B

EXCEPTIONS: Schedule B of the policy or policies to be issued will contain exceptions to the following matters unless the same are disposed of to the satisfaction of the Company.

- A. Standard exceptions set forth on inside back cover.
- B. Defects. liens, encumbrances. adverse claims or other matters, if and created. First appearing in the public records or attaching subsequent to the effective date hereof but prior to the date the proposed insured acquires for value of record the estate or interest or mortgage thereon covered by this Commitment.
- C. Instruments necessary to create the estate or interest to be properly executed, delivered and duly filed for record.
- 1. Real Estate Excise Tax pursuant to the authority of RCW Chapter 82.45 and subsequent amendments thereto.

As of the date herein, the tax rate for said property is .0178.

 General taxes, as follows, together with interest, penalty and statutory foreclosure costs, if any, after delinquency: (1st half delinquent on May 1; 2nd half delinquent on November 1)

TAX ACCOUNT NO. YEAR AMOUNT BILLED AMOUNT PAID PRINCIPAL BALANCE 322505-9020-05 1993 \$ 8,647.47 \$ 4,323.74 \$ 4,323.74 {Parcel A, except improvements thereon}

322505-9091-09 1993 \$71,077.36 \$35,538.68 \$35,538.68 (Covers Parcel B)

322505-9210-05 1993 \$ 628.51 \$ 314.26 \$ 314.25 (Covers Parcel C)

The levy code for the property herein described is 0330 for 1993.

- Notice of additional tap or connection charges by City of Bellevue for water or sewer facilities, the amounts and charges for which have been, or will be, levied against said property, as recorded under King County Recording No. 7711090948.
- 4. EASEMENT AND THE TERMS AND CONDITIONS THEREOF:

GRANTEE: PURPOSE:

Water District No. 68 of King County

Water pipeline system

AREA AFFECTED:

Northerly portion of property herein described

July 26, 1963

RECORDED: RECORDING NO.:

5615369

(Covers Parcel C and other property)

0860636

UNDERGROUND UTILITY EASEMENT AND THE TERMS AND CONDITIONS THEREOF:

GRANTEE:

Puget Sound Power & Light Company, a

Washington corporation

Underground electric system PURPOSE:

Two 6 foot strips over portion of Parcel

DATED: RECORDED:

AREA AFFECTED:

April 2, 1965

April 2, 1965

RECORDING NO .:

5862442

Contains covenant prohibiting structures over said easement or other activity which might endanger the underground system.

6. UNDERGROUND UTILITY EASEMENT AND THE TERMS AND CONDITIONS THEREOF:

GRANTEE:

PURPOSE:

AREA AFFECTED:

Puget Sound Power & Light Company

Underground electric line

The West 5 feet of the South 5 feet of the

North 52 feet

5891231

RECORDING NO .:

(Covers Parcel A)

Contains covenant prohibiting structures over said easement or other activity which might endanger the underground system.

7. AGREEMENT AND THE TERMS AND CONDITIONS TEEREOF:

BETWEEN:

AND:

DATED:

RECORDED:

RECORDING NO.:

AREA AFFECTED:

RECORDING NO.:

REGARDING:

Gladys Rubenstein

Ardèm-Mayfair, Inc.

July 26, 1968

November 12, 1968

64/32752

Additional parking upon Parcel B

EASEMENT AND THE TERMS AND CONDITIONS THEREOF:

GRANTEE:

PURPOSE:

RECORDED:

Pacific Northwest Bell Telephone Company,

a Washington corporation

Buried communication cables

The North 3 feet of the West 120 feet of

Parcel B

December 2, 1977

7712020692

9. EASEMENT AND THE TERMS AND CONDITIONS THEREOF:

GRANTEE:
PURPOSE:

AREA AFFECTED:

replacing, repairing, maintaining, and operating one signal pole and all necessary connections and appurtenances That portion of the Southwest 1/4 of the Northeast 1/4 of Section 32, Township 11 North, Range 5 East W.M., described as follows: Beginning at the Southwest corner of said subdivision; thence North 00°05'42" East 40.02 feet along the West line of said subdivision; thence South 88°03'45" East 30.02 feet to the intersection of the North margin of Main Street and the East margin of 108th Avenue N.E.; thence North 00°05'42" East 6.00 feet along said East margin to the point of beginning of this description: thence continuing North 00°05'42" East 8.00 feet along said East margin; thence South 89°54'18" East 4.00 feet; thence South 00°05'42" West 8.00 feet: thence North 89°54'18" West 4.00 feet to the point of beginning August 25, 1986 September 25; 1986 8609250187

The City of Bellevue, a municipal corporation

Constructing, installing, reconstructing,

DATED:
RECORDED:
RECORDING NO.:
(Covers Parcel A)

10. AGREEMENT AND THE TERMS AND CONDITIONS THEREOF:

BETWEEN:

AND:

DATED: RECORDED:

RECORDING NO.:

REGARDING:

(Covers Parcels A and B)

Main Street Joint Venture
The Benenson Capital Company and Charles
B. Benenson
May 17, 1988
August 1, 1988
8808010089
Stipulated clarification of boundary

11. MATTERS SET FORTH BY ALTA/ACSM SURVEY:

SURVEYOR: ENGINEERS:

JOB NO./NAME:

DATED:

DISCLOSES:

Richard Dickman #26252 Evans & Assoc. KOLX0046/Benson Bellevue February 19, 1991

a) Extending curbing, signs, rockery and light poles into street right-of-way

b) Possible interest of parties in possession as evidenced by catch basin, storm drains and light pole bases extending from adjoining properties for which no easements exist of record

(Covers Parcel A)

12. LEASE AND THE TERMS AND CONDITIONS THEREOF:

LESSOR: LESSEE:

FOR A TERM OF: RECORDING NO.: (Covers Parcel B) Charles B./Benenson

Arden Farms Co.. a Delaware corporation, inow known as Arden-Mayfair, Inc., a Delaware

corporation

April 14, 1965 to April 30, 1992

5866571

Lessee's interest in said lease is now held of record by Charles B. Benenson. by assignment of lease recorded October 24, 1975, June 16, 1987 and July 7, 1987, under Recording No. 7510240688, 8706160280 and 8707070392.

13. DEED OF TRUST AND THE TERMS AND CONDITIONS THEREOF:

GRANTOR:

TRUSTEE:

BENEFICIARY:

ADDRESS:

ORIGINAL AMOUNT: DATED:

DWIFD!

RECORDED: :

RECORDING NO.:

(Covers Parcel A)

Benenson Bellevue Associates L.P., a

Washington limited partnership

Transamerica Title Insurance Company, a

corporation

Main Street Joint Ventures, a Washington

joint venture

19009 33rd Avenue W.

Lynnwood, WA 98036.

\$286,002.23

March 13, 1991

March 13, 1991

9103130996

14. Unrecorded leaseholds, if any; rights of vendors and holders of security interests on personal property installed upon property; and rights of tenants to remove trade fixtures at the expiration of the term.

15. Matters affecting security interests in personal property which may be disclosed by a search of the Uniform Commercial Code (UCC) records at the Washington State Department of Licensing in Olympia.

0860636

Any service, installation or construction charges for sewer, water, electricity, 16. or garbage removal.

NOTE 1:

The Company may have further requirements if the amount to be insured exceeds the current assessed valuation.

NOTE 2:

Question of the identity of the proposed insured.

NOTE 3:

Any conveyance or mortgage by The Benenson Capital Company, a New York general partnership must be executed by all of the partners and their respective spouses as of the date hereof, or evidence submitted that certain designated partners have been authorized to act for the partnership.

A copy of the partnership agreement and amendments thereto must be submitted to the Company for review.

END OF EXCEPTIONS

INVESTIGATION SHOULD BE MADE TO DETERMINE IF THERE ARE ANY SERVICE, INSTALLATION, MAINTENANCE OR CONSTRUCTION CHARGES FOR SEWER, WATER OR ELECTRICITY.

IN THE EVENT THIS TRANSACTION FAILS TO CLOSE. A CANCELLATION FEE WILL BE CHARGED FOR SERVICES RENDERED IN ACCORDANCE WITH OUR RATE SCHEDULE.

ENCLOSURES: Sketch

All recorded encumbrances

JWJ:tdk

4 4 W 64

AFTER RECORDING, RETURN TO

Diane M. Istvan
Fostor, Pepper & Shefelman
1111 Third Avenue. Suite 3400
Scattle, Washington 98101

STATUTORY WARRANTY DEED

THE GRANTOR, BENENSON BELLEVUE ASSOCIATES L.P., a Washington Limited Partnership, for and in consideration of Ten Dollars (\$10.00) and other good and valuable consideration in hand paid, conveys and warrants to THE BENENSON CAPITAL COMPANY, a New York Partnership, the real estate described in "Exhibit A" attached hereto and incorporated herein by reference, which real estate is situated in the City of Bellevue, King County, State of Washington. Said real estate is subject to those matters set forth in said "Exhibit A."

DATED: 22, 1992.

GRANTOR:

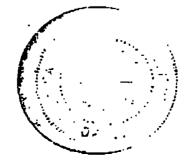
BENENSON BELLEVUE ASSOCIATES L.P., a Washington limited partnership

BENEWSON DEVELOR CORPORETION

BY: The Corporation of the Corporation o

COUNTY OF Your York) ss.

I certify that I know or have satisfactory evidence that CHARLES B. BENENSON is the person who appeared before me, and said person acknowledged that said person signed this instrument, on oath stated that said person was authorized to execute the instrument and acknowledged it as a general partner of BENENSON BELLEVUE ASSOCIATES L.P, a limited partnership, to be the free and voluntary act of such partnership for the uses and purposes mentioned in the instrument.



Notary Public in and for the state of N. V., residing at 25. 11 212 54 Causide, N.V. My appointment expires 177 a. 2 1794

CARMEN S. PETERSON
Notary Public, State of New York
No. 41-4966281
Qualitied in Queens County
Commission Expires May 7 7004
ILLUAS S & J WAGT: PG P6. ØE

-10008364.01

EXHIBIT A

Legal Description

THAT PORTION OF THE SOUTHWEST 1/4 OF THE MORTHEAST 1/6 OF SECTION 32. TOWNSHIP 25 NORTH, RANGE 5 BAST W.M., DESCRIBET AS POLLOWS:

BEGINNING AT THE STONE MONUMENT AT THE INTERSECTION OF THE CENTERLINES OF MAIN STREET WITE 108TH AVENUE NORTHEAST. SAID POINT BEING APPROXIMATELY 4.8 FEET HORTE OF THE TRUE CENTER OF SAID SECTION 32;

THENCE NORTH 00°05'55" MAST, NORE OR LESS. ALONG SAID CENTERLINE, 190.02 FEET; THENCE SOUTH 88'03'92" MAST, NORE OR LESS. PARALLEL WITH THE CENTERLINE OF MAIN STREET, 180.02 FEET;

THENCE SOUTH 00°05'55" WEST, MORE OR LESS. AND PARALLEL WITH THE CENTERLINE OF 108TH AVENUE NORTHEAST. 190.02 FEET TO SAID CENTERLINE OF MAIN STREET; THENCE NORTH 88°03'32" WEST, MORE OR LESS, 180.02 FEET TO THE POINT OF REGINNING:

EXCEPT THE SOUTH 40 PRET THEREOF FOR MAIN STREET, AS ESTABLISHED IN VOLUME 5 OF ROAD DEEDS ON PAGE 199, AND BY DEED RECORDED UNDER RECORDING NO. S212225;

AND EXCEPT THE WEST 30 PRET CONVEYED TO KING COUNTY FOR 108TH AVENUE N.E. BY DEED RECORDED UNDER RECORDING NO. 913178;

SITUATE IN THE CITY OF BELLEVUE. COUNTY OF KING. STATE OF WASHINGTON.

SUBJECT TO:

- Real estate taxes not now due and payable.
- 2. Underground utility easement and the terms and conditions thereof as recorded in the records of King County, Washington, under recording No. 5891231.
- Easement and the terms and conditions thereof as recorded in the records of King County, Washington, under recording No. 8609250187.
- 4. Agreement and the terms and conditions thereof as set forth in document recorded in the records of King County, Washington, under recording No. 8808010089.

011&144F 1/22/01

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100 - 100 -

American Land Title Association Owner's Policy — Form B — 1970 (Rev. 10-17-70)

POLICY
OF
TITLE
INSURANCE

Issued by

TRANSAMERICA
TITLE INSURANCE
COMPANY

HOME OFFICE

4683 Chabol Drive Suite 160 Pleasarton, CA 94566

B 1005-B

RANSAMERICA TILE INSURANCE COMPANY

OWNER'S POLICY OF TITLE INSURANCE

BJECT TO THE EXCLUSIONS FROM COVERAGE, THE EXCEPTIONS CONTAINED IN SCHEDULE BAND THE PROVISIONS OF IE CONDITIONS AND STIPULATIONS HEREOF, TRANSAMERICA TITLE INSURANCE COMPANY, a California corporation, herein smild the Company, insures, as of Date of Policy shown in Schedule A. against loss or damage, not exceeding the amount of insurance stated in Schedule A. and cost, autorneys' fees and expenses which the Company may become obligated to pay hereunder, sustained or incurred by the insured by payers of:

- 1. Title to the estate or interest described in Schedule A being vested otherwise than as stated therein:
- 2. Any defect in or lien or encumbrance on such title;
- 3. Lack of a right of access to and from the land; or
- 4. Unmarketability of such title.

WITNESS WHEREOF. Transamerica Title Insurance Company has caused its corporate name and seal to be hereunto affixed by its duly suthorized officers, the Policy to become valid when countersigned herein by an authorized officer or agent of the Company.

TRANSAMERICA TITLE INSURANCE COMPANY

Authorized Countersignature

CALLED FOR

8. Feeled South

President

--Serrelati

EXCLUSIONS FROM COVERAGE

The following matters are expressly excluded from the coverage of this policy:

- 1. Any law, ordinance or governmental regulation (including but not limited to building and zoning ordinances) restricting or regulating or prohibiting the occupancy, use or enjoyment of the land, or regulating the character dimensions or location of any improvement now or hereafter erected on the land, or prohibiting a separation in ownership or a reduction in the dimensions or area of the land, or the effect of any violation of any such law, ordinance or governmental regulation.
- 2. Rights of eminent domain or governmental rights of police power unless notice of the exercise of such rights appears in the public records at Date of Policy.
- 3. Defects, liens, encumbrances, adverse claims, or other matters (a) created, suffered, assumed or agreed to by the insured claimant; (b) not known to the Company and not shown by the public records but known to the insured claimant either at Date of Policy or at the date such claimant acquired an estate or interest insured by this policy and not disclosed in writing by the insured claimant to the Company prior to the date such insured claimant became an insured hereunder: (c) resulting in no loss or damage to the insured claimant; (d) attaching or created subsequent to Date of Policy; or (e) resulting in loss or damage which would not have been sustained if the insured claimant had paid value for the estate or interest insured by this policy.

CONDITIONS AND STIPULATIONS

TION OF TERMS

Vilewing terms when used in this policy mean:

the insured named in Schedule A, and, subject the or defenses the Company may have had against the the series of law as distinguished from purchase including, but not the heirs, distributers, devisees, survivors, personal representant of kin, or corporate or fi fuciary successors.

Manured claimant": an insured claiming loss or damage

inowledge : actual knowledge, not constructive knowledge which may be imputed to an insured by reason of any

"tell"tend": the land described, specifically or by reference in A, and improvements affixed thereto which by law constitute the property: provided, however, the term "land" does not include the lines of the land. property: provided, nowever, the term "land" does not include a property beyond the lines of the area specifically described or true to in Schedule A. nor any right, title, interest, estate or true in abutting streets, roads, avenues, alleys, lanes, ways or many, but nothing herein shall modify or limit the extent to be a second to be right of access to and from the land is insured by this policy.

tell "mortgage"; mortgage, deed of trust, trust deed, or other

If public records": those records which by law impart connotice of matters relating to said land.

CONTINUATION OF INSURANCE AFTER CONVEYANCE OF TITLE

The coverage of this policy shall continue in force as of Date Pelicy in favor of an insured so long as such insured retains an perform money mortgage given by a purchaser from such insured. we took as such insured shall have maining by reason of covernance of surfactly made by such insured in any transfer or conveyance if with estate or interest; provided, however, this policy shall not such estate or interest or any purchaser from such insured of other said estate or interest or the indebtedness secured by a purdue money mortgage given to such insured.

L DEFENSE AND PROSECUTION OF ACTIONS - NOTICE OF CLAIM TO BE GIVEN BY AN INSURED CLAIMANT

(a) The Company, at its own cost and without undue delay, shall provide for the defense of an insured in all litigation consisting of about or proceedings commenced against such insured, or a defense imposed against an insured in an action to enforce a comract for such of the estate or interest in said land, to the extent that such the insured upon an alleged defect, lien, encumbrance, or the matter insured against by this policy.

(b) The insured shall notify the Company promptly in writing it in case any action or proceeding is begun or defense is intersed as set forth in (a) above. (ii) in case knowledge shall come has insured hereunder of any claim of title or interest which is administrated the state of the company of the compa we insured hereunder of any claim of this or interest which is adwhe to the title to the estate or interest, as insured, and which might
dome loss or damage for which the Company may be liable by
who of this policy, or (iii) if title to the estate or interest, as
hard, is rejected as unmarketable. If such prompt notice shall
to be given to the Company, then as to such insured all liability of
the Company shall cease and terminate in regard to the matter of
the company shall cease and terminate in regard to the matter of when snall cease and terminate in regard to the matter states for which such prompt notice is required; provided, however, by failure to notify shall in no case prejudice the rights of any such stored under this policy unless the Company shall be prejudiced buch failure and then only to the extent of such prejudice.

- (c) The Company shall have the right at its own cost to institute and without undus delay prosecute any action or proceeding or to do any other act which in its opinion may be necessary or desirable to any other act which in its opinion may be necessary or desirable to establish the title to the estate of interest as insured, and the Company may take any appropriate action under the terms of this policy, whether or not it shall be liable thereunder, and shall not thereby concede liability or waive any provision of this policy.
- (d) Whenever the Company shall have brought any action or interposed a defense as required or permitted by the provisions of this policy, the Company may pursue any such litigation to final determination by a court of competent jurisdiction and expressly reserves the right, in its sole discretion, to appeal from any adverse judgment or order.
- (e) In all cases where this policy permits or requires the Company to prosecute or provide for the defense of any action or proceeding, the insured hereunder shall secure to the Company the right to so prosecute or provide defense in such action or proceeding, and all appeals therein, and permit the Company to use, at its option, the name of such insured for such purpose. Whenever requested by the Company, such insured shall give the Company all reasonable aid in any such action or proceeding, in effecting sentenent, securing evidence, obtaining witnesses, or prosecuting or defending such action or proceeding, and the Company shall reimburse such insured for any expense so incurred. expense so incurred.

4. NOTICE OF LOSS - LIMITATION OF ACTION

In addition to the notices required under paragraph 3(h) of these Conditions and Stipulations, a statement in writing of any loss or damage for which it is claimed the Company is liable under this policy shall be furnished to the Company within 90 days after such loss or damage shall have been determined and no right of action shall accrue to an insured claimant until 30 days ofter such statement shall have been furnished. Failure to furnish such statement of loss or damage shall terminate any liability of the Company under this policy as to such lost or damage.

OPTIONS TO PAY OR OTHERWISE SETTLE CLAIMS

The Company shall have the option to pay or otherwise settle for or in the name of an insured claimant any claim insured against or to terminate all liability and obligations of the Company haraunder by paying or tendering payment of the amount of insurance under this policy together with any costs, attorneys' fees and expenses incurred up to the time of such payment or tender of payment, by the insured claimant and authorized by the Company.

DETERMINATION AND PAYMENT OF LOSS

- (a) The liability of the Company under this policy shall in no case exceed the least of:
 - (i) the actual loss of the insured claimant; or
 - (ii) the amount of insurance stated in Schedule A.
- (b) The Company will pay, in addition to any loss insured against by this policy, all costs imposed upon an insured in litigation carried on by the Company for such insured, and all costs, attorneys' fees and expenses in litigation carried on by such insured with the written authorization of the Company.
- (c) When liability has been definitely fixed in accordance with the conditions of this policy, the loss or damage shall be payable within 30 days thereafter.

Conditions and Stipulations Continued Isside Cover

CONDITIONS AND STIPULATIONS

(Continued)

ATION OF LIABILITY

o claim shall arise or be maintainable under this policy (a) if the sain, after having received notice of an alleged defect, hen or or the insured against bereunder, by hingation of otherwise, removes then or encumbrance or establishes the title, at insured, within the time after receipt of such notice; this in the event of higgsition e has been a final determination by a court of competent being, and disposition of all appeals therefrom, adverse to the title, as all appealed in paragraph 3 hereof, or ter for liability voluntarily has an insured in settling any claim or and without prior written he an insured in self

PERUCTION OF LIABILITY

agments under this policy, except payments made for costs, fees and expenses, shall reduce the amount of the insurance proof payment shall be made without producing this police for seement of such payment unless the policy be lost or destroyed. In the proof of such loss or destruction shall be formshed to the on of the Company

MABILITY NONCUMULATIVE

48 28 4

expressly understood that the amount of insurance under this hall be reduced by any amount the Company may pay under any symmetric titles (a) a mortgage shown or referred to in Schedule B cof which is a hen on the estate or interest covered by this policy, or the page hereufter executed by an insured which is a charge of hen on the or interest described or referred to in Schedule A, and the so paid shall be dremed a payment under this policy. The state of the option to apply to the payment of any such stages any amount that otherwise would be payable becounder to the suggest any amount that otherwise would be payable becounder to the sopraid shall be deemed a payment under this policy to said towner. OWNER

1 - PPORTIONMENT

the land described in Schedule A consists of two or more parcels are not used as a single site, and a loss is established affecting one or of said parcels but not all, the toss shall be computed and settled on To rails basis as if the amount of insurance under this policy was divided as so the value on Date of Policy of each separate parcel to the exclusive of any improvements made subsequent to Date of Policy.

unless a liability or value has otherwise been agreed upon as to each such purcel by the Company and the insured at the time of the issuance of this holich and shown by an express statement percent on by an endorsement attached hereto

11. SUBROGATION UPON PAYMENT OR SETTLEMENT

Whenever the Company shall have settled a claim under this policy, all right of subrogation shall vest in the Company unaffected by any act of all right of suprogation shall yet in the company unstreeted by any act of the insured claimant. The Company shall be subregated to and be entitled to all rights and remedies which such insured claimant would have had against any person or property in respect to such claim had this policy not against any person or property in respect to such claim had this policy not been insued, and if requested by the Company, such insured claimant shall been insued, and if requested by the Company, such insured claimant shall property necessary in order to perfect such right of subriogation and shall permit the Company, to use the name of such insured claimant in any permit the Company, to use the name of such insured claimant in any transaction or litigation involving such rights or remedies. If the payment transaction or litigation involving such rights or remedies if the payment transaction or litigation involving such insured claimant, the Company, shall be subriogated to such rights and remedies in the proportion which said payment bears to the amount of said lies if loss should result from any set of such insured claimant, such act shall not you that part of any Company, in that event, shall be required to pay only that part of any Company, in that event, shall be required to pay only that part of any thoses insured against hereunder which shall exceed the amount, if any, lost to the Company by reason of the impairment of the right of subrogation

12. LIABILITY LIMITED TO THIS POLICY

This instrument together with all endorsements and other instruments, if any, attached hereto by the Company is the entire policy and contract between the insured and the Company

Any claim of loss or damage, whether or not based on negligence, and which arises out of the status of the title to the estate or interest enered hereby or any action asserting such claim, shall be restricted to the provisions and conditions and stipulations of this policy.

amendement of ar endorsement to this policy can be made except by writing endorsed herein or attached hereto signed by either the except by writing endorsed herein or attached hereto signed by either the President. 2 Vice President, the Secretary, an Assistant Secretary, or validating officer or authorized signatory of the Company

13. NOTICES, WHERE SENT

All notices required to be given the Company and any statement in writing required to be furnished the Company shall be addressed to in writing required to be furnished the Company shall be addressed to in writing required to be furnished the Company shall be addressed to in writing required to be furnished to company, 4683 Clabot Drive, Suite 100, Transamerica Title Insurance Company, 4683 Clabot Drive, Suite 100, Pleasanton, CA 94566.

American Land Title Association Owner's Policy - Form B - 1970 (Rev. 10-17-70) 🗁 эт Раде m 1005-85

Valid Only If Schedules A and B Are Attached

SCHEDULE A

Amount of Insurance: \$845,000.00

Policy No. 01-19-0858422A

Premium: \$ 1,508.00 657680

Date of Policy: March 13, 1991 at 3:19 P.M.

Order No. ---

1. Name of Insured:

BENENSON BELLEVUE ASSOCIATES L.P., A WASHINGTON LIMITED PARTNERSHIP

2. The estate or interest in the land described herein and which is covered by this policy is:

FEE SIMPLE ESTATE

3. The estate or interest referred to herein is at date of policy vested in:
THE NAMED INSURED

4. The land referred to in this policy is situated in the State of Washington. County of King, and is described as follows:

THAT PORTION OF THE SOUTHWEST 1/4 OF THE NORTHEAST 1/4 OF SECTION 32. TOWNSHIP 25 NORTH. RANGE 5 EAST. W.M.. DESCRIBED AS FOLLOWS:

BEGINNING AT THE STONE MONUMENT AT THE INTERSECTION OF THE CENTERLINES OF MAIN STREET WITH 108TH AVENUE NORTHEAST. SAID POINT BEING APPROXIMATELY 4.8 FEET NORTH OF THE TRUE CENTER OF SAID SECTION 32:

THENCE NORTH 00°05'55" EAST. MORE OR LESS, ALONG SAID CENTERLINE. 190.02 FEET: THENCE SOUTH 88°03'32" EAST. MORE OR LESS, PARALLEL WITH THE CENTERLINE OF MAIN STREET, 180.02 FEET;

THENCE SOUTH 00°05'55" WEST, MORE OR LESS, AND PARALLEL WITH THE CENTERLINE OF 108TH AVENUE NORTHEAST, 190.02 FEET TO SAID CENTERLINE OF MAIN STREET; THENCE NORTH 88°03'32" WEST, MORE OR LESS, 180.02 FEET TO THE POINT OF BEGINNING;

EXCEPT THE SOUTH 40 FEET THEREOF FOR MAIN STREET. AS ESTABLISHED IN VOLUME 5 OF ROAD DEEDS ON PAGE 199. AND BY DEED RECORDED UNDER RECORDING NO. 3212225:

AND EXCEPT THE WEST 30 FEET CONVEYED TO KING COUNTY FOR 108TH AVENUE N.E. BY DEED RECORDED UNDER RECORDING NO. 913178;

SITUATE IN THE CITY OF BELLEVUE, COUNTY OF KING, STATE OF WASHINGTON.

SCHEDULE B

whis policy does not insure against loss or damage (and the Company will not pay buts, attorneys' fees or expenses) which arise by reason of:

GENERAL EXCEPTIONS

Underground easements, servitudes or installations of which no notice is of record.

Water rights or matters relating thereto.

Mining claims, reservations or exceptions in Patents or in Acts authorizing the issuance thereof.

Right of use. control or regulation by the United States of America, in the exercise of powers over navigation.

General taxes not now payable: matters relating to special assessments and special levies, if any, preceding the same becoming a lien.

SPECIAL EXCEPTIONS

General taxes, as follows, together with interest, penalty and statutory foreclosure costs, if any, after delinquency:
 (1st half delinquent on May 1; 2nd half delinquent on November 1)

TAX ACCOUNT NO. YEAR AMOUNT BILLED AMOUNT PAID PRINCIPAL BALANCE 322505-9020-05 1991 \$6.962.67 \$.00 \$6.962.67 (Covers land of the property herein described)

322505-9020-88 1991 \$ 211.58 \$.00 \$ 211.58 (Covers improvements of the property herein described)

The levy code for the property herein described is 0330 for 1991.

2. UNDERGROUND UTILITY EASEMENT AND THE TERMS AND CONDITIONS THEREOF:

GRANTEE: PURPOSE: AREA AFFECTED: Puget Sound Power & Light Company Underground electric line The West 5 feet of the South 5 feet of the North 52 feet 5891231

RECORDING NO.:

Contains covenant prohibiting structures over said easement or other activity which might endanger the underground system.

085B422A

EASEMENT AND THE TERMS AND CONDITIONS THEREOF:

GRANTEE:
PURPOSE:

AREA AFFECTED:

The City of Bellevue, a municipal corporation Constructing, installing, reconstructing, replacing, repairing, maintaining, and operating one signal pole and all necessary connections and appurtenances. That portion of the Southwest 1/4 of the Northeast 1/4 of Section 32. Township 25 North, Range 5 East W.M., described as follows:

Beginning at the Southwest corner of said subdivision; thence North 00°05'42" East 40.02 feet along the West line of said subdivision; thence South 88°03'45" East 30.02 feet to the intersection of the North margin of Main Street and the East margin of 108th Avenue N.E.; thence North 00°05'42" East 6.00 feet along said East margin to the point of beginning of this description; thence continuing North 00°05'42" East 8.00 feet along said East margin; thence South 89°54'18" East 4.00 feet; thence South 89°54'18" West 8.00 feet; thence North 89°54'18" West 4.00 feet to the point of

beginning

August 25, 1986 September 25, 1986 8609250187

DATED: RECORDED: RECORDING NO.:

4. AGREEMENT AND THE TERMS AND CONDITIONS THEREOF:

BETWEEN:

AND:

DATED: RECORDED:

RECORDING NO.:

REGARDING:

Main Street Joint Venture

The Beneson Capital Company and Charles B.

Beneson

May 17, 1988 August 1, 1988

8808010089

Stipulated clarification of boundary

5. MATTERS SET FORTH BY UNRECORDED SURVEY:

SURVEYOR:

ENGINEERS:

JOB NO./NAME:

DATED:

DISCLOSES:

Richard Dickman #26252 Evans & Assoc. KOLX0046/Benson Bellevue February 19, 1991

a) Encroachments of curbing, signs, rockery and light poles into street right-of-way

b) Possible interest of parties in possession as evidenced by encroachments of catch basin storm drains and light pole bases for which no easements exist of record

0858422A

DEED OF TRUST AND THE TERMS AND CONDITIONS THEREOF:

GRANTOR:

TRUSTEE:

ADDRESS:

DATED:

RECORDED:

BENEFICIARY:

FORIGINAL AMOUNT:

RECORDING NO.:

Benenson Bellevue Associates L.P., a

Washington limited partnership

Transamerica Title Insurance Company, a

corporation

Main Street Joint Venture, a Washington joint

venture

19009 33rd Avenue W.

Lynnwood, WA 98036

\$286,002.23

March 13, 1991

March 13, 1991

9103130996

END OF EXCEPTIONS

0858422A

Indorsement

Attached To Policy No.

01-19-0858422A

Issued By

Transamerica Title Insurance Company

The Company assures the Insured that the land described in Schedule A is cortiguous to

see attached -

The Company herety insures said Insured against loss which said Insured shall sustain in the event that the assurance herein shall prove to be incorrect.

The total liability of the Company under said policy and any indorsements therein shall not exceed, in the aggregate, the face amount of said policy and costs which the Company is obligated under the Conditions and Stipulations thereof to pay.

This indersement is made a part of said policy and is subject to the Schedules. Conditions and Stipulations therein, except as modified by the provisions hereof.

Transamerica Title Insurance Company

Attest:

Feeling E. Funkli

March 13, 1991 Dated:

Countersigned

Authorized Signatory

Effective 10-8-75

MAR 30 '94 Ø4:13PM F P & S SEATTLE

DESCRIPTION:

THAT PORTION OF THE SOUTHWEST 1/4 OF THE NORTHEAST 1/4 OF SECTION 32.
TOWNSHIP 25 NORTH, RANGE 5 EAST W.M. DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT ON THE EAST MARGIN OF 108TH AVENUE NORTHEAST FROM WHICH THE POINT OF INTERSECTION OF THE SAID EAST MARGIN WITH THE ORIGINAL NORTH MARGIN OF MAIN STREET BEARS SOUTH CO "O5 "55" WEST, 150.00 FEET; THENCE NORTH 00"05'55" EAST, ALONG SAID EAST MARGIN. 397.78 FEET: THENCE SOUTH 88°03'32" EAST 309.39 FEET TO A POINT ON A LINE 647.66 FEET WESTERLY OF, WHEN MEASURED AT RIGHT ANGLES TO. THE EAST LINE OF THE WEST 3/4 SAID SOUTHWEST 1/4 OF THE NORTHEAST 1/4; OF THE SOUTH 1/2 OF THENCE NORTH 00°11'05" EAST 57.78 FEET: THENCE SOUTH 88°03'44" EAST 59.38 FEET: THENCE SOUTH 01°56'16" WEST 490.28 FEET; THENCE NORTH 85°03'32" WEST 120.00 FEET: SAID. NORTH MARGIN OF MAIN THENCE SOUTH 00°05'55" WEST 115.06 FEET TO STREET: THENCE NORTH 88°03'32" WEST, ALONG SAID NORTH MARGIN, 84.12 FEET: THENCE NORTH 00°05'55" EAST 150.00 FEET; THENCE NORTH 88°03'32" WEST 150.00 FEET TO THE POINT OF BEGINNING: EXCEPT THE SOUTH 10.00 FEET OF THAT PORTION THEREOF ADJOINING MAIN STREET, AS CONVEYED TO THE STATE OF WASHINGTON FOR ROAD PURPOSES BY DEED RECORDED DECEMBER 29. 1941 UNDER RECORDING NO. 3212225: ALL WITHOUT ANY STRIPS, GAPS OR GORES;

EXHIBIT D: Previous Investigations



STATE OF WASHINGTON

DEPARTMENT OF ECOLOGY

4350-150th Ave. N.E. • Redmond, Washington 98052-5301 • (206) 867-7000

December 28, 1990

Steve Schuller Environmental Engineer Chevron U.S.A., Inc. P.O. Box 220 Seattle, WA 98111

RE: Petroleum Contamination Remediation at Chevron SS #9-2581, 10812 Main Street, Bellevue WA.

Dear Mr. Schuller:

Thank you for providing the final clean-up report for the above referenced property.

Based on the information provided, proper procedures were followed regarding the tank removal and site remediation pursuant to federal and state regulations (40 CFR Part 280, and WAC 173-340, respectively).

Also based on the information provided, recommended clean-up standards were met or bettered after the remediation process. The clean-up standards are referenced in the proposed amendments 173-340-740.

Please call me at 867-7202 if you have any questions.

Sincerely,

Joseph M. Hickey

Toxics Clean-up Program

Site Inspector

JH/jh

FOSTER PEPPER & SHEFELMAN

A LAW PARTNERSHIP INCLUDING
PROFESSIONAL SERVICE CORPORATIONS



BELLEVUE. WASHINGTON OFFICE (206) 451-0500 TELECOPIER- (206) 455-5487 1111 THIRD AVENUE SUITE 3400 SEATTLE, WASHINGTON 98101 (206) 447-4400

PORTLAND, OREGON OFFICE (503) 221-0607 TELECOPIER: (503) 221-1510

DIRECT DIAL: (206) 447-8966

TELECOPIER: (206) 447-9700 (206) 447-9283

March 17, 1994

Mr. Mike Raftery
Turner Construction
601 Union Suite 400
Seattle, Washington 98101

Dear Mike:

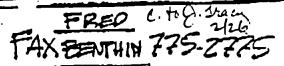
Pursuant to your request, here are two sets of copies of the Chevron environmental closure letters which we discussed: Dame & Moore Letters dated February 22, 1991 and December 21, 1990 and EA Engineering, Science and Technology dated February 15, 1991.

Sincerely,

Diane M. Istvan

DMI/daa Encls.

cc: Jennifer Fier
Jim Stifel
Dave Welch





500 MARKET PLACE TOWER 2025 FIRST AVENUE, SEATTLE, WASHINGTON 96121 (206) 728-0744

December 21, 1990

The Koll Company 11130 NE 33rd Place Bellevue, WA 98004-1448

Attention: Mr. James C. Mueller

Vice President, Development

Post-It brand fax transmittal r	memo 7671 e et pages +
Diane of otion	From tied Bonthy
Co.	FWQ
Dept.	Phone 775- (000)
455-5487	775-2775

Report Review

Closure of Chevron Station SS9-2581

Bellevue, Washington

Dear Mr. Mueller:

INTRODUCTION

Dames & Moore is pleased to present our letter report that summarizes the results of our review of the closure report prepared by EA Engineering, Science, and Technology and which presents our evaluation of potential regulatory liability posed to future site purchases.

The review and evaluation has been conducted in accordance with the scope of services contained in our proposal to the Koll Company dated November 30, 1990 and accepted on December 5, 1990.

PURPOSE AND SCOPE

The purpose of this project was to evaluate the regulatory liability posed to future station-site purchasers based on our review of the existing closure report. We have also commented on the report's conclusion and recommendation with respect to the data contained in the closure report.

FINDINGS AND CONCLUSIONS

Several data entry errors were identified on Tables 1 and 6; however, the errors do not adversely affect the conclusions of the closure report. The errors are noted on the copies of the tables that are attached to this letter. Based on the review of the geologic information for the site and the laboratory results of soil samples collected from the excavation pits in the areas of the gasoline tank field, pump islands/gasoline supply lines, and the heating and used oil tank field at this site, it appears that the petroleum contaminated soils that contained concentrations in excess of the proposed MTCA industrial soil clean up levels (July 18, 1990) were excavated and

C+002-9340-005\koi-1345.Fkp



The Koll Company December 21, 1990 Page 2

successfully remediated to concentrations below the MTCA clean up levels. The analytical results of soil samples collected from the remediated soils (which were used as backfill) were also below the MTCA clean up levels.

Figure 3 of the report (attached to this letter) indicates the presence of a waste oil sump, a stop and waste pit, and a heater. Drain lines appear to connect the waste oil tank to the waste oil sump and the fuel oil tank to the heater. The waste oil sump, the stop and waste pit, the heater, and associated drain lines were not included in the investigation of this site and do not appear to have been included in the limit of the excavations. These areas are most likely associated with the use of petroleum products. A potential exists that soils surrounding these areas may contain petroleum related compounds that exceed MTCA clean up levels.

If releases of petroleum products in excess of MTCA criteria have occurred from these units, future owners of the site could be subject to agency-mandated clean up costs.

We recommend that the waste oil sump, stop and waste pit, lines connecting waste oil sump and waste oil tank, and lines connecting the heater and fuel oil tank be assessed to evaluate potential hydrocarbon contamination in the soil surrounding these units.

CLOSING

Thank you for the opportunity to assist the Koll Company with this project. Please feel free to call us if you have any questions.

Very truly yours.

DAMES & MOORE

Gordon W. Shaffer Project Manager

Attachments

	! !
877 5589	2-26-91:12:00PM:
KOLL COMPANY	
	206 775 2775- F. P. & S. BELLEVOE: ". O

16/19

1 1251	251 30.1 13.6		EPA 8015			Era 80.0				
<u> 1.05atio</u> !!		Depih <u>fcel</u>	TPII PPM	Benzenc BMIL	Toluene ppiit	X ylenes RBIN	Ethylbenzese <u>Diun</u>	TP11 Driet		
oline Tant Field			N/D	N/D	N/D	N/D	N/D	N/A		
1.12	sidewall	9.0	N/D	N/D	N/D	N/D	N/D	N/A		
\$2. 1	sidewall	10.0	N/D	N/D	N/D	N/D	N/D	N/A		
53.1	sidewall	8.5	N/D	N/D	N/D	и\D	N/D	N/A		
54.1	sidewall	0.01	N/D	.029	N/D	0.035	N/D	N/A		
B1.1	hottoni	14.0	-	N/D	N/D	0.057	N/D	N/A		
1.50	twittom	14.0	N/D	0.051	N/D	0.047	0 039	N/A		
:03.1	bottom	16.0	N/D	0.20 8.252		0.62	0,15-0.13e	N/A		
FB4 1	hottom	16.0	N/D	N/D	N/D	N/D	M/D	N/A		
FB5.1	bottom	15.0	N/D	N/D	N/D	N/D	N/D	N/A		
57°86.1	bottom	15.0	N/D	14/0	14,5	. , .				
	444 4	N/A	310	0.43	6.1 4.1e	, 22.0	1.5	N/A		
;FFC1.1 (a)	fix (composite)	N/A	1700	5.6-4.69	37.0	120.0	17.0	N/A		
GFF1.1 (2) GFF1.2 (2)	(lif (discrete)	N/A		0.94	1.1	3.4	0.53	N/A		

Bokl typeface indicates values exceeding the MTCACR method A compliance levels for soils. Detection limits - TPH(8015)=5 ppm, Benzene=.025 ppm, Toluene=.025 ppm, Xylenes=.025 ppm,

Ethylbenzese=.625 ppm, TPH(418.1)=5 ppm

N/A - not analyzed

N/I) - not detected

a Material has been treated on site.

h' - Compliance sample

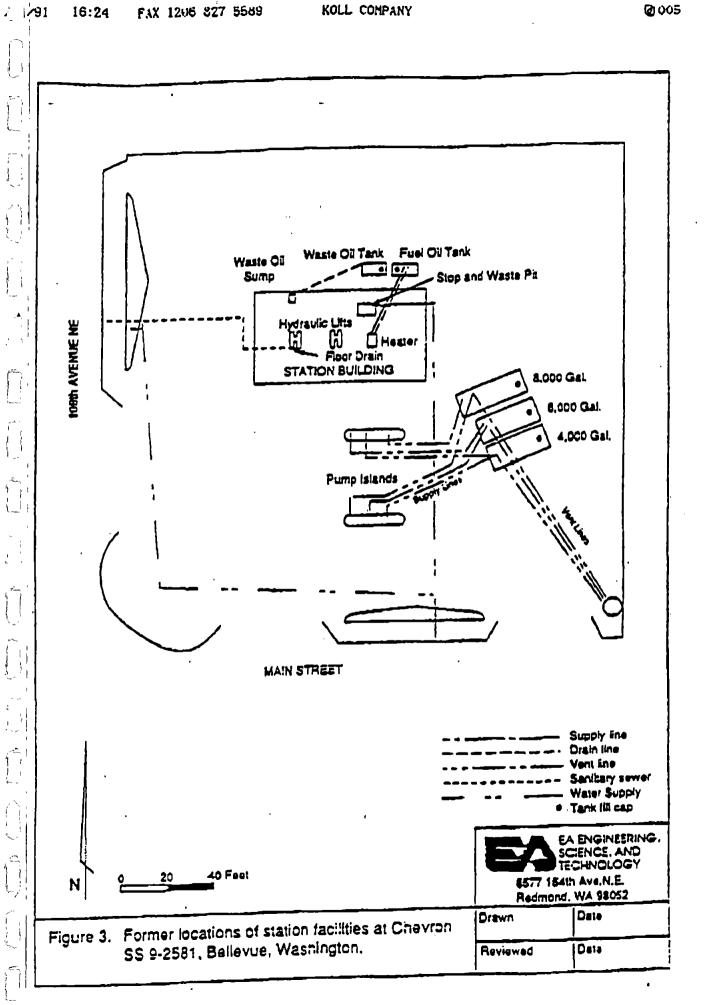
Boki typeface indicates values exceeding the MTCACR method A compliance levels for soils. Detection limits - '1711(8015)=5 ppm, Benzene=.025 ppm, Tuluene=.025 ppm, Xylenes=.025 ppm, Ethylbenzene=.025 ppm, TP11(418.1)=5 ppm

N/A - 1.DI Bealyzed

N/I) - not detected

2-26-91 : 12:00PM : _

2770



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15:48

500 MARKET PLACE TOWER, 2025 FIRST AVENUE, SEATTLE, WASHINGTON 98121 (20%) 725-0744

February 22, 1991

The Koll Company 11130 NE 33rd Place Bellevuc, WA 98004-1448

Attention:

Mr. James C. Mueller

FAX 1136 827 5589

Vice President, Development

Report Review Addendum Closure of Chevron Station SS9-2581 Bellevue, Washington

Dear Mr. Mueller:

Dames & Moore has reviewed the February 15, 1991 letter prepared by Mr. Kahn of E.A. Engineering Science and Technology (EA) further describing closure activities at former Chevron Service Station 9-2581 located at 108th Avenue N.E. and Main Street in Bellevue, Washington. Mr. Kahn's letter addresses three issues that Dames & Moore identified as potential areas of environmental concern:

- Used oil sump and associated drain line
- Fuel supply line to the heater
- Waste and stop pit

Mr. Kahn's letter states that no visual or instrumental (OVA) signs of leakage were observed when the drain line from the used oil sump was removed. Similarly, Mr. Kahn states that no obvious visual or instrumental evidence of leakage was observed when the fuel line to the heater was removed.

A composite sample of soil was collected from the used soil sump, heater fuel line and used oil tank excavations. The reported TPH concentration in the composite sample was 77 mg/kg which is below the State of Washington Model Toxics Control Act (MTCA) clean up criteria of 200 mg/kg for diesel and oil products.

Mr. Kahn states that the stop and waste pit was associated with the station's sanitary sewer system. He also states that it is EA's protocol to not sample beneath a stop and waste pit unless

DAMES & MOORE ADROTESTICNAL LIMITED PARTNERSHIP

pruary 22, 1991

bservations indicate that a leak has occurred. Therefore, while not explicitly stated, e no samples were collected it can be inferred that evidence of leaks from the stop and the pit were not observed.

sed on the data presented in EA's October 13, 1990 Report of Investigation for Chevron -2581 and on Mr. Kahn's letter of February 15, 1991 is Dames & Moore's opinion that the pility of significant petroleum contamination resulting from resulting from on-site rum releases is low.

rust that this adequately address the potential concerns identified in Dames & Moore's letter of December 21, 1990. Please feel free to contact me if you have any further questions.

Very truly yours,

DAMES & MOORE

Gordon W. Shaffer

Gordon W. Shaffer Project Manager

LA Nonthwest Operations 8577-154th Avenue, N.F. Redmond, WA 98952 Tokykone-2011-869-2194 Fat-205-819-2061



15 February 1991 80201.60 LN0195

Mr. Fred Benthin
First Western Development
P.O. Box 6363
Lynnwood, Washington 98036

Subject: Former Chevron 9-2581 intersection of 108th Avenue NE and Main St. Bellevuc, Washington

Dear Mr. Bonthin:

As you requested, I am writing to you to clarify what EA encountered during the closure of the above referenced site in the areas of the former used oil sump, the heating oil lines, and the stop and waste pit.

The used oil sump was built into the edge of the concrete building pad. When the heating oil and used oil tanks were uncovered, the line from the sump was ripped out. The pipe (a 2 inch diameter line) was rusty but intact with no evidence of leakage, i.e., no anomalous OVA scans, stains or discolored soils were observed in association with the pipe or sump removal. When the connection of the pipe to the sump was snapped, some residual oil in the pipe did leak out. The soil that absorbed the oil was excavated and stockpiled with the soils removed from the heating oil, used oil and sump areas. This soil was then sampled as part of the composite sample taken from the sump, heating oil and used oil tank fill material. The sample was called HFC1.1. Analytical results of HFC1.1 indicated that it contained 77 ppm (mg/kg) TPH by EPA method 418.1.

The lines to the furnace from the heating oil tank were also ripped out during tank excavation. Here again there were no obvious field indications either visually or with the OVA that indicated a leak had occurred. No discrete soil samples were collected from beneath the heating oil lines. The stop and waste pit is, to EA's knowledge, just a junction hox for individual sewer lines from the bathrooms to the lateral. It is not part of Chevron's or EA's closure protocol to sample beneath either fixture unless field observations indicate a leak has occurred. All samples collected comply with the Washington Administrative Code Chapter 173-360 and the Department of Ecology guidelines for site assessment at closure.

Our opinion, based on the above information and our report, is that analytical results and field observations indicate that there is no reason to believe that soil containing hydrocarbon levels above MTCACR action levels

I hope this addresses the concerns articulated by you and Mr. Schaesfer of Dames and Moore. If I can answer any other questions, please feel free to call me at your convenience.

Peter A. Kahh Senior Geologist

Sinceraly,

UST Program Manager/Northwest Operations

PAK/mp

cc: Steven Schuller - Chevron USA, Inc.

S P E C I A L P R O J E C T S D I V I S I O N

NORTHWEST

Turner Construction Company 601 Union Street Suite 400 Seattle, Washington 98101 Telephone (206) 623-1986

(206) 623-5237

TRANSMITTAL

Turner

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Office DEPOT Inc.

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OFFICE DEPOT 100 108TH AVE. N.E.

ASBESTOS HAZARD AND RISK ASSESSMENT

Office Depot Concord, California August 11, 1993

Survey Performed In Accordance With 40 CFR 763.86 CONSTRUCTION DEPT

Robert Smith
EPA Certified Building Inspector
Certification # 930202-17

Robert Smith

Prezant Associates, Inc. 711 6th Avenue North, Suite 200 Seattle, WA 98109 (206) 281-8858

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Viti	LABORATORY RESULTS	,		

SURVEY BACKGROUND

Survey Location:

100 108th Ave N.E., Beilevue WA

Survey Personnel:

Bobby Smith, AHERA Certified Building Inspector

#930202-17

Date of Survey:

August 11, 1993

At the request of Mr. Steve Spencer of Office Depot, a survey for asbestos containing materials (ACM) was conducted in portions of the building located at 100 108th Ave. N.E.

The purpose of the survey was to locate, inspect, and inventory visible asbestos containing materials. This survey focused on materials located in the areas of remodeling that are suspect of containing asbestos such as thermal systems insulation and tape, piping systems insulation, plaster and wallboard, linoleum type flooring, vinyl floor tile and mastic, attic insulation, ceiling tiles, siding, roofing, and window putty.

This survey was performed in accordance with 40 CFR 763.86. A copy of this survey is required to be on site at the time of asbestos removal, demolition, or renovation.

INTERPRETATION OF LABORATORY RESULTS

Examination of these samples was conducted for the presence of identifiable asbestos fibers using polarized light microscopy (PLM) with dispersion staining in accordance with U.S. EPA method 600/M4-82-020 as specified in 40 CFR Ch. I (1-1-87 edition) Pt 763, Subpt. F App. A, pages 293-299.

For samples containing more than one separable layer of materials, the report will include findings for each layer (labeled L-1 for layer one and L-2 for layer two, etc.) and a total percentage for the entire sample. The asbestos concentration in the sample is determined by visual estimation.

For those samples with asbestos concentrations between 1 and 10 percent based on visual estimation, the EPA recommends a procedure known as point counting (NESHAPS, 40 CFR Part 61). Point counting is a statistically more accurate means of quantification for samples with low concentrations of asbestos. If you would like us to further refine the concentration estimates of asbestos in these samples using point counting, please let us know.

Section II Summary of Findings

SUMMARY OF FINDINGS

There were ten suspect building materials sampled in the remodeling area at 100 108th Ave. N.E. Several of these materials were found to be asbestos-containing. These materials include three types of floor tiles with mastic and paper backing for rolled linoleum flooring.

The estimated removal costs for this asbestos containing building materials in the surveyed area is approximately \$12,2750.00.

Section III MATERIALS SUMMARY

MATERIALS SUMMARY

In accordance with the terms of our contract, all visible building materials located in the remodeling area were sampled for asbestos. Additionally, selective demolition of floors, walls, and ceilings was performed in order to locate those materials which were not visible. However, asbestos containing materials not identified may exist in the structure surveyed. Please advise your contractor or employees to proceed with caution in case previously unidentified asbestos containing materials are uncovered.

Thermal System insulation

Visible piping systems in the area surveyed was not insulated. An access hole was made in one area to determine if piping within the walls was insulated. No pipe insulation was found in the area of access.

HVAC Systems

No asbestos containing materials were found on the HVAC system in the area surveyed.

Ceilings and Walls

Wallboard was sampled in various locations of the surveyed area. None of the wallboard samples analyzed were found to contain asbestos.

2 by 4 suspended ceiling tiles were sampled in various locations, none of these samples were found to be asbestos containing.

Stucco type texturing material was sampled and no asbestos-containing materials were found.

Flooring

12 by 12 spotty beige vinyl floor tile and mastic was sampled. Both the tile and the mastic were found to be asbestos-containing. See Table - 1 for locations and quantities.

9 by 9 tan vinyl floor tile and mastic was sampled. Both the tile and the mastic were found to be asbestos-containing. See Table - 1 for locations and quantities.

12 by 12 brick print vinyl floor tile and mastic was sampled. Both the tile and the mastic were found to be asbestos-containing. See Table - 1 for locations and quantities.

12 by 12 gray vinyi floor tile and mastic was sampled. Both the tile and the mastic were found to be asbestos-containing. See Table - 1 for locations and quantities.

Tan rolled linoleum flooring was sampled and found to be asbestos-containing. See Table - 1 for locations and quantities.

Cove base material and its mastic were sampled with no asbestos-containing materials being found.

Asbestos containing floor tiles/sheeting and their mastics are required to be removed and disposed of in accordance with Washington State Regulations prior any demolition, renovation, or remodeling that would disturb this material.

Roofing Materials

The roofing material on this building was not sampled. If any work is to disturb this material, sampling is required prior to disturbance of this material.

TABLE - 1
Inventory of Asbestos Containing Materials
100 108th Ave. N.E.

Sample Number	Material Description	Location	Asbestos Content	Friability	Quantity	, ,
1-01	Mastic for Tan 9 by 9 tile	Storage and Under Carpet	10%	Non- friable	- 4,100 sq.ft.	
2-01	12 by 12 Brick Tile	Entry and Under Carpet	10%	Non- friable	10 sq.ft.	
3-01	Mastic for 12 by 12 Beige Tile	Storage Room	7%	Non- friable	320 sq.ft.	 -
4-01	Paper Backing on Rolled Floor	Rest Room	50%	Friable	80 sq.ft.	ī

Section IV Survey Limitations

ESTIMATED ASBESTOS REMOVAL COSTS

The estimated costs for removal of asbestos containing materials are located in Table - 2. These costs include the notification fees required by the regulatory agencies but do not include mobilization or demobilization costs. Cost estimates for the removal of asbestos are highly variable and are affected by many factors including seasonal variation, market conditions, and project constraints. All estimates include a contingency for hidden asbestos. Please keep in mind that the costs of abatement and quality of work can vary greatly from one contractor to another. These costs are also affected by the timing and scheduling of the removal.

TABLE - 2
Estimated Asbestos Removal Costs
100 108th Ave. N.E.

Material Description	Quantity	Unit Price	Total	
9 by 9 Tan Tile and Mastic	4,100 sq.ft.	\$2.50 sq.ft.	\$10,250.00	
12 by 12 Brick Print Tile	10 sq.ft.	\$2.50 sq.ft.	\$25.00	
12 by 12 Beige Tile and Mastic	320 sq.ft.	\$2.50 sq.ft.	\$800.00	
Paper Backing for Rolled Vinyl	80 sq.ft.	\$15.00 sq.ft.	\$1,200.00	
		Total Cost	\$12,275.00	

LIMITATIONS OF THIS SURVEY

Asbestos surveys are non-comprehensive by nature and subject to many limitations including those presented below. Our assessment has considered risks pertaining to asbestos. This survey was not designed to identify all potential concerns or eliminate all risk associated with transferring property title. Evaluation of other risks, such as toxic and hazardous substances in (or in contact with) soil and ground water, structural, electrical, mechanical, radon gas, slope stability, building settlement, moisture, or site drainage/flooding have not been included. No warranty, expressed or implied, is made.

The site visit consisted of a thorough visual walk-through of the buildings for the purpose of viewing and sampling potential asbestos containing materials. Prezant Associates is not responsible for materials which require destructive means to access, or materials which are hidden from sight, those materials hidden behind walls, or materials which cannot be found with reasonable diligence.

Prezant Associates, Inc. performed this survey in accordance with the generally accepted standards of care that exist in the industrial hygiene profession in Washington State at the time of this study. This Survey was performed in preparation for removal of asbestos containing materials in accordance with NESHAPS regulations.

Report Prepared By:

Bobby Smith

AHERA Building Inspector Prezant Associates, Inc.

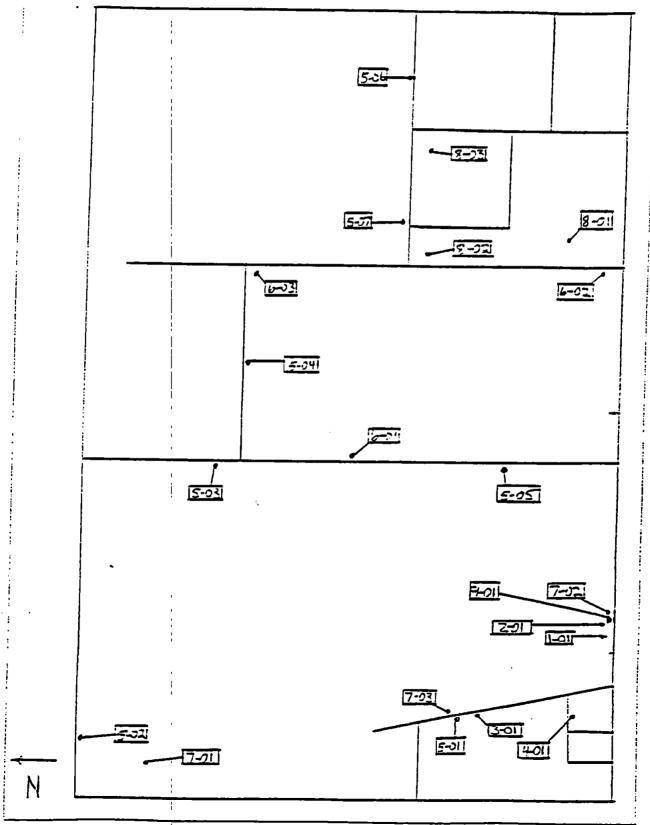
SECTION V. DRAWINGS



Prezant Associates, Inc. Environmental Health Sciences and Engineering

Project Office Deport 100 100 Ave N.F. Calculations for 1500-1 1000 1000

Job No. 109 - 500 1.50 Date 3-11-47 Made by



Section VI Contractor List

Contractor List

TLH Abatement 9221 Roosevelt Way N.E. Seattle, WA 98115 Ph. (206) 523-4441 Fax (206) 522-4099

Restec 12601 132nd Ave. N.E. Kirkland, WA 98034 Ph. (206) 867-1981 Fax (206) 869-0683

AA Contractors P.O. Box 80306 Seattle, WA 98108 Ph. (206) 628-0030 Fax (206) 628-0031

Perfomance Abatement Services 3201 13th S.W. Seattle, WA 98134 Ph. (206) 467-8733 Fax (206) 623-2091

Affordable Abatement P.O. Box 1572 Woodenville, WA 98072 Ph. (206) 485-4828 Fax (206) 774-3939



Training

Environmental Health Sciences, Inc. certifies that

Robert A. Smith

has successfully completed the AHERA Building Inspector Training in accordance with 40 CFR Part 763, Subpart E, Appendix C on this 10th day of February, 1993 in Bellevue, Washington.

Expires February 10, 1994

Paul w Jacks

930202-17

Section VIII LABORATORY RESULTS

BULK SAMPLE DATA SHEET - ASBESTOS

PAI Job Number: 93 - 1427.01

OFFICE DEPOT Client:

Number of samples: 14

RUSH

Address: 1635 Challenge Dr.

Concord, CA 94520

Attn: Mr. Steve Spencer

Project: 100 108th Ave. NE, Bellevue, WA

Project #: XXXXX

jample Location: 100 108th Ave. NE, Bellevue, WA

Sample #: 1 - 0 1

Lab #:9308226

Sample Description: L-1: Light brown vinyl, L-2: Black mastic.

DN-ASBESTOS NON-FIBROUS COMPONENTS

100% Vinvl/binder L-1 0 % Tar/binder L-2

TOTAL: >99 %

NON-ASBESTOS FIBROUS COMPONENTS %

No detectable fibers

TOTAL: ND

ASBESTOS FIBROUS COMPONENTS

10% Chrysotile L-2 TOTAL: <1 %

TOTAL ASBESTOS: <1

Robert Smith Sampled by: Munaf Khan Analyzed by:

of Prezant Associates, Inc.

Date: 08/11/93

Reviewed By: Munaf Khan

Date: 08/11/93

Munaf Khan, Laboratory Director

f samples are not homogeneous, then subsamples of the components were analyzed separately.

না bulk samples are analyzed using test method 40 CFR ch. I (1-1-87 edition) Pt 763, Subpt. F App. A, pages 293-299.

This report relates only to the items tested.

samples were not collected by Prezant Assoc. personnel, then accuracy of the results is limited by the methodology d acuity of the sample collector.

BULK SAMPLE DATA SHEET - ASBESTOS

MV[PD #1886

PAI Job Number: 93 - 1427.01

Client: OFFICE DEPOT

Number of samples: 14

RUSH

Address: 1635 Chailenge Dr.

Concord, CA 94520

Attn: Mr. Steve Spencer

Project: 100 108th Ave. NE, Bellevue, WA

Project #: XXXXX

Sample Location: 100 108th Ave. NE, Bellevue, WA

Sample #: 2 - 0 1

Lab #:9308231

Sample Description: Red vinyl.

NON-ASBESTOS NON-FIBROUS COMPONENTS

90% Vinyl/binder

TOTAL: 90 %

% NON-ASBESTOS FIBROUS COMPONENTS

No detectable fibers

TOTAL: ND %

% ASBESTOS FIBROUS COMPONENTS

10% Chrysotile

TOTAL: 10 %

TOTAL ASBESTOS: 10 %

Sampled by: Robert Smith
Analyzed by: Munaf Khan
Reviewed By: Munaf Khan

of Prezant Associates, Inc.

Date: 08/11/93 Date: 08/11/93

* Munaf Khan, Laboratory Director

All bulk samples are analyzed using test method 40 CFR ch. I (1-1-87 edition) Pt 763, Subpt. F App. A, pages 293-299. This report relates only to the items tested.

If samples were not collected by Prezent Assoc. personnel, then accuracy of the results is limited by the methodology and acuity of the sample collector.

^{*} If samples are not homogeneous, then subsamples of the components were analyzed separately.

BULK SAMPLE DATA SHEET - ASBESTOS

PAI Job Number: 93 - 1427.01

OFFICE DEPOT Client:

Number of samples: 14

Address: 1635 Challenge Dr.

RUSH

Concord. CA 94520

Attn: Mr. Steve Spencer

Project: 100 108th Ave. NE, Bellevue, WA

Project #: XXXXX

Sample Location: 100 108th Ave. NE. Bellevue, WA

Sample #: 3 - 0 1

Lab #: 9308232

Sample Description: L-1: White vinyl, L-2: Black mastic.

VON-ASBESTOS NON-FIBROUS COMPONENTS

100% Vinvi/binder L-1 93% Tar/binder

TOTAL: >99 %

NON-ASBESTOS FIBROUS COMPONENTS

No detectable fibers

TOTAL:_ND %

% ASBESTOS FIBROUS COMPONENTS

7 % Chrysotile TOTAL: <1 %

TOTAL ASBESTOS: <1

Robert Smith Sampled by: Analyzed by: Munaf Khan

Reviewed By: Munaf Khan

of Prezant Associates. Inc.

> Date: 08/11/93

Date: 08/11/93 Munaf Khan, Laboratory Director

if samples are not homogeneous, then subsamples of the components were analyzed separately.

Hill bulk samples are analyzed using test method 40 CFR ch. I (1-1-87 edition) Pt 763, Subpt. F App. A, pages 293-299. This report relates only to the items tested.

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BULK SAMPLE DATA SHEET - ASBESTOS

#1886

PAI Job Number: 93 - 1427.01

OFFICE DEPOT Client:

Number of samples: 14

RUSH

Address: 1635 Chailenge Dr. Concord. CA 94520

Attn: Mr. Steve Spencer

Project: 100 108th Ave. NE, Bellevue, WA

Project #: XXXXX

Sample Location: 100 108th Ave. NE, Bellevue, WA

Sample #: 4 - 0 1

Lab #:9308235

Sample Description: L-1: Beige/grey vinyl, L-2: Paper backing.

NON-ASBESTOS NON-FIBROUS COMPONENTS

100% Vinvi/binder L-1

30% Fine particles/binder TOTAL: 65 %

NON-ASBESTOS FIBROUS COMPONENTS

Cellulose fibers 20%

TOTAL: 10 %

% ASBESTOS FIBROUS COMPONENTS

50% Chrysotile L-2 TOTAL: 25 %

TOTAL ASBESTOS: 25

Robert Smith Sampled by: Analyzed by:

of Prezant Associates, Inc.

Munaf Khan

Date: 08/11/93

Reviewed By: Munaf Khan Date: 08/11/93

Munaf Khan, Laboratory Director

All bulk samples are analyzed using test method 40 CFR ch. I (1-1-87 edition) Pt 763, Subpt. F App. A, pages 293-299. This report relates only to the items tested.

^{*} If samples are not homogeneous, then subsamples of the components were analyzed separately.

If samples were not collected by Prezant Assoc. personnel, then accuracy of the results is limited by the methodology and acuity of the sample collector.

Analyses are cross-checked with other technicians in-house and other laboratories for quality assurance and verification.

BULK SAMPLE DATA SHEET - ASBESTOS

PAI Job Number: 93 - 1427.01

OFFICE DEPOT Client:

Number of samples: 14

RUSH

Concord, CA 94520

Address: 1635 Challenge Dr.

Attn: Mr. Steve Spencer

Project: 100 108th Ave. NE, Bellevue, WA

Project #: XXXXX

Sample Location: 100 108th Ave. NE, Bellevue, WA

Sample #: 5 - 0 1

Lab #:9308236

Sample Description: L-1: Paper with white matrix, L-2: Beige fibrous matrix.

ION-ASBESTOS NON-FIBROUS COMPONENTS

3'0 % Fine particles/binder L-1

Gypsum/binder L-2

~ 0 %

TOTAL: 60 %

NON-ASBESTOS FIBROUS COMPONENTS

0% Cellulose fibers

0% Glass fibers L-2 TOTAL: 40 %

ASBESTOS FIBROUS COMPONENTS

No detectable asbestos

TOTAL: ND %

TOTAL ASBESTOS: ND

Sampled by:

Robert Smith

of

Prezant Associates, Inc.

Analyzed by: Munaf Khan

Date: 08/11/93

Reviewed By: Munaf Khan

Date: 08/11/93

Munaf Khan, Laboratory Director

isamples are not homogeneous, then subsamples of the components were analyzed separately.

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BULK SAMPLE DATA SHEET - ASBESTOS

#1886

PAI Job Number: 9 3 - 1427.01

OFFICE DEPOT Client:

Number of samples: 14

RUSH

Address: 1635 Challenge Dr.

Concord, CA 94520

Attn: Mr. Steve Spencer

Project: 100 108th Ave. NE, Bellevue, WA

Project #: XXXXX

Sample Location: 100 108th Ave. NE, Bellevue, WA

Sample #: 5 - 0 2

Lab #:9308237

Sample Description: L-1: Paper with white matrix, L-2: Beige fibrous matrix.

NON-ASBESTOS NON-FIBROUS COMPONENTS

30% Fine particles/binder L-1

70% Gypsum/binder L-2 TOTAL: 60 %

% NON-ASBESTOS FIBROUS COMPONENTS

Cellulose fibers 70%

30% Glass fibers TOTAL: 40 %

ASBESTOS FIBROUS COMPONENTS

No detectable asbestos

TOTAL: ND %

TOTAL ASBESTOS: ND

Sampled by:

Robert Smith

of

Prezant Associates, Inc.

Analyzed by: Munaf Khan Reviewed By: Munaf Khan

Date: 08/11/93

Date: 08/11/93

Munaf Khan, Laboratory Director

All bulk samples are analyzed using test method 40 CFR ch. ! (1-1-87 edition) Pt 763, Subpt. F App. A, pages 293-299. This report relates only to the items tested.

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Analyses are cross-checked with other technicians in-house and other laboratories for quality assurance and verification.

BULK SAMPLE DATA SHEET - ASBESTOS

PAI Job Number: 93 - 1427.01

Client:

OFFICE DEPOT

Number of samples: 14

Address:

1635 Challenge Dr.

RUSH

Concord. CA 94520

Attn: Mr. Steve Spencer

Project: 100 108th Ave. NE, Believue, WA

Project #: XXXXX

lample Location: 100 108th Ave. NE, Bellevue, WA

Sample #: 5 - 0 3

Lab #:9308238

Description: L-1: Paper with white matrix, L-2: Beige fibrous matrix. Sample

ON-ASBESTOS NON-FIBROUS COMPONENTS

30% Fine particles/binder

0% Gypsum/binder L-2 TOTAL: 60 %

NON-ASSESTOS FIBROUS COMPONENTS

Callulose fibers 0 %

Glass fibers 0 %

TOTAL: 40 %

ASBESTOS FIBROUS COMPONENTS

No detectable asbestos

TOTAL: ND %

TOTAL ASBESTOS: ND

Robert Smith Sampled by: Analyzed by:

Reviewed Bv:

of

Prezant Associates, Inc.

08/11/93

Munaf Khan Munaf Khan

Date: 08/11/93

Munaf Khan, Laboratory Director

Date:

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BULK SAMPLE DATA SHEET - ASBESTOS

#1886

PAI Job Number: 93 - 1427.01

Client: OFFICE DEPOT Number of samples: 14

RUSH

Address: 1635 Challenge Dr.

Concord. CA 94520

Attn: Mr. Steve Spencer

Project: 100 108th Ave. NE. Bellevue. WA

Project #: XXXXX

Sample Location: 100 108th Ave. NE, Bellevue, WA

Sample #: 5 - 0 5

Lab #:9308240

Sample Description: L-1: Paper with white matrix, L-2: Beige fibrous matrix.

NON-ASBESTOS NON-FIBROUS COMPONENTS

30% Fine particles/binder L-1

70% Gypsum/binder L-2 TOTAL: 60 %

NON-ASBESTOS FIBROUS COMPONENTS %

70% Cellulose fibers

30% Glass fibers TOTAL: 40 %

% ASBESTOS FIBROUS COMPONENTS

No detectable asbestos

TOTAL: ND %

TOTAL ASBESTOS: ND

Sampled by:

Robert Smith

of Prezant Associates, Inc.

Analyzed by: Munaf Khan Date: 08/11/93

Reviewed By: Munaf Khan

Date: 08/11/93

Munaf Khan, Laboratory Director

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BULK SAMPLE DATA SHEET - ASBESTOS

PAI Job Number: 93 - 1427.01

OFFICE DEPOT Client:

Number of samples: 14

RUSH

Address: 1635 Challenge Dr.

Concord, CA 94520

Attn: Mr. Steve Spencer

Project: 100 108th Ave. NE, Bellevue, WA

Project #: XXXXX

Sample Location: 100 108th Ave. NE. Bellevue. WA

Sample #: 5 - 0 6

Lab #:9308241

Sample Description: L-1: Paper with white matrix, L-2: Beige fibrous matrix.

ION-ASBESTOS NON-FIBROUS COMPONENTS

30% Fine particles/binder L-1

'0% Gypsum/binder L-2 TOTAL: 50 %

NON-ASBESTOS FIBROUS COMPONENTS

-0% Cellulose fibers L-1

0 % Giase fibers L-2 TOTAL: 50 %

% ASBESTOS FIBROUS COMPONENTS

No detectable asbestos

TOTAL: ND %

TOTAL ASBESTOS:

Sampled by: Robert Smith Analyzed by:

of

Prezant Associates, Inc.

Munaf Khan

Date: 08/11/93

Reviewed By: Munaf Khan Date: 08/11/93

Munaf Khan, Laboratory Director

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BULK SAMPLE DATA SHEET - ASBESTOS

#1886

PAI Job Number: 93 - 1427.01

Number of samples: 14

RUSH

OFFICE DEPOT Client:

Address: 1635 Challenge Dr.

Concord, CA 94520 Attn: Mr. Steve Spencer

Project: 100 108th Ave. NE, Bellevue, WA

Project #: XXXXX

Sample Location: 100 108th Ave. NE, Bellevue, WA

Sample #: 5 - 0 7

Lab #:9308242

Sample Description: L-1: Paper with white matrix, L-2: Beige fibrous matrix.

NON-ASBESTOS NON-FIBROUS COMPONENTS

Fine particles/binder L-1 30%

70% Gypsum/binder L-2 TOTAL:_60 %

NON-ASBESTOS FIBROUS COMPONENTS

70% Cellulose fibers

30% Glass fibers L-2 TOTAL: 40 %

ASBESTOS FIBROUS COMPONENTS

No detectable asbestos

Munaf Khan

TOTAL: ND

TOTAL ASBESTOS: ND

Robert Smith Sampled by: Munaf Khan Analyzed by:

Reviewed By:

of

Prezant Associates, Inc.

Date: 08/11/93

Date: 08/11/93 Munaf Khan, Laboratory Director

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BULK SAMPLE DATA SHEET - ASBESTOS

NV[AP #1886

PAI Job Number: 93 - 1427 01

Number of samples: 14

RUSH

Client: OFFICE DEPOT

Address: 1635 Challenge Dr.

Concord, CA 94520

Attn: Mr. Steve Spencer

Project: 100 108th Ave. NE, Bellevue, WA

Project #: xxxxx

Sample Location: 100 108th Ave. NE, Bellevue, WA

Sample #: 6 - 0 1

Lab #:9308243

Sample Description: White matrix.

ION-ASBESTOS NON-FIBROUS COMPONENTS

97% Fine particles/binder

TOTAL: 97 %

NON-ASBESTOS FIBROUS COMPONENTS

6 Callulose fibers

TOTAL: 3 %

ASBESTOS FIBROUS COMPONENTS

No detectable asbestos

TOTAL: ND %

TOTAL ASBESTOS: N

ND %

Sampled by: Rober

Robert Smith

of Prezant Associates, Inc.

Analyzed by: Munaf Khan Reviewed By: Munaf Khan

Date: 08/11/93

Date: 08/11/93

Munaf Khan, Laboratory Director

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BULK SAMPLE DATA SHEET - ASBESTOS

#1886

PAI Job Number: 93 - 1427.01

Number of samples: 14

RUSH

Client:

OFFICE DEPOT

Address: 1635 Challenge Dr.

Concord, CA 94520

Attn: Mr. Steve Spencer

Project: 100 108th Ave. NE, Beilevue, WA

Project #: XXXXX

Sample Location: 100 108th Ave. NE, Bellevue, WA

Sample #: 6 - 0 2

Lab #: 9308244

Sample Description: White matrix.

NON-ASBESTOS NON-FIBROUS COMPONENTS

particles/binder 96% Fine

TOTAL: 96 %

NON-ASBESTOS FIBROUS COMPONENTS %

Cellulose fibers 4 %

TOTAL:

ASBESTOS FIBROUS COMPONENTS

No detectable asbestos

TOTAL: ND

ND TOTAL ASBESTOS:

Robert Smith Sampled by: Munaf Khan Analyzed by:

Reviewed By: Munaf Khan

of

Prezant Associates, Inc.

Date: 08/11/93

Date: 08/11/93

Munaf Khan, Laboratory Director

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BULK SAMPLE DATA SHEET - ASBESTOS

PAI Job Number: 93 - 1427.01

Number of samples: 14

RUSH

OFFICE DEPOT Client:

Address: 1635 Chailenge Dr.

Concord, CA 94520 Attn: Mr. Steve Spencer

Project: 100 108th Ave. NE, Bellevue, WA

Project #: XXXXX

Location: 100 108th Ave. NE, Bellevue, WA

Sample #: 6 - 03

Lab #:9308245

Description: White matrix with paper. Sample

ON-ASBESTOS NON-FIBROUS COMPONENTS

85% Fine particles/binder TOTAL: 85 %

NON-ASBESTOS FIBROUS COMPONENTS

5 % Callulose fibers TOTAL: 15 %

ASBESTOS FIBROUS COMPONENTS

No detectable asbestos

TOTAL: ND %

TOTAL ASBESTOS:

ND

Robert Smith Sampled by: Analyzed by:

Reviewed By:

Munaf Khan Munaf Khan

Prezant Associates, Inc. of

Date: 08/11/93

Date: 08/11/93 Munaf Khan, Laboratory Director

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BULK SAMPLE DATA SHEET - ASBESTOS

#1886

PAI Job Number: 93 - 1427.02

OFFICE DEPOT Client:

Number of samples:

RUSH

Address: 1635 Challange Dr. Concord, CA | 94520

Attn: Mr. Steve Spencer

Project: 100 108th Ave. NE, Bellevue, WA

Project #: XXXX

Sample Location: 100 108th Ave. NE. Bellevue, WA

Sample #: 7 - 02

Lab #:9308247

Description: Brown mastic. Sample

NON-ASBESTOS NON-FIBROUS COMPONENTS

TOTAL: 97 %

17% Fine grains

Mastic/binder 80%

NON-ASBESTOS FIBROUS COMPONENTS %

TOTAL: 3 %

3 % Cellulose fibers

% ASBESTOS FIBROUS COMPONENTS

No detectable asbestos

TOTAL:_ND

ND **TOTAL ASBESTOS:**

Robert Smith Sampled by: Munaf Khan Anaivzed by:

Reviewed By: Munaf Khan

Prezant Associates, Inc. of

Date: 08/11/93

Date: 08/11/93

Munaf Khan, Laboratory Director

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BULK SAMPLE DATA SHEET - ASBESTOS

PAI Job Number: 93 - 1427.02

Number of samples:

RUSH

OFFICE DEPOT Client:

Address: 1635 Challange Dr.

Concord, CA 94520

Attn: Mr. Steve Spencer

Project: 100 108th Ave. NE. Bellevue. WA

Project #: XXXX

ample Location: 100 108th Ave. NE. Bellevue. WA

Sample #: 8 - 0 1

Lab #: 9308249

Sample Description: Beige fibrous matrix.

IN-ASBESTOS NON-FIBROUS COMPONENTS

Parlita

25%

°5% Fine particles/binder TOTAL: 50 %

NON-ASBESTOS FIBROUS COMPONENTS

Cellulose fibers

1% Glass fibers TOTAL: 50 %

ASBESTOS FIBROUS COMPONENTS

No detectable asbestos

TOTAL: ND %

TOTAL ASBESTOS: ND

- ampled by:

Robert Smith

of

Prezant Associates, Inc.

Munaf Khan natyzed by: Heviewed By: Munaf Khan

Date: 08/11/93

Date:

08/11/93

Munaf Khan, Laboratory Director

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BULK SAMPLE DATA SHEET - ASBESTOS

#1886

Number of samples:

RUSH

PAI Job Number: 93 - 1427.02

Client:

OFFICE DEPOT

Address: 1635 Challange Dr.

Concord, CA 94520

Attn: Mr. Steve Spencer

Project: 100 108th Ave. NE. Bellevue. WA

Project #: XXXX

Sample Location: 100 108th Ave. NE, Bellevue, WA

Sample #: 8 - 0 2

Lab #:9308250

Sample Description: Beige fibrous matrix.

NON-ASBESTOS NON-FIBROUS COMPONENTS

25% Perlite

25% Fine particles/binder TOTAL: 50 %

NON-ASBESTOS FIBROUS COMPONENTS

30% Cellulose fibers

20% Glass fibers TOTAL: 50 %

% ASBESTOS FIBROUS COMPONENTS

No detectable asbestos

TOTAL: ND %

TOTAL ASBESTOS: ND

Robert Smith Sampled by: Munaf Khan inalyzed by:

eviewed By: Munaf Khan of

Prezant Associates, Inc.

Date: 08/11/93

Date:

08/11/93

Munat Khan, Laboratory Director

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BULK SAMPLE DATA SHEET - ASBESTOS

PAI Job Number: 93 - 1427.02

OFFICE DEPOT Client:

Number of samples:

RUSH

Address: 1635 Challange Dr.

Concord, CA 94520 Attn: Mr. Steve Spencer

Project: 100 108th Ave. NE. Beilevue. WA

Project #: XXXX

Sample Location: 100 108th Ave. NE, Bellevue, WA

Sample #: 8 - 03

Lab #:9308251

Sample Description: Beige fibrous matrix.

4ON-ASBESTOS NON-FIBROUS COMPONENTS

25% Parlite

25% Fine particles/binder TOTAL: 50 %

NON-ASBESTOS FIBROUS COMPONENTS

30% Ceilulose fibers

0% Glass fibers TOTAL: 50

ASBESTOS FIBROUS COMPONENTS

No detectable asbestos

TOTAL: ND

TOTAL ASBESTOS: ND

Sampled by: Analyzed by: Robert Smith

of Prezant Associates, Inc.

Munaf Khan

Date: 08/11/93

Reviewed By: Munaf Khan

Date: 08/11/93

Munaf Khan, Laboratory Director

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BULK SAMPLE DATA SHEET - ASBESTOS

NV[AP #1886

PAI Job Number: 93 - 1427.0

Number of samples:

or ouriples.

RUSH

OFFICE DEPOT

Address: 1635 Challange Dr.

Concord, CA 94520

Attn: Mr. Steve Spencer

Project: 100 108th Ave. NE, Bellevue, WA

Project #: XXXX

Client:

Sample Location: 100 108th Ave. NE, Bellevue, WA

Sample #: 9 - 0 1

Lab #:9308252

Sample Description: White matrix.

NON-ASBESTOS NON-FIBROUS COMPONENTS

85% Fine particles/binder

TOTAL: 85 %

% NON-ASBESTOS FIBROUS COMPONENTS

15% Cellulose fibers

TOTAL: 15 %

% ASBESTOS FIBROUS COMPONENTS

No detectable asbestos

TOTAL: ND %

TOTAL ASBESTOS: ND .

Sampled by: Robert

Robert Smith

of Prezant Associates, Inc.

Analyzed by: Munaf Khan

Date: 08/11/93

Reviewed By: Munaf Khan

Date: 08/11/93

* Munaf Khan, Laboratory Director

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BULK SAMPLE DATA SHEET - ASBESTOS

PAI Job Number: 93 - 1427.02

OFFICE DEPOT Client:

Number of samples:

Address: 1635 Challange Dr.

RUSH

Concord, CA 94520 Attn: Mr. Steve Spencer

Project: 100 108th Ave. NE. Bellevue, WA

Project #: XXXX

ample Location: 100 108th Ave. NE, Bellevue, WA

Sample #: 10-01

Lab #: 9308253

Sample Description: L-1: Grey vinyl, L-2: Black mastic.

ON-ASBESTOS NON-FIBROUS COMPONENTS

TOTAL: >99 %

100% Vinyl/binder L-1 15% Tar/binder

NON-ASBESTOS FIBROUS COMPONENTS

TOTAL: 51 %

Cellulose fibers

ASBESTOS FIBROUS COMPONENTS

No detectable asbestos

TOTAL: ND

TOTAL ASBESTOS: ND

Robert Smith Sampled by: Munaf Khan Analyzed by:

Prezant Associates, Inc. of

Date: 08/11/93

Reviewed By: Munaf Khan Date: 08/11/93

Munaf Khan, Laboratory Director

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January 12, 1994

Via Regular Mail

Turner Construction Company 601 Union Street, Suite 400 Seattle, Washington 98101

Attn: Mr. Scott Holbrook

Senior Project Manager

Re: Asbestos Building Inspection

Revised report to Jennylu 94 to Jennylu 94 Toped to Holling Toped the Holling Portions of Office Depot, Former Ernst and Dry Cleaners Building

SE Corner of 108th and Main Street

Bellevue, Washington

Dear Mr. Holbrook:

Environmental Management Resources, Inc. (EMR) is pleased to submit this letter report summarizing our "good faith" ashestos building inspection for the subject property. This report was written for Turner Construction on behalf of Benenson Bellevue Associates II, a limited partnership, of New York City, New York to identify potential asbestos containing material (ACM) in order to fulfill requirements of Puget Sound Air Pollution Control Agency's (PSAPCA's) building demolition permit.

The following information summarizes the activities of the asbestos building inspection, assessment, and report process. The text and table summary portion of this report includes a listing of the buildings and areas inspected, procedures for data collection and assessment, sample analysis procedures, sample results, listing of ACM, listing of inspection findings, management objectives, and response actions/recommendations.

Attachment A includes information on asbestos history and health effects; Attachment B a summary of current Puget Sound Air Pollution Control Agency (PSAPCA) regulations and forms; Attachment C a summary of definitions for terms used in this report; Attachment D includes ashestos certifications; and Attachment E, the complete building inspection information-packet. The packet includes building description information, details of the building construction materials, inventory of suspect ACM, list of materials sampled, map identifying building and sample locations, laboratory analysis of all samples and chain of custody documents.-

Introduction

Environmental Management Resources, Inc. represented by Mr. David L. Welch, certified asbestos inspector, conducted an asbestos building inspection at the former Ernst store, the former dry cleaners , and west portion of the Office Depot store located at the SE corner of 108th Avenue and Main Street in Bellevue, Washington on December 14, 1993.

EMR was directed to inspect the buildings for suspect materials with the potential of being ACM. A physical assessment was conducted of each ACM as to its condition and level of damage with potential for release of asbestos fibers. Suspect materials were sampled and analyzed following the EPA "Asbestos Hazard Emergency Response Act" (AHERA) sampling protocol. Samples were submitted to an EPA -NAVLAP environmental laboratory and analyzed using the Polarized Light Microscopy (PLM) method to determine asbestos content. A total of 15 samples were submitted for analysis as part of the development of this asbestos building inspection report.

The following information summarizes the findings of the asbestos building inspection. The buildings and materials found to contain ACM are as follows:

Type of Material	Sample I.D. (s)	Area Description	% Asbestos
Roofing Tar/Paper	BEL-ODC-02	Entire roof of former Ernst, dry cleaners, and western portion of Office Depot	5-10% Chrysotile
Transite Wallboard	BEL-ODC-03	Interior dry cleaners on east side	65% Chrysotile
Spray-On Ceiling	BEL-ODC-04	Throughout dry cleaners	10% Chrysotile
9" Floor Tile/Mastic	BEL-ODC-05 & 11	North 3/4 of dry cleaners	2-3% Chrysotile
12" Floor Tile/Mastic	BEL-ODC-06, 12 & 13	South 1/4 of dry cleaners, west Office Depot storage	2-3% Chrysotile

Procedures

The facility and asbestos building inspections were conducted by the following EMR personnel:

Mr. David L. Welch, Ashestos Inspector Environmental Management Resources, Inc. 2509 152nd Avenue NE, Suite B Redmond, WA 98052-5551 Ph 206-861-4561

ASBESTOS CERTIFICATIONS

D. L. Welch

Inspector - EPA # 930310-08

The asbestos building inspection included the inspection of all accessible areas of the facility that could contain potential ACM. A pre-inspection walk-through was conducted to inventory the building materials of the facility buildings and identify the suspect ACM and homogeneous areas.

A homogeneous area is defined as an area of surfacing material, thermal material, or miscellaneous material that is uniform in color and texture, and appears identical in every aspect including installation date. One bulk sample was collected from each homogeneous area identified as suspect ACM.

Sample Collection

AHERA protocol was followed for sample collection throughout the facility. One (1) sample was collected from each homogeneous area and a determination was made by the inspector, if he considered additional samples needed to be taken over the verification samples in order to assure adequacy of coverage.

Samples of suspect ACM were collected from homogeneous areas. During the sampling phase, the material was quantified and a physical assessment was conducted.

Physical Assessment

The physical assessment identified the existing condition of the material and the potential areas that would contribute to the spread of asbestos contamination. The physical assessment included evaluating several factors consistent with AHERA guidelines.

- 1. Visible Material: is the suspect ACM immediately visible?
- 2. Accessibility: degree to which the material can be easily reached by the general building occupants?
- 3. Friability: can it be crushed by normal hand pressure?
- 4. Barriers: are there barriers that preclude casual contact?
- 5. Ventilation: is the material part of air stream or supply?
- 6. Physical Condition: the quantity and extent of visible damage?
- 7. Potential for Damage: exposure to damage by above considerations?

Material - Condition Classification

The building inspector classified the confirmed ACM into one of the following AHERA condition classifications. The condition classification was used to assist the management planner in evaluating the hazard associated with each ACM, and will assist the client in identifying appropriate response actions.

Surfacing and Miscellaneous Materials

Significantly Damaged Condition - Material with one or more of the following characteristics:

- 1. Surface crumbling or blistered over <u>at least</u> one tenth of the surface if the damage is evenly distributed (one quarter, if the damage is localized).
- 2. One tenth (one quarter, if localized) of material hanging from surface, deteriorated, or showing adhesive failure.
- 3. Water stains, gouges, or mars over at least one tenth of the surface if the damage is evenly distributed (one quarter if the damage is localized). Accumulation of powder, dust, or debris similar in appearance to the suspect material on surfaces beneath the material can be used as confirmatory evidence.

<u>Damaged Condition (poor condition)</u> - material with the following characteristics:

1. The surface crumbling, blistered, water-stained, gouged, marred or otherwise abraded over <u>less</u> than one tenth of the surface if the damage is evenly distributed, (one quarter, if the damage is localized). Accumulation of powder, dust, or debris similar in appearance to the suspect material on the surfaces beneath the material can be used as confirmatory evidence.

Good Condition - material with no visible damage or deterioration, or showing only very little damage or deterioration.

Thermal System Insulation

Significantly damaged condition - material with one or more of the following:

- 1. Missing jackets on at least on tenth of the piping or equipment.
- 2. Crushed or heavily gouged or punctured insulation an <u>at least</u> on tenth of pipe runs/risers, boilers, tank, duct, etc. if the damage is evenly distributed (one quarter, if the damage is localized). Accumulation of powder, dust, or debris similar in appearance to the suspect material on surfaces beneath the pipe/boiler, etc., can be used as confirmatory evidence.

Damaged Condition (poor condition) - material with one or more of the following characteristics:

- 1. A few water stains or less than one tenth of the insulations with missing jackets.
- 2. Crushed insulation or water stains, gouges, punctures, or mars on <u>up to</u> one tenth of the insulation if the damage is evenly distributed (or up to one quarter, if the damage is localized). Accumulation of powder, dust, or debris similar in appearance to the suspect material on surfaces beneath the pipe/boiler/tank, etc. can be used as confirmatory evidence.

Good Condition - material with no visible damage, deterioration, or showing only very limited damage or deterioration.

Potential for Damage to ACM

Potential for Significant Damage - The material is subject to major or continuing disturbance, due to factors including but not limited to accessibility.

1. The ACM is in an area regularly used by building occupants and there is a reasonable likelihood that the material or it's cover will become significantly damaged, deteriorated, or delaminated due to factors such as changes in building use, changes in operations and maintenance practices, changes in occupancy, or recurrent damage.

<u>Potential for Damage</u> - The material is subject to disturbance or damage, due to factors including but not limited to accessibility.

1. The ACM is in an area regularly used by building occupants and there is a reasonable likelihood that the material or it's cover will become damaged, deteriorated, or delaminated due to factors such as changes in building use, changes in operations and maintenance practices, changes in occupancy, or recurrent damage.

Sample Analysis

Asbestos can only be positively identified using microscopic techniques. Samples collected in this building inspection process were analyzed using Polarized Light Microscopy (PLM). EMR utilized AMI, Inc. Laboratory, Omaha, NE to analyze the samples submitted as a part of this inspection process. The laboratory is certified in the National Voluntary Laboratory Accreditation Program.

The analysis procedure followed for ashestos determination was the "Interim Method for the Determination of Ashestos in Bulk Insulation Samples," recommended by the EPA in Appendix A to Subpart F of 40 CFR Part 763, (REF 1). Based on these guidelines, suspect material was considered not to contain ashestos only if the results of all samples required to be collected from the homogeneous area were determined to have ashestos in amounts of 1% or less. Those materials analyzed and determined to contain greater than 1% were considered "ACM".

AMI, Inc. Laboratory utilizes an extensive Quality Assurance/Quality Control (QA/QC) program to ensure sample analyses quality and verification. As part of the QA/QC sampling protocol, EMR conducted peer review of the sampling procedures used in the building inspections to improve the quality of the overall sampling and building inspection process.

Summary of Asbestos Building Inspection Findings

A total of 15 samples were collected from the subject site buildings or areas and submitted for asbestos analysis. Eight (8) of the samples were found by laboratory analysis to contain asbestos. Table I - "Summary of Inspected Homogeneous Area Findings" is a listing by area of the sample results with identified homogeneous area number, material type, homogeneous area description, asbestos content, material category, material class, area condition, quantity of material and cost estimate for removal.

Homogeneous Area I.D.

Each homogenous area was identified using three letters to identify the City of Bellevue (BEL), followed by a dash and three letters describing the building areas (Office Depot Complex - ODC) followed by a number in consecutive order starting with 01.

Material Type

This category describes the homogeneous area material type (cream 9" floor tile/mastic, transite board, spray-on ceiling insulation etc..)

Homogeneous Area Description

This category includes a description of the homogeneous area - where the material was found.

Ashestos Content

Includes the per cent (%) of asbestos content found in the sampled material, also listed is the type of asbestos (chrysotile, amosite)

Material Category

The material as assessed by the inspector fits one of three categories, either surfacing, thermal or miscellaneous.

Material Class

The material fits one of three classes, FRIABLE, non-friable - Category I, or non-friable Category II. It should be noted that a non-friable class may become FRIABLE.

Area Condition

The material has been given a condition rank by the building inspector during the sampling phase.

Quantity of Material

The sampled material has been quantified as a part of the inspection process, to identify all areas in which a product is located and to assist in establishing response action recommendation estimates.

Estimate of Removal

The management planner has provided estimates of removal cost, as all non-friable Category II and FRIABLE products, as they are required by EPA's - NESHAP Regulations to be removed from buildings prior to demolition.

In the case of the material found as a part of this report One (1) FRIABLE ACM was identified, One (1) Non-Friable Category II ACM was identified and six (6) Non-Friable Category I ACMs were also identified. Proper handling procedures will prevent the spread of asbestos fibers.

HOMOGENOUS AREA NO.	MATERIAL TYPE	HOMOGENOUS AREA DESCRIPTION	ASBESTOS CONTENT	MATERIAL CLASS	MATERIAL CATEGORY	AREA CONDITION	QUANTITY OF MATERIAL
BEL-ODC-01	Fluffy Floor Debris	East Side Int. on floor (d. cleaners)	SAMPLE RESU	LTS < 1% ASBI	ESTOS		-
BEL-ODC-02*	Roofing Tar/Paper	Roof of Ernst, Dry Cleaners and west portion of Office Depot	5-10% Chrysotile	Non-Friable Category I	Miscellaneous	Gnod	'3,500 ft2 '4.800 ft2 '6,900 ft2
BEL-ODC-03*	Transite Wallboard	East Side interior of Dry Cleaners Building	65% Chrysotile	Non-Friable Category II	Miscellaneous	Good	50 M²
BEL-ODC-04*	Spray-On Ceiling Insulation	Throughout ceiling of Dry Cleaners	10% Chrysotile	FRIABLE	Surfacing	Goud	3,000 ft ¹
BEL-ODC-05*	Cream 9" Floor Tile/Mastic	North 3/4 of Dry Cleaners	2-3% Chrysotile	Non-Friable Category 1	Miscellaneous	Fair	2,625 ft²
BEL-ODC-06*	Brick Pattern 12" Floor Tile/Mastic	South 1/4 of Dry Cleaners	24 Chrysotile (mastic only)	Non-Friable - Category 1	Miscellaneous	Good	875 ft³
BEL-ODC-07	Pegboard	West partition-Dry Cleaners	SAMPLE RESULTS < 1% ASBESTOS				
BEL-ODC-08	Drywaii	East side of Dry Cleaners	SAMPLE RESULTS < 1% ASBESTOS				
BEL-ODC-09	Stringy Wrap	On steel pipe shards within debris	SAMPLE RESULTS < 1% ASBESTOS				
BEL-ODC-10	Paint on Pipe	Steel Pipe under former Ernst canopy area	2,596 ppm Lead	NOT ANALYZ	ED FOR ACM		
BEL-ODC-11*	9" Floor Tile/Mastic	Throughout west warehouse-Office Depot	2-3% Chrysotile	Non-Friable Category I	Miscellaneous	Faic	4,250 fi³
BEL-ODC-12*	12" Cream Floor Tile/Mastic	On top of 9" Floor Tite	2-3% Chrysotile	Non-Friable Category I	Miscellaneous	Fair	2,125 ft³
BEL-ODC-13* *	12" Tun Floor Tile/Mastic	On top of 9" Floor Tile	1-3% Chrysotile	' Non-Friable Category 1	Miscellaneous	Fair	2,125 ft ²
BEL-ODC-14	Drywali	West Warehouse Wall	SAMPLE RESUL	TS < 1% ASBE	STOS	<u></u> .	
BEL-ODC-15	Drywall on eaves	Near Office Depot Entrance	SAMPLE RESULTS < 1% ASBESTOS				
BEL-ODC-16	Tar Paper above drywall	Near Office Depot Entrance	SAMPLE RESULTS < 1% ASBESTOS 1 Canopy Roof, Footnote 3 = Office Depot Roof				

One (1) of the samples was found to be FRIABLE ACM. This sample was BEL-ODC 04, a spray-on acoustic material approximately 1/2-inch thick on a concrete ceiling in the former dry cleaners. FRIABLE ACMs are those materials containing more than one percent (1%) asbestos that can be crumbled, pulverized, or reduced to a powder using hand pressure.

One (1) of the samples was found to be Non-Friable Category II materials. This sample was BEL-ODC-03, a cement-asbestos board (transite) material.

One (1) of the samples was found to be Non-Friable Category I roofing material. This sample was BEL-ODC-02, a roofing tar and paper material on the roof of the dry cleaners and roof (canopy) of the former Ernst store.

Five (5) of the samples were found to be Non-Friable Category II floor tile material. These samples were BEL-ODC-05, 06, 11, 12, and 13.

The information and findings of the asbestos building inspection have been used to prepare this report and may be used as part of a management development process used to determine the necessary response actions to protect human health and the environment. Proper handling procedures will prevent the spread of asbestos fibers.

Conclusions and General Asbestos Recommendations/Response Actions

This section presents EMR's recommendations for the materials identified as ACM as a result of the asbestos building inspection report and assessment. The building inspector has conducted a hazard assessment of all materials listed in Table 1 and identified as ACM. The hazard assessment follows AHERA guidelines for establishing response action recommendations that will protect human health and the environment from exposure to asbestos fibers and meeting asbestos management objectives. All recommendations are based on the planned demolition or renovation of buildings or areas. The findings and condition of the asbestos containing flooring, roofing, spray-on material, and transite material at the southeast corner of 108th and Main Streets in Bellevue, Washington are provided in Table 1.

The spray-on ceiling material in the former dry cleaners was found to be FRIABLE ACM. The material covers the ceiling on the east 4/5ths of the former dry cleaners. The material is classified as surfacing ACM. The total estimated area of material is 3,000 square feet (ft2). The spray-on material was found to be in good condition. As FRIABLE, this material has the potential to release asbestos fibers. Demolition of the building prior to removing this material could result in the release of asbestos fibers that could pose a human health hazard. The asbestos containing spray-on acoustic material should be removed by certified asbestos professionals prior to demolition.

The transite wallboard material in the former dry cleaners was found to be Non-Friable Category II cement-asbestos wallboard. The transite was not attached to any materials, but was found loose in pieces above a wall partition on the east side of the dry cleaners (former dryer area) and in several pieces against the east side wall of dry cleaners. The transite material was found to be in good condition. Demolition

of the building prior to removing this material could result in the release of ashestos fibers that could pose a human health hazard. The asbestos containing transite wallboard should be removed by certified asbestos professionals prior to demolition.

The asphalt tar and paper on the roof of the former dry cleaners, canopy area of the former Ernst store and roof of the west portion of Office Depot was found to be Non-Friable Category I ACM. The material covers an area of approximately 3,500 ft2 on the former dry cleaners, 4,800 ft2 on the former Ernst store canopy area and 6,900 ft2 on the west portion of the Office Depot. The roofing materials were found to be in "Good" condition. Demolition of the building prior to removing this material could result in the release of aspectos fibers that could pose a human health hazard. The aspectos containing transite wallboard should be removed by certified aspectos professionals prior to demolition.

The 9" and 12" floor tile materials found in the former dry cleaners building and west warehouse of Office Depot were found to be Non-Friable Category I ACM in "Fair" condition. The floor tiles in the dry cleaners building cover an area of approximately 3.500 ft2. The floor tiles in the west warehouse of the Office Depot cover an area of approximately 8.500 ft2. Demolition of the building prior to removing this material could result in the release of asbestos fibers that could pose a human health hazard. The asbestos containing floor tiles should be removed by certified asbestos professionals prior to demolition.

Final Comments

EMR is pleased to be of service to Turner Construction. We would be happy to submit a work plan for the removal of the ACMs in the building prior to building demolition at your request. Please call if you have any questions or concerns.

Sincerely.

David L. Welch Project Manager

Certified Asbestos Inspector

ravid L Welch

EPA # 930310-08

Reviewed by:

Thomas J. Patnode, CHMM

Vice President

Certified Ashestos Management Planner

EPA # 930304-15

Attachments: Attachment A - Asbestos History/Health Effects

Attachment B - Asbestos Regulations-PSAPCA

Attachment C - Definitions
Attachment D - Certifications

Attachment E - Building Inspection Information Packet

cc: File

John McClure, EMR

Ms. Jennifer Fier, Benenson Bellvue Associates II

Director of Architecture and Construction



March 11, 1994

Via Facsimile and Regular Mail

Turner Construction Company 601 Union Street, Suite 400 Seattle, Washington 98101

Attn: Mr. Michael Raftrey

Re:

Additional Asbestos Building Inspection

West Wall of Office Depot South of Main Entrance

SE corner of 108th and Main Street

Bellevue, Washington

Dear Mr. Raftrey:

Environmental Management Resources, Inc. (EMR) is pleased to submit these results of an additional asbestos inspection for Turner Construction on behalf of Benenson Bellevue Associates II. On March 3, 1994, following a request by Turner Construction to inspect some suspect asbestos containing material discovered during construction activities, EMR collected three samples from three homogeneous areas on a west wall of the the Office Depot south of the main entrance.

Sample S-1, collected from the outer material was determined to be cement-asbestos board (transite) containing 60% chrysotile. Though non-friable, transite can release fibers if removed improperly. EMR recommends that certified asbestos professionals remove this material. Approximately 480 square feet of this material was identified. Sample S-2, a tar paper material behind the transite, showed no detectable concentrations of asbestos. Sample S-3, a beige-colored wallboard material attached to the tar paper, showed no detectable concentrations of asbestos. Attached are analytical results of the samples.

EMR is pleased to be of of continued service to Turner Construction Company and Benenson Bellevue Associates II. Please call me if you have any questions or concerns.

Sincerely,

David L. Welch

Project Manager

AHERA Inspector No. 930310-08

Tom Patnode, EMR John McClure, EMR

Ms. Jennifer Fier, Benenson Bellevue Associates II





Mr. David Welch

Environmental Management Resources, Inc.

2509 152nd Avenue NE

Suite B

Redmond WA 98052-

Project Title:

Turner Asbestos Inspection 1082

Bellevue, WA

Purchase Order:

Verbal

AMI Project/Lab No.: I -163

ulk Semples(PLM) - Submitted

Technician

Submitted

I certify that these results comply with accepted methods of analysis. These results may not be reproduced in full without the approval of AMI Group, Inc.

lethod of Analysis:

NVLAP #1568

Results Reviewed By: Polarised Light Microscopy/Dispersion Staining using EPA Method 600/M4-82-020. Semples not homogenized. pecial treatments are noted. Percentage given by visual estimate. Test report relates only to items tested. eport cannot be used to claim product endorsement by NVLAP or any agency of the U.S. Government.

Analytical Instrument: Olympus Polorizing Microscope RH-2.

ampie	No.	Location, Description, Application	Asbestos In Total Sample		Total Of Other Fibers	
168 / 1	1	Turner Constructor's Gray Solid Transite Board Like Material Cement Asbestos Wallboard	Chrysotile	60%	Cellulose Non-Fibrous	10% 30%
163 / 2	2	Turner Constructor's Brown Black Fibrous Paper Like Material Tar Paper Material	Negative	<1%	Cellulose Non-Fibrous	90% 10%
163 / 3	3	Turner Constructor's Beige Chalky Powdery Plaster Like Material Wallboard Material	Negative	<1%	Cellulose Non-Fibrous	20% 80%



AGENCY USE ONLY 9400180 CASE #:

Puget Sound Air Pollution Control Agency 110 Union Street, Suite 500, Seattle, WA 98101-2038 (206) 689-4058 • Fax: (206) 343-7522

Please type or print clearly. Check all applicable boxes.

AGENCY USE ONLY		
1	JAN 1 8 1994	
3		
"		

For revisions to this information use Amendment...to Perform an Asbestos Project, (PSAPCA Form No. 66-173)

JAI,

94 3: 48 Applica	tion to Perform	an Asbestos	s Project
Type of Project	Project Category (Check only one.)	Advance Notification Pe	riod PSAPCA Fee (\$)
A. E Emergency (ARC)	1. Residential (any amount)	24 Hour Notification	25.00
B. Demolition (1997) 225	2. Less than 10 linear feet Less than 11 square feet	24 Hour Notification	25.00
C. Renovation D. Maji Control	3. 2 10 to less than 260 linear feet 11 to less than 160 square feet	10 Working Days	100.00
E. C Empleilation	4. 🗆 260 to less than 1,000 linear feet 160 to less than 5,000 square feet		250.00
F. C Enclosure G. C Otter(specify):	5. 1,000 to less than 10,000 linear f 5,000 to less than 50,000 square	J ,	500.00
mo ham	6. D 10,000 linear feet or more 50,000 square feet or more	10 Working Days	1,000.00
Quantity to be removed/encapsulated	: 40 square ft.	linear ft.	Workshift Days: M T W Th F Sa Su
Project starting date:JANUAR	Y 17, 1994 Completion date:	JANUARY 20, 1994	Workshift Hours:7:00AM-3:30PM
Cito addresses 400 400TU SVENUS	E NE		TORRE TORREST
Site address: 100 108TH AVENU Street	ENE		8004 KING Lip code County
		- 7	
Facility ty Type of material to be removed/encap □ Fireproofing □ P.C. o	sulated: eiling	Asbestos Survey Conducte : 30+ Size: 18, U Sheet vinyl D Boiler ins U CA pipe E VAT	<u>0∞ </u>
Control measures & Personal Protecti N.P. enclosure 1 Glov 1/2 mask APR Full	e bag 📉 🗖 Mini enclosure 🗖 Wrap 8	Cut E Water E HEPA P. demand D Other (* 1
Asbestos contractor: RESTEC Co	ONTRACTORS, INC.	Contractor #:	1053
	95TH STREET, SUITE 101	REDMOND 98052	
Street		City Zi	ip County
Supervisor: BONNIE PEMI	SERTON Certificate #: 13186	Phone: 867-1981	
Owner/CEO: WILLIAM J. W	ALKER Title: VI	CE PRESIDENT	Phone: (206)867-1981
Property owner: OFFICE DEPO	т		Phone: (510)682-2582
Mailing address: 1635 CHALLE			CONTRA COFTA
Street Site contact: STEVE SPENC		City Zi ROJECT MANAGER	ip County Phone: (510)682-2582
Asbestos disposal site: COLUMB	IA RIDGE LANDFILL ARLINGTON, OR	R	AGENCY USE ONLY
stimated cost of asbestos abatement	project:\$400		
DO HEREBY CERTIFY THAT THE INFO S, TO THE BEST OF MY KNOWLEDGE,	DRMATION CONTAINED IN THIS APPLIC ACCURATE AND COMPLETE.	CATION	JAN 1.4 1994
fuit SHENEWAW	<u> 1/14/94</u>		IT SOUND AIR POLLUTION
Signature	Date]	CONTROL AGENCY THIS IS NOT AN APPROVAL
ESTIMATOR/PROJECT MANAGE Title	RESTEC CONTRAC	TORS, INC.	Act

Account #280, Job #A0353 Permit Fee

08T00F6

\$200.00 RESTEC CONTRACTORS, INC Redmond, WA 69969 CHECK NO



OFFICE DEPOT

January 14, 1994

RECEIVE

635 Challenge Drive Jonatrd, CA 94520

10-582-2582

JAN 1 4 1994

Mike Bryan Department of Labor & Industries 300 West Hamson Seattle, WA 98119

. - - - - OLLU CONTROL AGENCY

Peggy Franzen **PSAPCA** Suite 500 110 Union Street Seattle, WA 98101-2038

RE:

Office Depot #819 100 108th Avenue, NE Bellevue, WA 98004

To Whom It May Concern:

This letter is to request waiver of the ten (10) working day advance notification for asbestos removal. We would like approval to do emergency abatement. During removation work at the Office Depot Bellevue, the contractor discovered asbestos containing floor tile. The material was disturbed during demolition. We have isolated the area but need to do abatement immediately since there is possible exposure to the public and the workforce.

If you have any questions, please contact me at the number above.

Sincerely

Steven J. Spencer Project Manger

SJS/pls

NCTICE OF COMPLETION OF ASBESTOS REMOVAL

AC

7400180

thu 2/2/94

WARNING: Regulation III, Section 4.01(a),(6), requires "Upon completion of an asbestos project or a demolition, a written 'Notice of Completion' shall be filed with the Control Officer on forms provided by the Agency"

			Dro-
OWNER/CONT	TRACTOR SECTION		RECEIVED
Mail to:	Puget Sound Air Pollution Asbestos Compliance Divisi 110 Union Street, Suite 50 Seattle, Washington 98101	on	PUGET SOUND AIR POLLUTION CONTROL AGENCY
Gentlemen:			- Litery
The asbest	os removal described below h	as been completed on _	1/20/94 (date)
If applica	ble, demolition is scheduled	to begin on N/A	
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	Charrachia koomorasbeerrascheeri	KHRKX MIKHZE JEX	(date)
Signat	ure of Owner/Contractor	867-1981 Phone Number	1/26/94 Date

FOR AGENCY USE ONLY	Case No.	9400180
Quantity of asbestos materials: 40 SF FLR AT SE END OF COMPLEX.	7AM-3:30PM	
Asbestos contractor: RESTEC CONTRACTORS, INC.		·
Owner: OFFICE DEPOT		
Scheduled Completion Date: 01/20/94		•, •
Location of facility: 100 108TH AVE NE, BELLEVUE		
Date Inspected: Inspector:		
Report:		
· · · · · · · · · · · · · · · · · · ·		
		
·	· <u> </u>	
See Attachment		

Form No. 66-144 12/92

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9400180

WARNING: Regulation III, Section 4.01(a),(6), requires "Upon completion of an asbestos project or a demolition, a written 'Notice of Completion' shall be filed with the Control Officer on forms provided by the Agency"

RECEIVED

Mail to:	FRACTOR SECTION Puget Sound Air Pollution	Control Agency
	Asbestos Compliance Divisi 110 Union Street, Suite 50	
	Seattle, Washington 98101	• • • • • • • • • • • • • • • • • • • •
entlemen:	l e	•
he ssbest	os removal described below b	as been completed on 1/20/94
		(date)
f applica	ble, demolition is scheduled	to begin on N/A
		(date)
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	Churxydlx koomoxaadeex ux ahen xi	NAMES OF STREET
(h	is Ochiltree	867-1981 1/26/94
6 2	ure of Owner/Contractor	Phone Number Date

FOR AGENCY USE ONLY	Case No. 9400180
Quantity of asbestos materials: 40 SF FLR AT SE END OF COMPLEX,	7AN-3:30PM
Asbestos contractor: RESTEC CONTRACTORS, INC.	·
Owner: OFFICE DEPOT	
Scheduled Completion Date: 01/20/94	
Location of facility: 100 108TH AVE NE, BELLEVUE	
Date Inspected: Inspector:	
Report:	·
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	<u> </u>
•	
See Attachment	

Form No. 66-144 12/92

9400180

OFFICE DEPOT

Office Products at Warehouse Prices!

RECEIVED

rice depot

January 14, 1994

JAN 1 8 1994

Chailenge Drive

ord, CA 94520

; ∷76, CA 9452 ⊃-682-2582

CONTROL AGENCY

Mike Bryan
Department of Labor & Industries
300 West Harrison
Seattle, WA 98119

Peggy Franzen PSAPCA Suite 500 110 Union Street Seattle, WA 98101-2038

RE: Office Depot #819

100 108th Avenue, NE Bellevue, WA 98004

To Whom It May Concern:

This letter is to request waiver of the ten (10) working day advance notification for asbestos removal. We would like approval to do emergency abatement. During renovation work at the Office Depot Bellevue, the contractor discovered asbestos containing floor tile. The material was disturbed during demolition. We have isolated the area but need to do abatement immediately since there is possible exposure to the public and the workforce.

If you have any questions, please contact me at the number above.

Sincerely

Steven J. Spencer Project Manger

SJS/pls

AGENCY USE ONLY 9400661

CASE #:

. _get Sound Air Pollution Control Agency 110 Union Street, Suite 500, Seattle, WA 98101-2038 (206) 689-4058 • Fax: (206) 343-7522

Please type or print clearly. Check all applicable boxes.

GENCY USE ON	LY
FEB 28	1994

THIS IS NOT AN APPROVAL

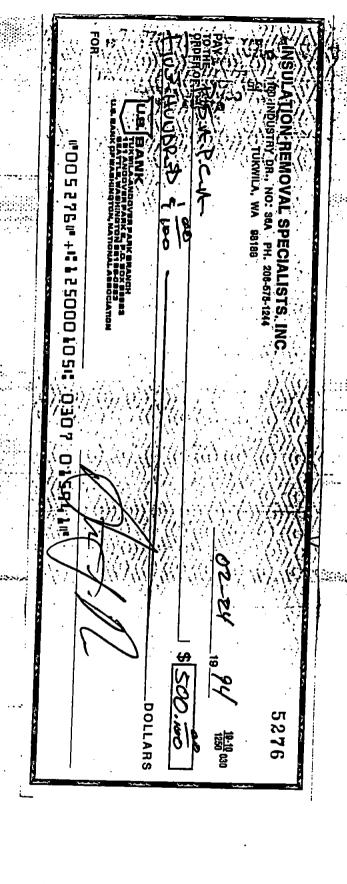
For revisions to this information use Amendment...to Perform an Asbestos Project, (PSAPCA Form No. 66-173)

PSAPCA Form No 66-160 (Revised 8/93)

Project (PSAPCA Form N	•		ــــــ	
AN 94 12: 04 Ap	olication to Pe		Asbesto	s Project
Type of Projec	t Project Category (Ch	eck only one.) A	dvance Notification Pe	eriod PSAPCA Fee (\$)
A. C Emergency (Ad	' 11		Prior Notification	25.00
B. Demolition (Sepa Required)	rate Permit 2. 🗆 Less than 10 l Less than 11 s		Prior Notification	25.00
C. Renovation	3. □ 10 to less than	i 260 linear feet i 160 square feet	10 Working Days	100.00
D. Q Maintenance E. Q Encapsulation	4. Q 260 to less that 160 to less that	n 1,000 linear feet n 5,000 square feet	10 Working Days	250.00
F. D Enclosure	5. 00 1,000 to less to 5,000 to less to	nan 10,000 linear feet nan 50,000 square feet	10 Working Days	500.00
G. Other (specify):	6. 🗆 10,000 linear fi 50,000 square		10 Working Days	1,000.00
Quantity to be removed/d	ncapsulated: 23,000 sc	juare ft	linear ft.	Workshift Days: M C W C Sa Su
Project starting date:	1	oletion date: <u>03-31-</u>	94	Workshift Hours: 7:00-3:30 PM
Site address: 100 108T	H AVENUE N.E.	BELLEV	•	8004 KING
Street				Zip code County
Location of asbestos:	ITHIN RETAIL STORE AND ON T	HE ROOF.	•	•
Project description:		Federal facility or	marine vessel? D. Ye	TY No.
•	Complete demolition of structure	? ☐ Yes ☐ No	Asbestos Survey Cond	ucted? ⊑ Yes □ No
Facility	type: RETAIL STORE	Age: <u>30</u>	Size: 30,000	# Floors:
Type of material to be ren	noved/encapsulated:			
☐ Fireproofing	P.C. ceiling	CAB ☐ She Air cell ☐ CA		
☐ Duct paper Is removal:	Mag. pipe insulation 🖸 💆 Indoors CK Outdoors		pipe 🛱 VAT	☐ Other (specify) FLOOR MASTIC, R
7			•	
Q N.P. enclosur	onal Protection Equipment: •	closure Q Wrap & cut	D. Water D. HEDA	Vac 📮 Type C cont. flow
4 1/2 mask APR		☐ Type C P. den		(specify)
Asbestos contractor:	ISULATION REMOVAL SPECIALIS	rs, inc.	Contractor #: _	1051
Mailing address: _	E. 12415 TRENT	SPOKANE	99216	SPOKANE
VΕ	Street VIN FERRELL	City		County
Supervisor		Certificate #	012667	Phone: <u>1-509-927-7867</u>
PENEN	ILL KORUM SON BELLEVUE ASSOCIATES LP	Title:PRES	SIDENT	Phone: <u>1-509-927-7867</u>
rroperty owner:				Phone: 1-206-450-1191
Mailing address: 7	US SRD AVE.	NEW YORK; NE		NEW YORK County
Site contact:	AYNE GODDARD	•	INTENDENT	Phone: 1-206-450-1191
Asbestos disposal site: _	REBANCO REGIONAL LANDFILL		10 0000	AGENCY USE ONLY
Estimated cost of asbesto	s abatement project:36	,000.00	= R	FCHIVED
I DO HEREBY CERTIFY TH. IS, TO THE BEST OF MY KA	AT THE INFORMATION CONTAINE 10 Wy EDGE, ACCURATE AND COM	D IN THIS APPLICATION PLETE.		FED 2.4.100.4
(the of .	1 le	02-24-94		FEB 2 4 1994
Signature		Date	PUGE	CONTROL AGENCY

INSULATION REMOVAL

Representing



	Agency Use Only
Case	so946066(
1-	
Amen	denent No.:

PUGET SOUND AIR POLLUTION CONTROL AGENCY 110 UNION STREET, SUITE 500 SEATTLE, WA 98101-2038 (206) 689-4058 FAX: 343-7522

COMMUNICATION REDUNNE OFF... SUPPLESSES

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P - 10 L

AMENDMENT

APPLICATION TO PERFORM AN ASBESTOS PROJECT

	The first two Amendments are not charged an additional fee. For each Amendment after that enclose a fee of \$25. (If a fee is required, faxed copies will not be accepted)
U.	se this form only when the following changes occur:
	1. Project Category or Project type 5. Address correction due to incorrect information
	2. Quantities exceeds more than or less than 20% 6. Contractor or Property owner information
	3. Project Start and/or Completion date 7. Disposal Site
	4. Work Shift Days and Hours
	Do not amend minor changes such as job site supervisor
AC	GENCY CASE #: 9400661-1 CONTRACTOR JOB #: 2828 FEE FOR AMENDMENT \$ 0
OL	B SITE ADDRESS: 100-108th Avenue NE, Bellevue WA 98004
PL.	EASE INDICATE CHANGES BELOW: What is your Current Project Category?5
	TYPE OF PROJECT: PROJECT CATEGORY: NEW FEE AMOUNT: \$
	ADDITIONAL QUANTITY TO BE REMOVED:SQUARE FTLINEAR FT
	(NEW FOOTAGE TOTALS: SQ FT LN FT)
XX	PROJECT STARTING DATE:COMPLETION DATE:06/01/94*
	WORK SHIFT DAYS: M T W TH F SA SU WORK SHIFT HOURS: 7:00 AM - 5:00 PM
	JOB SITE ADDRESS:
	→ REASON FOR ADDRESS CHANGE:
	DISPOSAL SITE:
	CONTRACTOR OR PROPERTY OWNER: (INDICATE NEW INFORMATION BELOW):
	ADDITIONAL COMMENTS (ATTACH ADDITIONAL SHEET IF NECESSARY):
ļ	The present tenant is not ready for us to complete all work. We will be on site
}	from March 14th through March 18th. We wil notify by amendment when we return to
	_complete the project.
I DO	HEREBY CERTIFY THAT THE INFORMATION CONTAINED IN THIS ICATION AND SUPPLEMENTAL DATA DESCRIBED HEREIN IS, TO THE BEST
OF M	Y KNOWLEDGE, ACCURATE AND COMPLETE.
{	
	03/16/94
. 1	SIGNATURE DATE
CON	TRACTOR: Insulation Removal Specialists, RECEIVE).
Phone	= 509-927-7867 PUGET SOUND SITE POEM LINEN
Form	40. 66-173 (Rev. 803)
i	MAR 1 6 1994

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	AGENCY USE ONLY	г	Λ.	
ř ;	73028	כ	7	
CASE #:	<u>.</u>	٠.	-	

or revisions to this information use currendment...to Perform an Asbestos Project, (PSAPCA Form No. 66-173)

Puget Sound Air Pollution Control Agency
110 Union Street, Suite 500, Seattle, WA 98101-2038
(206) 689-4058 • Fax: (206) 343-7522

Please type or print clearly. Check all applicable boxes.

AC	SENCY USE ONLY.	
1. 2. 3. /V	8/24 1/3/143	

93 2: 18 Applic	ation to Perform	an Asbestos	s Project
Type of Project	Project Category (Check only one.)	Advance Notification Per	
A. Emergency (Add \$100)	1. Residential (any amount)	24 Hour Notification	25.00
3. Demolition (Add \$25)	2. Less than 10 linear feet Less than 11 square feet	24 Hour Notification	25.00
. ☑ Renovation	3. 🗆 10 to less than 260 linear feet 11 to less than 160 square feet	10 Working Days	100.00
Encapsulation	4. 🗵 260 to less than 1,000 linear fee 160 to less than 5,000 square fe		250.00
☐ Enclosure	5. 🗆 1,000 to less than 10,000 linear 5,000 to less than 50,000 square		500.00
. Other (specify):	6. □ 10,000 linear feet or more 50,000 square feet or more	10 Working Days	1,000.00
ntity to be removed/encapsula	ded: 4510 square ft.	linear ft.	Workshift Days: M T
ect starting date: 9/07/9	3Completion date:	09/21/93	Workshift Hours: 7:00AM-3:30P
address: 100 108TH AVE	NUE NE	BELLEVUE 91	B004 KING
Street			ip code County
□ Duct paper □ Ma noval: □ Ind rol measures & Personal Prote □ N.P. enclosure □ G □ 1/2 mask APR □ F	creiling	C P. demand	Other (specify) MASTIC Vac □ Type C cont. flow specify)
estos contractor: RESTEC	CONTRACTORS, INC.	Contractor #:	1053
Mailing address: 14700 Street	NE 95TH STREET, SUITE 101	REDMOND 98052 City Zi	p County
Supervisor: ERIC MAUG	GHAN Certificate	#:12522	Phone: 469-1439 PAGER
Owner/CEO: WILLIAM J	WALKER Title: VI	ICE PRESIDENT	Phone: (206)867-1981
erty owner: OFFICE DE	РОТ	 	Phone: (510)682-2582
Mailing address: 1635 CHAL Street	LENGE DRIVE CONCOR	ID. CA 94520 City Zig	CONTRA COFTA County
Site contact: STEVE SPE	NCERTitle;P	ROJECT MANAGER	Phone: (510)682-2582
stos disposal site: COLU	MBIA RIDGE LANDFILL ARLINGTON, OF	- R	ECEIVED
	ent project: \$15,000. NFORMATION CONTAINED IN THIS APPLICATE, ACCURATE AND COMPLETE.	CATION	AUG 2 3 1993
Cris Chiltis	<u>2.33</u> Date		T SOUND AIR POLLUTION CONTROL AGENCY
PROJECT COORDINATOR	RESTEC CONTRAC		HIS IS NOT AN APPROVAL

: PROJECT COORDINATOR

Representing

APCA Form No. 66-160 (Revised 5/3/93)

Account #280, Job #A0353 Application for Office Depot - Bellevue

9302859

RECEIVED

AUG 2 3 1993

EI SOUND AIR POLLUTION CONTROL AGENCY

CK NO. 67000

RESTEC CONTRACTORS, INC Redmond, WA

\$250.00

14700 N.E. 95th St. Suite 101

Redmond, WA 98052

34-783/1251

CHECK NO. 067000

Two hundred fifty dollars and 00 cents**

PSAPCA

CHECK DATE

8/22/93

AMOUNT

#O6?000# #12510?833#1160010948?6#

Agency Use Only Amendment No.:

PUGET SOUND AIR POLLUTION CONTROL AGENCY 110 UNION STREET, SUITE 500 SEATTLE, WA 98101-2083 (206) 689-4058 FAX: 343-7522

AGENCY USE ONLY
1. SEP 0 8 1993
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AMENDMENT

APPLICATION TO PERFORM AN ASBESTOS PROJECT

The first two Amendments are not charged an additional factor (If a fee is required, fixed or	
Use this form only when the following changes occur:	
1. Project Category or Project type 5.	Address correction due to incorrect information
2. Quantities exceeds more than or less than 20% 6.	Contractor or Property owner information
•	Disposal Site
4. Work Shift Days and Hours	
Do not amend minor changes such as job site supervisor	
AGENCY CASE #: 9302859 CONTRACTOR JOB #:_	A0353 FEE FOR AMENDMENT \$ 0
JOB SITE ADDRESS: 100 108TH AVENUE NE BELLEVUI	E, WA 98004
PLEASE INDICATE CHANGES ONLY: Wbsi	t is your <u>Current</u> Project Category? <u>4</u>
TYPE OF PROJECT:PROJECT CATEGORY:	NEW FEE AMOUNT: \$
ADDITIONAL QUANTITY TO BE REMOVED:	
(NEW FOOTA	GE TOTALS: SQ FT LF FT)
PROJECT STARTING DATE:COM	PLETION DATE: 9/30/93
WORK SHIFT DAYS: M T W TH F SA SU	WORK SHIFT HOURS:
☐ JOB SITE ADDRESS:	
DISPOSAL SITE:	
CONTRACTOR OR PROPERTY OWNER: (INDICATE NEW	INFORMATION BELOW):
ADDITIONAL COMMENTS (ATTACH ADDITIONAL SHEE	T IF NECESSARY):
PLEASE SHOW THIS PROJECT OPEN BUT INA	CTIVE UNTIL FURTHER NOTICE.
I DO HEREBY CERTIFY THAT THE INFORMATION CONTAINED IN THEREIN IS, TO THE BEST OF MY KNOWLEDGE, ACCURATE AND C	
Orth Ochittan 2007/93	
SIGNATURE DAT	
REFRESENTING: RESTEC CONTRACTORS, INC.	
Phone: (206)867-1981	PUGEE SOUND AND POLITIFICATION
Form No. 66-175 (Rev. 4/14/93)	GONIHOE AGENCE

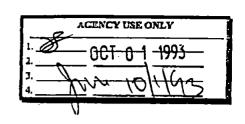
Agency Use Only

Case No. 9303859

Amendment No.

PUGET SOUND AIR POLLUTION CONTROL AGENCY 110 UNION STREET, SUITE 500

110 UNION STREET, SUITE 500 SEATILE, WA 98101-2083 (206) 689-4058 FAX: 343-7522



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AMENDMENT

TO

APPLICATION TO PERFORM AN ASBESTOS PROJECT

The first two Amendments are not charged an additional fee. For each Amendment after that enclose a fee of \$25.

(If a fee is required, faxed copies will not be accepted)

Use this form <u>only</u> when the follow	wing changes occur:		
1. Project Category or Project		5. Address	correction due to incorrect information
2. Quantities exceeds more than		6. Contract	tor or Property owner information
3. Project Start and/or Complex	1	7. Disposal	l Site
4. Work Shift Days and Hours	1		
Do not amend minor changes	such as job site super	visor	
AGENCY CASE #: 9302859	CONTRACTOR IO	B #: <u>A0353</u>	FEE FOR AMENDMENT \$ 0
JOB SITE ADDRESS: OFFICE	DEPOT 100 108TH A	VE NE BELLET	VUE, WA 98004
PLEASE INDICATE CHANGES OF	<u>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</u>	What is your <u>(</u>	Current Project Category? 4
TYPE OF PROJECT:	PROJECT CATEG	ORY:	NEW FEE AMOUNT: \$
ADDITIONAL QUANTITY TO	BE REMOVED:	SQUARE	FTLINEAR FT
	(NEW F	OOTAGE TOTA	ALS:SQ FTLF FT)
PROJECT STARTING DATE:_	<u>-</u>	COMPLETION	DATE: 10/29/93
WORK SHIFT DAYS: M T	W TH F SA S	u work	SHIFT HOURS:
JOB SITE ADDRESS:			
DISPOSAL SITE:	·		
CONTRACTOR OR PROPERTY	OWNER: (INDICATI	E NEW INFORM	(ATION BELOW):
ADDITIONAL COMMENTS (A	TTACH ADDITIONAL	SHEET IF NEC	ESSARY):
PLEASE SHOW THIS	PROJECT OPEN BU	r inactive u	INTIL FURTHER NOTICE.
I DO HEREBY CERTIFY THAT THE IN HEREIN IS, TO THE BEST OF MY KNO	FORMATION CONTAINS JWLEDGE, ACCURATE	ID IN THIS APPLI AND COMPLETE.	ICATION AND SUPPLEMENTAL DATA DESCRIBED
			HEREEXEMOVISH ONEY
Cros Ocheltre		/30/93	
SIGNATURE	•	DATE	
REPRESENTING: RESTEC CON	TRACTORS, INC.		_
Phone: (206)867-1981			
Form No. 66-173 (Rev. 4/14/93)			E PUGETSOUND AN POLICITION
			THE SOURCE OF STREET

Agency Use Only

Case No. 9.30.2859

Amendment No.:

PUGET SOUND AIR POLLUTION CONTROL AGENCY
110 UNION STREET, SUITE 500
SEATTLE, WA 98101-2083
(206) 689-4058 FAX: 343-7522

	AGENCY USE ONLY	
1.	OCT 2 9 1993	
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AMENDMENT

TO

APPLICATION TO PERFORM AN ASBESTOS PROJECT

The first two Amendments are not charged an additional fee. For each Amendment after that enclose a fee of \$25. (If a fee is required, faxed copies will not be accepted)

Ise this form only when the following changes occur:	
1. Project Category or Project type	5. Address correction due to incorrect information
2. Quantities exceeds more than or less than 20%	6. Contractor or Property owner information
3. Project Start and/or Completion date	7. Disposal Site
4. Work Shift Days and Hours	
Do not amend minor changes such as job site super	visor
AGENCY CASE #: 9302859 CONTRACTOR JO	DB #: <u>A0353</u> FEE FOR AMENDMENT \$ <u>25.00</u>
OB SITE ADDRESS: OFFICE DEPOT 100 108TH AV	VE NE BELLEVUE, WA 98004
PLEASE INDICATE CHANGES ONLY:	What is your Current Project Category? 4
TYPE OF PROJECT:PROJECT CATEGO	ORY:NEW FEE AMOUNT: \$
ADDITIONAL QUANTITY TO BE REMOVED:	SQUARE FT LINEAR FT
(NEW FO	OOTAGE TOTALS: SQ FT LF FT)
PROJECT STARTING DATE:	COMPLETION DATE: 12/28/93
WORK SHIFT DAYS: M T W TH F SA SU	U WORK SHIFT HOURS:
JOB SITE ADDRESS:	· · · ·
DISPOSAL SITE:	
_] CONTRACTOR OR PROPERTY OWNER: (INDICATE	E NEW INFORMATION BELOW):
ADDITIONAL COMMENTS (ATTACH ADDITIONAL	SHEET IF NECESSARY):
PLEASE SHOW THIS PROJECT OPEN BUT	T INACTIVE UNTIL FURTHER NOTICE.
	· · · · · · · · · · · · · · · · · · ·
	
DO HEREBY CERTIFY THAT THE INFORMATION CONTAINE REIN IS, TO THE BEST OF MY KNOWLEDGE, ACCURATE A	ED IN THIS APPLICATION AND SUPPLEMENTAL DATA DESCRIBED AND COMPLETE.
11_ (AGENCY USE ONLY
	0/27/93 DECENTED
SIONATURE	DATE RECEIVED
REPRESENTING: RESTEC CONTRACTORS, INC.	OCT 2.7 1993
one: <u>(206)867-1981</u>	
Form No. 66-173 (Rev. 4/14/93)	FUGET SOUND AIR POLLUTION

Account #280, Job #A0353 Amendment to Office Depot

CHECK NO.

68400

RESTEC CONTRACTORS, INC Redmond, WA

\$25.00

WEST ONE

34-703/1251

CHECK NO. 068400

*****Twenty five dollars, and 00; cents****

PAY TO THE ORDER OF

PSAPCA

CHECK DATE

10/27/93

AMOUNT

25.00

AUTHORIZED SIGNATURE

#O68400# #125107833#116001094876#

Agency Use Only Case No. 9302859 mendment No.:

PUGET SOUND AIR POLLUTION CONTROL AGENCY 110 UNION STREET, SUITE 500 SEATTLE, WA 98101-2083 (206) 689-4058 FAX: 343-7522

	AGENCY USE ONLY	
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3.	- 12/15/12	
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AMENDMENT

TO

APPLICATION TO PERFORM AN ASBESTOS PROJECT

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(If a fee is required, faxed copies will not be accepted)

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2. Quantities exceeds more than or less than 20% 3. Project Start and/or Completion date 4. Work Shift Days and Hours Do not amend minor changes such as job site supervisor AGENCY CASE #: 9302859 CONTRACTOR JOB #: A0353 FEE FOR AMENDMENT \$ 25.00 3. B SITE ADDRESS: OFFICE DEPOT 100 108TH AVENUE NE BELLEVUE, WA PLEASE INDICATE CHANGES ONLY: What is your Current Project Category? 4 TYPE OF PROJECT: PROJECT CATEGORY: NEW FEE AMOUNT: \$ ADDITIONAL QUANTITY TO BE REMOVED: SQUARE FT LINEAR FT (NEW FOOTAGE TOTALS: SQ FT LF FT) PROJECT STARTING DATE: COMPLETION DATE:	1
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4. Work Shift Days and Hours Do not amend minor changes such as job site supervisor AGENCY CASE #: 9302859	
Do not amend minor changes such as job site supervisor AGENCY CASE #: 9302859	
AGENCY CASE #: 9302859 CONTRACTOR JOB #: A0353 FEE FOR AMENDMENT \$ 25.00 DB SITE ADDRESS: OFFICE DEPOT 100 108TH AVENUE NE BELLEVUE, WA PLEASE INDICATE CHANGES ONLY: What is your Current Project Category? 4 TYPE OF PROJECT: PROJECT CATEGORY: NEW FEE AMOUNT: \$ ADDITIONAL QUANTITY TO BE REMOVED: SQUARE FT LINEAR FT (NEW FOOTAGE TOTALS: SQ FT LF FT) PROJECT STARTING DATE: COMPLETION DATE:	
DB SITE ADDRESS: OFFICE DEPOT 100 108TH AVENUE NE BELLEVUE, WA "LEASE INDICATE CHANGES ONLY: What is your Current Project Category? 4 TYPE OF PROJECT: PROJECT CATEGORY: NEW FEE AMOUNT: \$ ADDITIONAL QUANTITY TO BE REMOVED: SQUARE FT LINEAR FT (NEW FOOTAGE TOTALS: SQ FT LF FT) PROJECT STARTING DATE: COMPLETION DATE:	
TYPE OF PROJECT:PROJECT CATEGORY:NEW FEE AMOUNT: \$ ADDITIONAL QUANTITY TO BE REMOVED:SQUARE FTLINEAR FT [NEW FOOTAGE TOTALS:SQ FTLF FT] PROJECT STARTING DATE:COMPLETION DATE:	
TYPE OF PROJECT:PROJECT CATEGORY:NEW FEE AMOUNT: \$	
ADDITIONAL QUANTITY TO BE REMOVED:SQUARE FTLINEAR FT [NEW FOOTAGE TOTALS:SQ FTLF FT] PROJECT STARTING DATE:COMPLETION DATE:	
[NEW FOOTAGE TOTALS:SQ FTLF FT] PROJECT STARTING DATE:COMPLETION DATE:	•
PROJECT STARTING DATE:COMPLETION DATE:	
WORK SHIFT DAYS: M T W TH F SA SU WORK SHIFT HOURS:	
JOB SITE ADDRESS:	
DISPOSAL SITE:	
CONTRACTOR OR PROPERTY OWNER: (INDICATE NEW INFORMATION BELOW):	İ
ADDITIONAL COMMENTS (ATTACH ADDITIONAL SHEET IF NECESSARY):	į
WE WILL BE ACTIVE ON THIS PROJECT BEGINNING 12/13/93. ALSO NOTE THE	i
SUPERVISOR WILL BE JIM NELSON #7498.	
DO HEREBY CERTIFY THAT THE INFORMATION CONTAINED IN THIS APPLICATION AND SUPPLEMENTAL DATA DESCRIPTION IS, TO THE BEST OF MY KNOWLEDGE, ACCURATE AND COMPLETE.	BED
AGENCY USE ONLY DECETY FI	
SIGNATURE DATE RECEIVED	
DEC 1 0 1093	
FRESENTING. RESTEC CONTRACTORS, INC.	
one: (206)867-1981	
Form No. 66-173 (Rev. 4/14/93)	r
THIS IS NOT AN APPROV	

CHECK NO. 69047

RESTEC CONTRACTORS, INC Redmond, WA

\$25.00

RESTECT 14700 N.E. 95th 8

Suite 101

Redmond, WA 98052

HESTONE BANK
Bellevie, WA 1800

34-783/1251

CHECK NO.

069047

*****Twenty five dollars and 00 cents****

PAY TO THE ORDER OF

PSAPCA

110 Union Street, Ste. 500. Seattle: WA 98101 CHECK DATE

12/8/93

AMOUNT

25.00

, (I**°**

#O69047# #125107833#116001094876#

Agency Use Only . Case No. <u>93</u> Amendment No.:

ione: (206)867-1981 Form No. 66-173 (Rev. 4/14/93) PUGET SOUND AIR POLLUTION CONTROL AGENCY 110 UNION STREET, SUITE 500 SEATTLE, WA 98101-2083

(206) 689-4058 FAX: 343-7522

	AGENCY USE ONLY	
1. 2.	- DEC 1 4 1993	_
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THIS IS NOT AN APPROVAL

AMENDMENT

TO

APPLICATION TO PERFORM AN ASBESTOS PROJECT

The first two Amendments are not charged an additional fee. For each Amendment after that enclose a fee of \$25. (If a fee is required, faxed copies will not be accepted)

"Ise this form only when the following changes occur:	
1. Project Category or Project type	5. Address correction due to incorrect information
2. Quantities exceeds more than or less than 20%	6. Contractor or Property owner information
3. Project Start and/or Completion date	7. Disposal Site
4. Work Shift Days and Hours	
Do not amend minor changes such as job site super-	visor
AGENCY CASE #: 9302859 CONTRACTOR JO	B#: <u>A0353</u> FEE FOR AMENDMENT \$ <u>25.00</u>
OB SITE ADDRESS: OFFICE DEPOT 100 108TH AN	/E NE BELLEVUE, WA
DLEASE INDICATE CHANGES ONLY:	What is your <u>Current</u> Project Category? 4
TYPE OF PROJECT:PROJECT CATEGO	DRY:NEW FEE AMOUNT: \$
ADDITIONAL QUANTITY TO BE REMOVED:	SQUARE FTLINEAR FT
	OOTAGE TOTALS:SQ FTLF FT)
PROJECT STARTING DATE:	COMPLETION DATE: (12/28/93) last filed
WORK SHIFT DAYS: M T W TH F SA SU	WORK SHIFT HOURS:
JOB SITE ADDRESS:	· · · · · · · · · · · · · · · · · · ·
DISPOSAL SITE:	
☐ CONTRACTOR OR PROPERTY OWNER: (INDICATE	NEW INFORMATION BELOW):
ADDITIONAL COMMENTS (ATTACH ADDITIONAL	SHEET IF NECESSARY):
PLEASE SHOW THIS NOTICE OPEN BUT I	NACTIVE UNTIL FURTHER NOTICE.
DO HEREBY CERTIFY THAT THE INFORMATION CONTAINED EREIN IS, TO THE BEST OF MY KNOWLEDGE, ACCURATE A	D IN THIS APPLICATION AND SUPPLEMENTAL DATA DESCRIBED
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hut Same upil	2/10/93
	DEC 1 () 1993
PEPRESENTING: RESTEC CONTRACTORS, INC.	PUGET SOU POLITION

Agency Use Only Case No. 9302859 Amendment No.:

REPRESENTING: RESTEC CONTRACTORS, INC.

Phone: (206)867-1981

Form No. 66-173 (Rev. 4/14/93)

PUGET SOUND AIR POLLUTION CONTROL AGENCY 110 UNION STREET, SUITE 500 SEATTLE, WA 98101-2083 (206) 689-4058 FAX: 343-7522

AGENCY USE ONLY	
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3	
4 Jun 13/28/93	

PUGET SOUND AIR POLLUTION

CONTROL AGENCY

THIS IS NOT AN APPROVAL

AMENDMENT

TO

APPLICATION TO PERFORM AN ASBESTOS PROJECT

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(If a fee is required, faxed copies will not be accepted)

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3. Project Start and/or Completion date	7. Disposal Site
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AGENCY CASE #: 9302859 CONTRACTOR JO	OB #: <u>A0353</u> FEE FOR AMENDMENT S <u>25.00</u>
JOB SITE ADDRESS: OFFICE DEPOT 100 108TH AV	/E NE SEATTLE, WA 98004
PLEASE INDICATE CHANGES ONLY:	What is your Current Project Category? 4
TYPE OF PROJECT:PROJECT CATEG	GORY:NEW FEE AMOUNT: \$
ADDITIONAL QUANTITY TO BE REMOVED:	SQUARE FTLINEAR FT
	FOOTAGE TOTALS:SQ FT LF FT)
PROJECT STARTING DATE:	_COMPLETION DATE:
WORK SHIFT DAYS: M(T) W(TH) F) SA S	WORK SHIFT HOURS: 7:00 Am -5:30 PM
☐ JOB SITE ADDRESS:	
DISPOSAL SITE:	
CONTRACTOR OR PROPERTY OWNER: (INDICATE	
<u> </u>	•
ADDITIONAL COMMENTS (ATTACH ADDITIONAL	. SHEET IF NECESSARY):
WE WILL BE ACTIVE ON THIS PROJECT	T BEGINNING 12/20/93.
THANK YOU.	
	ED IN THIS APPLICATION AND SUPPLEMENTAL DATA DESCRIBED AND COMPLETE.
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Crw Chiltre	2/17/93 RECELVEL
SIGNATURE	DATE
•	DEC 2 0 1993

#*****Tventy: five idollars; and, 00, cents ****

PAYTO THE ORDER OF

PAYTO THE ORDER OF

#*****Tventy: five idollars; and, 00, cents *****

PAYTO THE ORDER OF

#*****Tventy: five idollars; and, 00, cents *****

PAYTO THE ORDER OF

#********

| CHECK DATE | AMOUNT | 12/17/93 | ***25.00****

| AUTHORIZED SIGNATURE | AUTHORIZED SIGNATURE | AMOUNT | 12/17/93 | ***25.00****

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9301859

Au 12/28

and a solution as

WARNING: Regulation III. Section 4.01(a),(6), requires "Upon completion of an asbestos project or a demolition, a written 'Notice of Completion' shall be filed with the Control Officer on forms provided by the Agency"

	-		
OWNER/CONTR	RACTOR SECTION	KEC	LIVED
Mail to:	Puget Sound Air Pollution Asbestos Compliance Divisi 110 Union Street, Suite 50 Seattle; Washington 98101	Control Agency DEC on O PUGET SCUNI	
	And a series of a series of	CONTRO)L AGENCY
Gentlemen:			
The asbesto	s removal described below he	as been completed on	12/23/93
ľ	le, demolition is scheduled		(date)
i	PERSONAL XINGGENERAL XINGGENER		(date)
1		HEN XXXIII YXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	
Signatu	S Ochette	867-1981	12/23/93
0	- Julian de la companya de la compan	Phone Number	Date
FOR AGENCY U	ISE ONLY		Case No. 9302859-4
Quantity of	asbestos materials: 4510 SF	VAT/MASTIC FLR S END (
	tractor: RESTEC CONTRACTORS		
	GE DEPOT		
	mpletion-Dete: 12/28/93		
	facility: 100 108TH AVE NE.		
	ed: In		
Report:			
			· · · · · · · · · · · · · · · · · · ·
		See Attachment	
		and theremusic	

Form Wa. 66-144 12/92

EXHIBIT E: Results of Occupant (former) Questionnaire

Site Address:		110 108th Avenue NE	OCCUPANT QUESTIONNAIRE FOR PHASE I AUDIT			
		Bellevue, WA			Date: 4/4/94	
Owner's	Name:	Kavous Abbasian				
Tenant's	Name:	Formerly Bellevue Cleaning Village				
To the b	est of you	ır knowledge				
1)	Is the <i>pr</i>	operty or any adjoining property used for industrial use?	Yes 🗆	No 🔳	Unknown 🗆	
2)	Has the use in th	property or any adjoining property been used for an industrial e past?	Yes □	No ■	Unknown □	
3)	repair fac developis	ty or any adjoining property used as a gas station, motor cility, commercial printing facility, dry cleaners, photong laboratory, junkyard or landfill, or a waste treatment, disposal processing, or recycling facility?	Yes 🗆	No ■	Unknown □	
4)	repair fac developir	erty or any adjoining property been used as gas station, motor cility, commercial printing facility, dry cleaners, photong laboratory, junkyard or landfill, or a waste treatment, disposal processing, or recycling facility?	Yes ■ Dry Cleaners	No □	Unknown □	
5)	automoti chemical	ve currently, or has there been any damaged or discarded ve or industrial batteries, or pesticides, paints, or other is in individual containers greater than 5 gallons in volume lons in aggregate stored on or used at the property or at the	Yes 🛘	No ■	Unknown □	
6)		currently or has there been any industrial drums (typically or sacks of chemicals located on the property?	Yes 🗆	No 🗆	Unknown 🏻	
		rt been brought onto the <i>property</i> that originated from a ated site or that is of unknown origin?	Yes 🗆	No ■	Unknown 🏻	
8)	or lagoon	currently, or has there been previously, any pits, ponds, is located on the <i>property</i> in connection with waste treatment disposal?	Yes 🗆	No ■	Unknown 🗆	
9)	ls there c	urrently or has there been any stained soil on the property?	Yes 🗆	No ■	Unknown 🗀	
		currently, or has there been any registered or non-registered anks (above or underground) located on the <i>property?</i>	Yes 🗆	No =	Unknown 🛘	
	access w	currently, or has there been any vent pipes, fill pipes or ays indicating a fill pipe protruding from the ground on the or adjacent to any structure located on the property?	Yes 🗆	No 🔳	Unknown 🗆	
	within the	currently or has there been any flooring, drains or walls located a facility that are stained by substances other than water or are oul odors?	Yes 🗆	No ■	Unknown 🗆	
1	contamina applicable	perty is served by a private well or non-public water system, have ants been identified in the well or system that exceed guidelines to the water system or has the well been designated as contaminated as contaminated to the water system or has the well been designated as contaminated.		No m	Unknown 🗆	

Site Add	ress:	110 108th Avenue NE	OCCUPANT (QUESTIONNAIR	<u>IE FOR PHASE I AUD</u>
, , , , , , , , , , , , , , , , , , ,		Bellevue, WA			Date: 4/4/94
i'enant's	Name:	Kavous Abbasian			
3 4)	governm of enviro	e occupant have any knowledge of environmental liens or nental notification relating to past or recurrent violations onmental laws with respect to the property or facility on the property?	Yes 🗆	No ■	Unknown □
5)	or enviro	occupant of the <i>property</i> been informed of the past or existence of <i>hazardous substances</i> or <i>petroleum products</i> onmental violations with respect to the property or any occated on the property?	Yes 🗆	No ■	Unknown 🗖
. 6)	assessm of hazard	o occupant have any knowledge of any environmental site ent of the property or facility that indicated the presence dous substances or petroleum products on, or contemination property or recommended further assessment of the property?	Yes 🗆	No 🗷	Unknown 🗖
	pending or threat	e occupant of the <i>property</i> know of any past, threatened or lawsuits or administrative proceedings concerning a release ened release of any hazardous substance or petroleum products the property by any owner or occupant of the property?	Yes 🗆	No ■	Unknown 🗖
B)		property discharge waste water on or adjacent to the property in storm water into a sanitary sawer system?	Yes ■ Toilets	No □	Unknown 🗖
1	materials	/ hazardous substances or petroleum products, unidentified waste s, tires, automotive or industrial batteries, or any other waste s been dumped above grade, buried and/or burned on the <i>property?</i>	Yes □	No ■	Unknown 🗆
))		transformer, capacitor or any hydraulic equipment on the for which there are any records indicating the presence of PCBs?	Yes 🗆	No ■	Unknown 🗖
1.1	wraps/in	any known lead paint or asbestos containing materials (pipe sulation, boiler material, transite wallboard, floor tiles, etc) on the property or facility?	Yes 🗆	No [·] ■	Unknown □



Freedom of Information Act Request Acknowledgement

04/04/94 Date: **David Wells** Emr Inc 2509 152Nd Suite B Redmond, WA 98052

Date of Your Request:	Date Your Request was Received:
	04/04/94

BELLEVUE CLEANING VILLAGE SUBJECT:

The Agency has ten (10) working days to respond to your request. You can expect a reply shortly after expiration of the ten-working-day period. Further correspondence on this subject should cite the following Request Identification Number:

10-RIN-00459-94

Freedom of Information Officer (MD-103)



STATE OF WASHINGTON

DEPARTMENT OF ECOLOGY

Mail Stop PV-11 • Olympia, Washington 98504-8711 • (206) 459-6000

July 26, 1990

Kavous Abbasian Bellevue Cleaning Village 110 108th Avenue N.E. Bellevue, Washington 98004

Re: Completion of your notification of dangerous waste activities

Dear Mr. Abbasian:

Enclosed you will find a photocopy of your recently received Ecology Form 2, "Notification of Dangerous Waste Activities". The assignment of a site-specific EPA/State identification number has been delayed by your failure to provide all required information. Specifically, in Section 4, "Location of installation", the Form 2 instructions clearly state:

"Each notifier is required to attach a map to the completed form. Carefully mark this specific location on a photocopy of the appropriate city street map or United States Geological Survey (USGS) topographic quadrangle for this area. Be certain that the city or quadrangle name is clearly identified. Attach this to the completed notification form you are submitting to Ecology. USGS maps are on file at your local public library and city street maps can be found in most telephone directories."

Please return this copy of your Form 2 with the attached map immediately in order to expedite the number assignment process. The return address is found at the top of the Form 2. Thank you for your cooperation in this matter.

Sincerely,

David S. Misko
Hazardous Waste Information Unit
Solid and Hazardous Waste Program

dsm

Enclosure:

Form 2 copy

AUG 02 1990

HAMAGEMENT BRACKLA

ECOLOGY

FORM 2

WASHINGTON STATE DEPARTMENT OF ECOLOGY

Attn: DW Notifications 2 5 1990 M/S PV-11
Olympia, WA 98504-8711 (206) 459-6387

WAD988475992

DEPARTME	NTAL USE ONLY	
INIT.	DATE 7,16,19	h
	JUL 2,7 199	
G/WAC	- <u></u>	

NOTIFICATION OF DANGEROUS WASTE ACTIVITIES

1) A. FIRST NOTIFICATION	, 303-1	│ □ B.RE	VISED NOT	FICATION DATE
C. WITHDRAW SITE I.D.		_		in Part 1P, List sections you revised
(Complete Sections 1F, 2A, 3, 47 & 12 E	Enter existing I.D. No. in Part 1F)	Emer	ISTING I.D.	O. He. in Part 1P.)
(Bite classed—no langer year or conduct to Complete Sections 1F, 2A, 3, 6-7 & 12, 6	waness at the are	550 I. E.	iomplete for stems I, C, D & E enty)	W A
2.A. WASHINGTON STATE D	EDADTMENT OF	2.B. SIC CO	DE/S)	
REVENUE REGISTRATIO		PRIMAR		ECONDARY OTHER
100-399-	064	721	6	
2.C. TYPE OF BUSINESS CO	NDUCTED AT THIS	SITE	**	<u></u>
3. NAME OF INSTALLATION				
DELLEVIE	CLEAN	100-	101/12	LAY (> 12)
4. LOCATION OF INSTALLAT	ION	•	<u></u> -	· · · · · · · · · · · · · · · · · · ·
Street // // Street	12111-111	E		
	7 10 2 10	<u> [10] </u>		-
County Name (2 / 1)	 	777	T T T T	
City or Town	-111111	<u> </u>	State Z	P Code
1321121112			149	8 12/2 14/1-11
5. INSTALLATION MAILING A	DDRESS			
Street or P.O. Box		-		
110 119	HUEWE			
City or Town		, , ,	State Z	P Code
OELLEVUE	<u> </u>		1/1A 9	20041-111
6.A. INSTALLATION CONTAC	Ţ		٠	
Name (last)		· (f	irst)	
MERKISVIAI	<u> </u>		HIVIO	
Job Title	1		Phone Nur	noer - 1215 3 - 125 7 7
6.B. INSTALLATION CONTAC	T MAII ING ADDRES	S (see instr	uctions)	BOX 1 BOX 2
Street or P.Q. Box	THAILING ADDING	O (See Matri	actions/	BOX 1 LL BOX 2 LL
1101108194	AUF WIZ	4		
City or Town			State ZI	P.Code /
BELLEVIE			NA4	7004-
7.A. NAME OF INSTALLATION	N'S LEGAL OWNER			**
K-HIDOVISI HIB	1845 14VI			
Street, P.O. Box, or Route Nu	mber	el - 1		·
1/10/1/01874	1411/E 10/2		[
City or Town	 	1-1	State ZI	P Code
7 P. PROPERTY OWNERSHIP	<u> </u>	<u> </u>	1/1/7/7/8	007-111
7.B. PROPERTY OWNERSHIP		in 7 A. neovida a	ddress in section	111.)
MUDPILLEIR	(If ownership is different the	<u>וויייי</u> ולועור		
CHARLESIB	ENEWSO	עער		
8/10/90 KCR	7.C. OWNER TYPE	עער	ROPERTY T	AD B G B II M B B
8/10/90 KCR	ENEWSO	עער		YPD区区区IV区下
8/10/90 KCR	ENEWSO	עער	ROPERTY T	AD B G B II M B B

NAME OF INSTALLATION BUILLY . (16) NO. 3)	my 17/10/93	ÉPA I.D. NO.	
8. TYPES OF REGULATED DANGEROUS WA instructions for this section carefully—Enter	STE ACTIVITIES YOUR I	BUSINESS IS C	CONDUCTING (Read & follow r 8.C. below that may apply).
8.A. HAZARDOUS WASTE ACTIVITIES (See instr			
1. GENERATOR ²¹ 🗆 1a. Conduct on-site			
2. TRANSPORTER 28. Transport Was	ttes Commercially ffor his	re). □ Air (3) □ R	ail (4) 🗆 Water (5) 🗀 Othe
, 	☐ Facility accepts waste Process conducted or av (1) ☐ Treatment (2) ☐ (4) ☐ Other (specify in c Current Part A/ Part B Process ☐ Yes	allable at this f Storage (>90 o comments).	acility;
5. PERMIT-BY-RULE FACILITY			•
6. MARKET OR BURN DANGEROUS WAS	TE EUEL &		. D
C. MARKET ON BORN DANGEROUS WAS			
8.B. USED-OIL FUEL ACTIVITIES.	oc. □ pumer, (C	OMPLETE 8c.—	TYPE OF COMBUSTION DEVICE)
1. OFF-SPECIFICATION USED-OIL FUELS-18.	Generator Marketing to Burns	r 1h 🗆 Other M	erketer to El Burner (Complete 9)
2. SPECIFICATION USED-OIL FUEL MARKETER (
8.C. DANGEROUS WASTE OR OFF-SPECIFICATION	ON USED-OIL FUEL BURN	IING: TYPE OF	COMBUSTION DEVICE.
(see instructions for definitions of combustion devices) 1. 🗆 Utility Boiler 2. 🗀 Indi	ustrial Boiler 3. 🗆	Industrial Furnace.
9. WASTE IDENTIFICATION (Copy this page if you have sheets)	more than 5 waste streems—other	Information (sections	s 8 and 10-12) not needed on continuation
A. M. B.		ANGEROUS	D. W E.
DESCRIPTION OF WASTE(S)		STE NUMBER efer to WAC 173-303)	OR ACTUAL ANNUAL OF BEAUTY STATE QUANTITY STATE OF STATE STA
1 FOOD PEAC	NE TIME ANY	22	250/6
1 10		1-1-1-1	
THAT WILL B SOLBS NOTO	HANGED PAST DYENT	1 . ; ;	
3 FACH THREE YEARS & CHA	4 1 1	1-1-1-1	
FILTER THAT WILL B 850		1 1 1	
10. ESTIMATED MAXIMUM QUANTITY of all waste ing batch. In 10.D. indicate maximum to be according to the second second second second second second second second second second second second second second second second sec	s, listed above, to be pro cumulated on-site prior to	oduced in any go shipment.	jiven month or per process-
10.A. (Batch Frequency)	OUANTITY WEIGHT 10.8	PER MON	TH OUANTITY WEIGHT
10.C. ONE-TIME-ONLY JOHN 10.C.	10.D. AMOUNT TO E	BE ACCUMULAT	ED OUANTITY WEIGHT
11. COMMENTS 78 Cran/15 BL NAU 75	•		
28th F1001, 10	on, THE BURGE	Cs Cs	or density.
New York, New	4212-10019	7	
			
<u> </u>	-		
•.•			
	 		
12. CERTIFICATION			
I certify under penalty of law that I have personally exam documents, and that based on my inquiry of those individ			
submitted information is true, accurate, and complete, I a	uala immediately responsible	for obtaining the	information I believe that the
submitted information is true, accurate, and complete. I a including the possibility of line and imprisonment. SIGNATURE	uala immediately responsible	for obtaining the icant penalties fo	information I believe that the

U.S. ENVIRONMENTAL PROTECTION AGENCY

ACKNOWLEDGEMENT OF NOTIFICATION OF HAZARDOUS WASTE ACTIVITY (VERIFICATION)

THIS IS TO ACKNOWLEDGE THAT YOU HAVE FILED A NOTIFICATION OF HAZARDOUS WASTE ACTIVITY FOR THE INSTALLATION LOCATED AT THE ADDRESS SHOWN BELOW TO COMPLY WITH SECTION 3010 OF THE RESOURCE CONSERVATION AND RECOVERY ACT (RCR4). YOUR EPA IDENTIFICATION NUMBER MUST BE INCLUDED ON ALL SHIPPING MANIFESTS FOR TRANS-PORTING HAZARDOUS WASTES: ON ALL ANNUAL REPORTS THAT GENERATORS OF HAZARDOUS WASTE, AND OWNERS AND OPERATORS OF HAZARDOUS WASTE TREATMENT, STORAGE AND DISPOSAL FACILITIES MUST FILE WITH EPA; ON ALL APPLICATIONS FOR A FEDERAL HAZARDOUS WASTE PERMIT; AND OTHER HAZARDOUS WASTE MANAGEMENT REPORTS AND DOCUMENTS REQUIRED UNDER SUBTITLE C OF RCRA.

EPA I.D. NUMBER-->

WAD988475992

MAILING ADDRESS-->

BELLEVUE CLEANING VILLAGE 110 108TH AVE NE

BELLEVUE

98004

INSTALLATION ADDRESS--> 110 108TH AVE NE

BELLEVUE

WA 98004

08/14/1990

DEPARTMENT OF ECOLOGY

Send To:
Washington Department of Ecology
Hazardous Waste Information & Planning
Attn: DW Notifications
P.O. Box 47858
Olympia, WA 98504-7658
(206) 459-6387 WASTEGAM'Z MEN D. WOH

DEPARTMENTAL USE ONLY
REC'D UN 1 4 1993
LOG QUUN 1 4 1993
REVIEW JUN 2 5 1993 91 92
G/WAC
WA

NOTIFICATION OF DANGEROUS WASTE ACTIVITIES

4 🗆 4 5:00=4:00=4:0	THOSE HAULT WOLLALLES	
A. FIRST NOTIFICATION (No previous application has been made for this site.)	B. REVISED NOTIFICATION DATE 1	_
(Complete Sections 1F, 2-8 & 13. Enter existing atts ID # in IF.)	(Complete all sections of the form. Enter existing site ID # in 1E) D. REACTIVATE SITE ID # (Complete all sections of the	
E. CANCEL SITE ID # DATE (Site closed—no longer own or conduct business at this site.	Error previously assigned site ID 8 in 1F.)	
Complete Sections 1F, 2-8 & 13. Enter existing site ID # in 1F.)	F. EXISTING SITE ID # WA DORN UITIS 916 (Complete for Items 1B, C, D & E only.)	72
2.A. WASHINGTON STATE DEPARTMENT OF REVENUE REGISTRATION (TAX) NUMBER	2.B. SIC CODE(S)	
600-399-067	PRIMARY SECONDARY (2) OTHER	
2.C. TYPE OF BUSINESS CONDUCTED AT THIS	SITE ALL CLASSICA	
3. NAME OF INSTALLATION	11.77 Missipani, 7	प :
BELLENUE CLEAN	NE VILLAGE ASSOC	-
4. EOCATION OF INSTALLATION (Attach site loca	otion map.)	
Street	the second of the transmit will be a second	; ;
PRIVE SUITE	ME " " "	7
County Name	oelf	,,
City or Town		
BELLEVILE	State ZIP Code	
5. INSTALLATION MAILING ADDRESS	WA98004 TREE	कुः
Street or PO Boy 1 305 10 10 10 10 10 10 10 10 10 10 10 10 10	· 文文· · · · · · · · · · · · · · · · · ·	ign.
10017 115161EIN 1AVIE 6	F	<u> </u>
City or Town	State ZIP Code	
BIETTIEVAE	WA 9181010171-1111	1
6.A. INSTALLATION CONTACT Name (last)		
A B B A P A P A A P	(first)	
Job Title	MANOOR]
DWKER	Phone Number	
6.B. INSTALLATION CONTACT MAILING ADDRESS	766-649-2897	k
Street or P.O. Box (F you A) (1)
507 156 AVE PE		7
City or Town Auchora	State ZIP Code	┨
7.A. NAME OF INSTALLATION'S LEGAL OWNER	WA 981010171-111	1
Dane as dare		
Street or P.O. Box]
City or Town	State ZIP Code	ļ
		{
7.B. PROPERTY OWNERSHIP (Also provide addres	s in section 12 if different from 7A.)	
CHARLES BENENSON		
7.C. OWNER TYPE 7	D. PROPERTY TYPE	
[P]	D. PROPERTY TYPE	

U.A	(Same as item No. 3)	' 		8	.B. SITE ID #	
_			•		,	
9.	TYPES OF REGULATED instructions for this section	careiully-Ente	er an "x" in any section	ons of 9.A., 9.B., or 9	9.C. below that may	(Read & follow apply).
9.A	. HAZARDOUS WASTE AC	TIVITIES (See i	instructions for defini	tions of these activit	ies).	eli i i Alj
	_] 1a. Conduct o			•	Si Hill
	☐ 2. TRANSPORTER		ort Wastes Commerc	ially (for hire)		1 1 t= 1 te
		2b. Modes of	Transport: (1) High	way (2) □ Air (3)	□ Rail (4) □ Wate	r (5) □ *Other
	_				· (*Sp	ecity in comments)
	3. MANAGEMENT FA	CILITY (TSD) 3	Ba. Facility accepts	wastes from OFF-	SITE Generators.	
~	1	3	3b. Process conducte	ed or available at this	s facility;	
	1		(4) ☐ Other (spec	(2) Storage (3)	☐ Disposal	
	•	3	3c. Current Part A	_//		
	4. IMMEDIATE RECYC	•	Part B Process	□ Yes □ No		
	☐ 5. PERMIT-BY-RULE F					
	•					
	☐ 6. MARKET OR BURN					
4:		6	ic. 🗆 Burner. (COMPL	ETE 9c.—TYPE OF	COMBUSTION DEV	ICE)
9,B.	USED-OIL FUEL ACTIVITI	ES				
4	1. OFF-SPECIFICATION US	ED-OIL FUELS-1	e. Generator Marketing	to Burner 1b. C Other	Marketor tc. □. Burn	er (Comolete Sc.)
	2. SPECIFICATION USED-O					
9.C.	DANGEROUS WASTE OF					
	(see instructions for definitions					
	' ' '				oller .3. 🗀 Industrial I	fumace.
10.	WASTE IDENTIFICATION	(Copy this page	if you have more that	in 5 waste streams)		5 X 5 1
	A	7	en community of the second	B. 27	C.	
, i	DESCR	PTION OF WASTE	il i i i i i i i i i i i i i i i i i i	DANGEROUS	ESTIMATED	NOTE OF THE PARTY
				WASTE NUMBER(S	WASTE QUAN	TY HE
1						温泉 本 (3)
2	The last of the la	A STATE OF THE STA	CHAPTE -	1 1 10 10 10 10 10 10 10 10 10 10 10 10		勝 数 wi こがわり ・・ ソ
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3.	Callac	1. Har	- Minima de	▎ ▎ ┤┤┤┤		
4	7. 7	Janes Janes			-}-{-}-{-}-	╅
\vdash	- Lyu Clas	rle pl				
-5		, S.		┠╶╏╌╏╌╏╶╏ ╌╏	-	1.1
11.	Complete sections A, B or C	Section D is n	nandatory			
	☐ (Batch Frequenty		.B. PER MONTH		11.C. ONE-TIM	45 ANN V
	QUANTITY WEIGHT		QUANTITY	WEIGHT	OUANTE	
	CODE	}				
	CODE .		•	CODE		CODE
11.D.	AMOUNT TO BE ACCUM	MULATED ON-S	SITE PRIOR TO SHIP	MENT CUANT	TY WEIGHT	
					COOE	
12.	COMMENTS 4	ب	/	<u>,</u>		
<u> </u>	- Golle	non (le	amon (il	lace is n	at any ma	ne
<u></u>			ellenge (Il	and til	THE P PIL	lades
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	have any	aneste	us plias	2 Clacker	e 66198 8	77
13.	CERTIFICATION 11/	F11988	475992			
Ia	ertify under penalty of law that	t I have persona	ally examined and am	familiar with the info	mation submitted in	this and all
and	acnea aocuments, and thai	l Dased on my	inquiry of those ind	ividuale immodiatolu	roenancible for ab	toining the
per	ormation, I believe that the sinalties for submitting false in	formation, includ	illion is true, accurate, ling the possibility of l	and complete. I am ine and imprisonmen	aware that there are it.	significant
	ATURE 1			L TITLE (type or print)	DATE SIGNED	
	H. Y/MK		KASOU.P	4BBASPIAM	JAME 10	199
ECL (Rev	592) BACK Frame		// / / / /			

EXHIBIT F: Environmental Data Resources, Inc. Radius Profile



Creators of Toxicheck/®

EDR-RADIUS MAPTM
REPORT

Benenson Bellevue/Phase I/1153 100 108th Avenue NE Bellevue, WA 98004

March 21, 1994

Inquiry Number: 42148-1

The Source For Environmental Risk Management Data

3530 Post Road Southport, Connecticut 06490

Nationwide Customer Service

Telephone: 1-800-352-0050 Facsimilie: 1-800-231-6802

THE EDR-RADIUS MAPTM

The EDR-Radius Map[™] is a screening tool which maps sites with potential or existing environmental liabilities. Specified government databases are searched in accordance with the ASTM Standard (E 1527) or custom specifications provided by the user.

The EDR-Radius Map[™] includes the following three maps:

Topographic Map -- four square mile area:

- o displays a two mile radius around the target property
- o displays the USGS topographic contours and selected road features (i.e., major street names, and hydrographic data)

Overview Map:

- o displays a one-mile (ASTM Standard) or customer specified radius around the target property
- o includes major geographic attributes available in EDR's computer mapping system (i.e., street names, available hydrography)

Detail Map:

- o displays a quarter-mile radius or customer specified radius around the target property and provides the user with a close-up view
- o includes all geographic attributes available in EDR's computer mapping system (i.e., street names, address ranges)
- o helps the user locate "orphan" sites, those sites with insufficient address information such that they can only be identified as within the zip code, city, or county of the target property

Please call EDR's Nationwide Customer Service at 1-800-352-0050 (8am - 8pm EST) with questions or comments about your report.

Thank you for your business!

Disclaimer

EDR makes no representation or warranty regarding the accuracy, quality or completeness of any data provided by governmental or other entity used by EDR in the preparation of its reports. The customer shall take full responsibility for the use of EDR reports. No warranty of merchantability or of fitness for particular purpose, expressed or implied, shall apply and EDR specifically disclaims the making of any such warranties. In no event shall EDR be liable to anyone for special, incidental, consequential or exemplary damages.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Last Contact: To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Elapsed ASTM days: Provides confirmation that this EDR report meets or exceeds the 90-day requirement of the ASTM standard.

FEDERAL ASTM RECORDS:

CERCUS: Comprehensive Environmental Response, Compensation and Liability Information System; Source: United States Environmental Protection Agency (USEPA). CERCUS contains information on sites identified by the USEPA as abandoned, inactive or uncontrolled hazardous waste sites which may require cleanup.

Date of Government Version: 11/30/93 Date Made Active at EDR: 01/26/94 Date of Data Arrival at EDR: 12/29/93

Elapsed ASTM days: 28

ERNS: Emergency Response Notification System; Source: USEPA and the National Reponse Center of the US Coast Guard. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 06/30/93 Date Made Active at EDR: 10/29/93 Date of Data Arrival at EDR: 09/13/93

Elapsed ASTM days: 46

NPL: National Priorities List (Superfund); Source: USEPA. The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program.

Date of Government Version: 01/10/94
Date Made Active at EDR: 03/09/94

Date of Data Arrival at EDR: 01/26/94

Elapsed ASTM days: 42

RCRIS: Resource Conservation and Recovery Information System; Source: USEPA. RCRIS includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA).

Date of Government Version: 06/30/93 Date Made Active at EDR: 10/20/93

Date of Data Arrival at EDR: 08/16/93

Elapsed ASTM days: 65

FEDERAL NON-ASTM RECORDS:

FINDS: Facility Index System; Source: USEPA. FINDS contains both facility information and "pointers" to other sources that contain more detail. These include: RCRIS, PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), FATES (FIFRA [Federal Insecticide Fungicide Rodenticide Act] and TSCA Enforcement System, FTTS [FIFRA/TSCA Tracking System]). CERCLIS, DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), FRDS (Federal Reporting Data System), SIA (Surface Impoundments), CICIS (TSCA Chemicals in Commerce Information System), PADS, RCRA-J (medical waste transporters/disposers), TRIS and TSCA.

Date of Government Version: 09/14/93

PADS: PCB Activity Database; Source: USEPA. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 10/02/93

RAATS: RCRA Administration Action Tracking System; Source: USEPA. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA.

Date of Government Version: 01/04/94

TRIS: Toxic Release Inventory System; Source: USEPA. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/91

TSCA: Toxic Substances Control Act; Source: USEPA. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site. USEPA has no current plan to update and/or re-issue this database.

Date of Government Version: 05/15/86

HMIRS: Hazardous Materials Incident Report System; Source: United States Department of Transportation (DOT). HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 06/30/93

STATE ASTM RECORDS:

LUST: Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 01/07/94 Date Made Active at EDR: 02/23/94 Date of Data Arrival at EDR: 01/25/94 Elapsed ASTM days: 29

SHWS: State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: 10/13/93
Date Made Active at EDR: 11/19/93

Date of Data Arrival at EDR: 11/01/93 Elapsed ASTM days: 18

SWF/LS: Solid Waste Facilities/Landfill Sites. SWF/LS type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Section 2004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 04/15/93 Date Made Active at EDR: 08/23/93 Date of Data Arrival at EDR: 06/08/93 Elapsed ASTM days; 76

UST: Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Information in NEDIS varies by state program.

Date of Government Version: 06/15/93 Date Made Active at EDR: 09/08/93 Date of Data Arrival at EDR: 07/02/93 Elapsed ASTM days: 68

Historical Database(s)

Former Manufactured Gas (Coal Gas) Sites: The existence and location of Coal Gas sites is provided exclusively to EDR by Real Property Scan, Inc. @Copyright 1993 Real Property Scan, Inc.

Disclaimer Provided by Real Property Scan, Inc.

The information contained in this report has predominanantly been obtained from publicly available sources produced by entities other than Real Property Scan. While reasonable steps have been taken to insure the accuracy of this report, Real Property Scan does not guarantee the accuracy of this report. Any liability on the part of Real Property Scan is strictly limited to a refund of the amount paid. No claim is made for the actual existence of toxins at any site. This report does not constitute a legal opinion.

MANUFACTURED GAS PLANT (Coal Gas) SITES

Prior to the widespread use of natural gas, combustible gas manufactured from coke, coal and oil served as the major fuel for urban heating, cooking and lighting in the U.S. for over 100 years. Beginning in 1816, manufactured gas or "town gas" was produced at thousands of plant sites throughout the United States. Pipeline distribution of natural gas during the 1950s rapidly replaced manufactured gas as the major gaseous fuel. As a result, manufactured gas production gradually came to an end through the 1950s and 1960s.

Along with the production of large volumes of gas, manufactured gas plants also yielded large quantities of by-products during their operation, including complex mixtures of coal tars, sludges, oils and other chemicals. Coal tar was the principal by-product from the gasification process. Although some of the coal tars were refined into a variety of marketable products, substantial volumes remained unused and were considered as waste. Coal tar and other waste products from the gasification plants were frequently disposed on the plant site in unlined pits or in some cases injected underground through injection wells. These practices have left behind subsurface coal tar contamination at many former manufactured gas plant (MGP) sites.

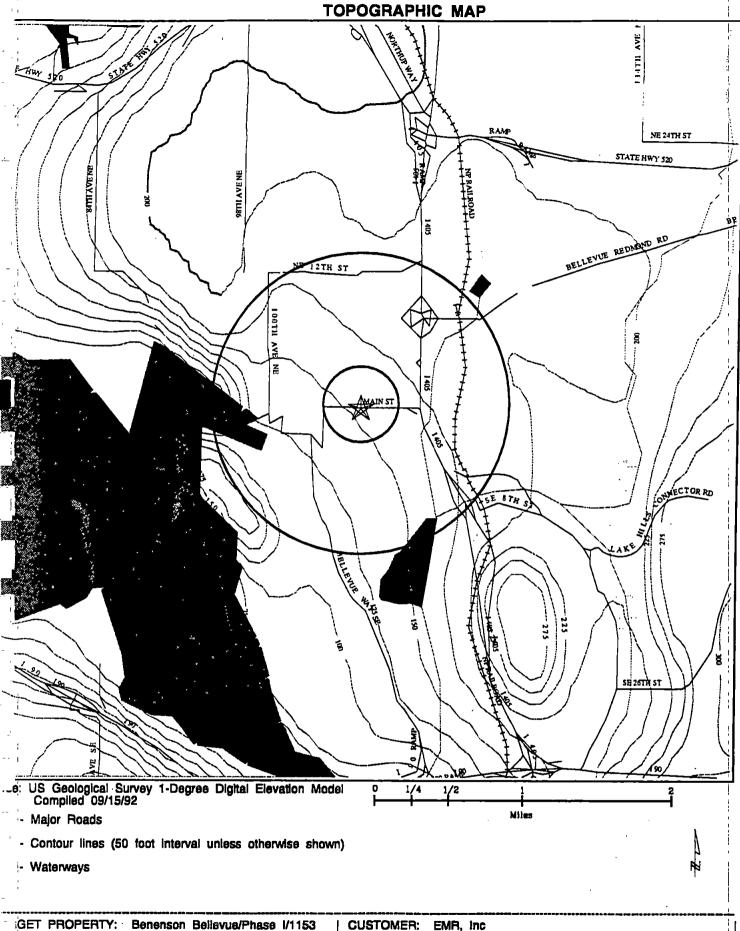
Coal tar is the waste of primary concern at MGP sites. Coal tars are relatively dense, viscous liquid mixtures. The composition of coal tar varies but is usually a mixture of the following:

- Polycyclic aromatic hydrocarbons (PAH), such as benzo-pyrene, naphthalene, anthracene, acenaphthene and phenanthrene.
- Phenolic compounds, including phenol and methylphenols.
- Light aromatic compounds, such as benzene, toluene and xylenes.
- Miscellaneous organics, such as dibenzofuran.
- Small quantities or inorganic chemicals, such as iron, lead, copper, zinc, various sulfides, cyanides and nitrates.

Coal tar is somewhat heavier than water and tends to migrate vertically downward in the subsurface until it encounters a stratum that it cannot permeate. There it resides in an immobile state or spreads slowly. It can then serve as a continuous source of groundwater contamination in that PAH and other constituent compounds are slowly solubilized. Coal tars in the subsurface at MGP sites have persisted for decades because they are sparingly soluble, resistant to biodegration and they move slowly through porous media. The problem of coal tars in the subsurface at old MPG sites represents a significant part of the general problem of subsurface contamination with dense organic liquids in the United States.

The residue from former MGP sites often contains significant amounts of hazardous substances which can cause contamination of both soil and groundwater. A number of these sites are already included on EPA's CERCLIS list and the hazardous waste site lists of many states. Individual site cleanup costs have been estimated in the million dollar plus range.

The information included in EDR's "Former Manufactured Gas Plant Site" Database is provided under exclusive license by Real Property Scan, Inc. The information in this report has predominantly been obtained from publicly available sources produced by entities other than Real Property Scan. While reasonable steps have been taken to insure the accuracy of this report, Real Property Scan does not guarantee the accuracy of this report. Any liability on the part of Real Property Scan is strictly limited to a refund of the amount paid. No claim is made for the actual existence of toxins on any site. This report does not constitute a legal opinion.



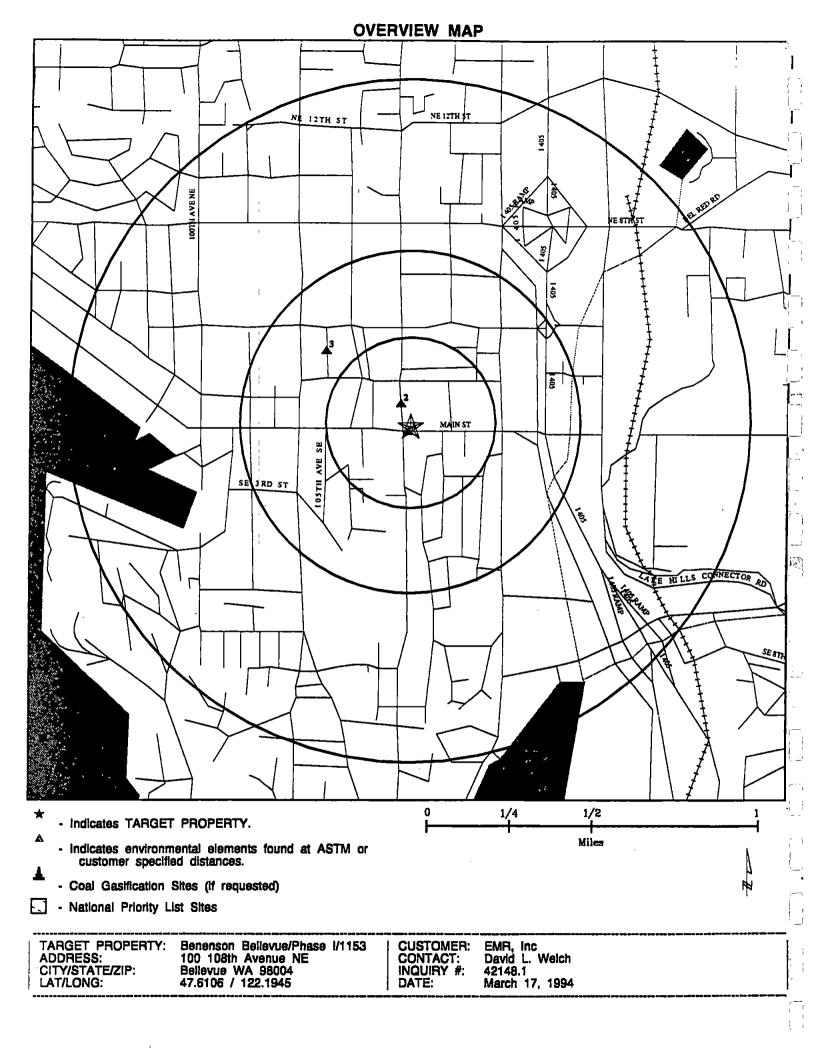
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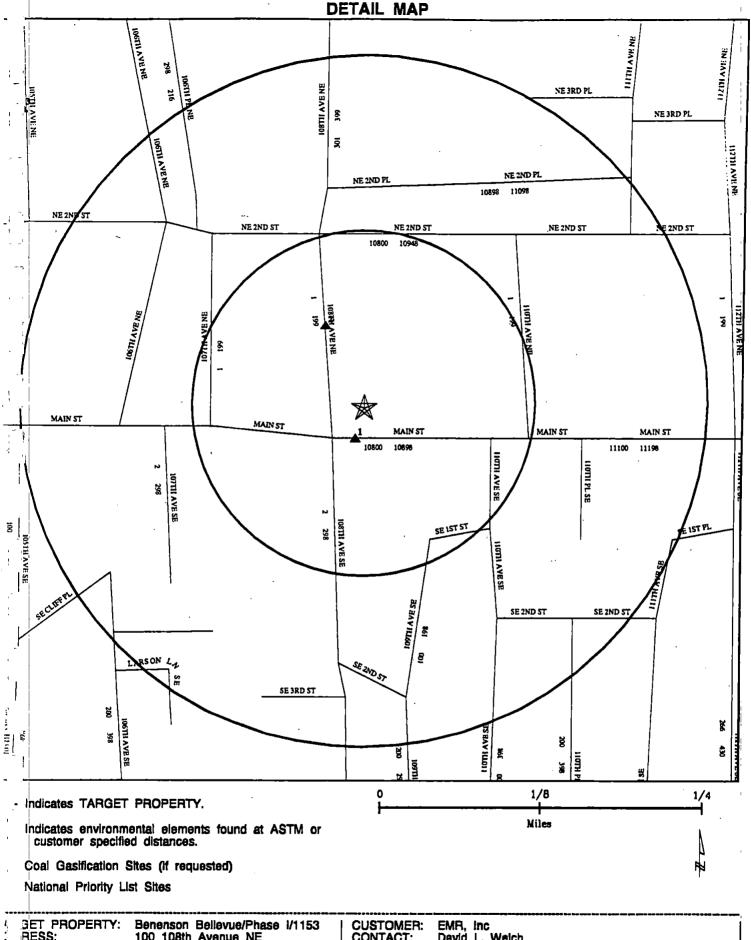
Benenson Believue/Phase I/1153

100 108th Avenue NE Believue WA 98004 47.6106 / 122.1945

CONTACT: INQUIRY #: DATE:

EMR, Inc David L. Welch 42148.1 March 17, 1994





GET PROPERTY:
RESS:
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AT/LONG:

100 108th Avenue NE Believue WA 98004 47.6106 / 122.1945

CUSTOMER: CONTACT: INQUIRY #: DATE:

EMR, Inc David L. Welch 42148.1 March 17, 1994

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
NPL		1.000	0	0	0	0	NR	0
ACRIS-TSD		1.000	0	0	0	0	NR	0
State Haz. Waste	r	1.000	0	0	1	0	NR	1
CERCLIS	4	0.500	0	0	0	NR	NR	0
State Landfill		0.500	0	0	0	NR	NR	0
LUST		0.500	1	0	0	NR	NR	1
UST		0.125	1	NR	NR	NR	NR	1
RAATS		TP	NR	NR	NR	NR	NA	0
RCRIS Sm. Quan. Gen.		0.125	1	NR	NR	NR	NR	1
RCRIS Lg. Quan. Gen.		0.125	0	NR	NR	NR	NR	O
HMIRS		TP	NR	NR	NR	NR	NR	0
PADS		TP	NR	NR	NR	NR	NR	0
ERNS		TP	NR	NR	NR	NR	NR	0
FINDS		TP	NR	NR	NR	NR	NR	o
TRIS		TP	NR	NR	NR	NR	NR	0
TSCA		TP	NR	NR	NR	NR	NR	0
Coal Gas		1.000	0	0	0	0	NR	0

TP = Target Property

NR = Not Requested at this Search Distance

^{*} Sites may be listed in more than one database

MAP FINDINGS

Map ID Direction Distance	Site	Database(s)	EDR ID Number EPA ID Number
	Coal Gas Site Search: EDR does not presently have coal gas site information available	in this state.	
1 SSW < 1/8	CHEVRON 92581 10812 MAIN ST BELLEVUE, WA 98004	LUST UST	U000711819 N/A
2 NNW < 1/8	BELLEVUE CLEANING VILLAGE 110 108TH AVE NE BELLEVUE, WA 98004	RCRIS-SQG FINDS	1000455891 WAD988475992
3 NW 1/4-1/2	TOWN & COUNTRY CLEANERS INC 310 105TH AVE NE BELLEVUE, WA 98004	RCRIS-SQG SHWS FINDS	1000303959 WAD027264118

ORPHAN SUMMARY

City	EDR ID	Site Name			Site Address		Zip	Database(s)
BELLEVUE	1000417902	FACTORIA PIT	SUNSET RAVINE		132ND AV SE	& SE 38TH ST	98005	СНІ
BETTEANE BETTEANE BETTEANE BETTEANE BETTEANE BETTEANE	\$100270335 \$100270343 U000801082 U000922823 \$100655653 1000658846 \$100270342	BELLEVUE GE PRESTIGE ST MCKEE CONS CHEVRON US	PARTNERSHIP PROPR	īΥ	13910 NE 20TH 12700 N.E. BEI 10608 N E 4TH 10530 MAIN ST 10042 MAIN ST 10011 MAIN ST NW OF NE 8TH AVE NE	STREET	98005 98005 98004 98004 98004 98004	H KU U K GIKU H
Database Code B = PADS C = CERCLIS D = HMIRS E = ERNS	G = F		L = State Landfill N = NPL Q = RCRA-LQG S = TRIS	บ - V -	RCRIS-TSD UST RAATS TSCA	Y = Dry Well 9 = Coal Gas		

Appendix B

Kennedy/Jenks Consultants
Standard Procedures

STANDARD PROCEDURE: HOLLOW STEM AUGER DRILLING AND SAMPLING

Soil borings will be drilled using 8-inch inside diameter hollow stem auger continuous flight drilling equipment. A continuous log of the earth materials encountered will be recorded by the field geologist during drilling and will be lithologically described and classified using the Unified Soil Classification System (USCS).

Relatively undisturbed soil samples, suitable for chemical analyses, will be collected from immediately below the ground surface at each of the borings and at 5-foot vertical intervals thereafter, beginning at 5 feet below ground surface (bgs) and continuing to total boring depth.

Soil samples will be collected by lowering a precleaned split-barrel sampler down the inside of the hollow stem auger. The sampler will be driven 18 inches (or to refusal) with standard 140-pound hammer dropping 30 inches. Hammer blow counts will be recorded every 6 inches over the 18-inch interval. The split-barrel sampler will be fitted with precleaned 2.5-inch diameter, 3-inch or 6-inch long stainless steel or brass sleeves. After driving each sample, the sampler will be retrieved from the borehole and split open to access the sample sleeves. The exposed soil at each end of each sample sleeve submitted for chemical analysis will be immediately covered with the Teflon sheeting and fitted with plastic caps sealed with tape. Appropriately sealed and labeled samples will be stored in chilled coolers for transport to the analytical laboratory. Chain-of-custody records will be completed in the field and transferred with the samples to the analytical laboratory.

Soil samples will be screened using a field soil pH analysis method to indicate possible soil exposure to plating rinsewaters. Soil samples will be screened in the field for organic vapor emissions using a Foxboro Century Vapor Analyzer Model No. 128 (OVA). This screening will be accomplished by extruding the sample core into a plastic bag, after which the sample will be disaggregated. After the sample is allowed to volatize for approximately five minutes, the OVA probe will be inserted into the bag's headspace. The OVA readings in volumetric parts per million (ppmv) will be recorded on the boring logs. The purpose of the screening is to detect organic vapors that may be a result of volatile organic compound (VOCs) in the subsurface and use this information to select soil samples for chemical analyses.

All downhole drilling and/or sampling equipment will be properly cleaned (i.e., steam cleaned or washed with Alconox and water) between borings and sampling events. Soil cuttings from each boring drilled during this investigation will be placed into plastic-lined 55-gallon drums. All borings will be backfilled with a sand/bentonite mixture at a 3:1 ratio having a permeability lower than, or equal to, the native earth materials penetrated by the boring. A concrete patch will be poured at the ground surface in each boring location. Disposal methods for the soil cuttings will be based upon the analytical results.

A geologist will be present during all drilling activities to 1) supervise the drilling subcontractor, 2) collect and package soil samples, and 3) record a geologic log of materials penetrated.

STANDARD PROCEDURE: **BOREHOLE LOGGING**

This guideline describes procedures followed by Kennedy/Jenks Consultants personnel for classifying soils and for preparing borehole logs and other types of soil reports.

Borehole logging is the systematic observation and recording of geologic and hydrogeologic information from subsurface borings and excavations. As adopted by Kennedy/Jenks Consultants, and in accordance with general practices followed by the profession, the Unified Soil Classification System (USCS) is used to identify, classify, and describe soils.

RECOMMENDED MINIMUM REQUIREMENTS

Soil classification and borehole logging will be conducted by a geologist or another professional trained in the classification of soils. The following equipment is typically used during borehole logging.

- Boring log forms
- Chain of custody forms
- Request for analysis forms
- **USCS Table and Classification Chart**
- Previous reports and boring logs
- Pocket knife or putty knife
- Hand lens
- Supply of clean water
- Dilute hydrochloric acid
- Gloves
- Personal protective clothing and equipment, as described in the project health and safety plan

B-3

- Sample containers
- Decontamination equipment and supplies
- Aluminum foil and paper towels.

PROCEDURE FOR SOIL CLASSIFICATION

Soils are typically logged in conjunction with advancing boreholes and sampling subsurface soils. Although the guideline focuses on classifying soil samples obtained from boreholes, this particular procedure also applies to soils and sediments collected using other techniques (e.g., post hole digger, scoop, Van Veen sampler, and backhoe).

The USCS categorizes soils into 15 basic groups, each with distinct geologic and engineering properties. The following steps are required to classify a soil sample.

- 1. Observe basic properties and characteristics of the soil. These include grain size grading and distribution and influence of moisture on fine-grained soil.
- 2. Assign the soil a USCS classification and denote it by the standard group name and symbol.
- 3. Provide a written description to differentiate between soils in the same group, if necessary.

Many soils have characteristics that are not clearly associated with a specific soil group. These soils might be near the borderline between groups, based on either grain size grading and distribution or plasticity characteristics. In this case, assigning dual group names and symbols might be appropriate (e.g., GW/GC or ML/CL).

The three basic soil groups are:

- <u>Coarse-Grained Soils</u>. For soils in this group, more than half of the material is larger than No. 200 sieve (0.074 mm).
- <u>Fine-Grained Soils</u>. For soils in this group, one half or more of the material is smaller than No. 200 sieve (0.074 mm).
- <u>Highly Organic Soils</u>. This group includes soils with high organic content, such as peat.

Note: No. 200 sieve is the smallest size that can be seen with the naked eye.

Classification of Coarse-Grained Soils

Coarse-grained soils are classified on the basis of:

- 1. Grain size and distribution
- 2. Quantity of fine-grained material (i.e., silt and clay)
- 3. Character of fine-grained material

Classification uses the following symbols.

Basic Symbols	Modifying Symbols
G - gravel	W - well graded
S - sand	P - poorly graded
	M - with silt fines
	C - with clay fines

The following are basic facts about coarse-grained soil classification.

- The basic symbol G is used if the estimated percentage of gravel is greater than that for sand. In contrast, the symbol S is used when the estimated percentage of sand is greater than the percentage of gravel.
- Gravels range in size from 3-inch to 1/4-inch (No. 4 sieve). Sands range in size from No. 4 sieve to No. 200 sieve. Use the Grain Size Scale Used by Engineers (ASTM Standards D422-63 and D643-78) to further classify grain size as specified by the USCS.

Note: This grain size scale differs from the Modified Wentworth Scale used in teaching most geologists. Also, it introduces a distinction between sorting and grading.

- Modifying symbol W indicates good representation of all particle sizes.
- Modifying symbol P indicates that there is a predominant excess or absence of particular sizes.
- The symbol W or P is only used when there is less than 15 percent fines in a sample.
- Modifying symbol M is used if fines have little or no plasticity (silty).
- Modifying symbol C is used if fines have low to high plasticity (clayey).
- The following rules apply for the written description of the soil group name.

Types of Soil	Rule
Sands and gravels	Less than 5 percent fines
Sands (or gravels) with fines	5 to 15 percent fines
Silty (or clayey) sands or gravels	Greater than 15 percent fines

- Other descriptive information includes:
 - Color/discoloration
 - Maximum grain size
 - Composition grains
 - Approximate percentage of gravel, sand, and fines (use a percentage estimation chart)

<u>Modifiers</u>	<u>Descriptions</u>
Trace	Less than 5 percent
Few	5 to 10 percent
Little	15 to 25 percent
Some	30 to 45 percent
Mostly	50 to 100 percent

- Mineralogy
- Grain shape (round, subround, angular, subangular)
- Moisture (dry, moist, wet)
- Structure
- Organic material
- Cementation (use HCL)
- Odor

Classification of Fine-Grained Soils

Fine-grained soils are classified on the basis of:

- 1. Liquid limit
- 2. Plasticity

Classification uses the following symbols.

Basic Symbols	Modifying Symbols
M - silt C - clay O - organic Pt - peat	L - low liquid limit (Lean) H - high liquid limit (Fat)

The following are basic facts about fine-grained soil classification.

• The basic symbol M is used if the soil is mostly silt, while symbol C applies if it consists mostly of clay. Use of symbol O indicates that organic matter is present in an amount sufficient to influence soil properties. The symbol Pt indicates soil that consists mostly of organic material.

- Modifying symbols are based on the following hand tests conducted on a soil sample.
 - Dry strength (crushing resistance)
 - Dilatency (reaction to shaking)
 - Toughness (consistency near plastic limit)
- Soil designated ML has little or no plasticity and can be recognized by slight dry strength, quick dilatency, and slight toughness.
- CL indicates soil with slight to medium plasticity, which can be recognized by medium to high dry strength, very slow dilatency, and medium toughness.
- OL is used to describe a soil that is less plastic than CL soil and can be recognized by slight to medium dry strength, medium to slow dilatency, and slight toughness.
- MH soil has slight to medium plasticity and can be recognized by low dry strength, slow dilatency, and slight to medium toughness.
- Soil designated CH has high plasticity and is recognizable by its high dry strength, no dilatency, and high toughness.
- OH soil is less plastic than CH soil and can be recognized by medium to high dry strength, slow dilatency, and slight to medium toughness.
- Other descriptive information includes:
 - Color
 - Moisture
 - Consistency (very soft, soft, firm, hard, very hard)
 - Structure
 - Compactness (loose, dense) for silts
 - Odor

PROCEDURE FOR LOGGING REFUSE

This procedure applies to the logging of subsurface samples collected from a landfill or other waste disposal site.

- 1. Observe refuse as it is brought up by the hollow stem auger or bucket auger.
- 2. If necessary, place the refuse in a plastic bag to examine the sample.
- 3. Record observations according to the following.
 - Composition (by relative volume), e.g., paper, wood, plastic, cloth, cement, construction debris. Use such terms as "mostly" or "at least half". Do not use percentages.

- Moisture content: dry, damp, moist, wet.
- State of decomposition: highly decomposed, moderately decomposed, slightly decomposed, etc.
- Color: obvious mottling included.
- Texture: spongy, plastic (cohesive), friable.
- Odor.
- Combustible gas indicator readings (measure downhole).
- Miscellaneous: dates of periodicals and newspapers, degree of drilling effort (easy, difficult, very difficult).

REFERENCES

American Society for Testing Materials. Standard Practice for Description and Identification of Soils (Visual-Manual Procedure). ASTM D-2488. ASTM, Philadelphia, PA.

Compton, R. R. 1962. Manual of Field Geology. New York: John Wiley & Sons, Inc., New York, NY.

U.S. Department of the Interior. 1989. Earth Manual. Water and Power Resources Service, Washington, D.C.

Appendix C

Boring Logs

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	<u> </u>	<u> </u>	_				ON BEL		BORING/WELL I.D.: B- /			=
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CASING		TER:	N//				LENGTH				/A	
GRAVEL			N//		., ,	SEA		N/A	IC A	BOX TYPE: /		
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Survey Method:

Top of Casing Elevation:

PAGE 2 of 2

Elevation Reference:

Surface Elevation:

BORING/WELL I.D.: B- 2 PROJECT: BENENSON BELLEVUE LOCATION: BELLEVUE, WA OWNER: BENENSON CAPITAL CO. DATE COMPLETED:6-28-94 PROJECT #: 1153 MA 25' DIAMETER: MES 8" BORING DEPTH: LOG BY: D.L. WELCH N/A N/A DIAMETER: LENGTH: SLOT SIZE: SCREEN N/A TYPE: CASING DIAMETER: LENGTH: N/A N/A N/A BOX TYPE: N/A **GRAVEL PACK:** SEAL: DRILLING METHOD: HSA DRILLER: R. LABROSSE DRILLING CO.: CASCADE DRILL SAMP. METHOD: SPLIT-SPOON RIG TYPE: CME 75 LISCENCE #: Blow Count SOIL DESCRIPTION/CLASSIFICATION - 0 -UN PAVED SURFACE VICT DENSE, MIST, BROWN, GRAVELLY SILT SAND I BZA 50/4 5 - 5 -VERY DENSE, WOIST, BROWN, GRAVELLE - 10-GRAVEULY, SILT FINE SAND I C 54 4 - 15-VERY DELSE, moist, GRAT, GRAVERA L D 20 PAGE Top of Casing Elevation: Elevation Reference: of Z Surface Elevation: Survey Method:

										
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LISCENCE #	:				SAMP. METHOD: SPLIT-SPOON RIG TYPE: CME 75					
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_		DIAM						LENGTH	t: <i>N/A</i>	SL	OT SIZE: N/A
		DIAM							t: <i>N/A</i>	TY	(PE: N/A
-		ACK:		N/.			SEA		N/A		BOX TYPE: N/A
	-		CASC.	<u>ADE</u>	DR	?/LL			METHOD: H		DRILLER: R. LABROSSE
LISC	ENCE	#:		ı	1		SA	MP. ME	THOD: <i>SPLI</i>	T-SPOON	RIG TYPE: CME 75
Depth (ft)	Well Construction Groundwater Sample Recovery Sample # Blow Counts				PID Readings	Graphic Log	SOIL DESCRIPTION/CLASSIFICATION				
-0-							_				
									UHBANEC	SURFA	CE_
	1										,
-5-				Н	B-4/	5% /k	86	- 77L	E VERY SICT	DENSE Y, GRAN	E MOIST, BROWN VELLT SAHD
- 10-	OTTO			I	В	5/4	240	7	UERT DEA GRAVE	ASE, WO	LT BROWD, SANDT,
- 15-	1 Bertradolf			H	C	9/ b	2 8	Geselde	VERY DE SAHOY,	olse, h Gadusu	MOIST, GRAYISH BROWN
- 20-				こ !	Ģ	5g/b	156		VINT DEAT	SE, DAV	of wet zote)

- LABORATION SAMPLE

Top of Casing Elevation:

Survey Method:

Elevation Reference:

Surface Elevation:

PAGE ___ of _____

		, -						==		
		PROJEC	T: <i>BE</i>	VENS	ON BEL	LLEVUE	BORING	WELL I.D.:	3-5	
	MD	LOCATI	ON: E	BELLE	VUE, V	V A	OWNER:	BENENSON	CAPITAL	co.
INCOR	PORATED	PROJEC'	Γ#:	1153	1		DATE CO	OMPLETED: (5-28-9	4
BORIN	G DEPTH:	N ₂	多 15	-7	ER: 12-48"		D.L. WEL			
SCREE	N DIAME				LENGTH				V/A	
CASIN	IG DIAME	TER: N	<u>'A</u>		LENGTH	t: <i>N/A</i>	TY	/PE: /	V/A	
	EL PACK:	<u>N/</u>			AL:	<u> </u>		BOX TYPE:		<u> </u>
		ASCADE	DRIL			METHOD: H		DRILLER: R.		
LISCEN	ICE #:	<u> </u>		SA	MP. ME	THOD: SPLIT	T-SPOON	RIG TYPE:	CME_75	
Depth (ft)	Well Construction	Groundwater Sample Recovery	Sample #	Blow Counts PID Readings	Graphic Log	SOIL E	DESCRIPTIO	ON/CLASSIFIC	CATION	!
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	ctlps				\	VORY T	sexts 6	misTi	BROWN	
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	- T			./ i	Æ	VIENT D	Ects E/	MOIST, B ALK SICI	الم 	1
- 10-	Ē.	エ	BS	16 11]	SANDY	, GRAVE	4LY 51C	1	
	7.				1					
 	W				6					
<u> </u>					l i l				14 c 19 -i	300
				<i>j</i>] .	\	VERY D	colse, v	WY SILT	AT 15 W	
15-		1-1	10/7	64		SAHDI	, corre	3101		
	,					Ends of	BOM	ntc, BA	CKFU	
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		j								
- 20-										
Elevation	n Reference:		7	op of	Casing El	evation:			PAGE	,
Surface	Elevation:		S	urvey	Method:				/_ of	<u>/</u>
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"- 1 son Aront SAMPLE -

									
	OJECT: BEN	IENS	ON BEL	LLEVUE	BORING/WELL I.D.: B-6				
FMD	CATION: B	ELLE	VUE, V	NA .	OWNER: BENENSON CAPITAL CO.				
INCORPORATED PR	OJECT #:	1153			DATE CO	OMPLETED:	7-13-94		
BORING DEPTH:	N/A		DIAME	TER: N/A	LOG BY:	D.L. WEL	CH		
SCREEN DIAMETER		•	LENGTH				<u>V/A</u>		
CASING DIAMETER	. ,		LENGTH				V/A		
GRAVEL PACK: DRILLING CO.: CASO	N/A, BOWHG	SEA CODE	AL:	N/A	IC A	BOX TYPE: DRILLER: R.2			
LISCENCE #:	LADE DKIL								
Depth (f1) Well Construction	Sample Recovery Sample #	eadings			THOD: SPLIT-SPOON RIG TYPE: CME 75 SOIL DESCRIPTION/CLASSIFICATION				
				7/12/94	7)				
-0				BELOW	DRILLI.+	6 with	GEOBORNHG		
	A 122	2 0		VERY DEASE, MIST, LIGHT BROWN SILTY SAND (NO ODORS)					
-5- -10- 10- 10- 10- 10- 10- 10- 1	B 37	Z 0		VERT DEF FIRE : GRAV	si, ort sanot: Eccla	LIGHT B SILT (TRA	er FAL		
4126	T C 5%	0	9 9 9	GRADE PREBB	3 COAR	TILL USER, T	PACE		
-15-	D 5%	0		YERY DO SAND	NSE, E	ont, sicot	, GOAVELLY		
Elevation Reference:	To	p of	Casing El	evation:			PAGE		
Surface Elevation:	St	rvey	Method:	of;					

	PROJECT: BENENSON BELLEVUE									BORING	WELL I.D.: B	3-6	
T	V	ID	LOC	CATIC	DN:	BE	LLEV	UE, V	VA .	OWNER:	BENENSON	CAPITAL	CO.
I N C	ORPO	RATE	PRC	JECT	#:	1	153			DATE CO	OMPLETED: フ	13/94	
BOR	ING	DEPTH		N/.	A			DIAMET	ER: N/A	LOG BY:	D.L. WELC	CH	
SCR	EEN	DIAM	ETER:	N/				ENGTH	l: <i>N/A</i>	SL	OT SIZE: A	I/A	
CAS	ING	DIAM	ETER:	N/	A			ENGTH	l: <i>N/A</i>	T	YPE: ^	I/A	
GR/	VEL F	ACK:		N/.	A		SEA	L:	N/A		BOX TYPE:	N/A	,
DRIL	LING	CO.:	CASC	ADE	DR	'ILL	DRI	LING A	METHOD: F	ISA	DRILLER: R.	LABROSS	<i>E</i> ,
	ENCE			•				MP. ME	THOD: SPLI	T-SPOON	RIG TYPE:	CME_75	
Depth (ft)	dwater				Blow Counts	PID Readings	Graphic Log	SOIL	DESCRIPTIO	ON/CLASSIFIC	CATION		
- 20- - 25-				エ	LI)	5/4	0		(GRADE	8 73.24 T	TLE		
-30-	04,0			T	F	5øj /3	0		CGRADIUS	s corasi	er)		
- 35-	75	2 CATION 10			Chillip	50/4	0		VERY D	ertsly 1 5A+D	NO 15T, GA LHO 0 DO	e47, Ga. as)	j
Eleve	ation Re	ference	-	1		To	p of	Casing E	levation:			PAGE	
	ace Elev					_		Method:				2_ of .	<u> </u>
2311		"	-			, ,,,,	- /						

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	PROJECT: <i>BE</i>	ENENS	ON BEL	LLEVUE	BORING/WELL I.D.: B-6			
	LOCATION:						CAPITAL CO.	
	PROJECT #:	1153	<u> </u>			OMPLETED:		
BORING DEPTH:	N/A		DIAMET	TER: N/A	LOG BY:		СН	
SCREEN DIAMETI	ER: <i>N/A</i>		LENGTH				N/A	
CASING DIAMETI			LENGTH	t: N/A	TY	PE:	N/A	
GRAVEL PACK:	N/A	SE A		N/A		BOX TYPE:		
DRILLING CO.: CA	BERTHE-			METHOD: H THOD: SPLI			LABROSSE €	
	Sample Recovery Sample **	Blow Counts PID Readings	Graphic Log				ACKER /	
45 -50 -55 -55 -60		9/5 0		ENCOUNT CWITT	TO VIORS	o surfac	- 5A+1) - BRINGIHO	
Elevation Reference:		Top of (Casing Ele	evation:			3 PAGE 5	
Surface Elevation:		Survey A	Survey Method: 5 of					

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	PROJECT: BE	ENEI	NSO.	N BEL	LEVUE	BORING/WELL I.D.: B- 6		
LMD	LOCATION:	BEL	LEV	ÜΕ, Ν	/A	OWNER: BENENSON CAPITAL CO.		
INCORPORATED	PROJECT #:	17		DATE CO	OMPLETED:			
BORING DEPTH:	N/A	_		DIAMET	ER: N/A	LOG BY:	D.L. WELCH	
SCREEN DIAME				ENGTH			OT SIZE: N/A	
CASING DIAME				ENGTH		T'	YPE: N/A	
GRAVEL PACK:			SEA		N/A		BOX TYPE: N/A	
DRILLING CO.: C	ASCADE DE	ILL.	DRIL	LING A	AETHOD: F	HSA	DRILLER: R. LABROSSE	
LICENSE #:			SAA	MP. ME	THOD: SPL	IT-SPOON	RIG TYPE: CME 75	
Depth (ft) Well Construction	Groundwater Sample Recovery Sample #	Blow Counts	PID Readings	Graphic Log	SOIL	DESCRIPTI	ON/CLASSIFICATION	
-65 MHD 32 Haylog	J	50/5	0	Sexum Tecc	VER'S I	FROM 75 RI	EOBORANG ACKER TO CASCADE GAT 65 FEET. MOIST GRAY HE SAND AND SILE	
-80	K	50/1				Ertse, 1	ACE GRAVEL)	
Elevation Reference:		\neg			Elevation:	<u></u>	4 PAGE 5	
Surface Elevation:	·	Sı	urvey	Method:				

FÑ	TR						ON BEL	LEVUE VA	BORING/WELL I.D.: B- O OWNER: BENENSON CAPITAL CO.			
INCORPO	RATED	PROJ	ECT	#:	1	<i>153</i>			DATE CO	OMPLETED:		
BORING	DEPTH:		N//	4			DIAMET	ER: N/A	LOG BY:	D.L. WELC	CH	
SCREEN	DIAME	TER:	N//	4	•		LENGTH	l: <i>N/A</i>	, SL	OT SIZE: A	I/A	
CASING	DIAME		N//				LENGTH	l: <i>N/A</i>	TY	PE:	I/A	
GRAVEL		-	N//	•		SEA		N/A		BOX TYPE:		
DRILLING		<u>ASCA</u>	<u>DE</u>	<u>DR</u>	<u> </u>			METHOD: H		DRILLER: R.		
LICENSE	#:				ļ	SA	MP. ME	THOD: <i>SPLI</i>	T-SPOON	RIG TYPE: (CME 75	
Depth (ft)	Construction	Groundwater	Recovery	Sample #	Blow Counts	PID Readings	Graphic Log	SOIL	DESCRIPTIO	ON/CLASSIFIC	COITA	
90					So/15	0	by the state of th	VERY DER BROWN EAR ON EARONN BENTON	HEITERSON	1015T, GRE TO BACKED BACKED	Atis It AEDIUM GROUNDWATE CL WITH	
levation R	ference:				Тор	of	Casing El	evation:			PAGE	
						op of Casing Elevation: PAGE Survey Method:						

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	<u> </u>		NSON BELL	-	BORING/WELL I.D.: B-7					
FMR	OCATION:	BEL	LEVUE, W	'A	OWNER: BENENSON CAPITAL CO.					
INCORPORATED	PROJECT #: 1153 DATE COMPLETED: 7 25 /9									
BORING DEPTH: No Control DIAMETER: No Control BY: D.L. WELCH										
	: N/A		LENGTH:		SLOT SIZE: N/A					
CASING DIAMETER		Т	LENGTH:		TYPE: N/A					
GRAVEL PACK: DRILLING CO.: CAS	N/A		SEAL:	N/A	BOX TYPE: N/A ISA DRILLER: R. LABROSSE					
LISCENCE #:	CADE DI				T-SPOON RIG TYPE: CME 75					
Depth (ft) Well Construction Groundwater	Sample Recovery Sample #	Blow Counts	PID Readings Graphic Log		DESCRIPTION/CLASSIFICATION					
-5- -5- -15- -20-			Gran		SEE BORNE B-1 LOG					
Elevation Reference:		Top	of Casing Ele		PAGE -2					
210 - 211011 1/0101 01100.			vey Method:		/ of 3					

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	<u> </u>							LLEVUE	BORING/	WELL I.D.:	B- 7
	TR.	roc	CATIC	DN:	BE	LLE	VUE, I	NA .	OWNER:	BENENSON	CAPITAL CO.
INCORPO	RATED	PRC) JECT	#:	7	153		- -	DATE CO	OMPLETED:	7/25/94:
BORING	DEPTH:		1壁	五 (0	7	DIAME	TER: MEAS	LOG BY:	D.L. WEL	CH
SCREEN	DIAME	TER:	N/.				LENGTI				V/A
CASING	DIAME	TER:	N/.	<u>A</u>			LENGT	t: <i>N/A</i>	TY	'PE: /	V/A
GRAVEL	PACK:		N/	<u>A</u>		SE	AL:	N/A		BOX TYPE:	N/A
DRILLING	CO.: C	ASC.	ADE	DR	'ILL	DR	ILLING	METHOD:	HSA	DRILLER: R.	LABROSSE
LISCENCE	#:		,	_		SA	MP. ME	THOD: SP	LIT-SPOON	RIG TYPE:	CME 75
Depth (ft) Well	Construction	Groundwater	Sample Recovery	Sample #	Blow Counts	PID Readings	Graphic Log	SOIL	L DESCRIPTIC	DN/CLASSIFI	CATION
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-30	- 1772 STATE OF THE STATE OF TH						- Gyera TILL	L06		BORNHG	B-
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Elevation Re	ference:			\perp	Тор	of ·	Casing El				2 of 3
Surface Elev	ation:				Surv	oy i	Method:				<u>ر</u> ۱۰ <u>ب</u>

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	PROJECT: B	ENENSO	N BEL	LLEVUE BORING/WELL I.D.: B- 7
FMD	LOCATION:	BELLEV	UE, V	WA OWNER: BENENSON CAPITAL CO.
INCORPORATED	PROJECT #:			DATE COMPLETED: 7/25/94
BORING DEPTH:	ALL (0 D	IAMET	TER: # 8' LOG BY: D.L. WELCH
SCREEN DIAME			NGTH	
CASING DIAME	TER: N/A	LE	NGTH	H: N/A TYPE: N/A
GRAVEL PACK:	N/A	SEAL	<u>:</u>	N/A BOX TYPE: N/A
DRILLING CO.: C	ASCADE DE			METHOD: HSA DRILLER: R. LABROSSE
LICENSE #:	· · · · · ·	SAM	P. ME	ETHOD: SPLIT-SPOON RIG TYPE: CME 75
Depth (ft) Well Construction	Groundwater Sample Recovery Sample #	Blow Counts PID Readings	Graphic Log	SOIL DESCRIPTION/CLASSIFICATION
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		50/ , -		(GRADES MORE SANDY, NO ODOR)
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-50 \$ 1	C	59 1.5		VERY DEHSE, MOIST, BRAY SAND
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			7	GRAVEL
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			\mathcal{C}	
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			1	<u> </u>
				VERY DEASE, WOIST, DANK GRAT SAND WITH TRACE PERBUES 1-140
(40)		50/	[]	SAND WITH TRACE PEBBLES IT THE
-60-		15/-		EHO OF BOMING BACKFILLWITH
Elevation Reference:	-	Top of C		PAGE 3 of 3
Surface Elevation:	-	Survey M	ethod:	

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_	PROJECT: BENE	ENSON BELLEVUE	BORING/WELL I.D.: B-
	LOCATION: BE		OWNER: BENENSON CAPITAL CO
INCORPORATED	PROJECT #:	1153	DATE COMPLETED: 7/25/94
BORING DEPTH:	H460	DIAMETER: 448	LOG BY: D.L. WELCH
	ER: N/A	LENGTH: N/A	SLOT SIZE: N/A
CASING DIAMETI	· · · · · · · · · · · · · · · · · · ·	LENGTH: N/A	TYPE: N/A
	N/A	SEAL: N/A	BOX TYPE: N/A
LISCENCE #:	SCADE DRILL		HSA DRILLER: R. LABROSSE
LISCENCE #:	1 1	SAMP. METHOD: SPL	IT-SPOON RIG TYPE: CME 75
Depth (ft) Well Construction	Sample Recovery Sample #	PID Readings Graphic Log	DESCRIPTION/CLASSIFICATION
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		27 SEE	LOG B-4
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Elevation Reference:	Тор	of Casing Elevation:	, PAGE
Surface Elevation:		vey Method:	J of 3

PROJ	ECT: BENE	ENSON BEL	LEVUE	BORING/	WELL I.D.: B	7-8
FND LOCA	TION: BE	LLEVUE, W	VA	OWNER:	BENENSON	CAPITAL CO.
INCORPORATED PROJ	ECT #:	1153		DATE CO	OMPLETED: 7	7/25/94
BORING DEPTH:	## 60	DIAMET	ER: N/A	-	D.L. WELC	
	N/A	LENGTH				I/A
	N/A	LENGTH		TY	'PΕ: Λ	I/A
	N/A	SEAL:	N/A		BOX TYPE:	
DRILLING CO.: CASCA	DE DRILL		METHOD: H		DRILLER: R.	
LISCENCE #:	 	SAMP. ME	THOD: SPLI	T-SPOON	RIG TYPE: (CME 75
Depth (ft) Well Construction Groundwater	Recovery Sample # Blow Counts	PID Readings Graphic Log	SOIL I	DESCRIPTIC	ON/CLASSIFIC	:ATION
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35 0	B 54	410 01	(GRADI	es ces:	s siutt,	1777
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					14	21
40	C 90/	18	VENT D	PEASE,	moist Vs	SILT FINE
Elevation Reference:	To	op of Casing El	evation:			PAGE
Surface Elevation:		rvey Method:				2/01/2

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		PRC	JECT	: <i>B</i>	ENE	NSC	ON BEL	LEVUE	BORING/	WELL I.D.:	B-8
FN	R	LOC	CATIC	DN:	BE	LLE	VUE, V	VA	OWNER:	BENENSON	CAPITAL CO.
INCORPOR	ATED	PRC	JECT	#:	1	153			DATE CO	OMPLETED:	7/25/94
	DEPTH:		1007	7 6	20	/	DIAMET	ER: # 8"	LOG BY:	D.L. WEL	CH
	DIAME	-					LENGTH		SL		V/A
CASING		TER:	N/.	-			LENGTH		TY		<u>V/A</u>
GRAVEL P.			N/.		$\overline{}$	SEA		N/A		BOX TYPE:	
LICENSE #:		ASC.	ADE	DK	ILL			METHOD: H			LABROSSE CASE
LICENSE #:				l -		JA.	Mr. ME	THOD: SPLI	I-SPUUN	RIG TYPE:	CME /3
Depth (ft) Well Construction		Groundwater	Sample Recovery	Sample #	Blow Counts	PID Readings	Graphic Log	SOIL	DESCRIPTIO	ON/CLASSIFIC	CATION
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- 45		Ì		B-8	7	3	,	VERY ?	oralse	1, mo12,1	BROW, D D GRAVELLO TK, NO DOOM
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50 0)			E		1.5	. (~)	VERY I	sertse,	mo151, 1	BROWE AND
							7	GRAS	moth	مراري والوي. س	VCCV SAIL
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-60							-	GRAVIN	1 SAN	H) (TRAC	K514)
Elevation Refe				_			Casing Ele	evation:	. <u>-</u> -	<u>_</u>	PAGE 3
Surface Elevat	ion:		40				Method:	DVA E	1 / - 2	1 1 1 2 2 2 .	•
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LOG OF EXCAVATION

PROJE	CT NAME	Barle	Hood	Be	<u>ÇŒ</u> V∪R	PROJECT NO.	1153
L	OCATION		15. V U [2			PAGE / OF	
DATE	7/4	194		/		ACE ELEVATION	
DEPTH (ft)	SAMPLES	WATER LEVEL	LITHOGR COLUI			DESCRIPTION	
10			COLU		BROWN SAHD COLLEGE SANBUSE PX-9.	DRY ENSE, VGRAPI J SILTY GR CHACIAL T POST EXCA	AVICLY THEOLOGIA
REMARKS	S:						:
	731.		a-/E	WE	ecil		}

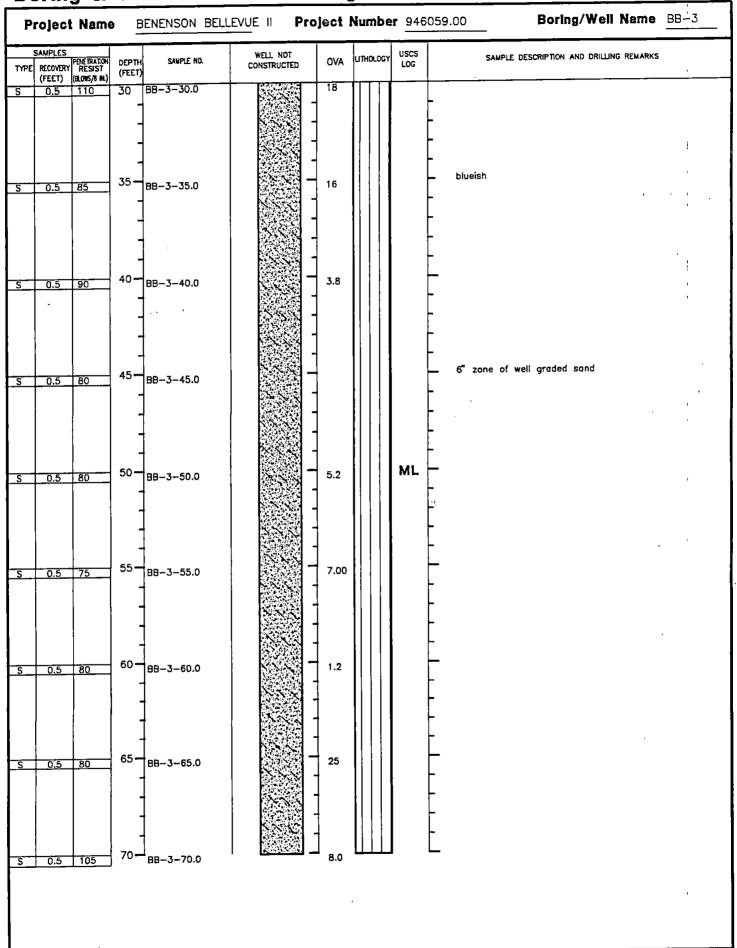
Kennedy/Jenks Consultant & Well Construction Log Boring/Well Name BB-1 BORING LOCATION THE SHOPS AT FIRST STREET PROJECT DRILLING COMPANY DRILLER SCOTT **Project Name** BENENSON BELLEVUE CASCADE DRILLING, INC. DRILL BIT(S) SIZE: 6 5/8" O.I DRILLING METHOD HOLLOW STEM AUGER **Project Number** 946059.00 FROM ~ TO FT. ISOLATION CASING TOTAL DEPTH ELEVATION AND DATUM 70.0 FROM FT. BLANK CASING DATE COMPLETED DATE STARTED 08/05/1994 08/05/1994 FROM FT. TO PERFORATED CASING INITIAL WATER DEPTH (FT) FROM TO FT. SIZE AND TYPE OF FILTER PACK LOGGED BY T. MORIN <u>0.0</u> FROM FT. SAMPLING METHODS WELL COMPLETION
SURFACE HOUSING 2.0 CONCRETE FROM 2.0 10 70.0 FT. **GROUT VOLCLAY** 2" SPOON W/ BRASS STAND PIPE SAMPLES WELL NOT RECOVERY RESIST (REONS/8 IN.) SAMPLE DESCRIPTION AND DRILLING REMARKS LITHOLOGY SAMPLE NO CONSTRUCTED LOG (FEET) Sandy SILT with gravel; gray, dry to damp, very dense; mostly silt, some medium sand, some fine to medium subangular gravel, minor clay; good dry strength, slight to moderate dilatency, very poorly sorted; 0.0 S 0.5 100 BB-1-5.0 interpreted as Glacial Till 10 0.5 100/5 BB-1-10.0 0.0 very hard sandier, less gravel ML 15 0.4 0.5 60 BB-1-15.0 harder, clay fraction increases 20 6.9 120 BB-1-20.0 0.5 25 BB-1-25.0 2.8 0.5 120

S	MPLES		_		WELL NOT	Ī	LITHOLOG	USCS	SAMPLE DESCRIPTION AND DRILLING REMARKS
-	ECOVERY	PENETRATION RESIST (BLOWS/5 IN.)	DEPTH (FEET)	SAMPLE NO.	CONSTRUCTED	AVO	LIHOLOG	LOG	SAMPLE DESCRIPTION AND SALES AS A
ļ	0.5	120	30	BB-1-30.0		4.1			- blueish, some iron staining/banding
İ			-	1			!		
			-]]			
]			$\ \ \ $	ł	_
			35-				$\parallel \parallel \parallel \parallel$	•	
Ŧ	0.5	100	JJ-	BB-1-35.0		20			. "
				-		1	!	ł	
			_			_	11		-
		ļ I	_	1		ł	$\ \ \ \ $		-
ļ	0.5	105	40-	BB-1-40.0	-	6.2	$\ \cdot\ $	•	-
t	<u> </u>	103	-			+			-
			-	-		†		1	<u> </u>
			-	1		1	$\ \cdot\ $		<u>}</u>
			-	-		i	$\ \cdot\ $		-
ł	0.5	82	45-	BB-1-45.0	-	11.0	$\ \cdot\ $		<u></u>
l			-	1		1			
Ì		1	-	†		1			į.
		ĺ	-	†		, ,			
			-	1			1111	ML	increased coarse sand fraction
Ŧ	0.5	85	50-	BB-1-50.0	355	9.0		1012	·
				1		4	$\ \ \ $		<u> </u>
l				1		4	1111	ł	-
				-		╡		ľ	-
+	0.5	90	55-	BB-1-55.0	[] -	10.0	$\{ \cdot \}$		less sand, more silt
Ī				1		1			-
		<u> </u>		1		†	1111		
				1		†			<i>p</i> . 1
1			٠			1	1111		
‡	0.5	50	60 -	BB-1-60.0] 10			
						1	$\ \ \ $		_
1						1			+
				_		-	$\ \ \ $		}
1	0.5	55 _	65 -	BB-1-65.0		22			-
t	<u> </u>	-	.			┥ ̄	$\ \ \ $		+
				4		+	$\ \ \ $	1	† .
				+		†			<u> </u>
				†		†		ł	
$\frac{1}{1}$	0.5	60	70-	BB-1-70.0	1 [5,00]A20]	12	للللل		

Kennedy/Jenks Consultant **Boring & Well Construction Log** Boring/Well Name BORING LOCATION THE SHOPS AT FIRST STREET PROJECT DRILLING COMPANY DRILLER SCOTT BENENSON BELLEVUE CASCADE DRILLING, INC. **Project Name** DRILL BIT(S) SIZE: 6 5/8" O.E DRILLING METHOD HOLLOW STEM AUGER **Project Number** 946059.00 ISOLATION CASING FROM ELEVATION AND DATUM TOTAL DEPTH N.A 70.0 FROM TO FT. BLANK CASING DATE STARTED DATE COMPLETED N.A 08/05/1994 08/05/1994 FROM TO FT. PERFORATED CASING INITIAL WATER DEPTH (FT) SIZE AND TYPE OF FILTER PACK N.A. FROM TO FT. LOGGED BY T. MORIN 2.0 FT. <u>0.0</u> FROM SAMPLING METHODS WELL COMPLETION
SURFACE HOUSING CONCRETE GROUT VOLCLAY FROM 2.010 70.0 FT. 2" SPOON W/ BRASS STAND PIPE uscs WELL NOT RECOVERY RESIST (BLONS/6 IN.) SAMPLE DESCRIPTION AND DRILLING REMARKS SAMPLE NO. LITHOLOGY DEPTH OVA CONSTRUCTED Sandy SILT with gravel; gray, dry to damp, very dense; mostly silt, some medium sand, some fine to medium subangular gravel, minor clay; good dry strength, slight to moderate dilatency, very poorly sorted; interpreted as Glacial Till 0,5 100 BB-2-5.0 0.4 10 12 0.5 100 BB-2-10.0 externely hard ML 15 0.5 130 15 88-2-15.0 increase in fines percentage to ~70% 20. 0.5 100 BB-2-20.0 20 25 35 0.5 65 BB-2-25.0

Pro SAP	MPLES	· 1			WELL NOT	İ		uscs	<u> </u>			1	_
E RI	ECOVERY	PENETRATION RESIST (BLOWS/6 IN.)	DEPTH (FEET)	1	CONSTRUCTED	J.,,	LITHOLOGY	LOG	SAMPLE DE	SCRIPTION AND DRILLING RE	MARKS		
	0.5	65	- - -	BB-2-35.0	-	43			- - - -	٦			
	0.5	75	40-	BB-2-40.0	- - - -	54			-				
	0.5	70	45—	BB-2-45.0	- - - - -	22.0			slightly sandier s				
	0.5	75	50-	BB-2-50.0	- - - -	3.6		ML	-				
	0.5	70	55-	BB-2-55.0	- - - -	14.0			- - -				
	0.5	80	60-	BB-2-60.0	-	12			- - -		·		
-	0.5	80	65 —	BB-2-65.0	-	22			- - -	·			
<u> </u>	0.5	100	70-	BB-2-70.0	_	0.6		J	L,				

Kennedy/Jenks Consultant **Boring & Well Construction Log** Boring/Well Name BB-3 BORING LOCATION THE SHOPS AT FIRST STREET PROJECT DRILLING COMPANY DRILLER SCOTT **Project Name** BENENSON BELLEVUE CASCADE DRILLING, INC. DRILL BIT(S) SIZE: 6 5/8" O.[DRILLING METHOD HOLLOW STEM AUGER **Project Number** 946059.00 FROM TO FT. ISOLATION CASING ELEVATION AND DATUM TOTAL DEPTH 70.0 FROM TO FT. BLANK CASING DATE COMPLETED DATE STARTED 08/05/1994 08/05/1994 FT. PERFORATED CASING FROM TO INITIAL WATER DEPTH (FT) SIZE AND TYPE OF FILTER PACK N.A. TO FROM FT. LOGGED BY T. MORIN <u>0.</u>0 ^{to} 2.0 FT. FROM WELL COMPLETION
SURFACE HOUSING SAMPLING METHODS CONCRETE FROM 2.0 ^{to} 70.0 FT. GROUT VOLCLAY 2" SPOON W/ BRASS STAND PIPE SAMPLES WELL NOT SAMPLE DESCRIPTION AND DRILLING REMARKS RECOVERY RESIST
(FEET) (BLONS/8 IX) LITHOLOGY SAMPLE NO. OVA CONSTRUCTED TYPE (FEET) Sandy SILT with gravel; gray, dry to damp, very dense; mostly silt, some medium sand, some fine to medium subangular gravel, minor clay; good dry strength, slight to moderate dilatency, very poorly sorted; 5 interpreted as Glacial Till 0.0 S 1.5 BB-3-5.0 10 0.5 130 BB-3-10.0 0.0 ML 15 12 60 BB-3-15.0 0.5 20 0.0 BB-3-20.0 120 0.5 25 0.4 0,5 110 BB-3-25.0



Kennedy/Jenks Consultants & Well Construction Log BORING LOCATION Boring/Well Name BB-4 THE SHOPS AT FIRST STREET PROJECT DRILLING COMPANY DRILLER SCOTT BENENSON BELLEVUE **Project Name** CASCADE DRILLING, INC. DRILL BIT(S) SIZE: 6 5/8" O. DRILLING METHOD HOLLOW STEM AUGER **Project Number** 946059.00 FROM TO FT. ISOLATION CASING ELEVATION AND DATUM TOTAL DEPTH FROM TO FT. BLANK CASING DATE COMPLETED DATE STARTED 08/05/1994 08/05/1994 FT. PERFORATED CASING FROM TO INITIAL WATER DEPTH (FT) FROM TO FT. LOGGED BY T. MORIN <u>0.</u>0 2.0 FT. FROM WELL COMPLETION
SURFACE HOUSING SAMPLING METHODS CONCRETE FROM GROUT VOLCLAY 2.0 10 70.0 FT. 27 SPOON W/ BRASS STAND PIPE SAMPLES WELL NOT USCS RECOVERY PENETRATION RESIST (FEET) (BLONS/8 IN.) SAMPLE DESCRIPTION AND DRILLING REMARKS DEPTH SAMPLE NO LITHOLOGY OVA CONSTRUCTED (FEET) Sandy SILT with gravel; gray, dry to damp, very dense; mostly silt, some medium sand, some fine to medium subangular gravel, minor clay; good dry strength, slight to moderate dilatency, very poorly sorted; 5-0.0 0.5 75 BB-4-5.0 interpreted as Glacial Till 10. 0.5 110 BB-4-10.0 0.0 ML 15 0.0 0.5 85 BB-4-15.0 S 20-0.5 110 0.0 BB-4-20.0

0.0

25

BB-4-25.0

0.5 100

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_	AMPLES				WELL NOT			uscs	SAMPLE DESCRIPTION AND DRILLING REMARKS
Ε	RECOVERY (FEET)	PENETRATION RESIST (BLOWS/6 IN.)	DEPTH (FEET)		, CONSTRUCTED	AVO	TILHOFOC.	LOG	SAMPLE DESCRIPTION AND DRILLING REMARKS
	0.5	105_	30 -	BB-4-30.0		0.0			-
	0.5	80	35— -	BB-4-35.0	-	0.5			blueish
	0.5	70	40 - -	BB-4-40.0	-	0.2			-
	0.5	90	45— -	BB-4-45.0	-	0.00			6" zone of well graded sand
	0.5	105	50-	BB4-50.0	-	0.0		ML	
	0.5	85	55 - -	BB-4-55.0	-	0.00			-
	0.5	95	60-	BB-4-60.0		0.0			- - - -
	0.5	75	65 - -	BB-4-65.0	-	0.0			- - - -
	0.5	130	70 -	BB-4-70.0		0.0			L

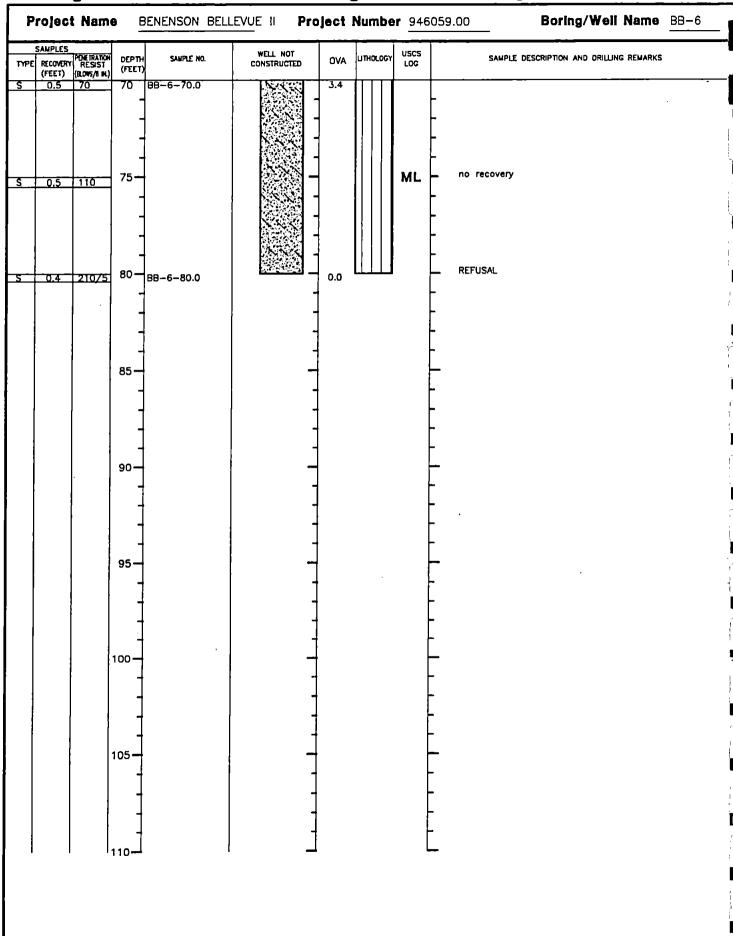
Kennedy/Jenks Consultant **Boring & Well Construction Log** BORING LOCATION Boring/Well Name THE SHOPS AT FIRST STREET PROJECT DRILLING COMPANY DRILLER SCOTT **Project Name** BENENSON BELLEVUE CASCADE DRILLING, INC. DRILL BIT(S) SIZE: 6 5/8" O.[DRILLING METHOD HOLLOW STEM AUGER Project Number 946059.00 ISOLATION CASING FROM ELEVATION AND DATUM N.A TOTAL DEPTH 70.0 FROM BLANK CASING TO FT. DATE COMPLETED DATE STARTED 08/05/1994 08/05/1994 FROM FT. TO PERFORATED CASING INITIAL WATER DEPTH (FT) FROM ΤO SIZE AND TYPE OF FILTER PACK N.A. LOGGED BY T. MORIN 2.0 FT. 0.0 ^{to} FROM WELL COMPLETION

SURFACE HOUSING SAMPLING METHODS CONCRETE 2.0 10 GROUT VOLCLAY FROM 70.0 FT. 2" SPOON W/ BRASS STAND PIPE SAMPLES WELL NOT uscs RECOVERY RESIST (FEET) (BLONG/B IN.) SAMPLE DESCRIPTION AND DRILLING REMARKS SAMPLE NO. LITHOLOGY DEPTH OVA LOG CONSTRUCTED (FEET) Sandy SILT with gravel; gray, dry to damp, very dense; mostly silt, some medium sand, some fine to medium subangular gravel, minor clay; good dry strength, slight to moderate dilatency, very poorly sorted; interpreted as Glacial Till BB-5-5.0 0.0 1.5 10 0.0 0,5 100 BB-5-10.0 ML 15 S 0.5 150 BB-5-15.0 0.0 20 0.5 85 BB-5-20.0 4.2 25 16 0.5 100 TBB-5-25.0

Project Nam	e <u>E</u>	BENENSON BELI	LEVUE II Pro	ject l	Numbe	946	059.00	Boring/Well Name	BB-5
SAMPLES E RECOVERY RESIST (FEET) (BLOWS/6 IN)	DEPTI-	SAMPLE NO.	WELL NOT CONSTRUCTED	OVA	пиногосл	USCS		SAMPLE DESCRIPTION AND DRILLING REMARKS	
0.5 80	30	BB-5-30.0 BB-5-35.0		5.9			- - - -		
0.5 120	40-	BB-5-40.0	- - -	0.6			- - -		
0.5 95	45 ~	BB-5-45.0	-				- - -		:
0.5 105	50-	BB-5-50.0	-	0.8		ML	- - -		
0.5 65	55 -	BB-5-55.0	-	0.70			- - - -		
0.5 80	60-	BB-5-60.0	-				- - - -		
0.5 95	65 -	BB-5-65.0					- - - -		
0.5 100	70-	BB-5-70.0		İ					

Kennedy/Jenks Consultant & Well Construction Log Boring/Well Name BB-6 BORING LOCATION THE SHOPS AT FIRST STREET PROJECT DRILLING COMPANY DRILLER SCOTT **Project Name** BENENSON BELLEVUE CASCADE DRILLING, INC. DRILL BIT(S) SIZE: 6 5/8" O.E DRILLING METHOD HOLLOW STEM AUGER **Project Number** 946059.00 FT. FROM ISOLATION CASING ELEVATION AND DATUM TOTAL DEPTH B0.0 FROM TO FT. BLANK CASING DATE STARTED DATE COMPLETED N.A 08/06/1994 08/06/1994 FT. PERFORATED CASING FROM TO INITIAL WATER DEPTH (FT) SIZE AND TYPE OF FILTER PACK FROM TO FT. LOGGED BY T. MORIN 2.0 FT. 0.0 ^{to} FROM WELL COMPLETION
SURFACE HOUSING SAMPLING METHODS CONCRETE FROM 80.0 FT. 2.0 ^{to} GROUT VOLCLAY 2" SPOON W/ BRASS STAND PIPE SAMPLES WELL NOT SAMPLE DESCRIPTION AND DRILLING REMARKS RECOVERY RESIST (FEET) (BLONS/B.M.) LITHOLOGY SAMPLE NO. (FEET Sandy SILT with gravel; gray, dry to damp, very dense; mostly silt, some medium sand, some fine to medium subangular gravel, minor clay; good dry strength, slight to moderate dilatency, very poorly sorted; 5 interpreted as Glacial Till 10 ML 0.0 BB-6-15.0 0,5 90 20 -0.0 S 0.5 85 BB-6-20.0 25-12 0.5 95 88-6-25.0

PΕ	RECOVERY	PENETRATION RESIST (BLOWS/6 IN.)	DEPTH (FEET)		WELL NOT CONSTRUCTED	OVA	LITHOLOG	Y LOG	SAMPLE DE	SCRIPTION AND DRILLING REMARKS	
	(FEET) 0.5	(ROWS/6 M)	30	1 188-6-30.0		0.0			-		 -
	0.5	100	35—	BB-6-35.0	-	4.0			- blueish		
	0.5	130	40-	BB-6-40.0	-				- - -		
	0.5	130	45 -	BB-6-45.0	-	6.20		ML	- - -		
	0.5	100	50 -	88-6-50.0	-				gravel to 2"		ı
	0.5	70	55 -	BB-6-55.0	-	4.60				•	
	0.5	60	60-	BB-6-60.0	-	8.0			- - -		1
	0,5	75	65 -	BB-6-65.0	-	9.0			- - - -		,
			_			}			_		



_					truction		1	1,	Ne	nnedy/Jenk		
					TREET PROJEC	Τ				Boring/Well Name		
RILL	ING COM	CA:	SCADE	DRILLING, INC	·	1	SCOTT			Project Name	BENENSON BELL	VUE
RILL	ING METI	НО СП	LLOW	STEM AUGER		DRILL E				Project Number	946059.00	
SOLA"	TON CAS	ING N.A	٨			FROM	1	то	гт. ———	ELEVATION AND DATUM	TOTAL DEPTH 70.0	
LANK	CASING	N.A	4			FROM		то	FT.	DATE STARTED 08/06/199	DATE COMPLETED	/199
ERFO	RATED C	ASING N.A	—- 4.			FROM		то 	FT.	INITIAL WATER DEPTH (FT)		
ZE /	ND TYPE	OF FILTE	R PACK			FROM		TO	FT.	LOGGED BY T. MORIN		
EAL	CONC					FROM	0.0	TO 2	2.0 FT.	SAMPLING METHODS	WELL COMPLETION	 G
ROU'	VOLC					FROM	2.0).0 ^{FT.}	2" SPOON W/ BRASS	STAND PIPE	FT.
S VDF	AMPLES	PENETRATION RESIST	DEPTH	SAMPLE NO.	WELL NOT CONSTRUCTED	OVA	LITHOLOGY	USCS		SAMPLE DESCRIPTION AND	DRILLING REMARKS	
TPE	(FEET)	(BLONS/6 IN.)	(FEET)		15000000000000000000000000000000000000	ļ	<u> </u> 		<u> </u>	andy SILT with gravel; br	own, dry to	
			-		-	1			1	amp, very dense; mostly		
			<u> </u>		-	1			1	and, some fine to mediu		
ļ			1			1			h .	ninor clay; good dry strer	ngth, slight to	
			-		-	†	$\ \ \ \ $		ļ "	noderate dilatency, very p	oorly sorted;	
			5-		-	1			i	nterpreted as Glacial Till		
			-			1	$\ \ \ \ $					
		}	-			1	$\ \cdot\ _1$					
			1			1			Ī			
			-			1		ĺ				
ļ			10-		-	1	$\ \ \ \ $					
			+		-	1						
						1					•	
			_			1	$\ \cdot \ \cdot \ $					
						1						
	0.5	100	15-	BB-7-15.0		0.0	$\ \cdot\ $	ML				
			-				$\{ \{ \} \} \}$!				
			1									
			1									
]						L			
7	0.5	80	20-	BB-7-20.0					L			
ļ							$\parallel \mid \downarrow \mid$		L			
				l:			$\{\{\},\}\}$	}	-			
						-	11111	1	F			
_	n e	120	25-	88-7-25.0		4	$\ \ \ \ $		-			
\dashv	0.5	120	-	55-1-25N		ļ	$\ \ \ \ $		-			
١			-	,		1	$\ \ \ $		-			
			-	1		-	$\{\{\}\}\}$	1	-			
						_	$\ \ \ \ $		+			
			J _]		I	L			
										•		

Ject Name BENENSON I	BELLEVUE II Proj	ect Numbe	946059.00	Boring/Well Name BB
APLES COVERY PERTABON DEPTH SAMPLE NO. (ROMS/8 N.) (ROMS/8 N.)	WELL NOT CONSTRUCTED	OVA UTHOLOGY	USCS LOG	SAMPLE DESCRIPTION AND DRILLING REMARKS
0.5 95 30 BB-7-30.0 -	-		-	
35 BB-7-35.0			- - - -	
0.5 100 40 BB-7-40.0			- - - -	
2.5 85 45 BB-7-45.0	- 1		- - -	
50 BB-7-50.0	-		ML -	
55— _{BB-7-55.0}			- - - -	
2.5 110 60 BB-7-60.0			- - - -	
65 BB-7-65.0			-	
70 _{BB-7-70.0}			-	

Kennedy/Jenks Consultants **Boring & Well Construction Log** Boring/Well Name BB-8 THE SHOPS AT FIRST STREET PROJECT BORING LOCATION BENENSON BELLEVUE II DRILLING COMPANY DRILLER SCOTT **Project Name** CASCADE DRILLING, INC. DRILL BIT(S) SIZE: 6 5/8" DRILLING METHOD 0.1 **Project Number** HOLLOW STEM AUGER 946059.00 FT. ISOLATION CASING ELEVATION AND DATUM TOTAL DEPTH 70.0 FROM TO FT. DATE COMPLETED BLANK CASING DATE STARTED 08/06/1994 08/06/1994 TO FT. FROM PERFORATED CASING INITIAL WATER DEPTH (FT) FT. TO SIZE AND TYPE OF FILTER PACK N.A. FROM T. MORIN 2.0 FT. <u>0.0</u>το FROM SAMPLING METHODS WELL COMPLETION
SURFACE HOUSING CONCRETE 2.0 10 FROM 70.0 FT. 2" SPOON W/ BRASS STAND PIPE GROUT VOLCLAY SAMPLES WELL NOT USCS SAMPLE DESCRIPTION AND DRILLING REMARKS LITHOLOGY RECOVERY RESIST (RECOVERY (BLONG/6 IL.) SAMPLE NO. DEPTH OVA LOG CONSTRUCTED (FEET) Sandy SILT with gravel; brown, dry to damp, very dense; mostly silt, some medium sand, some fine to medium subangular gravel, minor clay; good dry strength, slight to moderate dilatency, very poorly sorted; interpreted as Glacial Till 10 ML 15 0.0 BB-8-15.0 0.5 20-0.4 0.5 110 BB-8-20.0 25. 6.4 0.5 106 BB-8-25.0

Boring & Well Construction Log

Kennedy/Jenks Consultant

Pi	ojeci	Name	• <u>E</u>	BENENSON BE	LLEVUE II Pr	oject 	Numbei	946	059.00	Boring/Well Name BB-8
PΕ	RECOVERY (FEET)	PENETRATION RESIST (BLOWS/8 IN.)	DEPTH (FEET)	SAMPLE NO.	WELL NOT CONSTRUCTED	OVA	LITHOLOGY	VSCS LOG		SAMPLE DESCRIPTION AND DRILLING REMARKS
	0.5	101	30 -	BB-8-30.0		4.2			_	
	0,5	90	35 —	8-35.0	-	7.9			- - -	
	0.5	100	40-	BB-8-40.0	-	8.6			- - - -	
	0.5	130	45— -	BB-8-45.0	-	6.40			- - -	
5	0.5	95	50-	BB-8-50.0	-	8.7		ML	- - -	
5	0.5		55— -	88-8-55.0	-	10.0			- - - -	
5	0.5		60	BB-8-60.0	-	4.2			- - - -	·
5	0.5		65-	BB-8-65.0	-	0.6			- - -	
\$	0.5		70	BB-8-70.0		0.4			_	

Kennedy/Jenks Consultants Boring & Well Construction Log Boring/Well Name BB-9 THE SHOPS AT FIRST STREET PROJECT BORING LOCATION BENENSON BELLEVUE II **Project Name** DRILLING COMPANY DRILLER SCOTT CASCADE DRILLING, INC. DRILL BIT(S) SIZE: 6 5/8" O.[946059.00 **Project Number** DRILLING METHOD HOLLOW STEM AUGER TO FROM ELEVATION AND DATUM TOTAL DEPTH ISOLATION CASING 60.0 FT. DATE COMPLETED TO FROM DATE STARTED BLANK CASING 08/10/1994 08/10/1994 FT. FROM TO INITIAL WATER DEPTH (FT) PERFORATED CASING N.A. FT. FROM TO SIZE AND TYPE OF FILTER PACK LOGGED BY T. MORIN 2.0 FT. 0.0 WELL COMPLETION
SURFACE HOUSING FROM SAMPLING METHODS CONCRETE STAND PIPE 2.0 ^{to} 60.0 FT. 2" SPOON W/ BRASS FROM GROUT VOLCLAY SAMPLE DESCRIPTION AND DRILLING REMARKS USCS SAMPLES WELL NOT LITHOLOGY RECOVERY PENETRATION RESIST (BLONG/6 IN.) SAMPLE NO. OVA DEPTH CONSTRUCTED (FEET) Sandy SILT with gravel; gray, dry to damp, very dense; mostly silt, some medium sand, some fine to medium subangular gravel, minor clay; good dry strength, slight to moderate dilatency, very poorly sorted; interpreted as Glacial Till 0.0 150/5 BB-9-5.0 0.5 10-BB-9-10.0 s 0.5 100 ML 8.9 15-BB-9-15.0 100 20-2.2 BB-9-20.0 0.5 100 25 7.0 0.5 60 BB-9-25.0

Pı	ojeci	Name	9 <u>E</u>	BENENSON BEL	LEVUE II Pro	ject	Numbe	r 946	5059.00	Boring/Well Name BB-9
PE	AMPLES RECOVERY (FEET)	PENETRATION RESIST (8LOWS/8 IN.)	DEPTH (FEET)		WELL NOT CONSTRUCTED	OVA	ПІНОГОСА	USCS		SAMPLE DESCRIPTION AND DRILLING REMARKS
+	0.5	77	30	BB-9-30.0		6.0			-	
			-	-	-		11111		-	
			-		-					
4	0.5	85	35 -	BB-9-35.0	_				-	
1	0.0	35_	-	5 5 55.5	- S				-	
			-							
			-		-	İ			-	
+	0.5	84	40-	BB-9-40.0	-		{ 		_	
			-	,					-	
			-]]		ļ	
4	0.5	70	45 —	BB-9-45.0		0.00	$\ \ \ $	ML	-	
7			-						}	
			-	·					Ē	
			-						-	
+	0.5	104	50 —	88-9-50.0		5.2			<u> </u>	
			-		-				}	
1			-						<u>-</u>	
Ⅎ	0.5	110	55-	88-9-55.0	-	1.60			-	
			1						_	
			-	1					<u> </u>	
			60-			-			<u> </u>	
1	0.5	75	-	BB-9-60.0	-	3.0			-	
]		-							
	ı		\dashv						-	
			65						_	
			7	•	-				<u> </u>	
			+						_	
	-		70						L	

Boring & Well Construction Log Kennedy/Jenks Consultants Boring/Well Name BB-10 THE SHOPS AT FIRST STREET PROJECT BORING LOCATION DRILLING COMPANY DRILLER SCOTT **Project Name** BENENSON BELLEVUE II CASCADE DRILLING, INC. DRILL BIT(S) SIZE: 6 5/8" O.D DRILLING METHOD HOLLOW STEM AUGER Project Number 946059.00 FT. FROM TO ISOLATION CASING ELEVATION AND DATUM TOTAL DEPTH FT. BLANK CASING DATE COMPLETED DATE STARTED 08/10/1994 08/10/1994 FT. FROM TO PERFORATED CASING INITIAL WATER DEPTH (FT) N.A FT. SIZE AND TYPE OF FILTER PACK FROM TO LOGGED BY T. MORIN <u>0.0</u>το FROM FT. SAMPLING METHODS WELL COMPLETION | SURFACE HOUSING 2.0 CONCRETE 2.0 ^{to} 62.0 FT. FROM GROUT VOLCLAY 2" SPOON W/ BRASS STAND PIPE SAMPLES WELL NOT USCS RECOVERY (RESIST (REONS/6 IN.) SAMPLE DESCRIPTION AND DRILLING REMARKS LITHOLOGY SAMPLE NO. OVA CONSTRUCTED (FEET) Sandy SILT with gravel; gray, dry to damp, very dense; mostly silt, some medium sand, some fine to medium subangular gravel, minor clay; good dry strength, slight to moderate dilatency, very poorly sorted; 5 - BB-10-5.0 S 0.5 130 0.6 interpreted as Glacial Till 10 - BB-10-10.0 S 0.5 98 ML 15 - BB-10-15.0 1.3 0.5 160/4 20 0.5 BB-10-20.0 25 2.4 0.5 98 BB-10-25.0

Second S	Projec	t Nam	9 <u>F</u>	BENENSON BEL	LEVUE II Pro	oject	Number 94	6059.00	Boring/Well Name BB-10
0.5 120 30 BB-10-35.0 0.5 120 40 BB-10-45.0 0.5 120 50 BB-10-45.0 0.5 100 50 BB-10-55.0 0.8 BB-10-45.0 1.20 ML 1.20 ML 1.20 ML 1.20 ML 1.20 ML 1.20 ML 1.20 ML 1.20 ML 1.20 ML 1.20 ML 1.20 ML 1.20 ML	SAMPLES TPE RECOVER (FEET)	PENETRATION RESIST (BLOWS/6 IN.)	DEPTH (FEET)	k	WELL NOT CONSTRUCTED		LITHOLOGY USCS		SAMPLE DESCRIPTION AND DRILLING REMARKS
0.5 100 45 BB-10-45.0			35 —	BB-10-35.0	- -	0.8		-	
0.5 100 55 BB-10-55.0		·	- - -			<u>-</u>]]	ML	-	
9.5 100 9B-10-62.0 4.0			- - -	88-10-55.0	-	9.40		-	
			60-	BB-10-62.0	-	4.0		- - - - - -	
			1		-			- - - -	

Boring & Well Construction Log

Kennedy/Jenks Consultants

RING LOCATION THE SHI							Boring/Well Name Project Name	BENENSON BE	TEVID
CASCADI	E DRILLING, INC		l .	SCOTT		o"	. · ·		
HOLLOW	STEM AUGER	-					Project Number	946059.00	
N.A		<u></u>	FROM		TO	гт. ———	ELEVATION AND DATUM	TOTAL DEPTH 60.	0 ,
ANK CASING N.A.			FROM		o	FT.	DATE STARTED 08/10/1994	DATE COMPLETED	/10/199
REFORATED CASING N.A.			FROM	T	·o	FT.	INITIAL WATER DEPTH (FT)		1
E AND TYPE OF FILTER PACK N.A.	,	<u> </u>	FROM	T	· O	FT.	LOGGED BY		· ·
AL CONCRETE			FROM	0.0	ຶ້ 2	.0 FT.	T, MORIN SAMPLING METHODS	WELL COMPLETION	IEINC
OUT VOLCLAY			FROM	2.01		.0 FT.	2.5" SPOON W/ BRASS		
SAMPLES	SAMPLE NO.	WELL NOT	0)/4	LITHOLOGY	uscs		SAMPLE DESCRIPTION AND	DRILLING REMARKS	1
PE RECOVERY PENETRATION DEP'TY RESIST (FEET) (BLOWS/6 IL)		CONSTRUCTED	OVA		LOG				
							endy SILT with gravel; gre		
]		<u> </u>			1	lamp, very dense; mostly		i
]					L	and, some fine to medium		:1,
	_					L	ninor clay; good dry stren		!
			1	<u> </u>		┕	noderate dilatency, very po	porty sortea;	; ;
0.5 100 5-	BB-11-5.0]	$\ \ \ $		ļ ir	nterpreted as Glacial Till		1
						L	,		i
						L			1
		. 1				L			;
10-									i
0.5 110 10-	BB-11-10.0					L			,
	1								:
	1]					•	,
	1		1			7			1
	†		1			-			1
0.5 140 15-	BB-11-15.0	-	1		ML				}
	1		1						,
	1		1						1
.	†	-	1	 					1
			1			Γ			1
0.5 100 20-	BB-11-20.0	-	1						1
	1		1	$\ \ \ $					1
	1		†	$\ \ \ $					ı
	1		1	$\ \ \ $		Γ			ı
'	†		1	$\ \ \ $				•	
0.5 115 25-	BB-11-25.0	- 1	1	$\ \ \ $,
	†		1	$\ \ \ \ $					ł
	†		1	<u>}</u> }					;
	†		1						1
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		t Namo	<u> </u>	BENENSON BELI	EVUE II Pro	ject	Numbe	946059.00	Boring/Well Name BB-1
PE	RECOVERY (FEET)	PENETRATION RESIST (BLOWS/8 PL)	DEPTI (FEET	×	WELL NOT CONSTRUCTED	OVA	LITHOLOGY	USCS LOG	SAMPLE DESCRIPTION AND DRILLING REMARKS
	0.5	120	30 - - - 35-	BB-11-30.0	- - - - -			-	
	0.5	75	40-	88-11-40.0 88-11-45.0	- - - -			ML -	
	0.5	120	- - -	88-11-50.0	- - - - -			- - - - - -	
	0.5	150	55-	BB-11-55.0 BB-11-60.0				- - - - - -	
			65 -		- - - -		-	- - - - -	
İ			70	l .	ا ا			L	

Kennedy/Jenks Consultants Boring & Well Construction Log Boring/Well Name BB-12 ' THE SHOPS AT FIRST STREET PROJECT BORING LOCATION BENENSON BELLEVUE II DRILLING COMPANY DRILLER SCOTT **Project Name** CASCADE DRILLING, INC. DRILL BIT(S) SIZE: 6 5/8" DRILLING METHOD 0.0 Project Number 946059.00 HOLLOW STEM AUGER TO Fī. ISOLATION CASING ELEVATION AND DATUM TOTAL DEPTH 90.0 FROM TO FT. DATE COMPLETED BLANK CASING DATE STARTED 08/10/1994 08/10/1994 FT. FROM ΤO PERFORATED CASING INITIAL WATER DEPTH (FT) FROM TO FT. SIZE AND TYPE OF FILTER PACK LOGGED BY T. MORIN 2.0 FT. 0.0 FROM WELL COMPLETION
SURFACE HOUSING SAMPLING METHODS CONCRETE 2.0 10 90.0 FT. FROM 2.5" SPOON W/ BRASS STAND PIPE FT. GROUT VOLCLAY SAMPLES USCS WELL NOT SAMPLE DESCRIPTION AND DRILLING REMARKS RECOVERY PENETRATION (FEET) (BLOWS/6 H.) LITHOLOGY SAMPLE NO. OVA DEPTH LOG CONSTRUCTED TYPE (FEET) Sandy SILT with gravel; gray to damp damp, very dense; mostly silt, some medium sand, some fine to medium subangular gravel, minor clay; good dry strength, slight to moderate dilatency, very poorly sorted; BB-12-5.0 0.0 interpreted as Glacial Till 0.5 130 10 0.0 0.5 110 BB-12-10.0 ML 15 0.0 0.5 140 BB-12-15.0 20 0.4 0.5 105 BB-12-20.0 25 2.4 95 0.5 BB-12-25.0

Project N	ame	BENENSON BEL	LEVUE II Pr	oject	Number	946059.0	Boring/Well Name BB	<u>-12</u>
SAMPLES PE RECOVERY RE (FEET) (BLOW	RATION DEI	PTH SAMPLE NO.	WELL NOT CONSTRUCTED	OVA	LITHOLOGY	USCS	SAMPLE DESCRIPTION AND DRILLING REMARKS	
0.5 10		BB-12-30.0		2.4		-		
		1		1		-		
		-		-		-		
0.5 85	35	5-12-35.0		1.4		-		
		1		}				
]		-		-	_	
0.5	40	BB-12-40.0		0.7		-		
		-		}		_		
]]		-		
0.5 60	45	88-12-45.0		0.50		-		
		+		1		ML		
		1]		-		
0.5	50	BB-12-50.0		0.4		- -		
		+		1		-		
		1]		-		
0.5 10	55	BB-12-55.0		3.60		-		
		1		}				
		-		-		-		
0.5	60	BB-12-60.0		1.4		F		
		†		1		ļ.		
}				1				
0,5 70	65	BB-12-65.0		0.7		L	Poorly graded SAND with silt; gray, damp, very dense; mostly medium to coarse	
		1		†		L	sand, some silt, minor fine gravels	
		+					siltier	
		-	· Proposition ·	_		-		

Boring & Well Construction Log

Kennedy/Jenks Consultants

PE	RECOVERY (FEET)	PENETRATION RESIST (BLOWS/6 IN.)	DEPTH (FEET)	4 Sample No.	WELL NOT CONSTRUCTED	OVA	штно	LOGY	USCS	SAMPLE DESCRIPTION AND DRILLING REMARKS
	0.5	(SLOS) O R.	70 - - -	BB-12-70.0		1.4			SP/ SM	- - -
	0.5	150	75 - -	BB-12-75.0 BB-12-77.0	-	0.0				Sandy SILT with gravel; gray, dry to damp, very dense; (same Glacial Till as above)
	0.5	120	80 -	BB-12-80.0	-	0.7			ML	
	0.5	130	85 <i>-</i>	BB-12-85.0	-	0.6				
.	0.5	130	90 -	BB-12-90.0		-				slight increase in fine sand fraction
			95-			-				
			100 —		_	- - - -				
			105-		-	- - - -				
			110-		_					

Kennedy/Jenks Consultant **Boring & Well Construction Log** Boring/Well Name 88-13 BORING LOCATION THE SHOPS AT FIRST STREET PROJECT DRILLING COMPANY DRILLER SCOTT Project Name BENENSON BELLEVUE CASCADE DRILLING, INC. ORILL BIT(S) SIZE: 6 5/8" O. DRILLING METHOD HOLLOW STEM AUGER **Project Number** 946059.00 FROM TO FT. ISOLATION CASING ELEVATION AND DATUM TOTAL DEPTH FROM TO FT. BLANK CASING DATE COMPLETED DATE STARTED 08/11/1994 08/11/1994 FT. PERFORATED CASING FROM TO INITIAL WATER DEPTH (FT) SIZE AND TYPE OF FILTER PACK N.A. TQ FT. FROM LOGGED BY T. MORIN 0.0 TO 2.0 FT. FROM WELL COMPLETION
SURFACE HOUSING SAMPLING METHODS CONCRETE FROM 90.0 FT. 2.0 10 GROUT VOLCLAY 2.5" SPOON W/ BRASS STAND PIPE SAMPLES USCS WELL NOT SAMPLE DESCRIPTION AND DRILLING REMARKS TYPE RECOVERY RESIST (FEET) (BLOWS/6 M.) SAMPLE NO. LITHOLOGY OVA CONSTRUCTED (FEET) Sandy SILT with gravel; gray, dry to damp, very dense; mostly silt, some medium sand, some fine to medium subangular gravel, minor clay; good dry strength, slight to moderate dilatency, very poorly sorted; 0.0 0.5 150 BB-13-5.0 interpreted as Glacial Till 10 0.5 120 BB-13-10.0 0.0 ML 15 0.5 130 4.5 BB-13-15.0 20. BB-13-20.0 0.9 0.5 100 25 1.9 140 BB-13-25.0 0.5

E F	MPLES	PENETRATION RESIST	DEPTH (FEET)	SAMPLE NO.	WELL NOT CONSTRUCTED	OVA	UTHOLOGY	USCS LOG	SAMPLE DESCRIPTION AND DRILLING REMARKS
		(9.0WS/5 IN) 110	30	BB-13-30.0					
	0.5	120	35	88-13-35.0	-	1.2			- blueish gray
	0.5	130	40-	BB-13-40.0	-	1.0		ML	- - - -
	0.5	110	45 - -	BB-13-45.0		1.80			
	0,5	120	50-	BB-13-50.0	-				- -
	0,5	80	55 -	BB-13-55.0	-				Poorly-graded SAND with allt; gray, damp, very dense; mostly coarse to medium sand, some silt, minor fine gravel fraction
	0.5	110	60 -	88-13-60.0		1.7		SP/ SM	- - - -
	0.5	120	65-	88-13-65.0					- - - -

-	SAMPLES RECOVERY	PENETRATION RESIST	DEPTI	SAMPLE NO.	WELL NOT CONSTRUCTED	OVA	LITHOLOGY	USCS	SAMPLE DESCRIPTION AND DRILLING REMARKS
	(FEET)	(B.045/6 PL)	,,	BB-13-70.0	CONSTRUCTED	12			Sandy SILT with gravel; gray, dry to
			-]		_			damp, very dense; (same Glacial Till as above)
			_			4			
			75.	1		<u></u>			slight increase in fine sand fraction
1	0.5	150	′ -	BB-13-75.0		8.0			-
ŀ				1		_			
İ			-	1		1			-
+	0.5	95	80-	88-13-80.0		0.4		ML	_
			-	1		-	$\ \ \ \ $		-
			-	1		1	<u> </u>		
	0.5	105 _	85-	BB-13-85.0		6.2			_
			-	<u>]</u>		1			
ĺ			-			4			-
			90-	1		_			_
1	0.5	110		BB-13-90.0		+			•
			-	1		1			_
				1		+			_
			95 -	1		7			-
			-	1		1			
			-]					-
			100-	<u> </u>					- -
		ļ	-			4			+
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	•	}	105-	1		-			-
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			110-	İ		J			

Boring & Well Construction Log Kennedy/Jenks Consultants Boring/Well Name BB-14 THE SHOPS AT FIRST STREET PROJECT BORING LOCATION DRILLING COMPANY DRILLER SCOTT **Project Name** BENENSON BELLEVUE II CASCADE DRILLING, INC. DRILL BIT(S) SIZE: 6 5/8" O. DRILLING METHOD HOLLOW STEM AUGER 946059.00 **Project Number** FT. ISOLATION CASING ELEVATION AND DATUM 60.0 FT. FROM DATE COMPLETED BLANK CASING DATE STARTED 08/11/1994 08/11/1994 FT. FROM TO PERFORATED CASING INITIAL WATER DEPTH (FT) FT. FROM TO SIZE AND TYPE OF FILTER PACK LOGGED BY T. MORIN 2.0 FT. 0.0 FROM SAMPLING METHODS WELL COMPLETION
SURFACE HOUSING CONCRETE FROM STAND PIPE 2.0 10 60.0 FT. 2.5" SPOON W/ BRASS GROUT VOLCLAY SAMPLES WELL NOT USCS SAMPLE DESCRIPTION AND DRILLING REMARKS RECOVERY PENETRATION RESIST (BLONG/6 M.) LITHOLOGY SAMPLE NO. OVA CONSTRUCTED LOG (FEET) Sandy SILT with gravel; gray, damp to damp, very dense; mostly silt, some medium sand, some fine to medium subangular gravel, minor clay; good dry strength, slight to moderate dilatency, very poorly sorted; 0.6 0.5 110 BB-14-5.0 interpreted as Glacial Till 10 - 0.5 100 BB-14-10.0 ML 15 160 0.5 | 130/3 0.8 BB-14-16.0 20 0.5 100 BB-14-20.0 25 0.5 81 BB-14-25.0 6.4

Boring & Well Construction Log Kennedy/Jenks Consultant

Project Name	e <u>B</u>	BENENSON BEL	LEVUE II Pr	oject	Number	946059.00	Boring/Well Name BB-14
SAMPLES PERCOVERY PROTECTION (FEET) (BLOWS/N N.)	DEPTH (FEET)	SAMPLE NO.	WELL NOT CONSTRUCTED	OVA	ПІНОГОСА	USCS LOG	SAMPLE DESCRIPTION AND DRILLING REMARKS
0.5 84 0.5 75 0.5 78 0.5 90	35 - 40 - 45 - 50 - 1	BB-14-35.0 BB-14-40.0 BB-14-45.0 BB-14-55.0		5.8		ML	
0.5 110	60-	BB-14 - 60.0		0.4			

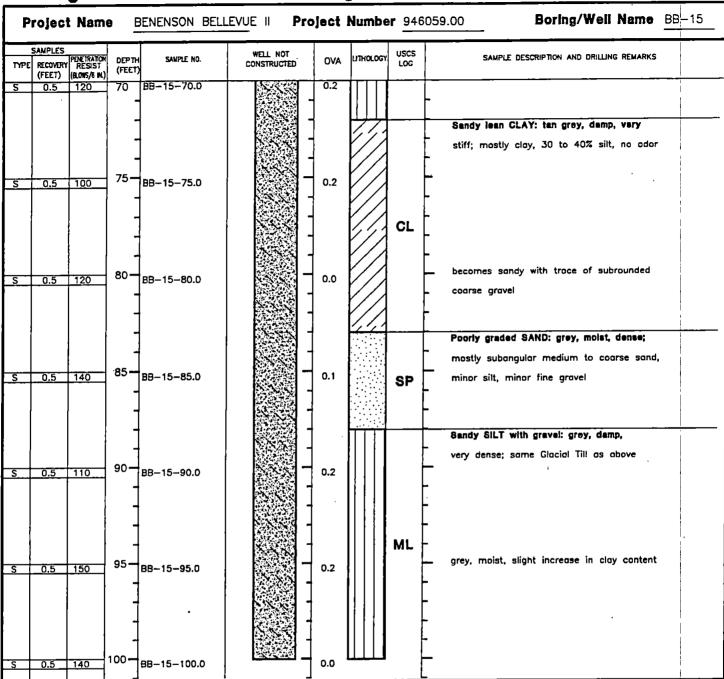
Boring & Well Construction Log Kennedy/Jenks Consultants

RILL	ING COM	PANY CAS	SCADE	DRILLING, INC		DRILLER	°SC0∏			Project Name	BENENSON BE	LLEVUE
RILL	ING METI			STEM AUGER	<u> </u>	l	_		/8" O.[1 -	946059.00	
OL A	TION CAS	ING		STEW AUGUS		FROM		TO 0,	FT.	ELEVATION AND DATUM	TOTAL DEPTH	_
		N.F	۸			FROM		TO	Fī.	i	DATE COMPLETED	<u>.oˈ</u>
	CASING	N.A	١			FROM		TO	FT.	DATE STARTED 10/15/1994		<u>15/199</u>
		N.A				FROM		TO	FT.	INITIAL WATER DEPTH (FT)		<u>'</u>
		OF FILTER	. FACE			FROM			FT.	LOGGED BYT. MORIN	1	
EAL.		RETE	_				0.0		2.0 FT.	SAMPLING METHODS	WELL COMPLETION SURFACE HOU	
_	VOLC	LAY				FROM	2.0	100	1	2" SPOON W/ BRASS	STAND PIPE_	FT
_	RECOVERY		DEPTH (FEET)	SAMPLE NO.	WELL NOT CONSTRUCTED	OVA	LITHOLOGY	TOC		SAMPLE DESCRIPTION AND E	ORILLING REMARKS	!
	(FEET)	(BLONS/S IN.)	, - ,			2.6	$\Pi\Pi$		8	andy SILT with gravel; grey	, damp,	;
			-			1	$\ \cdot \ $			ery dense; mostly silt, som		!
			_			1			٥	oarse sand, some medium	subangular gravel	'
			_			1	1		l	ninor clay; good dry streng		
			-]	$\parallel \parallel \parallel \parallel$	}	L	noderate dilatency, very poo	orly sorted;	į
			5-			2.4			["	nterpreted as Glacial Till		f
ļ			_									
			-]						
			_]	$\ \ \ \ $		Ĺ			
			-]	$\{ \cdot \}\}$					
			10-			12.0						
			-	•							• • •	1
			-			1						•
			-]	$\ \cdot \ \cdot \ $			ery distinct solvent odor		
ı							1	ML				1
耳	0.5	160	15—	BB-15-15.0		320		IAIL			4	
			_]			_		•	'
Ì			-				$\ \ \ \ $:
]		1	L			
			20-									
	0.5	100	_ ∠∪ —	BB-15-20.0		190	$\ \ \ \ $		1			
			_]]	$\ \ \ \ $		L			:
			_]	$\ \ \ \ $		L			í
			_			1			-			1
		150	25 —	DD 15 05 0		75			⊢ ∘	dor significantly decreased		1
	0.5	150		BB-15-25.0		,″	$\ \ \ \ $		-			
			-			1			F			ı
			_	ļ	. 1888	1	$\ \ \ $		-		•	
			_	ļ		1	$\ \ \ \ $		F			
			_	ļ]			L			

Boring & Well Construction Log Kennedy/Jenks Consultant

		Nam	e !	BENENSON BE	LLEVUE II	Pro		Number	946	059.00	Boring/Well Name	BB-15
TYPE	RECOVERY (FEET)	PENETRATION RESIST (BLOWS/B IN.)	DEPTI (FEET		WELL NO CONSTRUC	T TED	OVA	LITHOLOGY	LOG	SAMPLE [DESCRIPTION AND DRILLING REMARKS	s
S	0.5	165	35-	BB-15-30.0 BB-15-35.0			16			gravelly		
S	0.5	120	40- - -	88-15-40.0			7.4			-		
S	0.5	130	45 	BB-15-45.0			8.50		ML	- - - -		
S	0.5	110	50-	88-15-50.0			2.5			- - - - -		
s	0.5	100	55—	88-15-55.0			1.30		-	- siltier - -		
s	0.5	200	60 —	BB-15-60.0						no recovery, c	uttings become dark grey	
5	0.5	140	65-	88-15-65.0		1 1 1 1	5.8		- - - - - -	• •• •		
							ļ		Ė	- -		

Boring & Well Construction Log Kennedy/Jenks Consultants

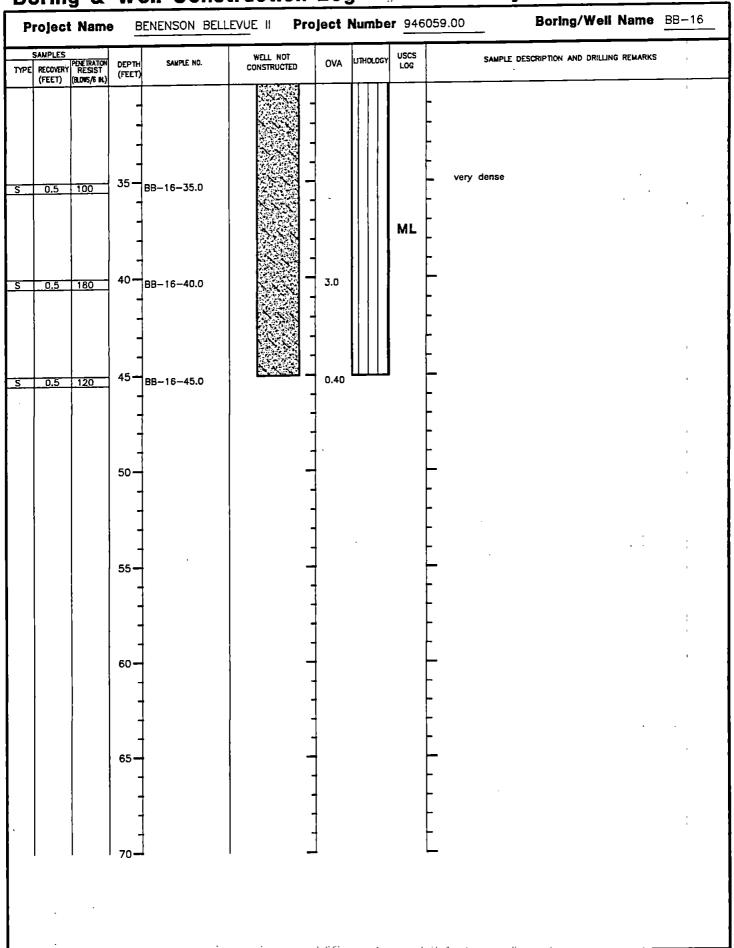


Notes:

Refusal at 100 feet bas. Groundwater not encountered to maximum depth of boring.

Kennedy/Jenks Consultant & Well Construction Log Boring/Well Name BB-16 BORING LUCATION THE SHOPS AT FIRST STREET PROJECT DRILLING COMPANY DRILLER SCOTT **Project Name** CASCADE DRILLING, INC. BENENSON BELLEVUE DRILL BIT(S) SIZE: 6 5/8" O.E DRILLING METHOD HOLLOW STEM AUGER **Project Number** 946059.00 FROM ISOLATION CASING ELEVATION AND DATUM TOTAL DEPTH 45.0 FROM BLANK CASING DATE COMPLETED DATE STARTED 10/15/1994 10/15/1994 FROM TO FΤ. PERFORATED CASING INITIAL WATER DEPTH (FT) FROM TO SIZE AND TYPE OF FILTER PACK N.A. LOGGED BY T. MORIN 2.0 FT. <u>0.0</u>το FROM SAMPLING METHODS WELL COMPLETION
SURFACE HOUSING CONCRETE 2.0 10 45.0 FT. 2 SPOON W/ BRASS GROUT VOLCLAY STAND PIPE WELL NOT USCS RECOVERY RESIST
(FEET) (BLONS/8 PL) SAMPLE DESCRIPTION AND DRILLING REMARKS SAMPLE NO. DEPTH OVA CONSTRUCTED LOG (FEET) Sandy SILT with gravel; brownish grey, damp, very dense; mostly silt, some medium sand, some medium to coarse subangular gravel, minor clay; good dry strength, slight to moderate dilatency, very poorly 2.6 S 1.5 70 BB-16-5.0 sorted; interpreted as Glacial Till 0.5 100 BB-16-10.0 2.7 ML 12 S 0.5 110 BB-16-15.0 20 blueish 25-S 0.5 170 BB-16+25.0 2.4

Boring & Well Construction Log Kennedy/Jenks Consultants



Boring & Well Construction Log Kennedy/Jenks Consultants BORING LOCATION Boring/Well Name BB-17 THE SHOPS AT FIRST STREET PROJECT DRILLING COMPANY CASCADE DRILLING, INC. DRILLER SCOTT Project Name BENENSON BELLEVUE I DRILL BIT(S) SIZE: 6 5/8" O.E DRILLING METHOD HOLLOW STEM AUGER **Project Number** 946059.00 ISOLATION CASING FROM TO FT. N.A ELEVATION AND DATUM TOTAL DEPTH 20.0 BLANK CASING FROM TO FT. DATE COMPLETED DATE STARTED 10/15/1994 10/15/1994 PERFORATED CASING FROM το FT. INITIAL WATER DEPTH (FT) SIZE AND TYPE OF FILTER PACK N.A. FROM TO FT. LOGGED BY T. MORIN 2.0 FT. 0.0^{to} FROM WELL COMPLETION
SURFACE HOUSING CONCRETE SAMPLING METHODS 2.0 to GROUT VOLCLAY 20.0 FT. 2" SPOON W/ BRASS STAND PIPE WELL NOT RECOVERY RESIST (BLONS/6 IL) SAMPLE DESCRIPTION AND DRILLING REMARKS SAMPLE NO. LITHOLOGY DEPT TYPE RECOVERY CONSTRUCTED (FEET) Sandy SILT with gravel; brown grey, damp, dense; mostly silt, some medium sand, some medium to coarse subangular gravel, minor clay; good dry strength, slight to moderate dilatency, very poorly sorted; 140 1.4 BB-17-5.0 interpreted as Glacial Till poor recovery (3") ML 10 150 BB-17-10.0 1.6 15 0.5 200 BB-17-15.0 0.9 20 0.5 140 BB-17-20.0 25

Boring & Well Construction Log Kennedy/Jenks Consultants

Rol	ınç	<u> 3 & </u>	W	ell Cons	truction	LO	<u> </u>		,	<u> </u>	nneay/Jenks	Consuit	an
BORING L	.DCATI	HI אם	E SHO	OPS AT FIRST S	STREET PROJEC	T					Boring/Well Name	BB-18	
DRJLLING	СШМР	ANY CAS	SCADE	DRILLING, INC		DRILLE						BENENSON BELL	EVUE
DRILLING	METH	ш НО	LLOW	STEM AUGER		DRILL	BIT(S)	SiZE	6 5/	/8" 0.[Project Number _ 9	46059.00	
ISOLATION	CASIN	N.A	١.	-		FROM			то	FT.	ELEVATION AND DATUM	TOTAL DEPTH	
BLANK CA	ASING	N.A				FROM	-		то	Fī.	DATE STARTED	DATE COMPLETED	- - - -
PERFORAT	ED CA					FROM		•	то	FT.	10/15/1994 Initial water depth (FT)	10/18	199
SIZE AND	TYPE		R PACK			FROM			то	FT.	LOGGED BY		!
SEAL C	ONC	RETE		<u> </u>		FROM		0.0	то	2.0 ^{FT.}	T. MORIN SAMPLING METHODS	WELL COMPLETION SURFACE HOUSIN	NG.
GROUT V						FROM		2.0		5.0 FT.	2" SPOON W/ BRASS	STAND PIPE	FT.
SAME TYPE REC	PLES	PENETRATION	DEPTH		WELL NOT CONSTRUCTED	OVA	ПІНО	LOGY	USCS		SAMPLE DESCRIPTION AND DR	ILLING REMARKS	
(FE	ET) (BLONS/S IN.)	(FEET)		997707973		 	П		<u> </u>	andy SILT with gravel; gray	brown.	1
	Ì		-		-	{				L	amp, dense; mostly silt, son		
			-		-	1				L	ome medium to coarse subc		
			-		- 100 m	1				m	ninor clay; good dry strength	, slight to	
	-		-		- 5	†				m	noderate dilatency, very poor	ly sorted;	
5 1.	.5	130/1	5—	BB-18 - 5.0		1.4	$\ \ $			- in	terpreted as Glacial Till		
	1		-			1	$\ \ $		[_			
			-		-	†		$\ \ $	i				
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			-		- 1888	†		$\ \ $		-			
0	.5	150	10 —	BB-18-10.0		1.7				–			1
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S 0.	.5	160	15-	BB-18-15.0		0.6	11		ML	-			1
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	- }		-	-	- [<u> </u>				-			
0.	.5	120 _	25 —	BB-18-25.0		0.4		$\{ \ \ \}$		-			1
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Boring & Well Construction Log

Kennedy/Jenks Consultant

Post 120 150	Project Name	_ 	ELLEVUE II Project Number 94	1
55 120 35 BB-18-35.0 AU AU AU AU AU AU AU AU AU AU AU AU AU	PE RECOVERY RESIST (BLOWS/8 NL)	DEPTH SAMPLE NO. (FEET)		SAMPLE DESCRIPTION AND DRILLING REMARKS
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		1		-
		65	1	<u></u>
		†		- -
		70]		

Appendix D

Laboratory Analytical Results
Chain-of-Custody Forms

CHAIN OF COSTOS



ENVIRONMENTAL MANAGEMENT RESOURCES ENVIRONMENTAL MANAGEMENT RESOURCES, INC. 625/8270 2509 152nd Avenue NE, Suite B, Redmond, WA 98052 (206) 861-4561 FAX (206) 869-7820 VOLATILE AROMATICS REPORT TO: SEMIVOLATILES (BNA) PROJECT NAME: BEHEHSON BELLEYVE PESTICIDES/PC8s WTPH-G w/BTEX PAH 610/8100 PROJECT NO .: METALS: forterd LABORATORY: ALAUTICA! WTPH-D OTHER: OTHER: # OF **SAMPLE IDENTIFICATION** DATE TIME MATRIX PRESERV. LAB# CONT'S B-IV Sol CHECK 6-28-94 Received by (Signature) TURN AROUND TIME: 24 hr. [] 48 hr. [] 2 Weeks [] Normal [] Other SAMPLE CONDITION/INTEGRITY: COOL? YES NO Relinquished by (Signature) Received by (Signature) **REMARKS/SPECIAL INSTRUCTIONS:** Printed Name Time Printed Name Time



July 27, 1994

David L. Welch
Environmental Management Resources
2509 152nd Avenue N.E.
Suite B
Redmond, WA 98052-5551

Dear David:

Enclosed are the analytical results of samples submitted on July 26, 1994 from project Benenson/Bellevue, 1153.

If you have any questions regarding this report or if you need any other assistance, please do not hesitate to call me.

Sincerely,

Cynthia Rezania Project Chemist

CLR/lh



EPA 8240 Volatile Organic Compounds

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Analyte	Sample Result	Notes	Reporting Limit
	N.D.		2
Acetone	N.D.		2
Acrolein	N.D.		2
Acrylonitrile	N.D.		2
Benzene	N.D.		. 0.2
Bromobenzene	N.D.		0.2
Bromochloromethane	N.D.		0.4
Bromodichloromethane	N.D.		0.2
Bromoform	N.D.		0.4
Bromomethane	N.D.		0.4
n-Butylbenzene	N.D.		0,2
sec-Butylbenzene	N.D.		. 0.2
tert-Butylbenzene	N.D.		0.2
Carbon Disulfide	N.D.		1
Carbon tetrachloride	N.D.		0.2
Chlorobenzene	N.D.		0.2
Chloroethane	N.D.		0.2
2-Chloroethyl vinyl ether	N.D.		1
Chloroform	. N.D .		0.2
Chloromethane	N.D.		0.2
2-Chlorotoluene	N.D.		0.2
4-Chlorotoluene	N.D.		0.2
Dibromochloromethane	N.D.		0.4
1,2-Dibromo-3-chloropropane	N.D.		0.5
1,2-Dibromoethane	N.D.		. 0,4
Dibromomethane	N.D.		0.4
1,2-Dichlorobenzene	N.D.		0.2
1,3-Dichlorobenzene	N.D.		0.2
1,4-Dichlorobenzene	N.D.		0.2
Dichlorodifluoromethane	N.D.		0.4
1,1-Dichloroethane	N.D.		0.2
1,2-Dichloroethane	N.D.		0.2
1,1-Dichloroethene	N.D.		0.2
cis-1,2-Dichloroethene	N.D.		0.2
trans-1,2-Dichloroethene	N.D.		0.2
1,2-Dichloropropane	N.D.		0.2
1,3-Dichloropropane	N.D.		0.4

Notes



EPA 8240 Volatile Organic Compounds, continued

Client:	Environmental Management Re	esources Date Sample	ed: July 26, 1994
Project Name:	Benenson/Bellevue	Date Receive	ed: July 26, 1994
Project Number:	1153	Date Extract	ted: July 26, 1994
Client Sample ID:	STP-8	Date Analyz	ed: July 26, 1994
Laboratory Batch #	01497	Sample Mat	rix: Soil
Units:	mg/kg	Dilution Fac	tor: 1
Analyte		e Result Notes	Reporting Limit
,2-Dichloropropane		.D.	0.4
, 1-Dichloropropene		.D.	0.2
is-1,3-Dichloroprope		.D.	0.2
ans-1,3-Dichloropro	=	.D.	0.2
thylbenzene		.D.	0.2
exachlorobutadiene		.D.	0.2
-Hexanone		.D.	2
opropylbenzene		.D.	0.2
-Isopropyltoluene		.D.	0.2
ŒK		.D.	2
lethylene chloride		. D .	0.4
MBK .		.D.	2 .
aphthalene		.D.	0.2
-Propylbenzene		.D.	0.2
tyrene		.D.	0.2
1,1,2-Tetrachloroetl		.D.	0.2
1,2,2-Tetrachloroetl		.D.	0.4
etrachloroethene		20	0.2
oluene		.D.	0.4
,2,3-Trichlorobenzer		. D .	0.4
2,4-Trichlorobenzer		.D.	0.4
1,1-Trichloroethane		.D.	0.2
1,2-Trichloroethane		.D.	0.4
richloroethene		.D.	0.2
richlorofluorometha		.D.	0.2
2,3-Trichloropropar		.D.	0.4
,2,4-Trimethylbenze		.D.	0.2
3,5-Trimethlybenze		.D.	0.2
inyl Acetate		D.	1
inyl chloride		D.	1
,p,-Xylene		D.	0.4
-Xylene	Ņ	.D.	0.2
urrogate Recoveries	Reco	overy Notes	Acceptance Range
oluene-d8		0%	81%-117%
Bromofluorobenzen	e 99	9%	74%-121%
ibromofluoromethan	ie 99	9%	80%-120%



Client:

Environmental Management Resources

Project Name:

Benenson/Bellevue

Project Number:

1153

Date Extracted: Date Analyzed: July 26, 1994

Laboratory Batch #

01497

Dilution Factor:

July 26, 1994

Sample ID.

Method Blank

TIm:4a4

1

Sample ID: Method Blank		Units:	mg/kg
Analyte	Sample Result	Notes	Reporting Limit
A	N.D.		•
Acetone Acrolein	N.D. N.D.		2
			2
Acrylonitrile	N.D.		2
Benzene	N.D.		0.2
Bromobenzene	N.D.		0.2
Bromochloromethane	N.D.		0.4
Bromodichloromethane	N.D.		0.2
Bromoform	N.D.		0.4
Bromomethane	N.D.		. 0.4
n-Butylbenzene	N.D.		0.2
sec-Butylbenzene	N.D.		0.2
tert-Butylbenzene	N.D.		0.2
Carbon Disulfide	N.D.		1
Carbon tetrachloride	N.D.		0.2
Chlorobenzene	N.D.		0.2
Chloroethane	N.D.		0.2
2-Chloroethyl vinyl ether	N.D.		1
Chloroform	N.D.		0.2
Chloromethane	N.D.		0.2
2-Chlorotoluene	N.D.		0.2
4-Chlorotoluene	N.D.		0.2
Dibromochloromethane	N.D.		0.4
1,2-Dibromo-3-chloropropane	N.D.		0.5
1,2-Dibromoethane	N.D.		0.4
Dibromomethane	N.D.		0.4
1,2-Dichlorobenzene	N.D.		0.2
1,3-Dichlorobenzene	N.D.		0.2
1,4-Dichlorobenzene	N.D.		0.2
Dichlorodifluoromethane	N.D.		0.4
1,1-Dichloroethane	N.D.		0.2
1,2-Dichloroethane	N.D.		0.2
1,1-Dichloroethene	N.D.	1	0.2
cis-1,2-Dichloroethene	N.D.		0.2
rans-1,2-Dichloroethene	N.D.		0.2
1,2-Dichloropropane	N.D.		0.2
1,3-Dichloropropane	N.D.		0.4



Sample ID:

EPA 8240 Volatile Organic Compounds, continued Quality Control Data

Units:

mg/kg

Client: Environmental Management Resources

Method Blank

Project Name: Benenson/Bellevue Date Extracted: July 26, 1994
Project Number: 1153 Date Analyzed: July 26, 1994

Laboratory Batch # 01497 Dilution Factor: 1

Analyte	Sample Result	Notes	Reporting Limit
2,2-Dichloropropane	N.D.		0.4
1,1-Dichloropropene	N.D.		0.2
cis-1,3-Dichloropropene	N.D.		0.2
trans-1,3-Dichloropropene	N.D.		0.2
Ethylbenzene	N.D.		0.2
Hexachlorobutadiene	N.D.		0.2
2-Hexanone	N.D.		2
Isopropylbenzene	N.D.		0.2
p-Isopropyltoluene	N.D.		0.2
MEK	N.D.		2
Methylene chloride	N.D.		0.4
MIBK	N.D.		2
Naphthalene	N.D.		0.2
n-Propylbenzene	N.D.		0.2
Styrene	N.D.		0.2
1,1,1,2-Tetrachloroethane	N.D.		0.2
1,1,2,2-Tetrachloroethane	N.D.		0.4
Tetrachioroethene	N.D.	•	0.2
Foluene	N.D.		0.4
1,2,3-Trichlorobenzene	N.D.		0.4
1,2,4-Trichlorobenzene	N.D.		0.4
l, l, l-Trichloroethane	N.D.		. 0.2
1,1,2-Trichloroethane	N.D.		0.4
Trichloroethene	N.D.		0.2
Crichlorofluoromethane	N.D.		0.2
1,2,3-Trichloropropane	N.D.		0.4
1,2,4-Trimethylbenzene	N.D.		0.2
1,3,5-Trimethlybenzene	N.D.		0.2
Vinyl Acetate	N.D.		1
Vinyl chloride	N.D.		1
m,p,-Xylene	'N.D.		0.4
o-Xylene	N.D.		0.2

Surrogate Recoveries	Recovery	Notes	Acceptance Range
Toluene-d8	100%		81% - 117%
4-Bromofluorobenzene	100%		74% - 121%
Dibromofluoromethane	104%		80% - 120%

Notes



Client:

Environmental Management Resources

Project Name:

Benenson/Bellevue

Project Number:

1153

01497

Date Extracted: Date Analyzed: July 26, 1994 July 26, 1994

Dilution Factor:

1

Laboratory Batch # mg/kg Units: Batch Sample ID: 01497QA

baten bampie ab. VATA QII	Reporting	Sample	Duplicate		Acceptance
Analyte	Limit	Result	Result	RPD	Limit
Acetone	2	N.D.	N.D.		30%
Acrolein	2	N.D.	N.D.		30%
Acrylonitrile	2	N.D.	N.D.		30%
Benzene	0.2	N.D.	N.D.		30%
Bromobenzene	0.2	N.D.	N.D.		30%
Bromochloromethane	0.4	N.D.	N.D.		30%
Bromodichloromethane	0.2	N.D.	N.D.		30%
Bromoform	0.4	N.D.	N.D.		30%
Bromomethane	0.4	N.D.	N.D.		30%
n-Butylbenzene	0.2	N.D.	N.D.		30%
sec-Butylbenzene	0.2	N.D.	N.D.		30%
tert-Butylbenzene	0.2	N.D.	N.D.		30%
Carbon Disulfide	1	N.D.	N.D.		30%
Carbon tetrachloride	0.2	N.D.	N.D.		30%
Chlorobenzene	0.2	N.D.	N.D.		30%
Chloroethane	0.2	N.D.	N.D.		30%
2-Chloroethyl vinyl ether	1	N.D.	N.D.		30%
Chloroform	0.2	N.D.	N.D.		30%
Chloromethane	0.2	N.D.	N.D.		30%
2-Chlorotoluene	0.2	N.D.	N.D.		30%
4-Chlorotoluene	0.2	N.D.	N.D.		30%
Dibromochloromethane	0.4	N.D.	N.D.		30%
1,2-Dibromo-3-chloropropane	0.5	N.D.	N.D.		30%
1,2-Dibromoethane	0.4	N.D.	N.D.		30%
Dibromomethane	0.4	N.D.	N.D.		30%
1,2-Dichlorobenzene	0.2	N.D.	N.D.		30%
1,3-Dichlorobenzene	0.2	N.D.	N.D.		30%
1,4-Dichlorobenzene	0.2	N.D.	N.D.		30%
Dichlorodifluoromethane	0.4	N.D.	N.D.		30%
1,1-Dichloroethane	0.2	N.D.	N.D.		30%
1,2-Dichloroethane	0.2	N.D.	N.D.		30%
1,1-Dichloroethene	0.2	N.D.	N.D.		30%
cis-1,2-Dichloroethene	0.2	N.D.	N.D.		30%
trans-1,2-Dichloroethene	0.2	N.D.	N.D.		30%
1,2-Dichloropropane	0.2	N.D.	N.D.		30%
1,3-Dichloropropane	0.4	N.D.	N.D.		30%
Notes					



Client:

Environmental Management Resources

Project Name:

Benenson/Bellevue

Project Number: Laboratory Batch # 1153

01497

Date Extracted: Date Analyzed: July 26, 1994 July 26, 1994

Dilution Factor:

Batch Sample ID: 01497Q	A			Inits:	mg/kg
	Reporting	Sample	Duplicate	·	Acceptance
Analyte	Limit	Result	Result	RPD	Limit
2,2-Dichloropropane	0.4	N.D.	N.D.		30%
1,1-Dichloropropene	0.2	N.D.	N.D.		30%
cis-1,3-Dichloropropene	0.2	N.D.	N.D.		30%
trans-1,3-Dichloropropene	0.2	N.D.	N.D.		30%
Ethylbenzene	0.2	N.D.	N.D.		30%
Hexachlorobutadiene	0.2	N.D.	N.D.		30%
2-Hexanone	2	N.D.	N.D.		30%
Isopropylbenzene	0.2	N.D.	N.D.		30%
p-Isopropyltoluene	0.2	N.D.	N.D.		30%
MEK	2	N.D.	N.D.		30%
Methylene chloride	0.4	N.D.	N.D.		30%
MIBK	2	N.D.	N.D.	-	30%
Naphthalene	0.2	N.D.	N.D.		30%
n-Propylbenzene	0.2	N.D.	N.D.		30%
Styrene	0.2	N.D.	N.D.		30%
1,1,1,2-Tetrachloroethane	0.2	N.D.	N.D.		30%
1,1,2,2-Tetrachloroethane	0.4	N.D.	N.D.	_	30%
Tetrachloroethene	0.2	0.20	0.23	14%	30%
Foluene	0.4	N.D.	N.D.	••	30%
1,2,3-Trichlorobenzene	0.4	N.D.	N.D.		30%
1,2,4-Trichlorobenzene	0.4	N.D.	N.D.	-	30%
l,1,1-Trichloroethane	0.2	N.D.	N.D.		30%
1,1,2-Trichloroethane	0.4	N.D.	N.D.		30%
Frichloroethene	0.2	N.D.	N.D.	-	30%
Crichlorofluoromethane	0.2	N.D.	N.D.	***	30%
1,2,3-Trichloropropane	0.4	N.D.	N.D.		30%
1,2,4-Trimethylbenzene	0.2	N.D.	N.D.		30%
,3,5-Trimethlybenzene	0.2	N.D.	N.D.		30%
Vinyl Acetate	1	N.D.	N.D.		30%
Vinyl chloride	1	N.D.	N.D.		30%
n,p,-Xylene	0.4	N.D.	N.D.		30%
-Xylene	0.2	N.D.	N.D.		30%

Notes



Client: Environmental Management Resources

Project Name: Benenson/Bellevue Date Extracted: July 26, 1994
Project Number: 1153 Date Analyzed: July 26, 1994

Laboratory Batch # 01497 Dilution Factor: 1

Batch Sample ID: 01497QA Units: mg/kg

Daten Sample ID:	0149/QA				OHIES:	шуку
	Spike	Spike	Acceptance	Spike Dup		Acceptance
Analyte	Added	Recovery	Range	Recovery	RPD	Limit
1,1-Dichloroethene	5	66%	59% - 172%	67%	2%	22%
Benzene	5	85%	66% - 142%	86%	1%	21%
Trichloroethene	5	84%	62% - 137%	84%	< 1%	24%
Toluene	5	89%	59% - 139%	89%	< 1%	21%
Chlorobenzene	5	91%	60% - 133%	93%	2%	21%



Moisture Content Report

Client:

Environmental Management Resources

Project Name:

Benenson/Bellevue

Project Number:

1153

Laboratory Batch # Units:

01497

% Moisture

Date Sampled:

July 26, 1994 Date Received:

July 26, 1994

Date Analyzed: Sample Matrix: July 27, 1994

Soil

Client Sample ID

Sample Result

Notes

Reporting Limit

STP-8

3%

1%

Pacific Northern Analytical

Chain of Custody/Analysis Request Form Laboratory Batch Number: 0.1197

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-1 STP - 8 7/26/94 4:00 Soic						XT /:	etals / / Pest	otal or	Extend)Ea 1	ID/DE	3.1/DE	W GW	/8270	ganics	Herb	/8310	PCB	25/827	matic	loy be	οĘ					Phone Number:
-1 STP - 8 7/26/94 4:00 Sold				ļ	ļ	ŏ	VOA M	s: (To	랖	H-D/(꿒	H-41	Ŧ	s 625	o O	natec	s 610	ides	ols 6%	le Arc	enate	Jpe I		20	9-788	720C) 8C	ax Number:
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July 27, 1994

David Welch
Environmental Management Resources
2509 152nd Avenue N.E.
Suite B
Redmond, WA 98052-5551

Dear David:

Enclosed are the analytical results of samples submitted on July 25, 1994 from project Benenson/Bellevue, 1153.

If you have any questions regarding this report or if you need any other assistance, please do not hesitate to call me.

Sincerely,

Cynthia Rezania Project Chemist

CLR/lh



EPA 8240 Volatile Organic Compounds

Client:	Environmental Man	agement Resources	Date Sampled:	July 25, 1994
Project Name:	Benenson/Bellevue		Date Received:	July 25, 1994
Project Number:	1153		Date Extracted:	July 25, 1994
Client Sample ID:	B-7B		Date Analyzed:	July 25, 1994
Laboratory Batch #	01489		Sample Matrix:	Soil
Units:	mg/kg		Dilution Factor:	1
Analyte		Sample Result	Notes	Reporting Limit
· ·				
Acetone		N.D.		2
Acrolein		N.D.		2
Acrylonitrile		N.D.		2
Benzene		N.D.	•	0.2
Bromobenzene		N.D.		0.2
Bromochloromethane		N.D.		0.4
Bromodichloromethan	ne	N.D.		0.2
Bromoform		N.D.		0.4
Bromomethane		N.D.		0.4
n-Butylbenzene		N.D.		0.2
sec-Butylbenzene		N.D.	•	0.2
tert-Butylbenzene		N.D.		0.2 .
Carbon Disulfide		N.D.		1
Carbon tetrachloride		N.D.		0.2
Chlorobenzene		N.D.		0.2
Chloroethane		N.D.		0.2
2-Chloroethyl vinyl et	ther	N.D.		1
Chloroform		N.D.		0.2
Chloromethane		N.D.		0.2
2-Chlorotoluene		N.D.		0.2
4-Chlorotoluene		N.D.		0.2
Dibromochloromethan	ne	N.D.		0.4
1,2-Dibromo-3-chloro	propane	N.D.		0.5
1,2-Dibromoethane		N.D.		0.4
Dibromomethane		N.D.	•	0.4
1,2-Dichlorobenzene		N.D.		0.2
1,3-Dichlorobenzene		N.D.		0.2
1,4-Dichlorobenzene	•	N.D.		0.2
Dichlorodifluorometh	ane	N.D.		0.4
1,1-Dichloroethane		N,D.		0.2
1,2-Dichloroethane		N.D.		0.2
1,1-Dichloroethene		N.D.		0.2
cis-1,2-Dichloroethen		N.D.		0.2
trans-1,2-Dichloroeth	ene	N.D.		0.2
1,2-Dichloropropane		N.D.		0.2
1,3-Dichloropropane		N.D.		0.4
N7 4				

Notes



EPA 8240 Volatile Organic Compounds, continued

Project Number: Client Sample ID: Laboratory Batch #	Benenson/Bellevue 1153 B-7B	Date Received: Date Extracted:	July 25, 1994
Client Sample ID: Laboratory Batch #		Date Extracted:	
Laboratory Batch #	B-7B		July 25, 1994
•		Date Analyzed:	July 25, 1994
Units:	01489	Sample Matrix:	Soil
	mg/kg	Dilution Factor:	<u>1</u>
Analyte	Sample Result	Notes	Reporting Limit
2,2-Dichloropropane	N.D.		0.4
l, I-Dichloropropene	N.D.		0.2
cis-1,3-Dichloropropend	N.D.		0.2
rans-1,3-Dichloroprope	ene N.D.		0.2
Ethylbenzene	N.D.		0.2
lexachlorobutadiene	N.D.		0.2
2-Hexanone	N.D.		2
sopropylbenzene	, N.D.		0.2
o-Isopropyltoluene	N.D.		0.2
MEK	N.D.		2
Methylene chloride	N.D.		0.4
MIBK	N.D.		2
Naphthalene	N.D.		0.2
n-Propylbenzene	N.D.		0.2
Styrene	N.D.		0.2
1,1,1,2-Tetrachloroetha	ne N.D.		0.2
1,2,2-Tetrachloroetha	ne N.D.		0.4
Tetrachioroethene	0.36		0.2
Toluene .	N.D.		0.4
1,2,3-Trichlorobenzene	N.D.		0.4
,2,4-Trichlorobenzene	N.D.		0.4
1,1,1-Trichloroethane	N.D.		0.2
1,1,2-Trichloroethane	N.D.		0.4
Trichloroethene	N.D.		0.2
Frichlorofluoromethane			0.2
,2,3-Trichloropropane	N.D.		0.4
,2,4-Trimethylbenzene	N.D.		0.2
,3,5-Trimethlybenzene			0.2
Vinyl Acetate	N.D.		1
Vinyl chloride	N.D.		1
n,p,-Xylene	N.D.	,	0.4
-Xylene	N.D.		0.2
Surrogate Recoveries	Recovery	Notes	Acceptance Range
Foluene-d8	100%		81%-117%
-Bromofluorobenzene	98%		74%-121%
Dibromofluoromethane	100%		80%-120%



EPA 8240 Volatile Organic Compounds

Client:	Environmental Management Resources	Date Sampled:	July 25, 1994
Project Name:	Benenson/Bellevue	Date Received:	July 25, 1994
Project Number:	1153	Date Extracted:	July 26, 1994
Client Sample ID:	B-7E	Date Analyzed:	July 26, 1994
Laboratory Batch #	01489	Sample Matrix:	Soil
Units:	mg/kg	Dilution Factor:	1
Analyte	Sample Result	Notes	Reporting Limit
· -			
Acetone	N.D.		2
Acrolein	N.D.		2
Acrylonitrile	N.D.		2
Benzene	N.D.		0.2
Bromobenzene	N.D.		0.2
Bromochloromethane	e N.D.		0.4
Bromodichlorometha	ine N.D.		0.2
Bromoform	N.D.		0.4
D41	NTD .		0.4

Bromoform	N.D.	0.4
Bromomethane	N.D.	0.4
n-Butylbenzene	N.D.	0.2
sec-Butylbenzene	N.D.	0.2
tert-Butylbenzene	N.D.	0.2
Carbon Disulfide	N.D.	1 .
Carbon tetrachloride	N.D.	0.2
Chlorobenzene	N.D.	0.2
Chloroethane	N.D.	0.2
2-Chloroethyl vinyl ether	N.D.	1
Chloroform	N.D.	0.2
Chloromethane	N.D.	0.2
2-Chlorotoluene	N.D.	0.2
4-Chlorotoluene	N.D.	0.2
Dibromochloromethane	N.D.	0.4
1,2-Dibromo-3-chloropropane	N.D.	0.5
1,2-Dibromoethane	N.D.	0.4
Dibromomethane	N.D.	0.4
1,2-Dichlorobenzene	N.D.	0.2
1,3-Dichlorobenzene	N.D.	0.2
1,4-Dichlorobenzene	N.D.	0.2
Dichlorodifluoromethane	N.D.	0.4
1,1-Dichloroethane	N.D.	0.2
1,2-Dichloroethane	N.D.	0.2
1,1-Dichloroethene	N.D.	0.2
cis-1,2-Dichloroethene	N.D.	0.2
trans-1,2-Dichloroethene	N.D.	0.2
1,2-Dichloropropane	N.D.	0.2
1,3-Dichloropropane	N.D.	0.4



EPA 8240 Volatile Organic Compounds, continued

Client:	Environmental Manag	ement Resources	Date Sampled:	July 25, 1994
Project Name:	Benenson/Bellevue	•	Date Received:	July 25, 1994
Project Number:	1153		Date Extracted:	July 26, 1994
Client Sample ID:	B-7E	•	Date Analyzed:	July 26, 1994
Laboratory Batch #	01489		Sample Matrix:	Soil
Units:	mg/kg		Dilution Factor:	1
Analyte		Sample Result	Notes	Reporting Limit
2,2-Dichloropropane	·	N.D.	· ·	0.4
1,1-Dichloropropene		N.D.		0.2
cis-1,3-Dichloroproper	ne	N.D.		0.2
trans-1,3-Dichloroproj	pene	N.D.		0.2
Ethylbenzene		N.D.		0.2
Hexachlorobutadiene		N.D.		0.2
2-Hexanone		N.D.		2
Isopropylbenzene		N.D.		0.2
p-Isopropyltoluene		N.D.		0.2
MEK		N.D.		2
Methylene chloride		N.D.		0.4
MIBK		N,D.		2
Naphthalene		N.D.		0.2
n-Propylbenzene		N.D.		0.2
Styrene		N.D.		0.2
1,1,1,2-Tetrachloroeth	ane	N.D.		0.2
1,1,2,2-Tetrachloroeth	ane	N.D.		0.4
Tetrachloroethene		N.D.		0.2
Toluene		N.D.		0.4
1,2,3-Trichlorobenzen	e	N.D.		0.4
1,2,4-Trichlorobenzen	e	N.D.		0.4
1,1,1-Trichloroethane		N.D.		0.2
1,1,2-Trichloroethane		N.D.		0.4
Trichloroethene		N.D.		0.2
Trichlorofluoromethar	ne	N.D.		0.2
1,2,3-Trichloropropan	e	N.D.		0.4
1,2,4-Trimethylbenzer	ne	N.D.		0.2
1,3,5-Trimethlybenzer	ne	N.D.		0.2
Vinyl Acetate		N.D.		1
Vinyl chloride		N.D.		1
m,p,-Xylene		N.D.	•	0.4
o-Xylene		N.D.		0.2
Surrogate Recoveries		Recovery	Notes	Acceptance Range
Toluene-d8		100%		81%-117%
4-Bromofluorobenzene	2	100%		74%-121%
Dibromofluoromethan		99%		80%-120%
Notes				



EPA 8240 Volatile Organic Compounds

Environmental Management Resources	Date Sampled:	July 25, 1994
Benenson/Bellevue		July 25, 1994
1153		July 25, 1994
B-8D		July 25, 1994
		Soil
	-	1
		Reporting Limit
N.D.		2
N.D.		2
N.D.		2
N.D.		0.2
N.D.		0.2
N.D.		0.4
e N.D.		0.2
N.D.		0.4
N.D.		0.4
N.D.		0.2
		0.2
		0.2
		1
		0.2
		0.2
		0.2
	•	1
		0.2
		0.2
		0.2
		0.2
		0.4
		0.5
-		0.4
		0.4
		0.2
		0.2
		0.2
		0.4
		0.2
		0.2
		0.2
		0.2
	,	0.2
		0.2
14.10.		U.Z
	Benenson/Bellevue 1153	Benenson/Bellevue Date Received:



EPA 8240 Volatile Organic Compounds, continued

Project Name: Project Number: Client Sample ID: Laboratory Batch # Units: Analyte	Environmental Managem Benenson/Bellevue 1153 B-8D		Date Sampled: Date Received:	July 25, 1994 July 25, 1994
Project Number: Client Sample ID: Laboratory Batch # Units:				
Client Sample ID: Laboratory Batch # Units:	B-8D		Date Extracted:	July 25, 1994
Laboratory Batch # (Units: In Analyte			Date Analyzed:	July 25, 1994
Units:	01489		Sample Matrix:	Soil
	mg/kg		Dilution Factor:	1
2.0 D:-1-1		Sample Result	Notes	Reporting Limit
2,2-Dichloropropane		N.D.		0.4
1,1-Dichloropropene		N.D.		0.2
cis-1,3-Dichloropropene	:	N.D.		0.2
trans-1,3-Dichloroprope		N.D.		0.2
Ethylbenzene		N.D.		0.2
Hexachlorobutadiene		N.D.		0.2
2-Hexanone		N.D.		2
Isopropylbenzene		N.D.		0.2
o-Isopropyltoluene		N.D.		0.2
MEK	•	N.D.		2
Methylene chloride		N.D.		0.4
MIBK		N.D.		2
Naphthalene		N.D.		0.2
n-Propylbenzene		N.D.		0.2
Styrene		N.D.		0.2
,1,1,2-Tetrachloroethan	ne	N.D.		0.2
,1,2,2-Tetrachloroethan		N.D.		0.4
Tetrachloroethene		0.43		0.2
Coluene		N.D.		0.4
1,2,3-Trichlorobenzene		N.D.		0.4
1,2,4-Trichlorobenzene		N.D.		0.4
1,1,1-Trichloroethane		N.D.		0.2
1,1,2-Trichloroethane		N.D.		0.4
Crichloroethene		N.D.		0.2
Crichlorofluoromethane		N.D.		0.2
1,2,3-Trichloropropane		N.D.		0.4
1,2,4-Trimethylbenzene		N.D.		0.2
1,3,5-Trimethlybenzene		N.D.		0.2
Vinyl Acetate		N.D.		1
Vinyl Accuact Vinyl chloride		N.D.		1
m,p,-Xylene		N.D.		0.4
o-Xylene		N.D.		0.2
-Aylelle		14.17.		U.2
Surrogate Recoveries		Recovery	Notes	Acceptance Range
Foluene-d8		99%		81%-117%
I-Bromofluorobenzene		98%		74%-121%
Dibromofluoromethane		98%		80%-120%
Notes				



EPA 8240 Volatile Organic Compounds

•		•		
Client:	Environmental Manageme	ent Resources	Date Sampled:	July 25, 1994
Project Name:	Benenson/Bellevue		Date Received:	July 25, 1994
Project Number:	1153		Date Extracted:	July 26, 1994
Client Sample ID:	B-8F		Date Analyzed:	July 26, 1994
Laboratory Batch #	01489		Sample Matrix:	Soil
Units:	mg/kg		Dilution Factor:	1
Analyte	Sar	nple Result	Notes	Reporting Limit

Olitis: Mg/Kg		Diffution 1 actor.	<u> </u>
Analyte	Sample Result	Notes	Reporting Limit
Acetone	N.D.		2
Acrolein	N.D.		2
Acrylonitrile	N.D.		2
Benzene	N.D.		0.2
Bromobenzene	N.D.		0.2
Bromochloromethane	N.D.		0.4
Bromodichloromethane	N.D.		0.2
Bromoform	N.D.		0.4
Bromomethane	N.D.		0.4
n-Butylbenzene	N.D.		0.2
sec-Butylbenzene	N.D.		0.2
tert-Butylbenzene	N.D.		0.2
Carbon Disulfide	N.D.		1
Carbon tetrachloride	N.D.		0.2
Chlorobenzene	N.D.		0.2
Chloroethane	N.D.		0.2
2-Chloroethyl vinyl ether	N.D.		1
Chloroform	N.D.		0.2
Chloromethane	N.D.		0.2
2-Chlorotoluene	N.D.	,	0.2
4-Chlorotoluene	N.D.		0.2
Dibromochloromethane	N.D.		0.4
1,2-Dibromo-3-chloropropane	N.D.		0.5
1,2-Dibromoethane	N.D.		0.4
Dibromomethane	N.D.		0.4
1,2-Dichlorobenzene	N.D.		0.2
1,3-Dichlorobenzene	N.D.		0.2
1,4-Dichlorobenzene	N.D.		0.2
Dichlorodifluoromethane	N.D.		0,4
1,1-Dichloroethane	N.D.		0.2
1,2-Dichloroethane	N.D.		0.2
1,1-Dichloroethene	N.D.		0.2
cis-1,2-Dichloroethene	N.D.		0.2
trans-1,2-Dichloroethene	N.D.		0.2
1,2-Dichloropropane	N.D.		0.2
1,3-Dichloropropane	N.D.		0.4

Notes



EPA 8240 Volatile Organic Compounds, continued

Client:	Environmental Management	Resources	Date Sampled:	July 25, 1994
Project Name:	Benenson/Bellevue		Date Received:	July 25, 1994
Project Number:	1153		Date Extracted:	July 26, 1994
Client Sample ID:	B-8F		Date Analyzed:	July 26, 1994
Laboratory Batch #	01489		Sample Matrix:	Soil
Units:	mg/kg		Dilution Factor:	1
Analyte		ple Result	Notes	Reporting Limit
2,2-Dichloropropane		N.D.		0.4
1,1-Dichloropropene		N.D.		0.2
cis-1,3-Dichloroproper	ne	N.D.		0.2
trans-1,3-Dichloropror		N.D.		0.2
Ethylbenzene		N.D.		0.2
Hexachlorobutadiene		N.D.		0.2
2-Hexanone		N.D.		2
Isopropylbenzene		N.D.		0.2
p-Isopropyitoluene		N.D.		0.2
MEK		N.D.		2
Methylene chloride		N.D.		0.4
MIBK	•	N.D.		2
Naphthalene		N.D.		0.2
n-Propylbenzene		N.D.		0.2
Styrene		N.D.		0.2
1,1,1,2-Tetrachloroetha	ane	N.D.		0.2
1,1,2,2-Tetrachloroetha	ane	N.D.		0.4
Tetrachloroethene		N.D.		0.2
Toluene		N.D.		0.4
1,2,3-Trichlorobenzene		N.D.		0.4
1,2,4-Trichlorobenzene		N.D.		0.4
1,1,1-Trichloroethane		N.D.		0.2
1,1,2-Trichloroethane		N.D.		0.4
Trichloroethene		N.D.		0.2
Trichlorofluoromethan	e	N.D.		0.2
1,2,3-Trichloropropane		N.D.		0.4
1,2,4-Trimethylbenzen	e	N.D.		0.2
1,3,5-Trimethlybenzen	e	N.D.		0.2
Vinyl Acetate		N.D.		1
Vinyl chloride		N.D.		1
m,p,-Xylene		N.D.		0.4
o-Xylene		N.D.		0.2
Surrogate Recoveries	R	ecovery	Notes	Acceptance Range
Toluene-d8		102%		81%-117%
4-Bromofluorobenzene		100%		74%-121%
Dibromofluoromethane		100%		80%-120%
Notes				



EPA 8240 Volatile Organic Compounds

Client:	Environmental Management Resources	Date Sampled:	July 25, 1994
Project Name:	Benenson/Bellevue	Date Received:	July 25, 1994
Project Number:	1153	Date Extracted:	July 25, 1994
Client Sample ID:	STP-7	Date Analyzed:	July 25-26, 1994

Laboratory Batch # 01489 Sample Matrix: Soil
Units: mg/kg Dilution Factor: 1

Units: mg/kg		Ditution Factor.	1
Analyte	Sample Result	Notes	Reporting Limit
Acetone	N.D.		2
Acrolein	N.D.		2
Acrylonitrile	N.D.		2
Benzene	N.D.		0.2
Bromobenzene	N.D.		0.2
Bromochloromethane	N.D.		0.4
Bromodichloromethane	N.D.		0.2
Bromoform	N.D.		0.4
Bromomethane	N.D.		0,4
n-Butylbenzene	N.D.		0,2
sec-Butylbenzene	N.D.		0.2
tert-Butylbenzene	N.D.		0.2
Carbon Disulfide	N.D.		1
Carbon tetrachloride	N.D.		0.2
Chlorobenzene	N.D.		0.2
Chloroethane	N.D.		0.2
2-Chloroethyl vinyl ether	N.D.		1
Chloroform	N.D.		0.2
Chloromethane	N.D.		0.2
2-Chlorotoluene	N.D.		0.2
4-Chlorotoluene	N.D.		0.2
Dibromochloromethane	N.D.		0.4
1,2-Dibromo-3-chloropropane	N.D.		0.5
1,2-Dibromoethane	N.D.		0.4
Dibromomethane	N.D.		0.4
1,2-Dichlorobenzene	N.D.		0.2
1,3-Dichlorobenzene	N.D.		0.2
1,4-Dichlorobenzene	N.D.		0.2
Dichlorodifluoromethane	N.D.		0.4
1,1-Dichloroethane	N.D.		0.2
1,2-Dichloroethane	N.D.		0.2
1,1-Dichloroethene	N.D.		0.2
cis-1,2-Dichloroethene	N.D.		0.2
trans-1,2-Dichloroethene	N.D.		0.2
1,2-Dichloropropane	N.D.		0.2
1,3-Dichloropropane	N.D.		0.4

Notes



EPA 8240 Volatile Organic Compounds, continued

Analyte	San	inle Result	Notes	Reporting Limit
Units:	mg/kg		Dilution Factor:	1
Laboratory Batch #	01489		Sample Matrix:	Soil
Client Sample ID:	STP-7		Date Analyzed:	July 25-26, 1994
Project Number:	1153		Date Extracted:	July 25, 1994
Project Name:	Benenson/Bellevue		Date Received:	July 25, 1994
Client:	Environmental Management	Resources	Date Sampled:	July 25, 1994

Analyte	Sample Result	Notes	Reporting Limit
2,2-Dichloropropane	N.D.		0.4
,1-Dichloropropene	N.D.		0.2
cis-1,3-Dichloropropene	N.D.		0.2
trans-1,3-Dichloropropene	N.D.		0.2
Ethylbenzene	N.D.		0.2
Hexachlorobutadiene	N.D.		0.2
2-Hexanone	N.D.		2
sopropylbenzene	N.D.		0.2
o-Isopropyltoluene	N.D.		0.2
MEK	N.D.		2
Methylene chloride	N.D.		0.4
MIBK	N.D.		2
Naphthalene	N.D.		0.2
n-Propylbenzene	N.D.		0.2
Styrene	N.D.		0.2
1,1,1,2-Tetrachloroethane	N.D.		0.2
1,1,2,2-Tetrachloroethane	N.D.		0.4
Tetrachloroethene	0.60		0.2
Foluene	N.D.		0.4
1,2,3-Trichlorobenzene	N.D.		0.4
1,2,4-Trichlorobenzene	N.D.		0.4
1,1,1-Trichloroethane	N.D.		0.2
1,1,2-Trichloroethane	N.D.		0.4
richloroethene	N.D.		0.2
Crichlorofluoromethane	N.D.		0.2
1,2,3-Trichloropropane	N.D.		0.4
1,2,4-Trimethylbenzene	N.D.		0.2
1,3,5-Trimethlybenzene	N.D.		0.2
Vinyl Acetate	N.D.		1
Vinyl chloride	N.D.		1
m,p,-Xylene	N.D.		0.4
o-Xylene	N.D.		0.2

Surrogate Recoveries	Recovery	Notes	Acceptance Range
Toluene-d8	100%		81%-117%
4-Bromofluorobenzene	100%		74%-121%
Dibromofluoromethane	102%		80%-120%



Client:

Environmental Management Resources

Project Name:

Benenson/Bellevue

Date Extracted:

July 25, 1994

Project Number:

1153

Date Analyzed: Dilution Factor:

July 25, 1994

Laboratory Batch #

01489

Diluuon.

1 ma/ka

Sample ID: Method Blank	•	Units:	mg/kg
Analyte	Sample Result	Notes	Reporting Limit
			<u> </u>
Acetone	N.D.		2
Acrolein	N.D.		2
Acrylonitrile	N.D.		2
Benzene	N.D.		0.2
Bromobenzene	N.D.		0.2
Bromochloromethane	N.D.		0.4
Bromodichloromethane	N.D.		0.2
Bromoform	N.D.	-	0.4
Bromomethane	N.D.		0.4
n-Butylbenzene	N.D.		0.2
sec-Butylbenzene	N.D.		0.2
tert-Butylbenzene	N.D.		0.2
Carbon Disulfide	N.D.		1
Carbon tetrachloride	N.D.		0.2
Chlorobenzene	N.D.		0.2
Chloroethane	N.D.		0.2
2-Chloroethyl vinyl ether	N.D.		1
Chloroform	N.D.		0.2
Chloromethane	N.D.		0.2
2-Chlorotoluene	N.D.		0.2
4-Chlorotoluene	N.D.		0.2
Dibromochloromethane	N.D.		0.4
1,2-Dibromo-3-chloropropane	N.D.		0.5
1,2-Dibromoethane	N.D.		0.4
Dibromomethane	N.D.		0.4
1,2-Dichlorobenzene	N.D.		0.2
1,3-Dichlorobenzene	N.D.		0.2
1,4-Dichlorobenzene	N.D.		0.2
Dichlorodifluoromethane	N.D.		0.4
1,1-Dichloroethane	N.D.		0.2
1,2-Dichloroethane	N.D.		0.2
1,1-Dichloroethene	N.D.		0.2
cis-1,2-Dichloroethene	. N.D.	<u>.</u> .	0.2
trans-1,2-Dichloroethene	N.D.		0.2
1,2-Dichloropropane	N.D.		0.2
1,3-Dichloropropane	N.D.		0.4

Notes



Client:	Environmental Management Resources		
Project Name:	Benenson/Bellevue	Date Extracted:	July 25, 1994
Project Number:	1153	Date Analyzed:	July 25, 1994
Laboratory Batch #	01489	Dilution Factor:	1
Sample ID:	Method Blank	Units:	mg/kg
Analyte	Sample Result	Notes	Reporting Limit
2,2-Dichloropropane	N.D.		0.4
1,1-Dichloropropene	N.D.		0.2
cis-1,3-Dichloropropene	N.D.		0.2
trans-1,3-Dichloropropene	N.D.		0.2
Ethylbenzene	N.D.		0.2
Hexachlorobutadiene	N.D.		0.2
2-Hexanone	N.D.		2
Isopropylbenzene	N.D.		0.2
p-Isopropyltoluene	N.D.		.0.2
MEK	N.D.	•	2
Methylene chloride	N.D.		0.4
MIBK	N.D.		2
Naphthalene	N.D.		0,2
n-Propylbenzene	N.D.		0.2
Styrene	N.D.		0.2
1,1,1,2-Tetrachloroethane	N.D.		0.2
1,1,2,2-Tetrachloroethane	N.D.		0.4
Tetrachloroethene	N.D.		0.2
Toluene	N.D.		0.4
1,2,3-Trichlorobenzene	N.D.		0.4
1,2,4-Trichlorobenzene	N.D.		0.4
1,1,1-Trichloroethane	N.D.		0.2
1,1,2-Trichloroethane	N.D.		0.4
Trichloroethene	N.D.		0.2
Frichlorofluoromethane	N.D.		0.2
1,2,3-Trichloropropane	N.D.		0.4
1,2,4-Trimethylbenzene	N.D.		0.2
1,3,5-Trimethlybenzene	N.D.		0.2
Vinyl Acetate	N.D.		1
Vinyl chloride	N.D.		1
n,p,-Xylene	N.D.		0.4
-Xylene	N.D.		0.2
Surrogate Recoveries	Recovery	Notes	Acceptance Range
Toluene-d8	101%		81% - 117%
-Bromofluorobenzene	98%	•	74% - 121%
Dibromofluoromethane •	102%		80% - 120%

Notes



Client:

Environmental Management Resources

Project Name: Project Number:

Laboratory Batch #

Benenson/Bellevue

1153 01489 Date Extracted: Date Analyzed: July 25, 1994

Dilution Factor:

July 25, 1994

1

Batch Sample ID: 01489QA				Units:	mg/kg
	Reporting	Sample	Duplicate		Acceptance
Analyte	Limit	Result	Result	RPD	Limit
	_				
Acetone	2	N.D.	N.D.		30%
Acrolein	2	N.D.	N.D.		30%
Acrylonitrile	2	N.D.	N.D.		30%
Benzene	0.2	N.D.	N.D.		30%
Bromobenzene	0.2	N.D.	N.D.		30%
Bromochloromethane	0.4	N.D.	N.D.		30%
Bromodichloromethane	0.2	N.D.	N.D.		30%
Bromoform	0.4	N.D.	N.D.	•	30%
Bromomethane	0.4	N.D.	N.D.		30%
n-Butylbenzene	0.2	N.D.	N.D.		30%
sec-Butylbenzene	0.2	N.D.	N.D.		30%
ert-Butylbenzene	0.2	N.D.	N.D.		30%
Carbon Disulfide	1	N.D.	N.D.		30%
Carbon tetrachloride	0.2	N.D.	N.D.		30%
Chilorobenzene	0.2	N.D.	N.D.	••	30%
Chiloroethane	0.2	N.D.	N.D.		30%
2-Chloroethyl vinyl ether	1	N.D.	N.D.	==	30%
Chloroform	0.2	N.D.	N.D.		30%
Chloromethane	0.2	N.D.	N.D.		30%
2-Chlorotoluene	0.2	N.D.	N.D.		30%
I-Chlorotoluene	0.2	N.D.	N.D.		30%
Dibromochloromethane	0.4	N.D.	N.D.		30%
1,2-Dibromo-3-chloropropane	0.5	N.D.	N.D.		30%
,2-Dibromoethane	0.4	N.D.	N.D.		30%
Dibromomethane	0.4	N.D.	N.D.		30%
1,2-Dichlorobenzene	0.2	N.D.	N.D.		30%
1,3-Dichlorobenzene	0.2	N.D.	N.D.		30%
,4-Dichlorobenzene	0.2	N.D.	N.D.	-	30%
Dichlorodifluoromethane	0.4	N.D.	N.D.		30%
, I-Dichloroethane	0.2	N.D.	N.D.		30%
,2-Dichloroethane	0.2	N.D.	N.D.	-	30%
,1-Dichloroethene	0.2	N.D.	N.D.		30%
ris-1,2-Dichloroethene	0.2	N.D.	N.D.		30%
rans-1,2-Dichloroethene	0.2	N.D.	N.D.		30%
,2-Dichloropropane	0.2	N.D. N.D.	N.D. N.D.		30%
,3-Dichloropropane	0.2	N.D. N.D.	N.D. N.D.		30%
Notes	0.4	N.D.	IN.D.		3070



Client:

Environmental Management Resources

Project Name:

Benenson/Bellevue

Project Number:

1153

Date Extracted:
Date Analyzed:

July 25, 1994 July 25, 1994

Laboratory Batch #
Ratch Sample ID:

01489 014890A Dilution Factor:

Ilnite.

mg/kg

1

Batch Sample ID: 01489QA	4		U	nits:	mg/kg
* * * * * * * * * * * * * * * * * * * *	Reporting	Sample	Duplicate		Acceptance
Analyte	Limit	Result	Result	RPD	Limit
2,2-Dichloropropane	0.4	N.D.	N.D.		30%
1,1-Dichloropropene	0.2	N.D.	N.D.		30%
cis-1,3-Dichloropropene	0.2	N.D.	N.D.	_	30%
trans-1,3-Dichloropropene	0.2	N.D.	N.D.		30%
Ethylbenzene	0.2	N.D.	N.D.		30%
Hexachlorobutadiene	0.2	N.D.	N.D.		30%
2-Hexanone	2	N.D.	N.D.		30%
Isopropylbenzene	0.2	N.D.	N.D.		30%
p-Isopropyltoluene	0.2	N.D.	N.D.		30%
MEK	2	N.D.	N.D.		30%
Methylene chloride	0.4	N.D.	N.D.		30%
MIBK	2	N.D.	N.D.		30%
Naphthalene	0.2	N.D.	N.D.		30%
n-Propylbenzene	0.2	N.D.	N.D.		30%
Styrene	0.2	N.D.	N.D.		30%
1,1,1,2-Tetrachloroethane	0.2	N.D.	N.D.	-	30%
1,1,2,2-Tetrachloroethane	0.4	N.D.	N.D.		30%
Tetrachloroethene	0.2	0.43	0.49	13%	30%
Toluene	0.4	N.D.	N.D.		30%
1,2,3-Trichlorobenzene	0.4	N.D.	N.D.		30%
1,2,4-Trichlorobenzene	0.4	N.D.	N.D.		30%
1,1,1-Trichloroethane	0.2	N.D.	N.D.		30%
1,1,2-Trichloroethane	0.4	N.D.	N.D.		30%
Trichloroethene	0.2	N.D.	N.D.		30%
Trichlorofluoromethane	0.2	N.D.	N.D.		30%
1,2,3-Trichloropropane	0.4	N.D.	N.D.		30%
1,2,4-Trimethylbenzene	0.2	N.D.	N.D.		30%
1,3,5-Trimethlybenzene	0.2	N.D.	N.D.		30%
Vinyl Acetate	1	N.D.	N.D.		30%
Vinyl chloride	1	N.D.	N.D.	_	30%
m,p,-Xylene	0.4	N.D.	. N.D.		30%
o-Xylene	0.2	N.D.	N.D.		30%

Notes



Client:

Environmental Management Resources

Project Name:

Benenson/Bellevue

Date Extracted:

July 25, 1994

Project Number:

1153

Date Analyzed:

July 25, 1994

Laboratory Batch #

01489

Dilution Factor:

1

Batch Sample ID:	01489QA				Units:	mg/kg
Analyte	Spike Added	Spike Recovery	Acceptance Range	Spike Dup Recovery	RPD	Acceptance Limit
1,1-Dichloroethene	5	66%	59% - 172%	64%	3%	22%
Benzene	5	83%	66% - 142%	84%	1%	21%
Trichloroethene	5	82%	62% - 137%	82%	< 1%	24%
Toluene	5	86%	59% - 139%	87%	1%	21%
Chlorobenzene	5	89%	60% - 133%	90%	1%	21%



Client:

Environmental Management Resources

Project Name:

Benenson/Bellevue

Project Number:

1153

Date Extracted:
Date Analyzed:

July 26, 1994 July 26, 1994

Laboratory Batch #

01489

Dilution Factor:

1

Sample ID:

Method Blank

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Sample ID: Method Blank		Units:	mg/kg
Analyte	Sample Résult	Notes	Reporting Limit
Acetone	N.D.		2
Acrolein	N.D.		2
Acrylonitrile	N.D.		2
Benzene	N.D.		0.2
Bromobenzene	N.D.		0.2
Bromochloromethane	N.D.		0.4
Bromodichloromethane	N.D.		0.2
Bromoform	N.D.		0.4
Bromomethane	N.D.		0.4
n-Butylbenzene	N.D.		0.2
sec-Butylbenzene	N.D.		0.2
tert-Butylbenzene	N.D.		0.2
Carbon Disulfide	N.D.		1
Carbon tetrachloride	N.D.		0.2
Chlorobenzene	N.D.		0.2
Chloroethane	N,D,		0.2
2-Chloroethyl vinyl ether	N.D.		I I
Chloroform	N.D.		0,2
Chloromethane	N.D.		0,2
2-Chlorotoluene	N.D.		0.2
4-Chlorotoluene	N.D.		0,2
Dibromochloromethane	N.D.		0.4
1,2-Dibromo-3-chloropropane	N.D.		0.5
1,2-Dibromoethane	N.D.		0.4
Dibromomethane	N.D.		0.4
1,2-Dichlorobenzene	N.D.		0.2
1,3-Dichlorobenzene	N.D.		0.2
1,4-Dichlorobenzene	N.D.		0.2
Dichlorodifluoromethane	N.D.		0.4
1,1-Dichloroethane	N.D.		0.2
1,2-Dichloroethane	N.D.		0.2
I,1-Dichloroethene	N.D.		0.2
cis-1,2-Dichloroethene	N.D.		0.2
trans-1,2-Dichloroethene	N.D.		0.2
1,2-Dichloropropane	N.D.		0.2
1,3-Dichloropropane	N.D.		0.4

Notes



Client: **Environmental Management Resources** July 26, 1994 Benenson/Bellevue Date Extracted: Project Name: Date Analyzed: July 26, 1994 Project Number: 1153 01489 Dilution Factor: Laboratory Batch # **Method Blank** Units: mg/kg Sample ID: Notes Reporting Limit Sample Result Analyte N.D. 0.4 2,2-Dichloropropane 0.2 N.D. 1,1-Dichloropropene N.D. 0.2 cis-1,3-Dichloropropene 0.2 N.D. trans-1,3-Dichloropropene N.D. 0.2 Ethylbenzene 0.2 N.D. Hexachlorobutadiene N.D. 2 2-Hexanone N.D. 0.2 Isopropylbenzene 0.2 N.D. p-Isopropyltoluene 2 MEK N.D. 0.4 Methylene chloride N.D. 2 **MIBK** N.D. Naphthalene N.D. 0.2 0.2 N.D. n-Propylbenzene 0.2 N.D. Styrene N.D. 0.2 1,1,1,2-Tetrachloroethane 0.4 1.1.2.2-Tetrachloroethane N.D. 0.2 Tetrachloroethene N.D. 0.4 **Toluene** N.D. 0.4 N.D. 1,2,3-Trichlorobenzene 0.4 1,2,4-Trichlorobenzene N.D. N.D. 0.2 1.1.1-Trichloroethane N.D. 0.4 1,1,2-Trichloroethane Trichloroethene N.D. 0.2 0.2 N.D. Trichlorofluoromethane 0.4 1,2,3-Trichloropropane N.D. 0.2 1,2,4-Trimethylbenzene N.D. 0.2 N.D. 1,3,5-Trimethlybenzene 1 N.D. Vinyl Acetate N.D. 1 Vinyl chloride N.D. 0.4 m,p,-Xylene 0.2 N.D. o-Xylene Acceptance Range Surrogate Recoveries Recovery Notes 100% 81% - 117% Toluene-d8 100% 74% - 121% 4-Bromofluorobenzene 80% - 120% 104% Dibromofluoromethane

Notes



Client:

Environmental Management Resources

Project Name:

Laboratory Batch #

Benenson/Bellevue

Project Number:

1153

01489

Date Extracted: Date Analyzed: July 26, 1994

July 26, 1994

1

Dilution Factor:

Batch Sample ID: 01489QA2	·			Units:	mg/kg	
	Reporting	Sample	Duplicate		Acceptance	
Analyte	Limit	Result	Result	RPD	Limit	
A 4	•	MB	MB		200/	
Acetone	2	N.D.	N.D.		30%	
Acrolein	2	N.D.	N.D.		30%	
Acrylonitrile	2	N.D.	N.D.		30%	
Benzene	0.2	N.D.	N.D.		30%	
Bromobenzene	0.2	N.D.	N.D.		30%	
Bromochloromethane	0.4	N.D.	N.D.		30%	
Bromodichloromethane	0.2	N.D.	N.D.		30%	
Bromoform	0.4	N.D.	N.D.	••	30%	
Bromomethane	0.4	N.D.	N.D.	••	30%	
n-Butylbenzene	0.2	N.D.	N.D.	••	30%	
sec-Butylbenzene	0.2	N.D.	N.D.		30%	
ert-Butylbenzene	0.2	N.D.	N.D.		30%	
Carbon Disulfide	1	N.D.	N.D.		30%	
Carbon tetrachloride	0.2	N.D.	N.D.		30%	
Chlorobenzene	0.2	N.D.	N.D.		30%	
Chloroethane	0.2	N.D.	N.D.		30%	
2-Chloroethyl vinyl ether	1	N.D.	N.D.		30%	
Chloroform	0.2	N.D.	N.D.		30%	
Chloromethane	0.2	N.D.	N.D.	••	30%	
2-Chlorotoluene	0.2	N.D.	N.D.		30%	
1-Chlorotoluene	0.2	N.D.	N.D.	-	30%	
Dibromochloromethane	0.4	N.D.	N.D.		30%	
1,2-Dibromo-3-chloropropane	0.5	N.D.	N.D.		30%	
1,2-Dibromoethane	0.4	N.D.	N.D.		30%	
Dibromomethane	0.4	N.D.	N.D.		30%	
1,2-Dichlorobenzene	0.2	N.D.	N.D.		30%	
1,3-Dichlorobenzene	0.2	N.D.	N.D.	-	30%	
1,4-Dichlorobenzene	0.2	N.D.	N.D.		30%	
Dichlorodifluoromethane -	0.4	N.D.	N.D.		30%	
1,1-Dichloroethane	0.2	N.D.	N.D.	- .	30%	
1,2-Dichloroethane	0.2	N.D.	N.D.		30%	
1,1-Dichloroethene	0.2	N.D.	N.D.		30%	
cis-1,2-Dichloroethene	0.2	N.D.	N.D.		30%	
rans-1,2-Dichloroethene	0,2	N.D.	N.D.		30%	
1,2-Dichloropropane	0.2	N.D.	N.D.		30%	
1,3-Dichloropropane	0.4	N.D.	N.D.		30%	
Notes						



Client:

Environmental Management Resources

Project Name:

Benenson/Bellevue

1153

Project Number: Laboratory Batch #

01489

Date Extracted:

July 26, 1994

Date Analyzed: **Dilution Factor:** July 26, 1994 1

Batch Sample ID: 01489C	·			Units:	mg/kg
	Reporting	Sample	Duplicate		Acceptance
Analyte_	Limit	Result	Result	RPD	Limit
2,2-Dichloropropane	0.4	N.D.	N.D.		30%
1,1-Dichloropropene	0.2	N.D.	N.D.		30%
cis-1,3-Dichloropropene	0.2	N.D.	N.D.		30%
trans-1,3-Dichloropropene	0.2	N.D.	N.D.		30%
Ethylbenzene	0.2	N.D.	N.D.		30%
Hexachlorobutadiene	0.2	N.D.	N.D.		30%
2-Hexanone	2	N.D.	N.D.		30%
Isopropylbenzene	0.2	N.D.	N.D.		30%
p-Isopropyltoluene	0.2	N.D.	N.D.	_	30%
MEK	2	N.D.	N.D.	-	30%
Methylene chloride	0.4	N.D.	N.D.		30%
MIBK	2	N.D.	N.D.		30%
Naphthalene	0.2	N.D.	N.D.		30%
n-Propylbenzene	0.2	N.D.	N.D.		30%
Styrene	0.2	N.D.	N.D.		30%
1,1,1,2-Tetrachloroethane	0.2	N.D.	N.D.	_	30%
1,1,2,2-Tetrachloroethane	0.4	N.D.	N.D.		30%
Tetrachloroethene	0.2	0.20	0.23	14%	30%
Toluene	0.4	N.D.	N.D.		30%
1,2,3-Trichlorobenzene	0.4	N.D.	N.D.		30%
1,2,4-Trichlorobenzene	0.4	N.D.	N.D.		30%
1,1,1-Trichloroethane	0.2	N.D.	N.D.		30%
1,1,2-Trichloroethane	0.4	N.D.	N.D.		30%
Frichloroethene	0.2	N.D.	N.D.		30%
Trichlorofluoromethane	0.2	N.D.	N.D.		30%
1,2,3-Trichloropropane	0.4	N.D.	N.D.		30%
1,2,4-Trimethylbenzene	0.2	N.D.	N.D.		30%
1,3,5-Trimethlybenzene	0.2	N.D.	N.D.	-	30%
Vinyl Acetate	1	N.D.	N.D.		30%
Vinyl chloride	1	N.D.	N.D.		30%
m,p,-Xylene	0.4	N.D.	N.D.		30%
o-Xylene	0.2	N.D.	N.D.		30%

Notes



Client:

Environmental Management Resources

Project Name:

Benenson/Bellevue

Project Number:

1153

Date Extracted:

July 26, 1994

Laboratory Batch #

01489

Date Analyzed:

July 26, 1994

Batch Sample ID:

01489OA2

Dilution Factor:

1

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ı	Jm	Ħ	ts:	•

ma/ka

	01105 Q11				Ouits.	mg/kg
	Spike	Spike	Acceptance	Spike Dup		Acceptance
Analyte	Added	Recovery	Range	Recovery	RPD	Limit
1,1-Dichloroethene	5	66%	59% - 172%	67%	2%	22%
Benzene	5	85%	66% - 142%	86%	1%	21%
Trichloroethene	5	84%	62% - 137%	84%	< 1%	24%
Toluene	5	89%	59% - 139%	89%	< 1%	21%
Chlorobenzene	5	91%	60% - 133%	93%	2%	21%



Moisture Content Report

Client:

Environmental Management Resources

Project Name:

Benenson/Bellevue

Project Number: Laboratory Batch # 1153

% Moisture

Units:

01489

Date Sampled:

July 25, 1994

Date Received:

July 25, 1994

Date Analyzed:

July 27, 1994

Sample Matrix:

Soil

Client Sample ID	Sample Result	Notes	Reporting Limit
В-7В	9%		1%
B-8D	8%		1%
STP-7	8%		. 1%
B-8F	10%		1%
B-7E	7%		1%

Pacific Northern Analytical

Chain of Custody/Analysis Request Form Laboratory Batch Number: / 4/8-7

Client: EMR, THE		Report to:	Ď	4-01	D.L	_ (NE	سولا	Pro	ject	Nan	ne:	Be	Jen	JS⊃. LÆV	Pre	Рго	ject N	umber	: /	//	53			
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June 30, 1994

David Welch
Environmental Management Resources
2509 152nd Avenue N.E.
Suite B
Redmond, WA 98052-5551

Dear David:

Enclosed are the analytical results of samples submitted on June 28, 1994 from project Benenson/Bellevue, 1153.

If you have any questions regarding this report or if you need any other assistance, please do not hesitate to call me.

Sincerely,

Cynthia Rezania Project Chemist

CLR/lh



EPA 8240 Volatile Organic Compounds

Client:	Environmental Mar	nagement Resources	Date Sampled:	June 28, 1994
Project Name:	Benenson/Bellevue		Date Received:	June 28, 1994
Project Number:	1153		Date Extracted:	June 29, 1994
Client Sample ID:	B-2E		Date Analyzed:	June 29, 1994
Laboratory Batch #	01399	•	Sample Matrix:	Soil
Units:	mg/kg		Dilution Factor:	1
Analyte		Sample Result	Notes	Reporting Limit
		· · · · ·		
Acetone		N.D.		2
Acrolein		N.D.		2
Acrylonitrile	•	N.D.		2
Benzene		N.D.		0.2
Bromobenzene		N.D.	•	0.2
Bromochloromethane		N.D.		0.4
Bromodichloromethau	ne	N.D.		0.2
Bromoform		N.D.		0.4
Bromomethane		N.D.		0.4
n-Butylbenzene		N.D.		0.2
sec-Butylbenzene		N.D.		0.2
tert-Butylbenzene		N.D.		0.2
Carbon Disulfide		N.D.		1
Carbon tetrachloride		N.D.		0.2
Chlorobenzene	•	N.D.		0.2
Chloroethane		N.D.		0.2
2-Chloroethyl vinyl et	her	N.D.		ī
Chloroform		N.D.		0.2
Chloromethane		N.D.		0.2
2-Chlorotoluene		N.D.		0.2
4-Chlorotoluene		N.D.		0.2
4-Cinorotoluene Dibromochloromethai		N.D. N.D.		0.2
-				•
1,2-Dibromo-3-chloro	propane	N.D.		0.5
1,2-Dibromoethane		N.D.		0.4
Dibromomethane		N.D.		0.4
1,2-Dichlorobenzene		N.D.		0.2
1,3-Dichlorobenzene		N.D.		0.2 0.2
1,4-Dichlorobenzene		N.D.		
Dichlorodifluorometh	anc	N.D.		0.4
1,1-Dichloroethane		N.D.		0.2
1,2-Dichloroethane		N.D.		0.2
1,1-Dichloroethene		N.D.		0.2
cis-1,2-Dichloroethen		N.D.		0.2
trans-1,2-Dichloroeth	ene	N.D.		0.2
1,2-Dichloropropane		N.D.		0.2
1,3-Dichloropropane		N.D.		0.4
1,5 2 loldor op lopalio				



EPA 8240 Volatile Organic Compounds, continued

Client:	Environmental Manag	gement Resources	Date Sampled:	June 28, 1994
Project Name:	Benenson/Bellevue		Date Received:	June 28, 1994
Project Number:	1153		Date Extracted:	June 29, 1994
Client Sample ID:	B-2E		Date Analyzed:	June 29, 1994
Laboratory Batch #	01399		Sample Matrix:	Soil
Units: .	mg/kg		Dilution Factor:	1
Analyte	· ·	Sample Result	Notes	Reporting Limit
2,2-Dichloropropane		N.D.		0.4
1,1-Dichloropropene		N.D.		0.2
cis-1,3-Dichloroproper	ne	N.D.		0.2
rans-1,3-Dichloropro	pene	N.D.		0.2
Ethylbenzene		N.D.		0.2
Hexachlorobutadiene		N.D.	•	0.2
2-Hexanone		N.D.	•	2
Isopropylbenzene		N.D.		0.2
p-Isopropyltoluene		N.D.		0.2
MEK		N.D.		2
Methylene chloride		N.D.		0.4
MIBK		N.D.		2
Naphthalene		N.D.		0.2
n-Propylbenzene	•	N.D.		0.2
Styrene		N.D.		0.2
1,1,2-Tetrachloroeth	ane	N.D.		0.2
1,1,2,2-Tetrachloroeth		N.D.		0.4
Tetrachloroethene		0.51		0.2
l'oluene	,	N.D.		0.4
1,2,3-Trichlorobenzen	е	N.D.		0.4
,2,4-Trichlorobenzen	e ·	N.D.		0.4
1,1,1-Trichloroethane		N.D.		0.2
1,1,2-Trichloroethane		N.D.		0.4
Frichloroethene		N.D.	ı	0.2
Frichlorofluoromethan	e	N.D.		0.2
1,2,3-Trichloropropane	e	N.D.		0.4
1,2,4-Trimethylbenzen	e	N.D.		0.2
1,3,5-Trimethlybenzen	e	N.D.		0.2
Vinyl Acetate		N.D.		-1
Vinyl chloride		N.D.		1
n,p,-Xylene		N.D.		0.4
o-Xylene		N.D.		0.2
Surrogate Recoveries		Recovery	Notes	Acceptance Range
Toluene-d8		103%	·	81%-117%
I-Bromofluorobenzene	:	100%		74%-121%
Dibromofluoromethane	:	103%		80%-120%



EPA 8240 Volatile Organic Compounds

Client:	Environmental Management Resources	Date Sampled:	June 28, 1994
Project Name:	Benenson/Bellevue	Date Received:	June 28, 1994
Project Number:	1153	Date Extracted:	June 29, 1994
Client Sample ID:	B-3C	Date Analyzed:	June 29, 1994
Laboratory Batch #	01399	Sample Matrix:	Soil
Units:	mg/kg	Dilution Factor:	1
Analyte	Sample Result	Notes	Reporting Limit
Acetone	. N.D.		2
Acrolein	N.D.	•	2
Acrylonitrile	N.D.		2
Benzene	N.D.		0.2
Bromobenzene	N.D.		0.2
Bromochloromethane			0.4
Bromodichlorometha			0.2
Bromoform	N.D.		0.4
Bromomethane	N.D.		0.4
n-Butylbenzene	N.D.		0.2
sec-Butylbenzene	N.D.		0.2
ert-Butylbenzene	N.D.		0.2
Carbon Disulfide	N.D.	•	l
Carbon tetrachloride	N.D.	•	0.2
Chlorobenzene	N.D.		0.2
Chloroethane	N.D.		0.2
2-Chloroethyl vinyl e		•	1
Chloroform	N.D.		0.2
Chloromethane	N.D.		0.2
2-Chlorotoluene	N.D.		0.2
4-Chlorotoluene	N.D.		0.2
Dibromochlorometha	ne N.D.		0.4
1,2-Dibromo-3-chlore	opropane N.D.		0.5
1,2-Dibromoethane	N.D.		0.4
Dibromomethane	N.D.		0.4
1,2-Dichlorobenzene	N.D.		0.2
1,3-Dichlorobenzene	N.D.		0.2
1,4-Dichlorobenzene	N.D.		0.2
Dichlorodifluorometh	nane N.D.		0.4
l, l-Dichloroethane	N.D.		0.2
1,2-Dichloroethane	N.D.		0.2
1,1-Dichloroethene	N.D.		0.2
cis-1,2-Dichloroethen			0.2
trans-1,2-Dichloroeth	ene N.D.		0.2
1,2-Dichloropropane	N.D.		0.2
1,3-Dichloropropane	N.D.		0.4



EPA 8240 Volatile Organic Compounds, continued

Client:	Environmental Managemer	t Resources	Date Sampled:	June 28, 1994
Project Name:	Benenson/Bellevue		Date Received:	June 28, 1994
Project Number:	1153		Date Extracted:	June 29, 1994
Client Sample ID:	B-3C		Date Analyzed:	June 29, 1994
Laboratory Batch #	01399		Sample Matrix:	Soil
Units:	mg/kg		Dilution Factor:	1
Analyte	Sa	mple Result	Notes	Reporting Limit
2,2-Dichloropropane		N.D.		0.4
1,1-Dichloropropene		N.D.		0.2
cis-1,3-Dichloroprope	ne	N.D.		0.2
trans-1,3-Dichloropro	pene	N.D.		0.2
Ethylbenzene		N.D.		0.2
Hexachlorobutadiene		N.D.		0.2
2-Hexanone		N.D.		2
Isopropylbenzene		N.D.		0.2
p-Isopropyltoluene		N.D.		0.2
MEK		N.D.		2
Methylene chloride		N.D.		0.4
MIBK		N.D.		2
Naphthalene		N.D.		0.2
n-Propylbenzene		N.D.		0.2
Styrene		N.D.		0.2
1,1,1,2-Tetrachloroeth	ane	N.D.		0.2
1,1,2,2-Tetrachloroeth	ane	N.D.		0.4
Tetrachloroethene		1.2		0.2
Toluene		N.D.		0.4
1,2,3-Trichlorobenzen	e	N.D.		0.4
1,2,4-Trichlorobenzen	e	N.D.		0.4
1,1,1-Trichloroethane		N.D.		0.2
1,1,2-Trichloroethane		N.D.		0.4
Trichloroethene		N.D.		0.2
Trichlorofluoromethan		N.D.		0.2
1,2,3-Trichloropropan	e	N.D.		0.4
1,2,4-Trimethylbenzer		N.D.		0.2
1,3,5-Trimethlybenzen	e	N.D.		0.2
Vinyl Acetate		N.D.	•	1
Vinyl chloride		N.D.		1
m,p,-Xylene		N.D.		0.4
o-Xylene		N.D.		0.2
Surrogate Recoveries	<u>'</u>	Recovery	Notes	Acceptance Range
Toluene-d8		100%		81%-117%
4-Bromofluorobenzene	;	100%		74%-121%
Dibromofluoromethan		102%		80%-120%
Notes				



EPA 8240 Volatile Organic Compounds

Client:	Environmental Management Resources	Date Sampled:	June 28, 1994	
Project Name:	Benenson/Bellevue	Date Received:	June 28, 1994	
Project Number:	1153	Date Extracted:	June 29, 1994	
Client Sample ID:	B-4D	Date Analyzed:	June 29, 1994	
Laboratory Batch #	01399	Sample Matrix:	Soil	
Units:	mg/kg	Dilution Factor:	1	

Analyte	Sample Result	Notes	Reporting Limit
Acetone	N.D.		2
Acrolein	N.D.		2
Acrylonitrile	N.D.		2
Benzene	N.D.		0.2
Bromobenzene	N.D.		0.2
Bromochloromethane	N.D.		0.4
Bromodichloromethane	N.D.		0.2
Bromoform	N.D.		0.4
Bromomethane	N.D.		0.4
n-Butylbenzene	N.D.		0.2
sec-Butylbenzene	N.D.		0.2
tert-Butylbenzene	N.D.	•	0.2
Carbon Disulfide	N.D.		1
Carbon tetrachloride	N.D.		0.2
Chlorobenzene	N.D.		0.2
Chloroethane	N.D.		0.2
2-Chloroethyl vinyl ether	N.D.		1
Chloroform	N.D.		0.2
Chloromethane	N.D.		0.2
2-Chlorotoluene	N.D.		0.2
4-Chlorotoluene	N,D.		0.2
Dibromochloromethane	N.D.		0.4
1,2-Dibromo-3-chloropropane	N.D.		0.5
1,2-Dibromoethane	N.D.	•	0.4
Dibromomethane	N.D.		0.4
1,2-Dichlorobenzene	N.D.		0.2
1,3-Dichlorobenzene	N.D.		0.2
1,4-Dichlorobenzene	N.D.		0.2
Dichlorodifluoromethane	N.D.		0.4
1,1-Dichloroethane	N.D.		0.2
1,2-Dichloroethane	N.D.		0.2
1,1-Dichloroethene	N.D.		0.2
cis-1,2-Dichloroethene	N.D.	,	0.2
trans-1,2-Dichloroethene	N.D.		0.2
1,2-Dichloropropane	N.D.		0.2
1,3-Dichloropropane	N.D.		0.4
•			



EPA 8240 Volatile Organic Compounds, continued

Client:	Environmental Management Resource	es Date Sampled:	June 28, 1994
Project Name:	Benenson/Bellevue	Date Received:	•
Project Number:	1153	Date Extracted	
Client Sample ID:	B-4D	Date Analyzed	
Laboratory Batch #	01399	Sample Matrix	•
Units:	mg/kg	Dilution Factor	
Analyte	Sample Res	ult Notes	Reporting Limit
2,2-Dichloropropane	N.D.		0.4
1,1-Dichloropropene	N.D.		0.2
cis-1,3-Dichloroprope	ne N.D.		0.2
trans-1,3-Dichloropro	pene N.D.		0.2
Ethylbenzene	N.D.		0.2
Hexachlorobutadiene	N.D.		0.2
2-Hexanone	N.D.		2
Isopropylbenzene	N.D.		0.2
p-Isopropyltoluene	N.D.		0.2
MEK	N.D.		2
Methylene chloride	N.D.		0.4
MIBK	N.D.		2
Naphthalene	N.D.		0.2
n-Propylbenzene	N.D.		0.2
Styrene	N.D.		0.2
l, l, l, 2-Tetrachloroeth	ane N.D.		0.2
1,1,2,2-Tetrachloroeth	ane N.D.		0.4
Tetrachloroethene	2.9		0.2
Toluene	N.D.		0.4
1,2,3-Trichlorobenzen	e N.D.		0.4
l,2,4-Trichlorobenzen	e N.D.		0.4
1,1,1-Trichloroethane	N.D.		0.2
1,1,2-Trichloroethane	N.D.		0.4
Frichloroethene	N.D.		0.2
richlorofluoromethan			0.2
1,2,3-Trichloropropane	e N.D.		0.4
1,2,4-Trimethylbenzen	ne N.D.		0.2
l,3,5-Trimethlybenzen	ne N.D.		0.2
Vinyl Acetate	N.D.		1
Vinyl chloride	N.D.		1
n,p,-Xylene	N.D.		0.4
-Xylene	N.D.	•	0.2
Surrogate Recoveries	Recovery	Notes	Acceptance Range
Foluene-d8	105%		81%-117%
l-Bromofluorobenzene	102%		74%-121%

Notes

Dibromofluoromethane

N.D.-Not detected above the reporting limit.

104%

80%-120%



EPA 8240 Volatile Organic Compounds

Client:	Environmental Management Resou	rces Date Sampled:	June 28, 1994
Project Name:	Benenson/Bellevue	Date Received:	June 28, 1994
Project Number:	1153	Date Extracted:	June 29, 1994
Client Sample ID:	B-SC	Date Analyzed:	June 29, 1994
Laboratory Batch #	01399	Sample Matrix:	Soil
Units:	mg/kg	Dilution Factor:	1
Analyte	Sample Resu	ılt Notes	Reporting Limit

Analyte	Sample Result	Notes	Reporting Limit
• .	MD		. 2
Acetone	N.D.		2
Acrolein	N.D.		2 2
Acrylonitrile	N.D.		
Benzene	N.D.		0.2
Bromobenzene	N.D.		0.2
Bromochloromethane	N.D.		0.4
Bromodichloromethane	N.D.		0.2
Bromoform	N.D.		0.4
Bromomethane	N.D.		0.4
n-Butylbenzene	N.D.		0.2
sec-Butylbenzene	N.D.		0.2
tert-Butylbenzene	N.D.		0.2
Carbon Disulfide	N.D.		1
Carbon tetrachloride	N.D.		0.2
Chlorobenzene	N.D.		0.2
Chloroethane	N.D.		0.2
2-Chloroethyl vinyl ether	N.D.		1 ' '
Chloroform	N.D.		0.2
Chloromethane	N.D.	•	0.2
2-Chlorotoluene	N.D.		0.2
4-Chlorotoluene	N.D.	*	0.2
Dibromochloromethane	N.D.		0.4
1,2-Dibromo-3-chloropropane	N.D.		0.5
1,2-Dibromoethane	N.D.		0.4
Dibromomethane	N.D.		0.4
1,2-Dichlorobenzene	N.D.		0.2
1,3-Dichlorobenzene	N.D.		0.2
1,4-Dichlorobenzene	N.D.		0.2
Dichlorodifluoromethane	N.D.		0.4
I, 1-Dichloroethane	N.D.		0.2
1,2-Dichloroethane	N.D.		0.2
1,1-Dichloroethene	N.D.		0.2
cis-1,2-Dichloroethene	N.D.		. 0.2
trans-1,2-Dichloroethene	N.D.		0.2
1,2-Dichloropropane	N.D.		0.2
1,3-Dichloropropane	N.D.		0.4



EPA 8240 Volatile Organic Compounds, continued

Client:	Environmental Management Resour	ces Date Sampled:	June 28, 1994
Project Name:	Benenson/Bellevue	Date Received:	
Project Number:	1153	Date Extracted	: June 29, 1994
Client Sample ID:	B-5C	Date Analyzed	: June 29, 1994
Laboratory Batch #	01399	Sample Matrix	: Soil
Units:	mg/kg	Dilution Factor	n_1
Analyte	Sample Re	sult Notes	Reporting Limit
2,2-Dichloropropane	N.D.		0.4
1,1-Dichloropropene	N.D.		0.2
cis-1,3-Dichloroprope	ne N.D.		0.2
trans-1,3-Dichloropro	pene N.D.		0.2
Ethylbenzene	N.D.		0.2
Hexachlorobutadiene	N.D.		0.2
2-Hexanone	N.D.		2
isopropyibenzene	N.D.	•	0.2
p-Isopropyltoluene	N.D.		0.2
MEK	N.D.		2
Methylene chloride	N.D.		0.4
MIBK	N.D.		2
Naphthalene	N.D.		0.2
n-Propylbenzene	N.D.		0.2
Styrene	N.D.		0.2
l,1,1,2-Tetrachloroeth	nane N.D.		0.2
l,1,2,2-Tetrachloroeth	nane N.D.		0.4
letrachloroethene	0.45		0.2
Foluene	N.D.		0.4
1,2,3-Trichlorobenzen	e N.D.		0.4
l,2,4-Trichlorobenzen	e N.D.		0.4
l,1,1-Trichloroethane	N.D.		0.2
l,1,2-Trichloroethane	N.D.		0.4
Frichloroethene	N.D.		0.2
Frichlorofluorometha	ne N.D.		0.2
1,2,3-Trichloropropan	e N.D.		0.4
1,2,4-Trimethylbenzer	ne N.D.		0.2
1,3,5-Trimethlybenzer	ne N.D.		0.2
Vinyl Acetate	N.D.		1
Vinyl chloride	N.D.		1
n,p,-Xylene	N.D.		0.4
-Xylene	N.D.		0.2
Surrogate Recoveries	Recovery	Notes	Acceptance Range
Toluene-d8	105%		81%-117%
-Bromofluorobenzene	104%		74%-121%
Dibromofluoromethan	e 99%		80%-120%



Client:

Environmental Management Resources

Project Name:

Benenson/Bellevue

1153

Date Extracted:

June 29, 1994

Project Number: Laboratory Batch #

01399

Date Analyzed: Dilution Factor: June 29, 1994 1

Sample ID:

Method Blank

Units:

mg/kg

Sample ID: Method Blank		Units:	mg/kg
Analyte	Sample Result	Notes	Reporting Limit
Acetone	N.D.		2
Acrolein	N.D.		2
Acrylonitrile	N.D.		2
Benzene	N.D.		0.2
Bromobenzene	N.D.		0.2
Bromochloromethane	N.D.		0.4
Bromodichloromethane	N.D.		0.2
Bromoform	N.D.	•	0.4
Bromomethane	N.D.		0.4
n-Butylbenzene	N.D.		0.2
sec-Butylbenzene	N.D.		0.2
tert-Butylbenzene	N.D.		0.2
Carbon Disulfide	N.D.		1
Carbon tetrachloride	N.D.		0.2
Chlorobenzene	N.D.		0.2
Chloroethane	N.D.		0.2
2-Chloroethyl vinyl ether	N.D.		1
Chloroform	N.D.		0.2
Chloromethane	N.D.		0.2
2-Chlorotoluene	N.D.		0.2
4-Chlorotoluene	N.D.		0.2
Dibromochloromethane	N.D.		0.4
1,2-Dibromo-3-chloropropane	N.D.		0.5
1,2-Dibromoethane	N.D.		0.4
Dibromomethane	['] N.D.		0.4
1,2-Dichlorobenzene	N.D.		0.2
1,3-Dichlorobenzene	N.D.		0.2
1,4-Dichlorobenzene	N.D.		0.2
Dichlorodifluoromethane	N.D.		0.4
1,1-Dichloroethane	N.D.		0.2
1,2-Dichloroethane	N.D.		0.2
1,1-Dichloroethene	N.D.		0.2
cis-1,2-Dichloroethene	N.D.		0.2
trans-1,2-Dichloroethene	N.D.		0.2
1,2-Dichloropropane	N.D.		0.2
1,3-Dichloropropane	N.D.		0.4
1,3-Dichloropropane	N.D.		0.4



Client:	Environmental Management Resources		
Project Name:	Benenson/Bellevue	Date Extracted:	June 29, 1994
Project Number:	1153	Date Analyzed:	June 29, 1994

Laboratory Batch # 01399 Dilution Factor: 1
Sample ID: Method Blank Units: mg/kg

Sample ID:	Method Blank	Units:	тукд
Analyte	Sample Result	Notes	Reporting Limit
2,2-Dichloropropane	N.D.		0.4
1,1-Dichloropropene	N.D.		0.2
cis-1,3-Dichloropropene	N.D.		0.2
trans-1,3-Dichloropropene	N.D.		0.2
Ethylbenzene	N.D.		0.2
Hexachlorobutadiene	N.D.		0.2
2-Hexanone	N.D.		2
Isopropylbenzene	N.D.		0.2
p-Isopropyltoluene	N.D.		0.2
MEK	N.D.		2
Methylene chloride	N.D.		0.4
MIBK	N.D.		2
Naphthalene	N.D.		0.2
n-Propylbenzene	N.D.		0.2
Styrene	N.D.		0.2
1,1,1,2-Tetrachloroethane	N.D.		0.2
1,1,2,2-Tetrachloroethane	N.D.		0.4
Tetrachloroethene	N.D.		0.2
Foluene	N.D.		0.4
1,2,3-Trichlorobenzene	N.D.		0.4
1,2,4-Trichlorobenzene	N.D.		0.4
l,1,1-Trichloroethane	N.D.		0.2
1,1,2-Trichloroethane	N.D.		0.4
l'richloroethene	N.D.		0.2
Frichlorofluoromethane	N.D.		0.2
1,2,3-Trichloropropane	N.D.		0.4
1,2,4-Trimethylbenzene	N.D.		0.2
1,3,5-Trimethlybenzene	N.D.		0.2
Vinyl Acetate	N.D.		1
Vinyl chloride	N.D.		1
m,p,-Xylene	N.D.		0.4
o-Xylene	N.D.		0.2

Surrogate Recoveries	Recovery	Notes	Acceptance Range
Toluene-d8	101%	<u> </u>	81% - 117%
4-Bromofluorobenzene	100%		74% - 121%
Dibromofluoromethane	105%		80% - 120%

Notes



Client:

Environmental Management Resources

Project Name:

Benenson/Bellevue

Project Number:

1153

Laboratory Batch # Batch Sample ID:

01399 01399OA

Date Extracted:

June 29, 1994

Date Analyzed:

June 29, 1994

Dilution Factor:

Units:

mø/kø

1

Batch Sample ID: 01399QA			. ι	J nits:	mg/kg
	Reporting	Sample	Duplicate		Acceptance
Analyte	Limit	Result	Result	RPD	Limit
Acetone	2	N.D.	N.D.		30%
Acrolein	2	N.D.	N.D.		30%
Acrylonitrile	2	N.D.	N.D.	•-	30%
Benzene	0.2	N.D.	N.D.		30%
Bromobenzene	0.2	N.D.	N.D.		30%
Bromochloromethane	0.4	N.D.	N.D.		30%
Bromodichloromethane	0.2	N.D.	N.D.		30%
Bromoform	0.4	N.D.	N.D.		30%
Bromomethane	0.4	N.D.	N.D.		30%
n-Butylbenzene	0.2	N.D.	N.D.		30%、
sec-Butylbenzene	0.2	N.D.	N.D.		30%
tert-Butylbenzene	0.2	N.D.	N.D.		30%
Carbon Disulfide	l	N.D.	N.D.		30%
Carbon tetrachloride	0.2	N.D.	N.D.		30%
Chlorobenzene	0.2	N.D.	N.D.		30%
Chloroethane	0.2	N.D.	N.D.		30%
2-Chloroethyl vinyl ether	1	N.D.	N.D.		30%
Chloroform	0.2	N.D.	N.D.		30%
Chloromethane	0.2	N.D.	N.D.		30%
2-Chlorotoluene	0.2	N.D.	N.D.		30%
4-Chlorotoluene	0.2	N.D.	N.D.		30%
Dibromochloromethane	0.4	N.D.	N.D.		30%
1,2-Dibromo-3-chloropropane	0.5	N.D.	N.D.		30%
1,2-Dibromoethane	0.4	N.D.	N.D.		30%
Dibromomethane	0.4	N.D.	N.D.		30%
1,2-Dichlorobenzene	0.2	N.D.	N.D.		30%
1,3-Dichlorobenzene	0.2	N.D.	N.D.		30%
1,4-Dichlorobenzene	0.2	N.D.	N.D.		30%
Dichlorodifluoromethane	0.4	N.D.	N.D.		30%
I,1-Dichloroethane	0.2	N.D.	N.D.		30%
1,2-Dichloroethane	0.2	N.D.	N.D.		30%
1,1-Dichloroethene	0.2	. N.D.	N.D.		30%
cis-1,2-Dichloroethene	0.2	N.D.	N.D.		30%
rans-1,2-Dichloroethene	0.2	N.D.	N.D.		30%
1,2-Dichloropropane	0.2	N.D.	N.D.		30%
1,3-Dichloropropane	0.4	N.D.	N.D.		30%
Notes					



Client:

Environmental Management Resources

Project Name:

Benenson/Bellevue

Project Number: Laboratory Batch # 1153

Date Extracted: Date Analyzed:

June 29, 1994

01399

Dilution Factor:

June 29, 1994

1

Batch Sample ID: 01399QA				Dilution Pactor: Units:	1
outen bampie 13. V1077QA	Reporting	Sample	Duplicate	Units:	mg/kg
Analyte	Limit	Result	-	DDD	Acceptance
2,2-Dichloropropane	0.4	N.D.	Result	RPD	Limit
1,1-Dichloropropene	0.4		N.D.	••	30%
ris-1,3-Dichloropropene	0.2	N.D. N.D.	N.D.		30%
rans-1,3-Dichloropropene	0.2	N.D. N.D.	N.D.		30%
Ethylbenzene	0.2		N.D.		30%
Hexachlorobutadiene	0.2	N.D.	N.D.		30%
-Hexanone	2	N.D.	N.D.		30%
		N.D.	N.D.		30%
sopropylbenzene	0.2	N.D.	N.D.		30%
-Isopropyltoluene	0.2	N.D.	N.D.		30%
ÆK	2	N.D.	2.0	N.A.	30%
Methylene chloride	0.4	N.D.	N.D.		30%
MIBK ·	2	N.D.	N.D.		30%
Naphthalene	0.2	N.D.	N.D.		30%
-Propylbenzene	0.2	N.D.	N.D.		30%
styrene	0.2	N.D.	N.D.		30%
,1,1,2-Tetrachloroethane	0.2	N.D.	N.D.		30%
,1,2,2-Tetrachloroethane	0.4	N.D.	N.D.	-	30%
'etrachloroethene	0.2	2.9	3.5	19%	30%
'oluene	0.4	N.D.	N.D.	-	30%
,2,3-Trichlorobenzene	0.4	N.D.	N.D.		30%
,2,4-Trichlorobenzene	0.4	N.D.	N.D.		30%
,1,1-Trichloroethane	0.2	N.D.	N.D.		30%
,1,2-Trichloroethane	0.4	N.D.	N.D.		30%
richloroethene	0.2	N.D.	N.D.		30%
richlorofluoromethane	0.2	N.D.	N.D.		30%
,2,3-Trichloropropane	0.4	N.D.	N.D.		30%
,2,4-Trimethylbenzene	0.2	N.D.	N.D.		30%
,3,5-Trimethlybenzene	0.2	N.D.	N.D.		30%
inyl Acetate	1	N.D.	N.D.		30%
inyl chloride	1	N.D.	N.D.		30%
n,p,-Xylene	0.4	N.D.	. N.D.		30%
-Xylene	0.2	N.D.	N.D.		30%

N.A. - Not available due to low analyte concentration.

N.D.-Not detected above the reporting limit.



Client:

Environmental Management Resources

Project Name:

Benenson/Bellevue

Date Extracted:

June 29, 1994

Project Number:

1153

Date Analyzed:

June 29, 1994

Laboratory Batch # **Batch Sample ID:**

01399

Dilution Factor:

1 mg/kg

Batch Sample ID:	01399QA				Units:	mg/kg
Analyte	Spike Added	Spike Recovery	Acceptance Range	Spike Dup Recovery	RPD	Acceptance Limit
1,1-Dichloroethene	5	72%	59% - 172%	70%	3%	22%
Benzene	5	90%	66% - 142%	88%	2%	21%
Trichloroethene	5	87%	62% - 137%	85%	2%	24%
Toluene	5	90%	59% - 139%	86%	5%	21%
Chlorobenzene	5	92%	60% - 133%	92%	< 1%	21%



Moisture Content Report

Client:

Environmental Management Resources

Project Name:

Benenson/Bellevue

Project Number:

1153

Laboratory Batch # Units:

01399

% Moisture

Date Sampled:

Date Received:

June 28, 1994 June 28, 1994

Date Analyzed:

June 29, 1994

Sample Matrix: Soil

Client Sample ID	Sample Result	Notes	Reporting Limit
B-2E	8%		1%
B-3C	10%		1%
B-4D	12%		1%
B-5C	11%		1%



June 24, 1994

David Welch
Environmental Management Resources
2509 152nd Avenue N.E.
Suite B
Redmond, WA 98052-5551

Dear David:

Enclosed are the analytical results of samples submitted on June 22, 1994 from project Benenson /Bellevue, 1153.

If you have any questions regarding this report or if you need any other assistance, please do not hesitate to call me.

Sincerely,

Cynthia Rezania Project Chemist

CLR/lh



EPA 8240 Volatile Organic Compounds

Analyte	San	nnle Regult	Notes	Reporting Limit
Units:	mg/kg		Dilution Factor:	1
Laboratory Batch #	01378		Sample Matrix:	Soil
Client Sample ID:	SS-1		Date Analyzed:	June 22, 1994
Project Number:	1153		Date Extracted:	June 22, 1994
Project Name:	Benenson /Bellevue		Date Received:	June 22, 1994
Client:	Environmental Manageme	nt Resources	Date Sampled:	June 22, 1994

Analyte	Sample Result	Notes	Reporting Limit
Acetone	N.D.		. 2
Acrolein	N.D.		2
Acrylonitrile	N.D.		2
Benzene	N.D.		0.2
Bromobenzene	N.D.		0.2
Bromochloromethane	N.D.		0.4
Bromodichloromethane	N.D.		0.2
Bromoform	N.D.		0.4
Bromomethane	N.D.		0.4
n-Butylbenzene	N.D.		0.2
sec-Butylbenzene	N.D.		0.2
tert-Butylbenzene	N.D.		0.2
Carbon Disulfide	N.D.		1
Carbon tetrachloride	N.D.		0.2
Chlorobenzene	N.D.		0.2
Chloroethane	N.D.		0.2
2-Chloroethyl vinyl ether	N.D.		1
Chloroform	N.D.		0.2
Chloromethane	N.D.		0.2
2-Chlorotoluene	N.D.		0.2
4-Chlorotoluene	N.D.		0.2
Dibromochloromethane	N.D.		0.4
1,2-Dibromo-3-chloropropane	N.D.		0.5
1,2-Dibromoethane	N.D.		0.4
Dibromomethane	N.D.		0.4
1,2-Dichlorobenzene	N.D.		0.2
1,3-Dichlorobenzene	N.D.		0.2
1,4-Dichlorobenzene	N.D.		0.2
Dichlorodifluoromethane	N.D.		0.4
1,1-Dichloroethane	N.D.		0.2
1,2-Dichloroethane	N.D.		0.2
1,1-Dichloroethene	N.D.		0.2
cis-1,2-Dichloroethene	N.D.	•	0.2
trans-1,2-Dichloroethene	N.D.		0.2
1,2-Dichloropropane	N.D.		0.2
1,3-Dichloropropane	N.D.		0.4

Notes



EPA 8240 Volatile Organic Compounds, continued

Client:	Environmental Management Resources	Date Sampled:	June 22, 1994
Project Name:	Benenson /Bellevue	Date Received:	June 22, 1994
Project Number:	1153	Date Extracted:	June 22, 1994
Client Sample ID:	SS-1	Date Analyzed:	June 22, 1994
Laboratory Batch #	01378	Sample Matrix:	Soil
Units:	mg/kg	Dilution Factor:	1

Analyte	Sample Result	Notes	Reporting Limit
2,2-Dichloropropane	N.D.		0.4
1,1-Dichloropropene	N.D.		0.2
cis-1,3-Dichloropropene	N.D.		0.2
rans-1,3-Dichloropropene	N.D.		0.2
Ethylbenzene	N.D.		0.2
Hexachlorobutadiene	N.D.		0.2
2-Hexanone	N.D.		2
sopropylbenzene	N.D.		0.2
p-Isopropyltoluene	N.D.		0.2
MEK	N.D.		2
Methylene chloride	N.D.		0.4
MIBK	N.D.		2
Naphthalene	N.D.		0.2
n-Propylbenzene	N.D.		0.2
Styrene	N.D.		0.2
,1,1,2-Tetrachloroethane	N.D.		0.2
,1,2,2-Tetrachloroethane	N.D.		0.4
Tetrachloroethene	410	D	20
Coluene	N.D.		0.4
,2,3-Trichlorobenzene	N.D.		0.4
,2,4-Trichlorobenzene	N.D.		0.4
,1,1-Trichloroethane	1.9		0.2
,1,2-Trichloroethane	N.D.		0.4
richloroethene	0.34		0.2
richlorofluoromethane	N.D.		0.2
,2,3-Trichloropropane	N.D.		0.4
,2,4-Trimethylbenzene	N.D.		0.2
,3,5-Trimethlybenzene	N.D.		0.2
/inyl Acetate	N.D.		1
/inyl chloride	N.D.		1
n,p,-Xylene	N.D.		0.4
-Xylene	N.D.		0.2

Surrogate Recoveries	Recovery	Notes	Acceptance Range
Toluene-d8	100%		81%-117%
4-Bromofluorobenzene	99%		74%-121%
Dibromofluoromethane	103%		80%-120%
Notes			

N.D.-Not detected above the reporting limit.
D. - Data from 1:100 dilution.



Client: Environmental Management Resources

Project Name: Benenson /Bellevue Date Extracted: June 22, 1994
Project Number: 1153 Date Analyzed: June 22, 1994

Laboratory Batch # 01378 Dilution Factor: 1

Sample ID: Method Blank Units: mg/kg

Sample ID: Method Blank		Units:	mg/kg
Analyte	Sample Result	Notes	Reporting Limit
Acatama	N.D.		2
Acetone	N.D. N.D.		2 2
Acrolein			2 2
Acrylonitrile	N.D. N.D.		0.2
Benzene	N.D. N.D.		0.2
Bromobenzene			
Bromochloromethane	N.D.		0.4
Bromodichloromethane	N.D.		0.2
Bromoform	N.D.		0.4
Bromomethane	N.D.		0.4
n-Butylbenzene	N.D.		0.2
sec-Butylbenzene	N.D.		0.2
tert-Butylbenzene	N.D.		0.2
Carbon Disulfide	N.D.		1
Carbon tetrachloride	N.D.		0.2
Chlorobenzene	N.D.		0.2
Chloroethane	N.D.		0.2
2-Chloroethyl vinyl ether	N.D.		1
Chloroform	N.D.		0.2 .
Chloromethane	N.D.		0.2
2-Chlorotoluene	N.D.	•	0.2
4-Chlorotoluene	N.D.		0.2
Dibromochloromethane	N.D.		0.4
1,2-Dibromo-3-chloropropane	N.D.		0.5
1,2-Dibromoethane	N.D.		0.4
Dibromomethane	N.D.		0.4
1,2-Dichlorobenzene	N.D.		0.2
1,3-Dichlorobenzene	N.D.		0.2
1,4-Dichlorobenzene	N.D.		0.2
Dichlorodifluoromethane	N.D.		0.4
1,1-Dichloroethane	N.D.		0.2
1,2-Dichloroethane	N.D.		0.2
1,1-Dichloroethene	N.D.		0.2
cis-1,2-Dichloroethene	N.D.		0.2
trans-1,2-Dichloroethene	N.D.		0.2
1,2-Dichloropropane	N.D.		0.2
1,3-Dichloropropane	N.D.		0.4

Notes



Client:	Environmental	Management Resources
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Project Name: Benenson /Bellevue Date Extracted: June 22, 1994
Project Number: Date Analyzed: June 22, 1994
Date Analyzed: June 22, 1994

Laboratory Batch # 01378 Dilution Factor: 1
Sample ID: Method Blank Units: mg/kg

		<u> </u>	
Analyte	Sample Result	Notes	Reporting Limit
2,2-Dichloropropane	N.D.		0.4
1,1-Dichloropropene	N.D.		0.2
cis-1,3-Dichloropropene	N.D.		0.2
trans-1,3-Dichloropropene	N.D.		0.2
Ethylbenzene	N.D.		0.2
Hexachlorobutadiene	N.D.		0.2
2-Hexanone	N.D.		2
Isopropylbenzene	N.D.		0.2
p-Isopropyltoluene	N.D.		0.2
MEK	N.D.		2
Methylene chloride	N.D.		0.4
MIBK	N.D.		2
Naphthalene	N.D.		0.2
n-Propylbenzene	N.D.		0.2
Styrene	N.D.		0.2
1,1,1,2-Tetrachloroethane	N.D.		0.2
1,1,2,2-Tetrachloroethane	N.D.		0.4
Tetrachloroethene	N.D.		0.2
Toluene	N.D.		0.4
1,2,3-Trichlorobenzene	N.D.		0.4
1,2,4-Trichlorobenzene	N.D.		0.4
l,1,1-Trichloroethane	N.D.		0.2
1,1,2-Trichloroethane	N.D.		0.4
Trichloroethene	N.D.		0.2
Trichlorofluoromethane	N.D.		0.2
1,2,3-Trichloropropane	N.D.		0.4
1,2,4-Trimethylbenzene	N.D.		0.2
1,3,5-Trimethlybenzene	N.D.		0.2
Vinyl Acetate	N.D.		1
Vinyl chloride	N.D.		1
m,p,-Xylene	N.D.		0.4
o-Xylene	N.D.		0.2

Surrogate Recoveries	Recovery	Notes	Acceptance Range
Toluene-d8	105%		81% - 117%
4-Bromofluorobenzene	101%		74% - 121%
Dibromofluoromethane	108%		80% - 120%

Notes



Client:

Environmental Management Resources

Project Name:

Benenson /Bellevue

Project Number:

1153

Date Extracted: Date Analyzed: June 22, 1994

Laboratory Batch #

June 22, 1994

01378

Dilution Factor:

Batch Sample ID: 01378QA				Units:	mg/kg
	Reporting	Sample	Duplicate		Acceptance
Analyte	Limit	Result	Result	RPD	<u>Limit</u>
Acetone	2	N.D.	N.D.		30%
Acrolein	2	N.D.	N.D.		30%
Acrylonitrile	2	N.D.	N.D.		30%
Benzene	0.2	N.D.	N.D.		30%
Bromobenzene	0.2	N.D.	N.D.		30%
Bromochloromethane	0.4	N.D.	N.D.		30%
Bromodichloromethane	0.2	N.D.	N.D.		30%
Bromoform	0.4	N.D.	N.D.		30%
Bromomethane	0.4	N.D.	N.D.		30%
n-Butylbenzene	0.2	N.D.	N.D.		30%
sec-Butylbenzene	0.2	N.D.	N.D.		30%
tert-Butylbenzene	0.2	N.D.	N.D.		30%
Carbon Disulfide	1	N.D.	N.D.		30%
Carbon tetrachloride	0.2	N.D.	N.D.		30%
Chlorobenzene	0.2	N.D.	N.D.		30%
Chloroethane	0.2	N.D.	N.D.	••	30%
2-Chloroethyl vinyl ether	1	N.D.	N.D.		30%
Chloroform	0.2	N.D.	N.D.		30%
Chloromethane	0.2	N.D.	N.D.		30%
2-Chlorotoluene	0.2	N.D.	N.D.		30%
4-Chlorotoluene	0.2	N.D.	N.D.		30%
Dibromochloromethane	0.4	N.D.	N.D.		30%
1,2-Dibromo-3-chloropropane	0.5	N.D.	N.D.		30%
1,2-Dibromoethane	0.4	N.D.	N.D.		30%
Dibromomethane	0.4	N.D.	N.D.		30%
1,2-Dichlorobenzene	0.2	N.D.	N.D.		30%
1,3-Dichlorobenzene	0.2	N.D.	N.D.		30%
1,4-Dichlorobenzene	0.2	N.D.	N.D.	••	30%
Dichlorodifluoromethane	0.4	N.D.	N.D.		30%
1,1-Dichloroethane	0.2	N.D.	N.D.		30%
1,2-Dichloroethane	0.2	N.D.	N.D.		30%
1,1-Dichloroethene	0.2	N.D.	N.D.		30%
cis-1,2-Dichloroethene	0.2	N.D.	0.25	N.A.	.30%
trans-1,2-Dichloroethene	0.2	N.D.	N.D.		30%
1,2-Dichloropropane	0.2	N.D.	N.D.		30%
1,3-Dichloropropane Notes	0.4	N.D.	N.D.		30%

N.D.-Not detected above the reporting limit.

N.A. - Not available due to low analyte concentration.



Client:

Environmental Management Resources

Project Name:

Benenson /Bellevue

Project Number: Laboratory Batch # 1153

Date Extracted: Date Analyzed: June 22, 1994 June 22, 1994

01378

Dilution Factor:

1

Batch Sample ID: 01378Q				Units:	mg/kg
	Reporting	Sample	Duplicate		Acceptance
Analyte	Limit	Result	Result	RPD	Limit
2,2-Dichloropropane	0.4	N.D.	N.D.		30%
1,1-Dichloropropene	0.2	N.D.	N.D.		30%
cis-1,3-Dichloropropene	0.2	N.D.	N.D.		30%
trans-1,3-Dichloropropene	0.2	N.D.	N.D.		30%
Ethylbenzene	0.2	N.D.	N.D.		30%
Hexachlorobutadiene	0.2	N.D.	N.D.		30%
2-Hexanone	2	N.D.	N.D.		30%
Isopropylbenzene	0.2	N.D.	N.D.		30%
p-Isopropyltoluene	0.2	N.D.	N.D.	`	30%
MEK	2	N.D.	N.D.		30%
Methylene chloride	0.4	N.D.	N.D.		30%
MIBK	2	N.D.	N.D.		30%
Naphthalene	0.2	N.D.	N.D.		30%
n-Propylbenzene	0.2	N.D.	N.D.		30%
Styrene	0.2	N.D.	N.D.		30%
1,1,1,2-Tetrachloroethane	0.2	N.D.	N.D.		30%
1,1,2,2-Tetrachloroethane	0.4	N.D.	N.D.		30%
Tetrachloroethene	0.2	410	400	2%	30%
Foluene	0.4	N.D.	N.D.		30%
1,2,3-Trichlorobenzene	0.4	N.D.	N.D.		30%
1,2,4-Trichlorobenzene	0.4	N.D.	N.D.		30%
l,l,l-Trichloroethane	0.2	2.8	3.0	7% A	30%
1,1,2-Trichloroethane	0.4	N.D.	N.D.		30%
Frichloroethene	0.2	0.34	1.0	92% B	30%
Trichlorofluoromethane	0.2	N.D.	N.D.		30%
1,2,3-Trichloropropane	0.4	N.D.	N.D.		30%
1,2,4-Trimethylbenzene	0.2	N.D.	N.D.		30%
1,3,5-Trimethlybenzene	0.2	N.D.	N.D.		30%
Vinyl Acetate	1	N.D.	N.D.		30%
Vinyl chloride	1	N.D.	N.D.		30%
m,p,-Xylene	0.4	N.D.	N.D.		30%
o-Xylene	0.2	N.D.	N.D.		30%

Notes

A. - Data from matrix spike analyses.

B. - RPD is out of limit du to low analyte concentration.

N.D.-Not detected above the reporting limit.



Client:

Environmental Management Resources

Project Name:

Benenson /Bellevue

Date Extracted:

June 22, 1994

Project Number:

1153

Date Analyzed:

June 22, 1994

Laboratory Batch #

01378

Dilution Factor:

	,		
Batch	Sam	ple	D:

01378QA

Units:

mg/kg

Analyte	Added	Spike Recovery	Acceptance Range	Recovery	RPD	Limit
1,1-Dichloroethene	5	72%	59% - 172%	71%	1%	22%
Benzene	5	88%	66% - 142%	85%	3%	21%
Trichloroethene	5	81%	62% - 137%	80%	1%	24%
Toluene	5	92%	59% - 139%	88%	4%	21%
Chlorobenzene	5	93%	60% - 133%	90%	3%	21%





Moisture Content Report

Client:

Environmental Management Resources

Project Name:

Benenson /Bellevue

Project Number: Laboratory Batch # 1153

Units:

01378

% Moisture

Date Sampled:

June 22, 1994

Date Received:

June 22, 1994

Date Analyzed:

June 24, 1994

Sample Matrix:

Soil

Client Sample ID

Reporting Limit Notes

SS-1

9%

Sample Result

1%

CHAIN OF CUSTODY RECORD



ENVIRONMENTAL MANAGEMENT RESOURCES

2509 152nd Avenue NE, Suite B, Redmo (206) 861-4561 * FAX (206)													624/8240	625/8270	080			
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June 30, 1994

David Welch
Environmental Management Resources
2509 152nd Avenue N.E.
Suite B
Redmond, WA 98052-5551

Dear David:

Enclosed are the analytical results of samples submitted on June 28, 1994 from project Benenson/Bellevue, 1153.

If you have any questions regarding this report or if you need any other assistance, please do not hesitate to call me.

Sincerely.

Cynthia Rezania Project Chemist

CLR/lh



EPA 8240 Volatile Organic Compounds

Client:	Environmental Management Resources	Date Sampled:	June 28, 1994	
Project Name:	Benenson/Bellevue	Date Received:	June 28, 1994	
Project Number:	1153	Date Extracted:	June 28, 1994	
Client Sample ID:	B-1V	Date Analyzed:	June 28, 1994	
Laboratory Batch #	01396	Sample Matrix:	Soil	
Units:	mg/kg	Dilution Factor:	1	

Analyte	Sample Result	Notes	Reporting Limit
•	1		
Acetone	N.D.	•	2
Acrolein	N.D.		2
Acrylonitrile	N.D.		2
Benzene	N.D.		0.2
Bromobenzene	N.D.		0.2
Bromochloromethane	N.D.		0.4
Bromodichloromethane	N.D		0.2
Bromoform	N.D.		0.4
Bromomethane	N.D.		0.4
n-Butylbenzene	N.D.		0.2
sec-Butylbenzene	N.D.		0.2
tert-Butylbenzene	N.D.		0.2
Carbon Disulfide	N.D.		1
Carbon tetrachloride	N.D.	•	0.2
Chlorobenzene	N.D.		0.2
Chloroethane	N.D.		0.2
2-Chloroethyl vinyl ether	N.D.	i	1
Chloroform	N.D.	,	0.2
Chloromethane	N.D.		0.2
2-Chlorotoluene	N.D.		0.2
4-Chlorotoluene	N.D.		0.2
Dibromochloromethane	N.D.		0.4
1,2-Dibromo-3-chloropropane	N.D.		0.5
1,2-Dibromoethane	N.D.		0.4
Dibromomethane	N.D.		0.4
1,2-Dichlorobenzene	N.D.	•	0.2
1,3-Dichlorobenzene	N.D.		0.2
1,4-Dichlorobenzene	N.D.		0.2
Dichlorodifluoromethane	N.D.		0.4
1,1-Dichloroethane	N.D.		0.2
1,2-Dichloroethane	N.D.		0.2
1,1-Dichloroethene	N.D.		· 0.2
cis-1,2-Dichloroethene	N.D.		0.2
trans-1,2-Dichloroethene	N.D.		0.2
1,2-Dichloropropane	N.D.		0.2
1,3-Dichloropropane	N.D.		0.4
= =			

Notes



EPA 8240 Volatile Organic Compounds, continued

Project Number: 1 Client Sample ID: 1 Laboratory Batch #	Senenson/Bellevue	Date Received: Date Extracted: Date Analyzed: Sample Matrix: Dilution Factor: Notes	June 28, 1994 June 28, 1994 June 28, 1994 Soil 1 Reporting Limit 0.4 0.2 0.2
Client Sample ID: Laboratory Batch # (I) Units: r Analyte 2,2-Dichloropropane 1,1-Dichloropropene cis-1,3-Dichloropropene trans-1,3-Dichloropropene Ethylbenzene Hexachlorobutadiene 2-Hexanone	Sample Result	Date Analyzed: Sample Matrix: Dilution Factor:	June 28, 1994 Soil 1 Reporting Limit 0.4 0.2
Laboratory Batch # Cunits: r Analyte 2,2-Dichloropropane 1,1-Dichloropropene cis-1,3-Dichloropropene trans-1,3-Dichloropropene Ethylbenzene Hexachlorobutadiene 2-Hexanone	Sample Result N.D.	Sample Matrix: Dilution Factor:	Soil 1 Reporting Limit 0.4 0.2
Units: r Analyte 2,2-Dichloropropane 1,1-Dichloropropene cis-1,3-Dichloropropene trans-1,3-Dichloropropene Ethylbenzene Hexachlorobutadiene 2-Hexanone	Sample Result N.D.	Dilution Factor:	Reporting Limit 0.4 0.2
Analyte 2,2-Dichloropropane 1,1-Dichloropropene cis-1,3-Dichloropropene trans-1,3-Dichloroproper Ethylbenzene Hexachlorobutadiene 2-Hexanone	Sample Result N.D. N.D. N.D. N.D. N.D. N.D. N.D.		Reporting Limit 0.4 0.2
2,2-Dichloropropane 1,1-Dichloropropene cis-1,3-Dichloropropene trans-1,3-Dichloropropen Ethylbenzene Hexachlorobutadiene 2-Hexanone	N.D. N.D. N.D. ne N.D. N.D.	Notes	0.4 0.2
1,1-Dichloropropene cis-1,3-Dichloropropene trans-1,3-Dichloropropet Ethylbenzene Hexachlorobutadiene 2-Hexanone	N.D. N.D. N.D. N.D.		0.2
cis-1,3-Dichloropropene trans-1,3-Dichloroproper Ethylbenzene Hexachlorobutadiene 2-Hexanone	N.D. ne N.D. N.D.		
trans-1,3-Dichloroproper Ethylbenzene Hexachlorobutadiene 2-Hexanone	ne N.D. N.D.		0.2
Ethylbenzene Hexachlorobutadiene 2-Hexanone	N.D.		
Hexachlorobutadiene 2-Hexanone			0.2
2-Hexanone	ΝD		0.2
			0.2
sopropylbenzene	N.D.		2
	N.D.		0.2
p-Isopropyltoluene	N.D.		0.2
MEK	N.D.		2
Methylene chloride	N.D.		0.4
MIBK	N.D.		2
Naphthalene	N.D.		0.2
n-Propylbenzene	N.D.		0.2
Styrene	N.D.		0.2
1,1,1,2-Tetrachloroethan			0.2
l,1,2,2-Tetrachloroethan			0.4
Tetrachloroethene	1.1		0.2
Toluene	N.D.		0.4
1,2,3-Trichlorobenzene	N.D.		0.4
1,2,4-Trichlorobenzene	· N.D.		0.4
1,1,1-Trichloroethane	N.D.		0.2
1,1,2-Trichloroethane	N.D.		0.4
Frichloroethene	N.D.		0.2
Frichlorofluoromethane	N.D.		0.2
1,2,3-Trichloropropane	N.D.		0.4
1,2,4-Trimethylbenzene	N.D.		0.2
1,3,5-Trimethlybenzene	N.D.		0.2
Vinyl Acetate	N.D.		1
Vinyl chloride	N.D.		1
m,p,-Xylene	N.D.		0.4
o-Xylene	N.D.		0.2
Surrogate Recoveries	Recovery	Notes	Acceptance Range
Toluene-d8	101%		81%-117%
I-Bromofluorobenzene	100%		74%-121%
Dibromofluoromethane	103%		80%-120%



Client: Environmental Management Resources

Project Name: Benenson/Bellevue Date Extracted: June 28, 1994
Project Number: 1153 Date Analyzed: June 28, 1994

Laboratory Batch # 01396 Dilution Factor: 1

Sample ID: Method Blank Units: mg/kg

Sample ID: Method Blank	Units:	mg/kg	
Analyte	Sample Result	Notes	Reporting Limit
Agatono	NE	•	_
Acetone Acrolein	N.D.		2
	N.D.		2
Acrylonitrile	N.D.		2
Benzene	N.D.		0.2
Bromobenzene	N.D.		0.2
Bromochloromethane	N.D.		. 0,4
Bromodichloromethane	N.D.		0.2
Bromoform	N.D.		0.4
Bromomethane	N.D.		0.4
n-Butylbenzene	N.D.		0.2
sec-Butylbenzene	N.D.		0.2
tert-Butylbenzene	N.D.		0.2
Carbon Disulfide	N.D.		1
Carbon tetrachloride	N.D.		0.2
Chlorobenzene	N.D.		0.2
Chloroethane	N.D.		0.2
2-Chloroethyl vinyl ether	N.D.		1
Chloroform	N.D.		0.2
Chloromethane	N.D.		0.2
2-Chlorotoluene	N.D.		0.2
4-Chlorotoluene	N.D.		0.2
Dibromochloromethane	N.D.		0.4
1,2-Dibromo-3-chloropropane	N.D.		0.5
1,2-Dibromoethane	N.D.		0.4
Dibromomethane	N.D.		0.4
1,2-Dichlorobenzene	N.D.		0.2
1,3-Dichlorobenzene	N.D.		0.2
1,4-Dichlorobenzene	N.D.	•	0.2
Dichlorodifluoromethane	N.D.		0.4
l, l-Dichloroethane	N.D.		0.2
1,2-Dichloroethane	N.D.		0.2
1,1-Dichloroethene	N.D.		0.2
cis-1,2-Dichloroethene	N.D.		0.2
rans-1,2-Dichloroethene	N.D.		0.2
1,2-Dichloropropane	N.D.		0.2
1,3-Dichloropropane	N.D.		0.4



Client: Envi	ronmental Management Resources
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Project Name: Benenson/Bellevue Date Extracted: June 28, 1994
Project Number: Date Analyzed: June 28, 1994

Laboratory Batch # 01396 Dilution Factor: 1

Sample ID:	Method Blank	Units:	mg/kg
Analyte	Sample Result	Notes	Reporting Limit
2,2-Dichloropropane	N.D.		0.4
1,1-Dichloropropene	N.D.		0.2
cis-1,3-Dichloropropene	N.D.		0.2
trans-1,3-Dichloropropene	N.D.		0.2
Ethylbenzene	N.D.		0.2
Hexachlorobutadiene	N.D.		0.2
2-Hexanone	N.D.		2
Isopropylbenzene	N.D.		0.2
p-Isopropyltoluene	N.D.		0.2
MEK	N.D.		2
Methylene chloride	N.D.		0.4
MIBK	N.D.		2
Naphthalene	N.D.		0.2
n-Propylbenzene	N.D.		0.2
Styrene	N.D.		0.2
1,1,1,2-Tetrachloroethane	N.D.	,	0.2
1,1,2,2-Tetrachloroethane	N.D.		0.4
Fetrachloroethene	N.D.		0.2
Foluene	N.D.		0.4
1,2,3-Trichlorobenzene	N.D.		0.4
1,2,4-Trichlorobenzene	N.D.		0.4
1,1,1-Trichloroethane	N.D.		0.2
1,1,2-Trichloroethane	N.D.		0.4
Frichloroethene	N.D.		0.2
Frichlorofluoromethane	N.D.		0.2
1,2,3-Trichloropropane	N.D.		0.4
1,2,4-Trimethylbenzene	N.D.		0.2
,3,5-Trimethlybenzene	N.D.		0.2
Vinyl Acetate	N.D.		1
Vinyl chloride	N.D.		1
m,p,-Xylene	N.D		0.4

Surrogate Recoveries	Recovery	Notes	Acceptance Range
Toluene-d8	103%	-	81% - 117%
4-Bromofluorobenzene	103%		74% - 121%
Dibromofluoromethane	107%		80% - 120%

Notes



Client:

Environmental Management Resources

Project Name:

Benenson/Bellevue

Project Number: Laboratory Batch # Batch Sample ID:

1153 01396

01396QA

Date Extracted:

Date Analyzed:

June 28, 1994 June 28, 1994

Dilution Factor:

Units:

mg/kg

Baten Bampie 12. 0100 Q12	Reporting	Sample	Duplicate		Acceptance
Analyte	Limit	Result	Result	RPD	Limit
· annary tw			- 		
Acetone	2	N.D.	N.D.		30%
Acrolein	2	N.D.	N.D.		30%
Acrylonitrile	2	N.D.	N.D.		30%
Benzene	0.2	N.D.	N.D.		30%
Bromobenzene	0.2	N.D.	N.D.		30%
Bromochloromethane	0.4	N.D.	N.D.		30%
Bromodichloromethane	0.2	N.D.	N.D.		30%
Bromoform	0.4	N.D.	N.D.		30%
Bromomethane	0.4	N.D.	N.D.		30%
n-Butylbenzene	0.2	N.D.	N.D.		30%
sec-Butylbenzene	0.2	N.D.	N.D.		30%
tert-Butylbenzene	0.2	N.D.	N.D.		30%
Carbon Disulfide	1	N.D.	N.D.		30%
Carbon tetrachloride	0.2	N.D.	N.D.	•	30%
Chlorobenzene	0.2	N.D.	N.D.	<u>. </u>	30%
Chloroethane	0.2	N.D.	N.D.		30%
2-Chloroethyl vinyl ether	1	N.D.	N.D.		30%
Chloroform	0.2	N.D.	N.D.		30%
Chloromethane	0.2	N.D.	N.D.		30%
2-Chlorotoluene	0.2	N.D.	N.D.		30%
4-Chlorotoluene	0.2	N.D.	N.D.		30%
Dibromochloromethane	0.4	N.D.	N.D.		30%
1,2-Dibromo-3-chloropropane	0.5	N.D.	N.D.		30%
1,2-Dibromoethane	0.4	N.D.	N.D.		30%
Dibromomethane	0.4	N.D.	N.D.		30%
1,2-Dichlorobenzene	0.2	N.D.	N.D.		30%
1,3-Dichlorobenzene	0.2	N.D.	N.D.	-	30%
1,4-Dichlorobenzene	0.2	N.D.	N.D.		30%
Dichlorodifluoromethane	0.4	N.D.	N.D.		30%
1,1-Dichloroethane	0.2	N.D.	N.D.		30%
1,2-Dichloroethane	0.2	N.D.	N.D.		30%
1,1-Dichloroethene	0.2	N.D.	N.D.		30%
cis-1,2-Dichloroethene	0.2	N.D.	N.D.		30%
trans-1,2-Dichloroethene	0.2	N.D.	N.D.		30%
1,2-Dichloropropane	0.2	N.D.	N.D.		30%
1,3-Dichloropropane	0.4	N.D.	N.D.		30%
Notes	U. T	14.10.			22.2



Client:

Environmental Management Resources

Project Name:

Benenson/Bellevue

Project Number:

1153

Date Extracted: Date Analyzed: June 28, 1994

Laboratory Batch #

01396

Dilution Factor:

June 28, 1994

Batch Sample ID: 01396Q	A			Units:	ng/kg
	Reporting	Sample	Duplicate		Acceptance
Analyte	Limit	Result	Result	RPD	Limit
2,2-Dichloropropane	0.4	N.D.	N.D.		30%
1,1-Dichloropropene	0.2	N.D.	N.D.		30%
cis-1,3-Dichloropropene	0.2	N.D.	N.D.		30%
trans-1,3-Dichloropropene	0.2	N.D.	N.D.		30%
Ethylbenzene	0.2	N.D.	N.D.		30%
Hexachlorobutadiene	0.2	N.D.	N.D.		30%
2-Hexanone	2	N.D.	N.D.		30%
Isopropylbenzene	0.2	N.D.	N.D.		30%
p-Isopropyltoluene	0.2	N.D.	N.D.		30%
MEK	. 2	N.D.	N.D.		30%
Methylene chloride	0.4	N.D.	N.D.		30%
MIBK	2	N.D.	N.D.		30%
Naphthalene	0.2	N.D.	N.D.		30%
n-Propylbenzene	0.2	N.D.	N.D.		30%
Styrene	0.2	N.D.	N.D.	•••	30%
1,1,1,2-Tetrachloroethane	0.2	N.D.	N.D.		30%
1,1,2,2-Tetrachloroethane	0.4	N.D.	N.D.		30%
Tetrachloroethene	0.2	1.1	0.99	11%	30%
Toluene	0.4	N.D.	N.D.		30%
1,2,3-Trichlorobenzene	0.4	N.D.	N.D.		30%
1,2,4-Trichlorobenzene	0.4	N.D.	N.D.		30%
1,1,1-Trichloroethane	0.2	N.D.	N.D.		30%
1,1,2-Trichloroethane	0.4	N.D.	N.D.		30%
Trichloroethene	0.2	N.D.	N.D.		30%
Trichlorofluoromethane	0.2	N.D.	N.D.		30%
1,2,3-Trichloropropane	0.4	N.D.	N.D.		30%
1,2,4-Trimethylbenzene	0.2	N.D.	N.D.		30%
1,3,5-Trimethlybenzene	0,2	N.D.	N.D.		30%
Vinyl Acetate	1	N.D.	N.D.		30%
Vinyl chloride	1 '	N.D.	N.D.		30%
m,p,-Xylene	0.4	N.D.	N.D.		30%
o-Xylene	0.2	N.D.	N.D.		30%

Notes



Client:

Environmental Management Resources

Project Name:

Benenson/Bellevue

Date Extracted:

June 28, 1994

Project Number:

1153

Date Analyzed:

June 28, 1994

Laboratory Batch #

01396

Dilution Factor:

1

Batch Sample ID:

01396OA

Units.

Daten Sample 1D.	MANGETO				units:	mg/kg
	Spike	Spike	Acceptance	Spike Dup		Acceptance
Analyte	Added	Recovery	Range	Recovery	RPD	Limit
1,1-Dichloroethene	5	70%	59% - 172%	71%	1%	22%
Benzene	5	88%	66% - 142%	89%	1%	21%
Trichloroethene	5	85%	62% - 137%	84%	1%	24%
Toluene	5	88%	59% - 139%	90%	2%	21%
Chlorobenzene	5	88%	60% - 133%	89%	1%	21%



Moisture Content Report

Client:

Environmental Management Resources

Project Name:

Benenson/Bellevue

Project Number:

1153

Laboratory Batch #

01396

Units:

% Moisture

Date Sampled:

June 28, 1994

Date Received:

June 28, 1994

Date Analyzed:

June 29, 1994

Sample Matrix:

atrix: Soil

Client Sample ID

Sample Result

Notes

Reporting Limit

B-1V

9%

1%

CHAIN OF CUSTODY ---



ENVIRONMENTAL MANAGEMENT RESOURCES ENVIRONMENTAL MANAGEMENT RESOURCES, INC. 2509 152nd Avenue NE, Suite B, Redmond, WA 98052 (206) 861-4561 FAX (206) 869-7820 VOLATILE AROMATICS **REPORT TO:** SEMIVOLATILES (BNA) PROJECT NAME: PESTICIDES/PCBs WTPH-G w/BTEX PAH 610/8100 PROJECT NO .: WTPH-418.1 PACIFIC LABORATORY: WTPH-D OTHER: OTHER: # OF SAMPLE IDENTIFICATION DATE TIME **MATRIX** PRESERV. LAB# CONT'S B-2_E SolL -28-9 Soll 6-28-9 Solu 6-23-90 501U Solu **TURN AROUND TIME:** 124 hr. []48 hr. []2 Weeks []Normel []Other $\mathbb{Z}_{\mathcal{K}}$ 6-2891 Time Kezania SAMPLE CONDITION/INTEGRITY: 1910 COOL? YES NO Relinquished by (Signature) Received by (Signature) Date **REMARKS/SPECIAL INSTRUCTIONS: Printed Name** Time Printed Name Time



June 28, 1994

David Welch
Environmental Management Resources
2509 152nd Avenue N.E.
Suite B
Redmond, WA 98052-5551

Dear David:

Enclosed are the analytical results of samples submitted on June 24, 1994 from project Benenson/Bellevue, 1153.

If you have any questions regarding this report or if you need any other assistance, please do not hesitate to call me.

Sincerely,

Cynthia Rezania Project Chemist

CLR/lh



Client:	Environmental Management Resources	Date Sampled:	June 24, 1994	
	Benenson/Bellevue	Date Received:	June 24, 1994	
Project Number:	1153	Date Extracted:	June 27, 1994	
Client Sample ID:	STP-1	Date Analyzed:	June 27, 1994	
Laboratory Batch #	01392	Sample Matrix:	Soil	
Units:	mg/kg	Dilution Factor:	1	
Analyte	Sample Result	Notes	Reporting Limit	_
Acetone	N.D.		2	
Acrolein	N.D.		2	
Acrylonitrile	N.D.		2	
Benzene	N.D.		0.2	
Bromobenzene	N.D.		0.2	
Bromochloromethane	N.D.		0.4	
Bromodichloromethane	N.D.		0.2	
Bromoform	N.D.		0.4	
Bromomethane	N.D.		0.4	
n-Butylbenzene	N.D.		0.2	
sec-Butylbenzene	N.D.		0.2	
tert-Butylbenzene	N.D.		0.2	
Carbon Disulfide	N.D.		1	
Carbon tetrachloride	N.D.		0.2	
Chlorobenzene	N.D.		0.2	
Chloroethane	N.D.		0.2	
2-Chloroethyl vinyl ethe	er N.D.		1	
Chloroform	N.D.		0.2	
Chloromethane	N.D.		0.2	
2-Chlorotoluene	N.D.		0.2	
4-Chlorotoluene	N.D.		0.2	
Dibromochloromethane	N.D.		0.4	
1,2-Dibromo-3-chloropa	ropane N.D.		0.5	
1,2-Dibromoethane	N.D.		0.4	
Dibromomethane	N.D.		0.4	
1,2-Dichlorobenzene	N.D.		0.2	

Notes

1,3-Dichlorobenzene

1,4-Dichlorobenzene

1,1-Dichloroethane 1,2-Dichloroethane

1,1-Dichloroethene cis-1,2-Dichloroethene

1,2-Dichloropropane

1,3-Dichloropropane

Dichlorodifluoromethane

trans-1,2-Dichloroethene

N.D.-Not detected above the reporting limit.

N.D.

N.D.

N.D.

N.D.

N.D.

N.D.

N.D.

N.D.

N.D. N.D. 0.2

0.2

0.4

0.2

0.2 0.2

0.2

0.2

0.2

0.4



Client:	Environmental Management	nt Resources	Date Sampled:	June 24, 1994
Project Name:	Benenson/Bellevue		Date Received:	June 24, 1994
Project Number:	1153		Date Extracted:	June 27, 1994
Client Sample ID:	STP-1		Date Analyzed:	June 27, 1994
Laboratory Batch #	01392		Sample Matrix:	Soil
Units:	mg/kg		Dilution Factor:	1
Analyte	Sa	mple Result	Notes	Reporting Limit
2,2-Dichloropropane		N.D.		0.4
1,1-Dichloropropene		N.D.		0.2
cis-1,3-Dichloroprope	ene	N.D.		0.2
trans-1,3-Dichloropro	ppene	N.D.		0.2
Ethylbenzene	-	N.D.		0.2
Hexachlorobutadiene		N.D.		0.2
2-Hexanone		ND		2

		_
Isopropylbenzene	N.D.	0.2
p-Isopropyltoluene	N.D.	0.2
MEK	N.D.	2
Methylene chloride	N.D.	0.4
MIBK	N.D.	2
Naphthalene	N.D.	0.2
n-Propylbenzene	N.D.	0.2
Styrene	N.D.	0.2
1,1,1,2-Tetrachloroethane	N.D.	0.2
1,1,2,2-Tetrachloroethane	N.D.	0.4
Tetrachloroethene	0.28	0.2
Toluene	N.D.	0.4
1,2,3-Trichlorobenzene	N.D.	0.4
1,2,4-Trichlorobenzene	N.D.	0.4
1,1,1-Trichloroethane	N.D.	0.2
1,1,2-Trichloroethane	N.D.	0.4
Trichloroethene	N.D.	0.2
Trichlorofluoromethane	N.D.	0.2
1,2,3-Trichloropropane	N.D.	0.4

Surrogate Recoveries	Recovery	Notes	Acceptance Range
Toluene-d8	100%	•	81%-117%
4-Bromofluorobenzene	100%		74%-121%
Dibromofluoromethane	105%		80%-120%

N.D.

N.D.

N.D.

N.D.

N.D.

N.D.

0.2

0.2

1

1

0.4

0.2

Notes

1,2,4-Trimethylbenzene

1,3,5-Trimethlybenzene

Vinyl Acetate

Vinyl chloride

m,p,-Xylene

o-Xylene



Client: Environmental Management Resources

Project Name: Benenson/Bellevue Date Extracted: June 27, 1994
Project Number: 1153 Date Analyzed: June 27, 1994

Laboratory Batch # 01392 Dilution Factor: 1

Sample ID: Method Blank Units: mg/kg Sample Result Notes Reporting Limit Analyte 2 Acetone N.D. 2 N.D. Acrolein 2 Acrylonitrile N.D. 0.2 N.D. Benzene 0.2 Bromobenzene N.D. 0.4 Bromochloromethane N.D. Bromodichloromethane 0.2 N.D. N.D. 0.4 **Bromoform** Bromomethane N.D. 0.4 N.D. 0.2 n-Butylbenzene sec-Butylbenzene N.D. 0.2 tert-Butylbenzene N.D. 0.2 Carbon Disulfide N.D. I 0.2 Carbon tetrachloride N.D. 0.2 Chlorobenzene N.D. 0.2 Chloroethane N.D. ₹. 1 2-Chloroethyl vinyl ether N.D. 0.2 Chloroform N.D. Chloromethane N.D. 0.2 0.2 2-Chlorotoluene N.D. 4-Chlorotoluene N.D. 0.2 0.4 Dibromochloromethane N.D. 0.5 1,2-Dibromo-3-chloropropane N.D. N.D. 0.4 1,2-Dibromoethane N.D. 0.4 Dibromomethane 0.2 1,2-Dichlorobenzene N.D. 0.2 1,3-Dichlorobenzene N.D. N.D. 0.2 1.4-Dichlorobenzene 0.4 Dichlorodifluoromethane N.D. 1.1-Dichloroethane N.D. 0.2 N.D. 0.2 1,2-Dichloroethane 1,1-Dichloroethene N.D. 0.2 0.2 cis-1,2-Dichloroethene N.D. 0.2 trans-1,2-Dichloroethene N.D. 1,2-Dichloropropane N.D. 0.2 0.4 1,3-Dichloropropane N.D.

Notes



Client:	Environmental	Management Resources
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Project Name: Benenson/Bellevue Date Extracted: June 27, 1994
Project Number: Date Analyzed: June 27, 1994

Laboratory Batch # 01392 Dilution Factor: 1
Sample ID: Method Blank Units: mg/kg

oumpie xp.	MICHOW ANGEN	Cuits
Analyte	Sample Result	Notes Reporting Limit
2,2-Dichloropropane	N.D.	0.4
1,1-Dichloropropene	N.D.	0.2
cis-1,3-Dichloropropene	N.D.	0.2
trans-1,3-Dichloropropene	N.D.	0.2
Ethylbenzene	N.D.	0.2
Hexachlorobutadiene	N.D.	0.2
2-Hexanone	N.D.	2
Isopropylbenzene	N.D.	0.2
p-Isopropyltoluene	N.D.	0.2
MEK	N.D.	2
Methylene chloride	N.D.	0.4
MIBK	N.D.	2
Naphthalene	N.D.	0.2
n-Propylbenzene	N.D.	0.2
Styrene	N.D.	0,2
1,1,1,2-Tetrachloroethane	N.D.	0.2
1,1,2,2-Tetrachloroethane	N.D.	0.4
Tetrachloroethene	N.D.	0.2
Foluene	N.D.	0.4
1,2,3-Trichlorobenzene	N.D.	0.4
1,2,4-Trichlorobenzene	N.D.	0.4
l,1,1-Trichloroethane	N.D.	0.2
1,1,2-Trichloroethane	N.D.	0.4
Frichloroethene	N.D.	0.2
Frichlorofluoromethane	N.D.	0.2
1,2,3-Trichloropropane	N.D.	0.4
1,2,4-Trimethylbenzene	N.D.	0.2
1,3,5-Trimethlybenzene	N.D.	0.2
Vinyl Acetate	N.D.	1
Vinyl chloride	N.D.	1
m,p,-Xylene	N.D.	0.4
o-Xylene	N.D.	0.2

Surrogate Recoveries	Recovery	Notes	Acceptance Range
Toluene-d8	102%		81% - 117%
4-Bromofluorobenzene	98%		74% - 121%
Dibromofluoromethane	103%		80% - 120%

Notes



Client:

Environmental Management Resources

Project Name:

Benenson/Bellevue

Project Number: Laboratory Batch # 1153

01392

Date Extracted: Date Analyzed: June 27, 1994

June 27, 1994

Dilution Factor:

Batch Sample ID: 01392QA				Units:	mg/kg
	Reporting	Sample	Duplicate		Acceptance
Analyte	Limit	Result	Result	RPD	Limit
Acetone	2	N.D.	N.D.		30%
Acrolein	2	N.D.	N.D.		30%
Acrylonitrile	2	N.D.	N.D.		30%
Benzene	0.2	N.D.	N.D.		30%
Bromobenzene	0.2	N.D.	N.D.		30%
Bromochloromethane	0.4	N.D.	N.D.		30%
Bromodichloromethane	0.4	N.D. N.D.	N.D.		30%
Bromodichioromethane Bromoform	0.2	N.D. N.D.	N.D. N.D.		30% 30%
					30% 30%
Bromomethane	0.4	N.D.	N.D.		
n-Butylbenzene	0.2	N.D.	N.D.	••	30%
sec-Butylbenzene	0.2	N.D.	N.D.		30%
tert-Butylbenzene	0.2	N.D.	N.D.		30%
Carbon Disulfide	1	N.D.	N.D.		30%
Carbon tetrachloride	0.2	N.D.	N.D.		30%
Chlorobenzene	0.2	N.D.	N.D.		30%
Chloroethane	0.2	N.D.	N.D.		30%
2-Chloroethyl vinyl ether	1	N.D.	N.D.	40-00	30%
Chloroform	0.2	N.D.	N.D.		30%
Chloromethane	0.2	N.D.	N.D.		30%
2-Chlorotoluene	0.2	N.D.	N.D.		30%
4-Chlorotoluene	0.2	N.D.	N.D.		30%
Dibromochloromethane	0.4	N.D.	N.D.		30%
1,2-Dibromo-3-chloropropane	0.5	N.D.	N.D.		30%
1,2-Dibromoethane	0.4	N.D.	N.D.		30%
Dibromomethane	0.4	N.D.	N.D.	=	30%
1,2-Dichlorobenzene	0.2	N.D.	N.D.		30%
1,3-Dichlorobenzene	0.2	N.D.	·· N.D.		30%
1,4-Dichlorobenzene	0.2	N.D.	N.D.		,30%
Dichlorodifluoromethane	0.4	N.D.	N.D.		30%
1,1-Dichloroethane	0.2	N.D.	N.D.		30%
1,2-Dichloroethane	0.2	N.D.	N.D.		30%
1,1-Dichloroethene	0.2	N.D.	N.D.		30%
cis-1,2-Dichloroethene	0.2	N.D.	N.D.		30%
trans-1,2-Dichloroethene	0.2	N.D.	N.D.		30%
1,2-Dichloropropane	0.2	N.D.	N.D.		30%
1,3-Dichloropropane	0.4	N.D.	N.D.	••	30%
Notes					



Client:

Environmental Management Resources

Project Name:

Benenson/Bellevue

Project Number:

01392

1153

Date Extracted: Date Analyzed:

June 27, 1994 June 27, 1994

Dilution Factor:

1

Laboratory Batch # **Batch Sample ID:**

01392QA Units: mg/kg

	Reporting	Sample	Duplicate		Acceptance
Analyte	Limit	Result	Result	RPD	Limit
2,2-Dichloropropane	0.4	N.D.	N.D.		30%
1,1-Dichloropropene	0.2	N.D.	N.D.		30%
cis-1,3-Dichloropropene	0.2	N.D.	N.D.		30%
trans-1,3-Dichloropropene	0.2	N.D.	N.D.		30%
Ethylbenzene	0.2	N.D.	N.D.		30%
Hexachlorobutadiene	0.2	N.D.	N.D.		30%
2-Hexanone	2	N.D.	N.D.		30%
sopropylbenzene	0.2	N.D.	N.D.		30%
o-Isopropyltoluene	0.2	N.D.	N.D.		30%
MEK	2	N.D.	2.1	N.A.	30%
Methylene chloride	0.4	N.D.	N.D.		30%
MIBK	2	N.D.	N.D.		30%
Naphthalene	0.2	N.D.	N.D.		30%
n-Propylbenzene	0.2	N.D.	N.D.		30%
Styrene	0.2	N.D.	N.D.		30%
,1,1,2-Tetrachloroethane	0.2	N.D.	N.D.		30%
1,1,2,2-Tetrachloroethane	0.4	N.D.	N.D.	••	30%
Tetrachloroethene	0.2	0.34	0.34	< 1% A	30%
l'oluene	0.4	N.D.	N.D.	 .	30%
1,2,3-Trichlorobenzene	0.4	N.D.	N.D.		30%
,2,4-Trichlorobenzene	0.4	N.D.	N.D.		30%
l,1,1-Trichloroethane	0.2	N.D.	N.D.		30%
,1,2-Trichloroethane	0.4	N.D.	N.D.		30%
Crichloroethene	0.2	N.D.	N.D.		30%
Frichlorofluoromethane	0.2	N.D.	N.D.		30%
,2,3-Trichloropropane	0.4	N.D.	N.D.	==	30%
,2,4-Trimethylbenzene	0.2	N.D.	N.D.		30%
,3,5-Trimethlybenzene	0.2	N.D.	N.D.		30%
/inyl Acetate	1	N.D.	N.D.		30%
/inyl chloride	1 .	N.D.	N.D.		30%
n,p,-Xylene	0.4	N.D.	N.D.		30%
-Xylene	0.2	N.D.	N.D.		30%

Notes

A.- Data from matrix spike analyses.

N.D.-Not detected above the reporting limit.

N.A. - Not available due to low analyte concentration.



Client: **Environmental Management Resources**

Project Name: Benenson/Bellevue

01392

Date Extracted: June 27, 1994 Project Number: 1153 Date Analyzed: June 27, 1994

Laboratory Batch # Dilution Factor: 1

Batch Sample ID:	01392QA				Units:	mg/kg
	Spike	Spike	Acceptance	Spike Dup		Acceptance
Analyte	Added	Recovery	Range	Recovery	RPD	Limit
1,1-Dichloroethene	5	71%	59% - 172%	71%	< 1%	22%
Benzene	5	88%	66% - 142%	88%	< 1%	21%
Trichloroethene	5	86%	62% - 137%	85%	1%	24%
Toluene	5	91%	59% - 139%	90%	1%	21%
Chlorobenzene	5	92%	60% - 133%	92%	< 1%	21%



1,4-Dichlorobenzene

1,2-Dichloroethane

1,1-Dichloroethene

Tetrachloroethylene

Trichloroethylene

Vinyl Chloride

EPA 1311/8240 TCLP Volatiles

Client:	Environmental Management Resources	Date Sampled:	June 24, 1994
Project Name:	Benenson/Bellevue	Date Received:	June 24, 1994
Project Number:	1153	Date Extracted:	June 27, 1994
Client Sample ID:	STP-1	Date Analyzed:	June 28, 1994
Laboratory Batch #	01392	Dilution Factor:	Soil
Sample Matrix:	Leachate	Units:	mg/L
Analyte	Sample Result	Notes	Reporting Limit
Analyte Benzene	Sample Result N.D.	Notes	Reporting Limit 0.001
		Notes	
Benzene	N.D.	Notes	0.001

0.001

0.001

0.001

0.001

0.001

0.005

N.D.

N.D.

N.D.

0.025

N.D.

N.D.

Surrogate Recoveries	Recovery	Notes	Acceptance Range
Toluene-d8	102%		81%-117%
4-Bromofluorobenzene	102%		74%-121%
Dibromofluoromethane	105%		80%-120%

Notes



EPA 1311/8240 TCLP Volatiles Quality Control Data

Client: Environmental Management Resources

Project Name: Benenson/Bellevue Date Extracted: June 27, 1994
Project Number: 1153 Date Analyzed: June 28, 1994

Laboratory Batch # 01392 Dilution Factor: I

Sample ID:	Method Blank	Units:	mg/L
Analyte	Sample Result	Notes	Reporting Limit
Benzene	N.D.		0.001
Carbon tetrachloride	N.D.		0.001
Chlorobenzene	N.D.		0.001
Chloroform	N.D.		0.001
1,4-Dichlorobenzene	N.D.		0.001
1,2-Dichloroethane	N.D.		0.001
1,1-Dichloroethene	N.D.		0.001
Tetrachloroethylene	N.D.		0.001
Trichloroethylene	N.D.		0.001
Vinyl Chloride	N.D.		0.005

Surrogate Recoveries	Recovery	Notes	Acceptance Range
Toluene-D8	103%		88% - 110%
4-Bromofluorobenzene	103%		86% - 115%
Dibromofluoromethane	107%		86% - 118%

Notes



EPA 1311/8240 TCLP Volatiles, continued Quality Control Data

Client:

Environmental Management Resources

Project Name:

Benenson/Bellevue

Date Extracted:

June 27, 1994

Project Number:

1153

Date Analyzed:

June 28, 1994

Laboratory Batch #

01392

Dilution Factor:

Units:

1

mg/L

Batch Sample ID: 0

01392QA

					
ı	Reporting	Sample	Duplicate		Acceptance
Analyte	Limit	Result	Result	RPD	Limit
Benzene	0.001	N.D.	N.D.		25%
Carbon tetrachloride	0.001	N.D.	N.D.		25%
Chlorobenzene	0.001	N.D.	N.D.		25%
Chloroform	0.001	0.0058	0.0057	2%	25%
1,4-Dichlorobenzene	0.001	N.D.	N.D.		25%
1,2-Dichloroethane	0.001	N.D.	N.D.		25%
1,1-Dichloroethene	0.001	N.D.	N.D.		25%
Tetrachloroethylene	0.001	0.025	0.026	4%	25%
Trichloroethylene	0.001	N.D.	N.D.		25%
Vinyl Chloride	0.005	N.D.	N.D.		25%

Notes





EPA 1311/8240 TCLP Volatiles, continued

Quality Control Data

Client:

Environmental Management Resources

Project Name:

Benenson/Bellevue

Date Extracted:

June 27, 1994

Project Number:

1153

Date Analyzed:

June 28, 1994

Laboratory Batch #

01392

Dilution Factor:

June 26, 19:

Batch Sample ID:

01392OA

Units.

mg/L

Batch Sample 11):	01392QA				Onits:	mgr_
	Spike	Spike	Acceptance	Spike Dup		Acceptance
Analyte	Added	Recovery	Range	Recovery	RPD_	Limit
Benzene	0.050	87%	76% - 127%	86%	1%	11%
Trichloroethene	0.050	86%	71% - 120%	84%	2%	14%
Chlorobenzene	0.050	90%	75% - 130%	92%	2%	13%



Moisture Content Report

Client:

Environmental Management Resources

Project Name: Project Number: Benenson/Bellevue

Laboratory Batch #

1153

Units:

01392

% Moisture

Date Sampled:

4

June 24, 1994 June 24, 1994

Date Received: Date Analyzed:

June 28, 1994

Sample Matrix:

Soil

Client Sample ID

Sample Result

Notes

Reporting Limit

STP-1

7%

1%

RECORD



ENVIRONMENTAL MANAGEMENT RESOURCES ENVIRONMENTAL MANAGEMENT RESOURCES, INC. 624/8240 2509 152nd Avenue NE, Suite B, Redmond, WA 98052 (206) 861-4561 FAX (206) 869-7820 REPORT TO: DAVID (VOLATILE AROMATICS SEMIVOLATILES (BNA) PAGE OF PROJECT NAME: PESTICIDES/PCBs WTPH-G w/BTEX PAH 610/8100 PROJECT NO .: WTPH-418.1 LABORATORY: WTPH-D OTHER: OTHER: # OF SAMPLE IDENTIFICATION DATE TIME MATRIX PRESERV. LAB# CONT'S STP-6-24-94 4:00/ Soil 2 Received by (Signature) TURN AROUND TIME: [] 24 hr. | [] 2 Weeks [] Normal [] Other 6-24-84 SAMPLE CONDITION/INTEGRITY: L154 COOL? YES NO Relinquished by (Signature) Received by (Signature) **REMARKS/SPECIAL INSTRUCTIONS: Printed Name** Printed Name



July 14, 1994

David Welch
Environmental Management Resources
2509 152nd Avenue N.E.
Suite B
Redmond, WA 98052-5551

Dear David:

Enclosed are the analytical results of samples submitted on July 11, 1994 from project Benenson/Bellevue, 1153.

If you have any questions regarding this report or if you need any other assistance, please do not hesitate to call me.

Sincerely,

Cynthia Rezania Project Chemist

CLR/lh



Client:	Environmental Mana	agement Resources	Date Sampled:	July 11, 1994
Project Name:	Benenson/Bellevue		Date Received:	July 11, 1994
Project Number:	1153		Date Extracted:	July 11, 1994
Client Sample ID:	PX-1		Date Analyzed:	July 11, 1994
Laboratory Batch #	01427		Sample Matrix:	Soil
Units:	mg/kg		Dilution Factor:	1
Analyte		Sample Result	Notes	Reporting Limit
Acetone		N.D.		2
Acrolein		N.D.		2
Acrylonitrile		N.D.		2
Benzene		N.D.		0.2
Bromobenzene		N.D.		0.2
Bromochloromethane		N.D.		0.4
Bromodichloromethan	e	N.D.		0.2
Bromoform		N.D.		0.4
Bromomethane		N.D.		0.4
n-Butylbenzene		N.D.		0.2
sec-Butylbenzene	•	N.D.		0.2
tert-Butylbenzene		N.D.		0.2
Carbon Disulfide		N.D.		1
Carbon tetrachloride		N.D.		0.2
Chlorobenzene		N.D.		0.2
Chloroethane		N.D.		0.2
2-Chloroethyl vinyl etl	her	N.D.		1
Chloroform		N.D.		0.2
Chloromethane		N.D.		0.2
2-Chlorotoluene		N.D.		0.2
4-Chlorotoluene		N.D.		0.2
Dibromochloromethan	ie	N.D.		0.4
1,2-Dibromo-3-chlorop	propane	N.D.		0.5
1,2-Dibromoethane	· -	N.D.		0.4
Dibromomethane		N.D.		0.4
1,2-Dichlorobenzene		N.D.		0.2
1,3-Dichlorobenzene		N.D.		0.2
1,4-Dichlorobenzene		N.D.		0.2
Dichlorodifluorometha	ane	N.D.		0.4
1,1-Dichloroethane		N.D.		0.2
4 6 72 1 1 1		NTD		0.3

Note:

1,2-Dichloroethane

1,1-Dichloroethene

cis-1,2-Dichloroethene

1,2-Dichloropropane

1,3-Dichloropropane

trans-1,2-Dichloroethene

N.D.-Not detected above the reporting limit.

N.D.

N.D.

N.D.

N.D.

N.D.

N.D.

0.2

0.2

0.2

0.2

0.2

0.4



Client:	Environmental Management Resources	Date Sampled:	July 11, 1994
Project Name:	Benenson/Bellevue	Date Received:	July 11, 1994
Project Number:	1153	Date Extracted:	July 11, 1994
Client Sample ID:	PX-1	Date Analyzed:	July 11, 1994
Laboratory Batch #	01427	Sample Matrix:	Soil
Units:	mg/kg	Dilution Factor:	1
Analyte	Sample Result	Notes	Reporting Limit
2,2-Dichloropropane	N.D.		0.4
1,1-Dichloropropene	N.D.		0.2
cis-1,3-Dichloroprope			0.2
trans-1,3-Dichloropro	•		0.2
Ethylbenzene	N.D.		0.2
Hexachlorobutadiene	N.D.		0.2
2-Hexanone	N.D.		2
Isopropylbenzene	N.D.		0.2
p-Isopropyltoluene	N.D.		0.2
MEK	N.D.		2
Methylene chloride	N.D.		0.4
MIBK	N.D.		2
Naphthalene	N.D.		0.2
n-Propylbenzene	N.D.		0.2
Styrene	N.D.		0.2
1,1,1,2-Tetrachloroeth	ane N.D.		0.2
1,1,2,2-Tetrachloroeth	ane N.D.		0.4
Tetrachloroethene	0.62		0.2
Toluene	N.D.		0.4
1,2,3-Trichlorobenzen			0.4
1,2,4-Trichlorobenzen			0.4
1,1,1-Trichloroethane	N.D.		0.2
1,1,2-Trichloroethane	N.D.		0.4
Trichloroethene	N.D.		0.2
Trichlorofluoromethar			0.2
1,2,3-Trichloropropan			0.4
1,2,4-Trimethylbenzer			0.2
1,3,5-Trimethlybenzer	ne N.D.		0.2
Vinyl Acetate	N.D.		1
Vinyl chloride	N.D.		1
m,p,-Xylene	N.D.		0.4

Surrogate Recoveries	Recovery	Notes	Acceptance Range
Toluene-d8	100%		81%-117%
4-Bromofluorobenzene	100%		74%-121%
Dibromofluoromethane	103%		80%-120%

N.D.

0.2

Notes

o-Xylene



Units:	mg/kg	Dilution Factor:	1
	-	Wilnest - To steen	1
Laboratory Batch #	01427	Sample Matrix:	
Client Sample ID:	PX-2	Date Analyzed:	July 11, 1994
Project Number:	1153	Date Extracted:	July 11, 1994
Project Name:	Benenson/Bellevue	Date Received:	July 11, 1994
Client:	Environmental Management Resource	——————————————————————————————————————	July 11, 1994

Units: mg/kg	mg/kg Dildion rac			
Analyte	Sample Result	Notes	Reporting Limit	
Acetone	N.D.		2	
Acrolein	N.D.		2	
Acrylonitrile	N.D.		2	
Benzene	N.D.		0.2	
Bromobenzene	N.D.		0.2	
Bromochloromethane	N.D.		0.4	
Bromodichloromethane	N.D.		0.2	
Bromoform	N.D.		0.4	
Bromomethane	N.D.		0.4	
n-Butylbenzene	N.D.		0.2	
sec-Butylbenzene	N.D.		0.2	
tert-Butylbenzene	N.D.		0.2	
Carbon Disulfide	N.D.		1	
Carbon tetrachloride	N.D.		0.2	
Chlorobenzene	N.D.		0.2	
Chloroethane	N.D.		0.2	
2-Chloroethyl vinyl ether	N.D.		1	
Chloroform	N.D.		0.2	
Chloromethane	N.D.		0.2	
2-Chlorotoluene	N.D.		0.2	
4-Chlorotoluene	N.D.		0.2	
Dibromochloromethane	N.D.		0.4	
1,2-Dibromo-3-chloropropane	N.D.		0.5	
1,2-Dibromoethane	N.D.		0.4	
Dibromomethane	N.D.		0.4	
1,2-Dichlorobenzene	N.D.		0.2	
1,3-Dichlorobenzene	N.D.		0.2	
1,4-Dichlorobenzene	N.D.		0.2	
Dichlorodifluoromethane	N.D.		0.4	
1,1-Dichloroethane	N.D.		0.2	
1,2-Dichloroethane	N.D.		0.2	
1,1-Dichloroethene	N.D.		0.2	
cis-1,2-Dichloroethene	N.D.		0.2	
trans-1,2-Dichloroethene	N.D.		0.2	
1,2-Dichloropropane	N.D.		0.2	
1,3-Dichloropropane	N.D.		0.4	

Notes







Client:	Environmental Management Resources	Date Sampled:	July 11, 1994
Project Name:	Benenson/Bellevue	Date Received:	July 11, 1994
Project Number:	1153	Date Extracted:	July 11, 1994
Client Sample ID:	PX-2	Date Analyzed:	July 11, 1994
Laboratory Batch #	01427	Sample Matrix:	Soil
Units:	mg/kg	Dilution Factor:	1
Aпаlyte	Sample Result	Notes	Reporting Limit
2,2-Dichloropropane	N.D.		0.4
1,1-Dichloropropene	N.D.		0.2
cis-1,3-Dichloroproper			0.2
rans-1,3-Dichloroprop	ene N.D.		0.2
Ethylbenzene	N.D.		0.2
Hexachlorobutadiene	N.D.		0.2
2-Hexanone	N.D.		2
sopropylbenzene	N.D.		0.2
o-Isopropyltoluene	N.D.		0.2
MEK	N.D.		2
Methylene chloride	N.D.		0.4
MIBK	N.D.		2
Vaphthalene	N.D.		0.2
n-Propylbenzene	N.D.		0.2
Styrene	N.D.		0.2
,1,1,2-Tetrachloroetha	nne N.D.		0.2
,1,2,2-Tetrachloroetha	nne N.D.		0.4
Tetrachloroethene	0.36		0.2
Toluene	N.D.		0.4
,2,3-Trichlorobenzene	N.D.		0.4
,2,4-Trichlorobenzene	N.D.		0.4
,1,1-Trichloroethane	N.D.		0.2
,1,2-Trichloroethane	N.D.		0.4
Trichloroethene	N.D.		0.2
Crichlorofluoromethan			0.2
,2,3-Trichloropropane			0.4
,2,4-Trimethylbenzene	N.D.		0.2
,3,5-Trimethlybenzene	N.D.		0.2
Vinyl Acetate	N.D.		1
/inyl chloride	N.D.		1
n,p,-Xylene	N.D.		0.4
-Xylene	N.D.		0.2
urrogate Recoveries	Recovery	Notes	Acceptance Range
'oluene-d8	99%		81%-117%
-Bromofluorobenzene	98%		74%-121%
Dibromofluoromethane	102%		80%-120%



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Client:	Environmental Management Resources	Date Sampled:	July 11, 1994
Project Name:	Benenson/Bellevue	Date Received:	July 11, 1994
Project Number:	1153	Date Extracted:	July 11, 1994
Client Sample ID:	PX-3	Date Analyzed:	July 11, 1994
Laboratory Batch #	01427	Sample Matrix:	Soil
Units:	mg/kg	Dilution Factor:	1

Analyte	Sample Result	Notes	Reporting Limit
	-		_
Acetone	N.D.		2
Acrolein	N.D.		2
Acrylonitrile	N.D.	•	2
Benzene	N.D.		0.2
Bromobenzene	N.D.		0.2
Bromochloromethane	N.D.		0.4
Bromodichloromethane	N.D.		0.2
Bromoform	N.D.		0.4
Bromomethane	N.D.		0.4
n-Butylbenzene	N.D.		0.2
sec-Butylbenzene	N.D.		0.2
tert-Butylbenzene	N.D.		0.2
Carbon Disulfide	N.D.		1
Carbon tetrachloride	N.D.		0.2
Chlorobenzene	N.D.		0.2
Chloroethane	N.D.		0.2
2-Chloroethyl vinyl ether	N.D.		1
Chloroform	N.D.		0.2
Chloromethane	N.D.		0.2
2-Chlorotoluene	N.D.		0.2
4-Chlorotoluene	N.D.		0.2
Dibromochloromethane	N.D.		0.4
1,2-Dibromo-3-chloropropane	N.D.		0.5
1,2-Dibromoethane	N.D.		0.4
Dibromomethane	N.D.		0.4
1,2-Dichlorobenzene	N.D.		0.2
1,3-Dichlorobenzene	N.D.		0.2
1,4-Dichlorobenzene	N.D.		0.2
Dichlorodifluoromethane	N.D.		0.4
1,1-Dichloroethane	N.D.		0.2
1,2-Dichloroethane	N.D.		0.2
1,1-Dichloroethene	N.D.		0.2
cis-1,2-Dichloroethene	N.D.		0.2
trans-1,2-Dichloroethene	N.D.		0.2
1,2-Dichloropropane	N.D.		0.2
1,3-Dichloropropane	N.D.		0.4
Notes	•		



Client:	Environmental Manag	gement Resources	Date Sampled:	July 11, 1994
Project Name:	Benenson/Bellevue		Date Received:	July 11, 1994
Project Number:	1153		Date Extracted:	July 11, 1994
Client Sample ID:	PX-3		Date Analyzed:	July 11, 1994
Laboratory Batch #	01427		Sample Matrix:	Soil
Units:	mg/kg		Dilution Factor:	1
Analyte		Sample Result	Notes	Reporting Limit
2,2-Dichloropropane		N.D.		0.4
1,1-Dichloropropene		N.D.		0.2
cis-1,3-Dichloroprope		N.D.		0.2
trans-1,3-Dichloropro	pene	N.D.		0.2
Ethylbenzene		N.D.		0.2
Hexachlorobutadiene		N.D.		0.2
2-Hexanone		N.D.		2
Isopropylbenzene		N.D.		0.2
p-Isopropyltoluene		N.D.		0.2
MEK		N.D.		2
Methylene chloride		N.D.		0.4
MIBK		N.D.		2
Naphthalene		N.D.		0.2
n-Propylbenzene		N.D.		0.2
Styrene		N.D.		0.2
1,1,1,2-Tetrachloroeth	ane	N.D.		0.2
1,1,2,2-Tetrachloroeth	ane	N.D.		0.4
Tetrachloroethene		0.22		0.2
Toluene		N.D.		0.4
1,2,3-Trichlorobenzen	e	N.D.		0.4
1,2,4-Trichlorobenzen	e	N.D.		0.4
1,1,1-Trichloroethane		N.D.		0.2
1,1,2-Trichloroethane		N.D.		0.4
Trichloroethene		N.D.		0.2
Trichlorofluoromethar	ne	N.D.		0.2
1,2,3-Trichloropropan	e	N.D.		0.4
1,2,4-Trimethylbenzer	ne	N.D.		0.2
1,3,5-Trimethlybenzer	ne	N.D.		0.2
Vinyl Acetate		N.D.		1
Vinyl chloride		N.D.		1
m,p,-Xylene		N.D.		0.4
o-Xylene		N.D.		0.2
Surrogate Recoveries		Recovery	Notes	Acceptance Range
Foluene-d8		98%		81%-117%
4-Bromofluorobenzene		97%		74%-121%
Dibromofluoromethan	е	99%		80%-120%
Notes				



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Units. mg/kg	Diddon 1 detoi. 1		<u> </u>
Analyte	Sample Result	Notes	Reporting Limit
Acetone	N.D.		2
Acrolein	N.D.		2
Acrylonitrile	N.D.		2
Benzene	N.D.		0.2
Bromobenzene	N.D.		0.2
Bromochloromethane	N.D.	÷	0.4
Bromodichloromethane	N.D.		0.2
Bromoform	N.D.		0.4
Bromomethane	N.D.		0.4
n-Butylbenzene	N.D.		0.2
sec-Butylbenzene	N.D.		0.2
tert-Butylbenzene	N.D.		0.2
Carbon Disulfide	N.D.		1
Carbon tetrachloride	N.D.		.0.2
Chlorobenzene	N.D.		0.2
Chloroethane	N.D.		0,2
2-Chloroethyl vinyl ether	N.D.		1
Chloroform	N.D.		0.2
Chloromethane	N.D.		0.2
2-Chlorotoluene	N.D.		0.2
4-Chlorotoluene	N.D.		0.2
Dibromochloromethane	N.D.		0.4
1,2-Dibromo-3-chloropropane	N.D.		0.5
1,2-Dibromoethane	N.D.		0.4
Dibromomethane	N.D.		0.4
1,2-Dichlorobenzene	N.D.		0.2
1,3-Dichlorobenzene	N.D.		0.2
1,4-Dichlorobenzene	N.D.		0.2
Dichlorodifluoromethane	N.D.		0.4
1,1-Dichloroethane	N.D.		0.2
1,2-Dichloroethane	N.D.		0.2
1,1-Dichloroethene	N.D.		0.2
cis-1,2-Dichloroethene	N.D.		0.2
trans-1,2-Dichloroethene	N.D.		0.2
1,2-Dichloropropane	N.D.		0.2
1,3-Dichloropropane	N.D.		0.4



Client:	Environmental Manage	ement Resources	Date Sampled:	July 11, 1994
Project Name:	Benenson/Bellevue		Date Received:	July 11, 1994
Project Number:	1153		Date Extracted:	July 11, 1994
Client Sample ID:	PX-4		Date Analyzed:	July 11, 1994
Laboratory Batch #	01427		Sample Matrix:	Soil
Units:	mg/kg		Dilution Factor:	1
Analyte		Sample Result	Notes	Reporting Limit
2,2-Dichloropropane		N.D.		0.4
1,1-Dichloropropene	-	N.D.		0.2
cis-1,3-Dichloroproper		N.D.		0.2
trans-1,3-Dichloroprop	pene	N.D.		0,2
Ethylbenzene		N.D.		0.2
Hexachlorobutadiene		N.D.		0.2
2-Hexanone		N.D.		2
Isopropylbenzene		N.D.		0.2
p-Isopropyltoluene	•	N.D.		0.2
MEK		N.D.		2
Methylene chloride		N.D.		0.4
MIBK		N.D.		2
Naphthalene		N.D.		0.2
n-Propylbenzene		N.D.		0.2
Styrene		N.D.		0.2
l, 1, 1, 2-Tetrachloroeth	ane	N.D.		0.2
1,1,2,2-Tetrachloroeth	ane '	N.D.		0.4
Tetrachloroethene		1.7		0.2
Toluene		N.D.		0.4
1,2,3-Trichlorobenzen	e	N.D.		0.4
1,2,4-Trichlorobenzen	e	N.D.		0.4
1,1,1-Trichloroethane		N.D.		0.2
1,1,2-Trichloroethane		N.D.		0.4
Frichloroethene		N,D.		0.2
Frichlorofluoromethan	e	N.D.		0.2
1,2,3-Trichloropropane	e	N.D.		0.4
1,2,4-Trimethylbenzen	e	N.D.		0.2
1,3,5-Trimethlybenzen	e	N.D.		0.2
Vinyl Acetate		N.D.		1
Vinyl chloride		N.D.		1
n,p,-Xylene		N.D.		0.4
o-Xylene	•	N.D.		0.2
Surrogate Recoveries		Recovery	Notes	Acceptance Range
Toluene-d8		98%		81%-117%
I-Bromofluorobenzene		98%		74%-121%
Dibromofluoromethane		100%		80%-120%



Client:	Environmental Managemen	nt Resources	Date Sampled:	July 11, 1994	·
Project Name:	Benenson/Bellevue		Date Received:	July 11, 1994	
Project Number:	1153		Date Extracted:	July 11, 1994	٠
Client Sample ID:	PX-5		Date Analyzed:	July 11, 1994	
Laboratory Batch #	01427		Sample Matrix:	Soil	
Units:	mg/kg		Dilution Factor:	1	
Analyte		ple Result	Notes	Reporting I	imit
					·
Acetone		N.D.		2	
Acrolein		N.D.		2	
Acrylonitrile		N.D.		2	
Benzene		N.D.		0.2	
Bromobenzene		N.D.		0.2	•
Bromochloromethane	;	N.D.		0.4	
Bromodichlorometha		N.D.		0.2	
Bromoform		N.D.		0.4	
Bromomethane		N.D.		0.4	
n-Butylbenzene		N.D.		0.2	
sec-Butylbenzene		N.D.		0.2	
tert-Butylbenzene		N.D.		0.2	•
Carbon Disulfide		N.D.		. 1	
Carbon tetrachloride		N.D.		0.2	
Chlorobenzene		N.D.		0.2	•
Chloroethane		N.D.		. 0.2	
2-Chloroethyl vinyl e	ther	N.D.		1 .	
Chloroform		N.D.		0.2	
Chloromethane		N.D.		0.2	
2-Chlorotoluene		N.D.		0.2	
4-Chlorotoluene		N.D.		0.2	
Dibromochlorometha	ine	N.D.		0.4	
1,2-Dibromo-3-chlor		N.D.		0.5	2
1,2-Dibromoethane	- Propaga	N.D.		0.4	
Dibromomethane		N.D.		0.4	•
1,2-Dichlorobenzene	•	N.D.		0.2	
1,3-Dichlorobenzene		N.D.		0.2	
1,4-Dichlorobenzene		N.D.		0.2	
Dichlorodifluoromet		N.D.		0.4	,
1,1-Dichloroethane		N.D.		0.2	,
1,2-Dichloroethane		N.D.		0.2	
1,1-Dichloroethene		N.D.		0.2	
cis-1,2-Dichloroethe	ne .	N.D.		0.2	-
trans-1,2-Dichloroet		N.D.		0.2	
1,2-Dichloropropane		N.D.		0.2	•
1,3-Dichloropropane		N.D.		0.4	



Client:	Environmental Management Resources	Date Sampled:	July 11, 1994
Project Name:	Benenson/Bellevue	Date Received:	July 11, 1994
Project Number:	1153	Date Extracted:	July 11, 1994
Client Sample ID:	PX-5	Date Analyzed:	July 11, 1994
Laboratory Batch #	01427	Sample Matrix:	Soil
Units:	mg/kg	Dilution Factor:	1
Analyte	Sample Result	Notes	Reporting Limit
2,2-Dichloropropane	N.D.	<u> </u>	0.4
1,1-Dichloropropene	N.D.		0.2
cis-1,3-Dichloroprope	_ ·_ ·		0.2
rans-1,3-Dichloropro	•		0.2
Ethylbenzene	N.D.		0.2
Hexachlorobutadiene	N.D.		0.2
2-Hexanone	N.D.		2
sopropylbenzene	N.D.		0.2
p-Isopropyitoluene	N.D.		0.2
MEK	N.D.		2
Methylene chloride	` N.D.		0.4
MIBK	N.D.		2
Naphthalene	N.D.		0.2
n-Propylbenzene	N.D.		0.2
Styrene	N.D.		0.2
,1,1,2-Tetrachloroetl			0.2
l,1,2,2-Tetrachloroetl	nane N.D.	•	0.4
Tetrachloroethene	N.D.		0.2
Toluene	N.D.		0.4
1,2,3-Trichlorobenzer			0.4
,2,4-Trichlorobenzer			0.4
,1,1-Trichloroethane			0.2
,1,2-Trichloroethane			0.4
Trichloroethene	N.D.		0.2
Trichlorofluoromethan			0.2
,2,3-Trichloropropan			0.4
,2,4-Trimethylbenzer			0.2
,3,5-Trimethlybenzer			0.2
/inyl Acetate	N.D.		1
/inyl chloride	N.D.		1
n,p,-Xylene	N.D.		0.4
-Xylene	N.D.		0.2
urrogate Recoveries	Recovery	Notes	Acceptance Range
'oluene-d8	99%		81%-117%
-Bromofluorobenzene			74%-121%
Dibromofluoromethan	e 103%		80%-120%



Client:	Environmental Mar	nagement Resources	Date Sampled:	July 11, 1994
Project Name:	Benenson/Bellevue		Date Received:	July 11, 1994
Project Number:	1153		Date Extracted:	July 11, 1994
Client Sample ID:	PX-6		Date Analyzed:	July 11, 1994
Laboratory Batch #	01427		Sample Matrix:	Soil
Units:	mg/kg		Dilution Factor:	1
Analyte		Sample Result	Notes	Reporting Limit
Anatana		N.D. .		2
Acetone Acrolein		N.D.		2
		N.D.		2
Acrylonitrile		N.D.		0.2
Benzene Bromobenzene		N.D. N.D.		0.2
Bromodenzene Bromochloromethane		N.D.	•	0.4
		N.D.		0.2
Bromodichloromethar	11 C	N.D. N.D.		0.4
Bromoform		N.D. N.D.		0.4
Bromomethane		N.D. N.D.		0.2
n-Butylbenzene				0.2
sec-Butylbenzene		N.D.		0.2
tert-Butylbenzene		N.D.		1
Carbon Disulfide		N.D.		
Carbon tetrachloride		N.D.		0.2
Chlorobenzene		N.D.		0.2
Chloroethane		N.D.		0.2
2-Chloroethyl vinyl e	ther	N.D.		1
Chloroform		N.D.		0.2
Chloromethane		N.D.		0.2
2-Chlorotoluene		N.D.		0.2
4-Chlorotoluene	•	N.D.		0.2
Dibromochlorometha		N.D.		0.4
1,2-Dibromo-3-chlore	opropane	N.D.		0.5
1,2-Dibromoethane	•	N.D.		0.4
Dibromomethane		N.D.		0.4
1,2-Dichlorobenzene		N.D.		0.2
1,3-Dichlorobenzene		N.D.		0.2
1,4-Dichlorobenzene		N.D.		0.2
Dichlorodifluorometl	hane	N.D.		0.4
1,1-Dichloroethane		N.D.		0.2
1,2-Dichloroethane		N.D.		0.2
1,1-Dichloroethene		N.D.		0.2
cis-1,2-Dichloroether	ne	N.D.		0.2
trans-1,2-Dichloroetl	hene	N.D.		0.2
1,2-Dichloropropane		N.D.		0.2
	;	N.D.		0.4

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Client:	Environmental Management Resources	Date Sampled:	July 11, 1994
Project Name:	Benenson/Bellevue	Date Received:	July 11, 1994
Project Number:	1153	Date Extracted:	July 11, 1994
Client Sample ID:	PX-6	Date Analyzed:	July 11, 1994
Laboratory Batch #	01427	Sample Matrix:	Soil
Units:	mg/kg	Dilution Factor:	1
Analyte	Sample Result	Notes	Reporting Limit
2,2-Dichloropropane	N.D.		0.4
1,1-Dichloropropene	N.D.		0.2
cis-1,3-Dichloroprope	ne N.D.		0.2
trans-1,3-Dichloroprop	pene N.D.		0.2
Ethylbenzene	N.D.		0.2
Hexachlorobutadiene	N.D.		0.2
2-Hexanone	N.D.		2
Isopropylbenzene	N.D.		0.2
p-Isopropyltoluene	N.D.		0.2
MEK	N.D.		2
Methylene chloride	N.D.		0.4
MIBK	N.D.		2
Naphthalene	N.D.		0,2
n-Propylbenzene	N.D.		0.2
Styrene	N.D.		0.2
1,1,1,2-Tetrachloroeth	ane N.D.		0.2
1,1,2,2-Tetrachloroeth			0.4
Tetrachloroethene	N.D.		0.2
Foluene	N.D.		0.4
1,2,3-Trichlorobenzen			0.4
1,2,4-Trichlorobenzen			0.4
1,1,1-Trichloroethane	N.D.		0.2
1,1,2-Trichloroethane	N.D.		0.4
Trichloroethene	N.D.		0.2
Trichlorofluoromethan			0.2
1,2,3-Trichloropropan			0.4
l,2,4-Trimethylbenzen			0.2
1,3,5-Trimethlybenzen			0.2
Vinyl Acetate	N.D.		1
Vinyl chloride	N.D.		1
n,p,-Xylene	N.D.		0.4
-Xylene	N.D.		0.2
Surrogate Recoveries	Recovery	Notes	Acceptance Range
Coluene-d8	101%		81%-117%
l-Bromofluorobenzene	98%		74%-121%
Dibromofluoromethane	102%		80%-120%



Client:	Environmental Management Resources	Date Sampled:	July 11, 1994
Project Name:	Benenson/Bellevue	Date Received:	July 11, 1994
Project Number:	1153	Date Extracted:	July 11, 1994
Client Sample ID:	PX-7	Date Analyzed:	July 11, 1994
Laboratory Batch #	01427	Sample Matrix:	Soil
Units:	mg/kg	Dilution Factor:	1
Analyte	Sample Result	Notes	Reporting Limit
Acetone	N.D.		2
Acrolein	N.D.		2
Acrylonitrile	N.D.		2
Benzene	N.D.		0.2
Bromobenzene	N.D.		0.2
Bromochloromethane	N.D.		0.4
Bromodichlorometha	ne N.D.		0.2
Bromoform	N.D.		0.4
Bromomethane	N.D.		0.4
n-Butylbenzene	N.D.		0.2
sec-Butylbenzene	N.D.		0.2
tert-Butylbenzene	N.D.		0.2
Carbon Disulfide	N.D.		1
Carbon tetrachloride	N.D.		0.2
Chlorobenzene	N.D.		0.2
Chloroethane	N.D.		0.2
2-Chloroethyl vinyl e	ther N.D.		1
Chloroform	N.D.		0.2
Chloromethane	N.D.		0.2
2-Chlorotoluene	N.D.		0.2
4-Chlorotoluene	N.D.		0.2
Dibromochlorometha			0.4
1,2-Dibromo-3-chlore			0.5
1,2-Dibromoethane	N.D.		0.4
Dibromomethane	N.D.		0.4
1,2-Dichlorobenzene			0.2
1,3-Dichlorobenzene			0.2
1,4-Dichlorobenzene			0.2
Dichlorodifluorometh			0.4
1.1-Dichloroethane	N.D.		0.2
1,2-Dichloroethane	· N.D.		0.2
1,1-Dichloroethene	N.D.		0.2
cis-1,2-Dichloroether			0.2
trans-1,2-Dichloroeth			0.2
1,2-Dichloropropane			0.2
1,3-Dichloropropane			0.4



Client:	Environmental Manageme	ent Resources	Date Sampled:	July 11, 1994
Project Name:	Benenson/Bellevue		Date Received:	July 11, 1994
Project Number:	1153		Date Extracted:	July 11, 1994
Client Sample ID:	PX-7		Date Analyzed:	July 11, 1994
Laboratory Batch #	01427		Sample Matrix:	Soil
Units:	mg/kg		Dilution Factor:	1
Analyte	S	ample Result	Notes	Reporting Limit
2,2-Dichloropropane		N.D.		0.4
l,1-Dichloropropene		N.D.		0.2
cis-1,3-Dichloroprope	ene	N.D.		0.2
rans-1,3-Dichloropro	pene	N.D.		0.2
Ethylbenzene		N.D.		0.2
Hexachlorobutadiene		N.D.		0.2
2-Hexanone		N.D.		2
sopropylbenzene		N.D.		0.2
-Isopropyltoluene		N.D.		0.2
MEK		N.D.		2
Methylene chloride		N.D.		0.4
MIBK		N.D.		2
Naphthalene		N.D.	ř	0.2
-Propylbenzene		N.D.		0.2
Styrene		N.D.		0.2
,1,1,2-Tetrachloroeth	nane	N.D.		0.2
,1,2,2-Tetrachloroeth	nane	N.D.		0.4
Tetrachloroethene		0.52		0.2
Toluene		N.D.	•	0.4
,2,3-Trichlorobenzen	ne	N.D.		0.4
,2,4-Trichlorobenzen	ie	N.D.		0.4
,1,1-Trichloroethane		N.D.		0.2
,1,2-Trichloroethane		N.D.		0.4
Crichloroethene		N.D.		0.2
Crichlorofluoromethar	ne	N.D.		0.2
,2,3-Trichloropropan	le .	N.D.		0.4
,2,4-Trimethylbenzer	ne	N.D.		0.2
,3,5-Trimethlybenzer	ne	N.D.		0.2
inyl Acetate		N.D.		1
/inyl chloride	•	N.D.		.1
n,p,-Xylene		N.D.		0.4
-Xylene		N.D.		0.2
vernanta Decoveries		Decovery	Notes	Acceptance Dangs

Surrogate Recoveries	Recovery	Notes	Acceptance Range
Toluene-d8	103%		81%-117%
4-Bromofluorobenzene	99%		74%-121%
Dibromofluoromethane	104%		80%-120%



Client:	Environmental M	Ianagement Resources	Date Sampled:	July 11, 1994
Project Name:	Benenson/Bellevu	_	Date Received:	July 11, 1994
Project Number:	1153		Date Extracted:	July 11, 1994
Client Sample ID:	PX-8		Date Analyzed:	July 11, 1994
Laboratory Batch #	01427		Sample Matrix:	Soil
Units:	mg/kg		Dilution Factor:	1
Analyte	шуку	Sample Result	Notes	Reporting Limit
Allalyte		Sample Result	Notes	Reporting Limit
Acetone		N.D.		2
Acrolein		N.D.		2
Acrylonitrile		N.D.		2
Benzene		N.D.		0.2
Bromobenzene		N.D.		0,2
Bromochloromethane		N.D.		0.4
Bromodichlorometha		N.D.		0.2
Bromoform	1.0	N.D.		0,4
Bromomethane		N.D.		0.4
n-Butylbenzene		N.D.		0.2
sec-Butylbenzene		N.D.		0.2
tert-Butylbenzene		N.D.		0.2
Carbon Disulfide		N.D.		1
Carbon tetrachloride		N.D.		0.2
Chlorobenzene		N.D.		0.2
Chloroethane		N.D.		0.2
2-Chloroethyl vinyl e	ther	N.D.		1
Chloroform	HICI	N.D.		0.2
Chloromethane		N.D.		0.2
2-Chlorotoluene		N.D.		0.2
4-Chlorotoluene		N.D.		0.2
Dibromochlorometha	na	N.D.		0.4
1,2-Dibromo-3-chlore		N.D.		0.5
1,2-Dibromoethane	оргоране	N.D.		0.4
Dibromomethane		N.D.		0.4
1,2-Dichlorobenzene		N.D.		0.2
1,3-Dichlorobenzene		N.D.		0.2
1,4-Dichlorobenzene		N.D.		0.2
Dichlorodifluorometh	зпе	N.D.		0:4
1,1-Dichloroethane		N.D.		0.2
1,2-Dichloroethane		N.D.		0.2
1,1-Dichloroethene		N.D.		0.2
cis-1,2-Dichloroether	1e	N.D.		0.2
trans-1,2-Dichloroeth		N.D.		0.2
1,2-Dichloropropane	ICIIC	N.D.		0.2
• •		N.D. N.D.		0.4
1,3-Dichloropropane		N.D.		0,4



Client:	Environmental Manag	ement Resources	Date Sampled:	July 11, 1994
Project Name:	Benenson/Bellevue		Date Received:	July 11, 1994
Project Number:	1153		Date Extracted:	July 11, 1994
Client Sample ID:	PX-8		Date Analyzed:	July 11, 1994
Laboratory Batch #	01427		Sample Matrix:	Soil
Units:	mg/kg		Dilution Factor:	1
Analyte		Sample Result	Notes	Reporting Limit
2,2-Dichloropropane		N.D.		0.4
1,1-Dichloropropene		N.D.		0.2
cis-1,3-Dichloroprope	ne	N.D.		0.2
trans-1,3-Dichloropro	pene	N.D.		0.2
Ethylbenzene		N.D.		0.2
Hexachlorobutadiene		N.D.		0.2
2-Hexanone		N.D.		2
sopropylbenzene		N.D.		0.2
o-Isopropyltoluene		N.D.		0.2
√EK		N.D.		2
Methylene chloride		N.D.		0.4
MIBK		N.D.		2
Naphthalene		N.D.		0.2
-Propylbenzene		N.D.		0.2
styrene		N.D.		0.2
,1,1,2-Tetrachloroeth	ane	N.D.		0.2
,1,2,2-Tetrachloroeth	ane	N.D.		0.4
Tetrachloroethene		1.0		0.2
Coluene		N.D.		0.4
,2,3-Trichlorobenzen	e	N.D.		0.4
,2,4-Trichlorobenzen	e	N.D.		0.4
,1,1-Trichloroethane		N.D.		0.2
,1,2-Trichloroethane		N.D.		0.4
Crichloroethene		N.D.		0.2
Crichlorofluoromethan	ne	N.D.		0.2
,2,3-Trichloropropan	e	N.D.		0.4
,2,4-Trimethylbenzer	ıe	N.D.		0.2
,3,5-Trimethlybenzer	ie	N.D.		0.2
Vinyl Acetate		N.D.		1
/inyl chloride		N.D.		1
n,p,-Xylene		N.D.		0.4
-Xylene		N.D.		0.2
Surrogate Recoveries		Recovery	Notes	Acceptance Range
Coluene-d8		96%		81%-117%
-Bromofluorobenzene	;	97%		74%-121%
Dibromofluoromethan	3	101%		80%-120%



A 1 -4 -	Comple Decult	Motoc	Donorting Limit
Units:	mg/kg	Dilution Factor:	1 .
Laboratory Batch #	01427	Sample Matrix:	Soil
Client Sample ID:	PX-9	Date Analyzed:	July 11, 1994
Project Number:	1153	Date Extracted:	July 11, 1994
Project Name:	Benenson/Bellevue	Date Received:	July 11, 1994
Client:	Environmental Management Resources	Date Sampled:	July 11, 1994

Units. mg/kg		Different rector.	
Analyte	Sample Result	Notes	Reporting Limit
Acetone	N.D.	•	2
Acrolein	N.D.		2
Acrylonitrile	N.D.		2
Benzene	N.D.		0.2
Bromobenzene	N.D.		0.2
Bromochloromethane	N.D.		0.4
Bromodichloromethane	N.D.		0.2
Bromoform	N.D.		0.4
Bromomethane	N.D.		0.4
n-Butylbenzene	N.D.		0.2
sec-Butylbenzene	N.D.		0.2
tert-Butylbenzene	N.D.		0.2
Carbon Disulfide	N.D.		1
Carbon tetrachloride	N.D.		0.2
Chlorobenzene	N.D.		0.2
Chloroethane	N.D.		0.2
2-Chloroethyl vinyl ether	N.D.		1
Chloroform	N.D.		0,2
Chloromethane	N.D.		0.2
2-Chlorotoluene	N.D.		0.2
4-Chlorotoluene	N.D. N.D.		0.2
Dibromochloromethane	N.D.		0.4
1,2-Dibromo-3-chloropropane	N.D.		0.5
1,2-Dibromoethane	N.D.		0.4
Dibromomethane	N.D.		0.4
1,2-Dichlorobenzene	N.D.		0.2
1,3-Dichlorobenzene	N.D.		0.2
1,4-Dichlorobenzene	N.D.		0,2
Dichlorodifluoromethane	N.D.	•	0.4
1,1-Dichloroethane	N.D.		0.2
1,2-Dichloroethane	N.D.		0.2
1,1-Dichloroethene	N.D.		0.2
cis-1,2-Dichloroethene	N.D.		0.2
trans-1,2-Dichloroethene	N.D.		0.2
1,2-Dichloropropane	N.D.		0.2
1,3-Dichloropropane	N.D.		0.4



Benenson/Bellevue			July 11, 1994
		Date Received:	July 11, 1994
1153		Date Extracted:	July 11, 1994
PX-9		Date Analyzed:	July 11, 1994
01427		Sample Matrix:	Soil
mg/kg		Dilution Factor:	1
	Sample Result	Notes	Reporting Limit
	N.D.		0.4
	N.D.		0.2
e	N.D.		0.2
ene	N.D.		0.2
	N.D.		0.2
	N.D.		0.2
	N.D.		2
	N.D.		0.2
	N.D.		0.2
	N.D.		2
	N.D.		0.4
			2
			0,2
			0.2
			0.2
ine			0.2
			0.4
			0.2
			0.4
;			0.4
			0.4
			0.4
			0.2
			0.4
2			0.2
			0.4
			0.2
			0.2
•		•	1
			1
			0.4
			0.2
	N.D.		U.Z
	Recovery	Notes	Acceptance Range
	101%		81%-117%
	97%		74%-121%
	96%		80%-120%
	ol427 mg/kg ne wene ne ene	Sample Result N.D.	Sample Matrix: Dilution Factor:

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			·	
Client:	Environmental Managemen	it Resources Date Samp	led: July 11, 1994	
Project Name:	Benenson/Bellevue	Date Receiv	red: July 11, 1994	
Project Number:	1153	Date Extra	eted: July 11, 1994	
Client Sample ID:	STP-2	Date Analy	zed: July 11, 1994	
Laboratory Batch #	01427	Sample Ma	trix: Soil	
Units:	mg/kg	Dilution Fa	ctor: 1	
Analyte	Sam	nle Result Notes	Reporting Limit	

Analyte	Sample Result	Notes	Reporting Limit
			_
Acetone	N.D.		2
Acrolein	N.D.		2
Acrylonitrile	N.D.		2
Benzene	N.D.		0.2
Bromobenzene	N.D.		0.2
Bromochloromethane	N.D.		0.4
Bromodichloromethane	N.D.		0.2
Bromoform	N.D.		0.4
Bromomethane	N.D.		0.4
n-Butylbenzene	N.D.		0.2
sec-Butylbenzene	N.D.		0.2
tert-Butylbenzene	N.D.		0.2
Carbon Disulfide	N.D.		1
Carbon tetrachloride	N.D.		0.2
Chlorobenzene	N.D.		0.2
Chloroethane	N.D.		0.2
2-Chloroethyl vinyl ether	N.D.		1
Chloroform	N.D.		0.2
Chloromethane	N.D.		0.2
2-Chlorotoluene	N.D.		0.2
4-Chlorotoluene	N.D.		0.2
Dibromochloromethane	N.D.		0.4
1,2-Dibromo-3-chloropropane	N.D.		0,5
1,2-Dibromoethane	N.D.		0,4
Dibromomethane	N.D.		0.4
1,2-Dichlorobenzene	N.D.		0.2
1,3-Dichlorobenzene	N.D.		0.2
1,4-Dichlorobenzene	N.D.		0.2
Dichlorodifluoromethane	N.D.		0.4
1,1-Dichloroethane	N.D.		0.2
1,2-Dichloroethane	N.D.	•	0.2
1,1-Dichloroethene	N.D.		0.2
cis-1,2-Dichloroethene	N.D.		0.2
trans-1,2-Dichloroethene	N.D.		0.2
1,2-Dichloropropane	N.D.		0.2
1,3-Dichloropropane	N.D.		0,4



Client:	Environmental Manageme	nt Resources	Date Sampled:	July 11, 1994
Project Name:	Benenson/Bellevue	•	Date Received:	July 11, 1994
Project Number:	1153		Date Extracted:	July 11, 1994
Client Sample ID:	STP-2		Date Analyzed:	July 11, 1994
Laboratory Batch #	01427		Sample Matrix:	Soil
Units:	mg/kg		Dilution Factor:	1
Analyte	S	ample Result	Notes	Reporting Limit
2,2-Dichloropropane		N.D.		0.4
1,1-Dichloropropene		N.D.		0.2
cis-1,3-Dichloroproper	ne	N.D.		0.2
trans-1,3-Dichloroprop	pene	N.D.		0.2
Ethylbenzene		N.D.		0.2
Hexachlorobutadiene		N.D.		0.2
2-Hexanone		N.D.		2
sopropylbenzene		N.D.		0.2
o-Isopropyltoluene		N.D.		0.2
MEK		N.D.		2
Methylene chloride		N.D.		0.4
MIBK		N.D.		2
Naphthalene		N.D.		0,2
n-Propylbenzene		N.D.		0.2
Styrene		N.D.		0.2
1,1,1,2-Tetrachloroeth	ane	N.D.		0.2
,1,2,2-Tetrachloroeth		N.D.		0.4
Tetrachloroethene		N.D.		0.2
Toluene		N.D.		0.4
,2,3-Trichlorobenzene	•	N.D.		0.4
,2,4-Trichlorobenzene		N.D.		0.4
,1,1-Trichloroethane		N.D.		0.2
,1,2-Trichloroethane		N.D.		0.4
Crichloroethene		N.D.		0.2
richlorofluoromethan	e	N.D.		0.2
,2,3-Trichloropropane		N.D.		0.4
,2,4-Trimethylbenzen		N.D.		0.2
,3,5-Trimethlybenzen		N.D.		0.2
Vinyl Acetate		N.D.		1
/inyl chloride		N.D.		Ī
n,p,-Xylene		N.D.		0.4
-Xylene	·	N.D.		0.2
urrogate Recoveries		Recovery	Notes	Acceptance Range
oluene-d8		97%		81%-117%
-Bromofluorobenzene		97%		74%-121%
	!	110%		80%-120%



Client:	Environmental Managem	ent Resources	Date Sampled:	July 11, 1994
Project Name:	Benenson/Bellevue		Date Received:	July 11, 1994
Project Number:	1153		Date Extracted:	July 11, 1994
Client Sample ID:	STP-3		Date Analyzed:	July 11, 1994
Laboratory Batch #	01427		Sample Matrix:	Soil
Units:	mg/kg		Dilution Factor:	1
Analyte	Sa	mple Result	Notes	Reporting Limit
Acetone		N.D.		2 `
Acrolein		N.D.		2
Acrylonitrile		N.D.		2
Benzene		N.D.		0.2
Bromobenzene		N.D.		0.2 .
Bromochloromethane		N.D.		0.4
Bromodichloromethan	ne	N.D.		0.2
Bromoform	•	N.D.		0.4
Bromomethane		N.D.		0.4
n-Butylbenzene		N.D.		0.2
sec-Butylbenzene		N.D.		0.2
tert-Butylbenzene		N.D.		0.2
Carbon Disulfide		N.D.		1
Carbon tetrachloride		N.D.		0.2
Chlorobenzene		N.D.		0.2
Chloroethane		N.D.		0.2
2-Chloroethyl vinyl et	ther	N.D.		1
Chloroform		N.D.		0.2
Chloromethane		N.D.		0.2
2-Chlorotoluene		N.D.		0.2
4-Chlorotoluene		N.D.		0.2
Dibromochloromethau	ne	N.D.		0.4
1,2-Dibromo-3-chloro	propane	N.D.		0.5
1,2-Dibromoethane		N.D.		0.4
Dibromomethane		N.D.		0.4
1,2-Dichlorobenzene		N.D.		0.2
1,3-Dichlorobenzene		N.D.		0.2
1,4-Dichlorobenzene		N.D.		0.2
Dichlorodifluorometh	ane	N.D.		0.4
1,1-Dichloroethane		N.D.		0.2
1,2-Dichloroethane		N.D.		0.2
1,1-Dichloroethene		N.D.		0.2
cis-1,2-Dichloroethen		N.D.		0.2
trans-1,2-Dichloroeth	ene	N.D.		0.2
1,2-Dichloropropane		N.D.		0.2
1,3-Dichloropropane		N.D.		0.4
,				



Client:		nagement Resources	Date Sampled:	July 11, 1994
Project Name:	Benenson/Bellevue		Date Received:	July 11, 1994
Project Number:	1153		Date Extracted:	July 11, 1994
Client Sample ID:	STP-3		Date Analyzed:	July 11, 1994
Laboratory Batch #	01427		Sample Matrix:	Soil
Units:	mg/kg		Dilution Factor:	1
Analyte		Sample Result	Notes	Reporting Limit
2,2-Dichloropropane		N.D.		0.4
1,1-Dichloropropene		N.D.		0.2
cis-1,3-Dichloroprope	ene	N.D.		0.2
trans-1,3-Dichloropro	pene	N.D.		0.2
Ethylbenzene		N.D.		0.2
Hexachlorobutadiene		N.D.		0.2
2-Hexanone		N.D.		2
Isopropylbenzene		N.D.		0.2
p-Isopropyltoluene		N.D.		0.2
MEK		N.D.		2
Methylene chloride		N.D.		0.4
MIBK		N.D.		2
Naphthalene		N.D.		0.2
n-Propylbenzene		N.D.		0.2
Styrene		N.D.		0.2
1,1,1,2-Tetrachloroet	hane	N.D.		0.2
1,1,2,2-Tetrachloroet		N.D.		0.4
Tetrachloroethene		0.32		0.2
Toluene		N.D.		0.4
1,2,3-Trichlorobenze	ne	N.D.		0.4
1,2,4-Trichlorobenze		N.D.		0.4
1,1,1-Trichloroethane		N.D.		0.2
1,1,2-Trichloroethane		N.D.		0.4
r,1,2-1 richtoroculant Frichloroethene	•	N.D.		0.2
r richloroctiene Frichlorofluorometha	ne	N.D.		0.2
1,2,3-Trichloropropa		N.D.		0.4
1,2,4-Triemoropropal 1,2,4-Trimethylbenze		N.D.		0.2
1,2,4-11methlybenze		N.D.		0.2
Vinyl Acetate	110	N.D.	•	1
Vinyl Acctate Vinyl chloride		N.D.		1
m,p,-Xylene		N.D.		0.4
m,p,-Aylene o-Xylene		N.D.		0.2
-Aylene	•	14.17.		V.2
Surrogate Recoveries		Recovery	Notes	Acceptance Range
Foluene-d8		96%		81%-117%
4-Bromofluorobenzer		99%		74%-121%
Dibromofluorometha	ne	107%		80%-120%
Notes				

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Client:	Environmental Management Resources	Date Sampled:	July 11, 1994
Project Name:	Benenson/Bellevue	Date Received:	July 11, 1994
Project Number:	1153	Date Extracted:	July 11, 1994
Client Sample ID:	STP-4	Date Analyzed:	July 11, 1994
Laboratory Batch #	01427	Sample Matrix:	Soil
Units:	mg/kg	Dilution Factor:	1

Analyte	Sample Result	Notes	Reporting Limit
		· .	
Acetone	N.D.		2
Acrolein	N.D.		2
Acrylonitrile	N.D.		2
Benzene	N.D.		0.2
Bromobenzene	N.D.		0.2
Bromochloromethane	N.D.		0.4
Bromodichloromethane	N.D.		0.2
Bromoform	N.D.		0.4
Bromomethane	N.D.		0.4
n-Butylbenzene	N.D.		0.2
sec-Butylbenzene	N.D.		0.2
tert-Butylbenzene	N.D.		0.2
Carbon Disulfide	N.D.		1
Carbon tetrachloride	N.D.		0.2
Chlorobenzene	N.D.		0.2
Chloroethane	N.D.		0.2
2-Chloroethyl vinyl ether	N.D.		1
Chloroform	N.D.		0.2
Chloromethane	N.D.		0.2
2-Chlorotoluene	N.D.		0.2
4-Chlorotoluene	N.D.		0.2
Dibromochloromethane	N.D.		0.4
1,2-Dibromo-3-chloropropane	N.D.		0.5
1,2-Dibromoethane	N.D.		0.4
Dibromomethane	N.D.		0.4
1,2-Dichlorobenzene	N.D.		0.2
1,3-Dichlorobenzene	N.D.		0.2
1,4-Dichlorobenzene	N.D.		0.2
Dichlorodifluoromethane	N.D.		0.4
1,1-Dichloroethane	N.D.		0.2
1,2-Dichloroethane	N.D.		0.2
1,1-Dichloroethene	N.D.		0.2
cis-1,2-Dichloroethene	N.D.		0.2
trans-1,2-Dichloroethene	N.D.		0.2
1,2-Dichloropropane	N.D.		0.2
1,3-Dichloropropane	N.D.		0.4



Client:	Environmental Manag	gement Resources	Date Sampled:	July 11, 1994
Project Name:	Benenson/Bellevue		Date Received:	July 11, 1994
Project Number:	1153		Date Extracted:	July 11, 1994
Client Sample ID:	STP-4		Date Analyzed:	July 11, 1994
Laboratory Batch #	01427		Sample Matrix:	Soil
Units:	mg/kg		Dilution Factor:	I
Analyte		Sample Result	Notes	Reporting Limit
2,2-Dichloropropane		N.D.		0.4
,1-Dichloropropene		N.D.		0.2
cis-1,3-Dichloroprope	ne	N.D.		0.2
rans-1,3-Dichloropro	pene	N.D.		0.2
Ethylbenzene		N.D.		0.2
Jexachlorobutadiene		N.D.		0.2
2-Hexanone		N.D.		2
sopropylbenzene		N.D.		0.2
-Isopropyltoluene		N.D.		0.2
MEK		N.D.		2
Methylene chloride		N.D.		0.4
MBK '		N.D.		2
Vaphthalene		N.D.		0.2
-Propylbenzene		N.D.		0.2
Styrene		N.D.		0.2
,1,1,2-Tetrachloroeth	ane	N.D.		0.2
,1,2,2-Tetrachloroeth	ane	N.D.		0.4
Tetrachloroethene		1.9		0.2
Coluene		N.D.		0.4
,2,3-Trichlorobenzen	e	N.D.		0,4
,2,4-Trichlorobenzen	е	N.D.		0.4
,1,1-Trichloroethane		N.D.		0.2
,1,2-Trichloroethane		N.D.		0.4
richloroethene		N.D.		0.2
richlorofluoromethan	ıe	N.D.		0.2
,2,3-Trichloropropan		N.D.		0.4
,2,4-Trimethylbenzer	ne	N.D.		0.2
,3,5-Trimethlybenzer	ie	N.D.		0.2
/inyl Acetate		N.D.		1
/inyl chloride		N.D.		1
n,p,-Xylene		N.D.		0.4
-Xylene		N.D.		0.2
urrogate Recoveries		Recovery	Notes	Acceptance Range
'oluene-d8		98%		81%-117%
-Bromofluorobenzene		98%		74%-121%
Dibromofluoromethane	e	108%		80%-120%



Client:	Environmental Mar	agement Resources	Date Sampled:	July 11, 1994
Project Name:	Benenson/Bellevue		Date Received:	July 11, 1994
Project Number:	1153		Date Extracted:	July 11, 1994
Client Sample ID:	STP-5		Date Analyzed:	July 11, 1994
Laboratory Batch #	01427		Sample Matrix:	Soil
Units:	mg/kg		Dilution Factor:	1
Analyte		Sample Result	Notes	Reporting Limit
Acetone		N.D.		2
Acrolein		N.D.		2
Acrylonitrile		N.D.		2
Benzene		N.D.		0.2
Bromobenzene		N.D.		0.2
Bromochloromethane	;	N.D.		0.4
Bromodichlorometha	ne	N.D.		0.2
Bromoform		N.D.		0.4
Bromomethane		N.D.		0.4
n-Butylbenzene		N.D.		0.2
sec-Butylbenzene		N.D.		0.2
tert-Butylbenzene		N.D.		0.2
Carbon Disulfide		N.D.		1 '
Carbon tetrachloride		N.D.		0.2
Chlorobenzene		N.D.		0.2
Chloroethane		N.D.		0.2
2-Chloroethyl vinyl e	ther	N.D.		· 1
Chloroform		N.D.		0.2
Chloromethane		N.D.		0.2
2-Chlorotoluene		N.D.		0.2
4-Chlorotoluene		N.D.		0.2
Dibromochlorometha	ne	N.D.		0.4
1,2-Dibromo-3-chloro	opropane	N.D.		0.5
1,2-Dibromoethane		N.D.		0.4
Dibromomethane		N.D.		0.4
1,2-Dichlorobenzene		N.D.		0.2
1,3-Dichlorobenzene		N.D.		0.2
1,4-Dichlorobenzene		N.D.		0.2
Dichlorodifluorometh	ane	N.D.		0.4
1,1-Dichloroethane		N.D.		0.2
1,2-Dichloroethane		N.D.		0.2
1,1-Dichloroethene		N.D.		0.2
cis-1,2-Dichloroethen	ie.	N.D.		0.2
trans-1,2-Dichloroeth	ene	N.D.		0.2
1,2-Dichloropropane		N.D.		0.2
1,3-Dichloropropane		N.D.		0.4



Client:	Environmental Manag	gement Resources	Date Sampled:	July 11, 1994
Project Name:	Benenson/Bellevue		Date Received:	July 11, 1994
Project Number:	1153		Date Extracted:	July 11, 1994
Client Sample ID:	STP-5		Date Analyzed:	July 11, 1994
Laboratory Batch #	01427		Sample Matrix:	Soil
Units:	mg/kg		Dilution Factor:	1
Analyte		Sample Result	Notes	Reporting Limit
2,2-Dichloropropane		N.D.		0.4
1,1-Dichloropropene		N.D.		0.2
cis-1,3-Dichloroprope		N.D.		0.2
trans-1,3-Dichloroprop	pene	N.D.		0.2
Ethylbenzene		N.D.		0.2
Hexachlorobutadiene		N.D.		0.2
2-Hexanone		N.D.		2
Isopropylbenzene		N.D.		0.2
o-Isopropyltoluene		N.D.		0.2
MEK		N.D.		2
Methylene chloride		N.D.		0.4
MIBK		N.D.		2
Naphthalene		N.D.		0.2
n-Propylbenzene		N.D.		0.2
Styrene		N.D.		0.2
l,1,1,2-Tetrachioroeth	ane	N.D.		0.2
1,1,2,2-Tetrachloroeth		N.D.		. 0.4
retrachloroethene	uno	2.3		0.2
Foluene		N.D.		0.4
l,2,3-Trichlorobenzen	•	N.D.		0.4
1,2,4-Trichlorobenzen		N.D.		0.4
1,1,1-Trichloroethane	•	N.D.		• 0.2
richloroethene		N.D.		0.4
r richloroethene Frichlorofluoromethan		N.D. N.D.		0.2
l,2,3-Trichloropropan		N.D.		0.2 0.4
1,2,3-Triemoropropant 1,2,4-Trimethylbenzen		N.D.		0.4
•				
1,3,5-Trimethlybenzen	le .	N.D.		0.2
Vinyl Acetate		N.D.		I
Vinyl chloride		N.D.		1
m,p,-Xylene		N.D.		0.4
o-Xylene		N.D.		0.2
Surrogate Recoveries		Recovery	Notes	Acceptance Range
Toluene-d8		96%		81%-117%
l-Bromofluorobenzene		97%		74%-121%
Dibromofluoromethane	2	108%		80%-120%
Notes N.DNot detected above	ve the reporting limit.		·	





	A D	Date Sampled:	July 11, 1994
Client:	Environmental Management Resources	Date Received:	July 11, 1994
Project Name:	Benenson/Bellevue	Date Extracted:	July 11, 1994
Project Number:	1153	Date Analyzed:	July 11, 1994
Client Sample ID:	STP-6	Sample Matrix:	Soil
Laboratory Batch #	01427	Dilution Factor:	1
Units:	mg/kg	Notes	Reporting Limit
Analyte	Sample Result		
	N.D.	•	2
Acetone	N.D. N.D.		2
Acrolein	-		2
Acrylonitrile	N.D.		0.2
Benzene	N.D.		0.2
Bromobenzene	N.D.		0.4
Bromochloromethar	ne N.D.		0.2
Bromodichlorometh	ane N.D.	·	0.4
Bromoform	N.D.		0.4
Bromomethane	N.D.		0.2
n-Butylbenzene	N.D.		0.2
sec-Butylbenzene	N.D.		0.2
tert-Butylbenzene	N.D.		1
Carbon Disulfide	N.D.		0.2
Carbon tetrachlorid	e N.D.		0.2
Chlorobenzene	N.D.		0.2
Chloroethane	N.D.		1.
2-Chloroethyl viny	l ether N.D.		0.2
Chloroform	N.D.		•
Chloromethane	N.D.		0.2
_	N.D.		0.2
2-Chlorotoluene	N.D.	·	0.2
4-Chlorotoluene	17.70		0.4
Dibromochloromet	TIMITE		0.5
1,2-Dibromo-3-chl	Otobrobane		0.4
1,2-Dibromoethane	N.D.		0.4
	n.D.		0.2
1,2-Dichlorobenze	N.D.		0.2
1,3-Dichlorobenze	.11C		0.2
1,4-Dichlorobenze	;iic		0.4
	ICHIMIC		0.2
1,1-Dichloroethan	lc '		0.2
1,2-Dichloroethan			0.2
1,1-Dichloroether	10		0.2
cis-1,2-Dichloroet	Hieric	• •	0.2
trans-1,2-Dichlore	Defrictio		0.2
1,2-Dichloropropa	M D		0.4
1 0 Disklassers	nno 11.D.		

Notes

1,3-Dichloropropane

N.D.-Not detected above the reporting limit.



Client:	Environmental Management Resources	Date Sampled:	July 11, 1994
Project Name:	Benenson/Bellevue	Date Received:	July 11, 1994
Project Number:	1153	Date Extracted:	July 11, 1994
Client Sample ID:	STP-6	Date Analyzed:	July 11, 1994
Laboratory Batch #	01427	Sample Matrix:	Soil
Units:	mg/kg	Dilution Factor:	_1
Analyte	Sample Result	Notes	Reporting Limit
2,2-Dichloropropane	N.D.		0.4
1,1-Dichloropropene	N.D.		0.2
cis-1,3-Dichloroproper			0.2
trans-1,3-Dichloroprop			0.2
Ethylbenzene	N.D.		0.2
Hexachlorobutadiene	N.D.		0.2
2-Hexanone	N.D.		2
Isopropylbenzene	N.D.		0.2
p-Isopropyltoluene	N.D.		0.2
MEK	N.D.		2
Methylene chloride	N.D.		0.4
MIBK	N.D.		2
Naphthalene	N.D.		0.2
n-Propylbenzene	N.D.		0.2
Styrene	N.D.		0.2
l,1,1,2-Tetrachloroetha	nne N.D.		0.2
1,1,2,2-Tetrachloroetha	nne N.D.		0.4
Tetrachloroethene	0.88		0.2
Foluene	N.D.		0.4
1,2,3-Trichlorobenzene	N.D.		0.4
1,2,4-Trichlorobenzene	N.D.		0.4
l, l, l-Trichloroethane	N.D.		0.2
1,1,2-Trichloroethane	N.D.		0.4
Frichloroethene	N.D.		0.2
Frichlorofluoromethan	e N.D.		0.2
l,2,3-Trichloropropane	N.D.		0.4
1,2,4-Trimethylbenzene	N.D.		0.2
1,3,5-Trimethlybenzen	N.D.		0.2
Vinyl Acetate	N.D.		1
Vinyl chloride	N.D.		1
m,p,-Xylene	N.D.		0.4
o-Xylene	N.D.		0.2
Surrogate Recoveries	Recovery	Notes	Acceptance Range
Toluene-d8	95%		81%-117%
4-Bromofluorobenzene	97%		74%-121%
Dibromofluoromethane	105%		80%-120%
Notes			



EPA 8240 Volatile Organic Compounds Quality Control Data

Client:

Environmental Management Resources

Project Name:

Benenson/Bellevue

Project Number:

1153

Date Extracted: Date Analyzed: July 11, 1994

Laboratory Batch #

01427

Dilution Factor:

July 11, 1994

Laudiatory Daten # 01727	Dilution Factor.			
Sample ID: Method Blank	Units: mg/kg			
Analyte '	Sample Result	Notes	Reporting Limit	
Acatomo	N.D.		2	
Acetone Acrolein				
	N.D.		2	
Acrylonitrile	N.D.		2	
Benzene	N.D.		0.2	
Bromobenzene	N.D.		0.2	
Bromochloromethane	N.D.		0.4	
Bromodichloromethane	N.D.		0.2	
Bromoform	N.D.		0.4	
Bromomethane	N.D.		0.4	
n-Butylbenzene	N.D.		0.2	
sec-Butylbenzene	N.D.		0.2	
tert-Butylbenzene	N.D.		0.2	
Carbon Disulfide	N.D.		1	
Carbon tetrachloride	N.D.		0.2	
Chlorobenzene	N.D.		0.2	
Chloroethane	N.D.		0.2	
2-Chloroethyl vinyl ether	N.D.		1	
Chloroform	N.D.		0.2	
Chloromethane	N.D.		0.2	
2-Chlorotoluene	N.D.		0.2	
4-Chlorotoluene	N.D.		0.2	
Dibromochloromethane	N.D.		0.4	
1,2-Dibromo-3-chloropropane	N.D.		0.5	
1,2-Dibromoethane	N.D.		0.4	
Dibromomethane	N.D.		0.4	
1,2-Dichlorobenzene	N.D.		0.2	
1,3-Dichlorobenzene	N.D.		0.2	
1,4-Dichlorobenzene	N.D.		0.2	
Dichlorodifluoromethane	N.D.		0.4	
1,1-Dichloroethane	N.D.		0.2	
1,2-Dichloroethane	N.D.		0.2	
1,1-Dichloroethene	N.D.		0.2	
cis-1,2-Dichloroethene	N.D.		0.2	
trans-1,2-Dichloroethene	N.D.		0.2	
1,2-Dichloropropane	N.D.		0.2	





EPA 8240 Volatile Organic Compounds, continued Ouality Control Data

Client: **Environmental Management Resources** Benenson/Bellevue Project Name: July 11, 1994 Date Extracted: **Project Number:** 1153 July 11, 1994 Date Analyzed: Laboratory Batch # 01427 Dilution Factor: Sample ID: Method Blank Units: mg/kg Analyte Sample Result Notes Reporting Limit 2,2-Dichloropropane N.D. 0,4 1,1-Dichloropropene N.D. 0.2 cis-1,3-Dichloropropene N.D. 0.2 trans-1,3-Dichloropropene N.D. 0.2 Ethylbenzene N.D. 0.2 Hexachlorobutadiene N.D. 0.2 2-Hexanone N.D. 2 Isopropylbenzene N.D. 0.2 p-Isopropyltoluene N.D. 0.2 MEK N.D. 2 Methylene chloride N.D. 0.4 **MIBK** N.D. 2 N.D. Naphthalene 0.2 n-Propylbenzene N.D. 0.2 N.D. Styrene 0.2 1,1,1,2-Tetrachloroethane N.D. 0.2 1,1,2,2-Tetrachloroethane N.D. 0.4 Tetrachloroethene N.D. 0.2 Toluene N.D. 0.4 1.2.3-Trichlorobenzene N.D. 0.41,2,4-Trichlorobenzene N.D. 0.4 1,1,1-Trichloroethane N.D. 0.2 1.1.2-Trichloroethane N.D. 0.4 Trichloroethene N.D. 0.2 Trichlorofluoromethane N.D. 0.2 N.D. 0.4 1,2,3-Trichloropropane N.D. 0.2 1,2,4-Trimethylbenzene 1,3,5-Trimethlybenzene N.D. 0.2 Vinyl Acetate N.D. 1 Vinyl chloride N.D. 1 m,p,-Xylene N.D. 0.4 N.D. 0.2 o-Xylene Recovery Notes Acceptance Range Surrogate Recoveries 99% 81% - 117% Toluene-d8 99% 74% - 121% 4-Bromofluorobenzene

Notes

Dibromofluoromethane

N.D.-Not detected above the reporting limit.

80% - 120%

103%







EPA 8240 Volatile Organic Compounds, continued **Quality Control Data**

Client:

Environmental Management Resources

Project Name:

Benenson/Bellevue

Project Number: Laboratory Batch # 1153 01427 Date Extracted:

July 11, 1994

Date Analyzed:

July 11, 1994 Dilution Factor: 1

		_	 •	-
••	Units:		•	mg/kg

Batch Sample ID: 01427QA				Units:	mg/kg
	Reporting	Sample	Duplicate		Acceptance
Analyte	Limit	Result	Result	RPD	Limit
Acetone	2	N.D.	N.D.		30%
Acrolein	2	N.D.	N.D.	-	30%
Acrylonitrile	2	N.D.	N.D.		30%
Benzene	0.2	N.D.	N.D.		30%
Bromobenzene	0.2	N.D.	N.D.		30%
Bromochloromethane	0.4	N.D.	N.D.		30%
Bromodichloromethane	0.2	N.D.	N.D.		30%
Bromoform	0.4	N.D.	N.D.		30%
Bromomethane	0.4	N.D.	N.D.		30%
n-Butylbenzene	0.2	N.D.	N.D.	·	30%
sec-Butylbenzene	0.2	N.D.	N.D.		30%
tert-Butylbenzene	0.2	N.D.	N.D.		30%
Carbon Disulfide	1	N.D.	N.D.	-	30%
Carbon tetrachloride	0.2	N.D.	N.D.		30%
Chlorobenzene	0.2	N.D.	N.D.	,	30%
Chloroethane	0.2	N.D.	N.D.		30%
2-Chloroethyl vinyl ether	1	N.D.	N.D.		30%
Chloroform	0.2	N.D.	N.D.		30%
Chloromethane	0.2	N.D.	N.D.	••	30%
2-Chlorotolüene	0.2	N.D.	N.D.		30%
4-Chlorotoluene	0.2	N.D.	N.D.	-	30%
Dibromochloromethane	0.4	N.D.	N.D.		30%
1,2-Dibromo-3-chloropropane	0.5	N.D.	N.D.		30%
1,2-Dibromoethane	0.4	N.D.	N.D.		30%
Dibromomethane	0,4	N.D.	N.D.		30%
1,2-Dichlorobenzene	0.2	N.D.	N.D.		30%
1,3-Dichlorobenzene	0.2	N.D.	N.D.		30%
1,4-Dichlorobenzene	0.2	N.D.	N.D.		30%
Dichlorodifluoromethane	0.4	N.D.	N.D.		30%
1,1-Dichloroethane	0.2	N.D.	N.D.		30%
1,2-Dichloroethane	0.2	N.D.	N.D.		30%
1,1-Dichloroethene	0.2	. N.D.	N.D.	-	30%
cis-1,2-Dichloroethene	0.2	N.D.	N.D.		30%
trans-1,2-Dichloroethene	0.2	N.D.	N.D.		30%
1,2-Dichloropropane	0.2	N.D.	N.D.		30%
1,3-Dichloropropane	0.4	N.D.	N.D.		30%
Notes					



EPA 8240 Volatile Organic Compounds, continued Quality Control Data

C

30%		'a'.	N.D.	2.0		o-Xylene
%0ε		N.D.	N.D.	4.0	•	m,p,-Xylene
%0£		N.D.	N.D.	I		Vinyl chloride
%0E		N.D.	N.D.	ī		Vinyl Acetate
%0E		N.D.	N.D.	2.0	əi	I,3,5-Trimethlybenzen
%0£		N.D.	N.D.	2.0		n-2,4-Trimethylbenzen
%0£		N.D.	N.D.	4.0		1,2,3-Trichloropropane
%0£		N.D.	N.D.	2.0		Trichlorofluoromethan
%0£		N.D.	N.D.	2.0		Trichloroethene
%0€		N.D.	N.D.	† .0		1,1,2-Trichloroethane
%0 E		N'D'	N'D'	2.0		1,1,1-Trichloroethane
30%		N.D.	И'D'	4.0	э	1,2,4-Trichlorobenzen
30%	-	N.D.	N'D'	4.0	э	1,2,3-Trichlorobenzen
%0€		N.D.	N'D'	4.0		Toluene
%0 E	%7	69.0	29.0	2.0		Tetrachloroethene
%0 E		M.D.	N.D.	4.0	gue	1, 1, 2, 2-Tetrachloroeth
%0 E	_	N.D.	N'D'	2.0		l, l, l, 2-Tetrachloroeth
%08	-	N.D.	N'D'	2.0		Styrene
30%		N.D.	N.D.	2.0		n-Propylbenzene
%0€	•-	N'D'	N.D.	2.0		Naphthalene
% 0£	**	N'D'	N'D'	7		MIBK
30%		N.D.	N'D'	p .0		Methylene chloride
30%		N.D.	N'D'	7		WEK
30%		N'D'	N.D.	2.0		p-Isopropyltoluene
30%		N'D'	N'D'	2.0		Isopropylbenzene
%0€		И'D'	N.D.	7		2-Hexanone
%0 £		И'D'	N.D.	2.0		Hexachlorobutadiene
%0€		N'D'	И'D'	2.0		Ethylbenzene
%0€		N'D'	N'D'	2.0	əuəd	trans-1,3-Dichloroprop
%0€		N'D'	N'D'	2.0		cis-1,3-Dichloroprope
%0€		N'D'	N.D.	2.0		1, I-Dichloropropene
<u>30%</u>		N'D'	И'D'	4.0		2,2-Dichloropropane
Limit	RPD	Result	Result	Limit		Analyte
Acceptance		Duplicate	Sample	Reporting		
шर्छ/५६	:esinU		-		AQ72410	Batch Sample ID:
I	Dilution Factor:				72410	Гарогатогу Ватсћ #
\$661 , 1 1 ylul	Date Analyzed:				1123	Project Number:
1994 ti 1984	Date Extracted:			ellevue	Benenson/E	Project Name:
			ent Resources	magenaM lata	Environmen	Client:

Notes



EPA 8240 Volatile Organic Compounds, continued Quality Control Data

Client: Environmental Management Resources

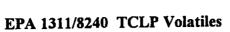
Project Name: Benenson/Bellevue Date Extracted: July 11, 1994
Project Number: 1153 Date Analyzed: July 11, 1994

Laboratory Batch # 01427 Dilution Factor: 1

Batch Sample ID: 01427QA Units: mg/kg

Daten Sample 1D.	0142/QA			· •	шиэ.	шулд
	Spike	Spike	Acceptance	Spike Dup		Acceptance
Analyte	Added	Recovery	Range	Recovery	RPD	Limit
1,1-Dichloroethene	5	72%	59% - 172%	69%	4%	22%
Benzene	5	90%	66% - 142%	87%	3%	21%
Trichloroethene	5	86%	62% - 137%	83%	4%	24%
Toluene	5	89%	59% - 139%	85%	5%	21%
Chlorobenzene	5	93%	60% - 133%	91%	2%	21%





Environmental Management Resources	Date Sampled:	July 11, 1994
	Date Received:	July 11, 1994
	Date Extracted:	July 11, 1994
	Date Analyzed:	July 13, 1994
- -	Dilution Factor:	1
Leachate	Units:	mg/L
Sample Result	Notes	Reporting Limit
		0.001
N.D.		0.001
N.D.		0.001
N.D.		0.001
0.0015		0.001
N.D.		0.001
N.D.		0.001
		0.001
		0.001
		0.001
N.D.		0.005
	N.D. N.D. N.D. 0.0015 N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D	Date Received: 1153

Corregate Decoveries	Recovery	Notes	Acceptance Range
Surrogate Recoveries	97%		88% - 110%
Toluene-d8	97%		86% - 115%
4-Bromofluorobenzene			86% - 118%
Dibromofluoromethane	104%		0070 11070.

0.001

0.001

0.001

0.001

0.001

0.005



1,4-Dichlorobenzene

1,2-Dichloroethane

1,1-Dichloroethene

Tetrachloroethylene

Trichloroethylene

Vinyl Chloride

EPA 1311/8240 TCLP Volatiles

Client:	Environmental Management Resources	Date Sampled:	July 11, 1994
Project Name:	Benenson/Bellevue	Date Received:	July 11, 1994
Project Number:	1153	Date Extracted:	July 11, 1994
Client Sample ID:	STP-3	Date Analyzed:	July 13, 1994
Laboratory Batch #	01427	Dilution Factor:	1
Sample Matrix:	Leachate	Units:	mg/L
Analyte	Sample Result	Notes	Reporting Limit
Analyte Benzene	Sample Result N.D.	Notes	Reporting Limit 0.001
		Notes	
Benzene	N.D.	Notes	0.001

N.D.

N.D.

N.D.

0.014

N.D.

N.D.

Surrogate Recoveries	Recovery	Notes	Acceptance Range
Toluene-d8	99%		88% - 110%
4-Bromofluorobenzene	100%		86% - 115%
Dibromofluoromethane	105%		86% - 118%

Notes



EPA 1311/8240 TCLP Volatiles

Client:	Environmental Management Resources	Data Compled	Tul-, 11, 1004	
	-	Date Sampled:	July 11, 1994	
Project Name:	Benenson/Bellevue	Date Received:	July 11, 1994	
Project Number:	1153	Date Extracted:	July 11, 1994	
Client Sample ID:	STP-4	Date Analyzed:	July 13, 1994	
Laboratory Batch #	01427	Dilution Factor:	Soil	
Sample Matrix:	Leachate	Units:	mg/L	
Analyte	Sample Result	Notes	Reporting Limit	
Benzene	N.D.		0.001	
Carbon tetrachloride	N.D.		0.001	
Chlorobenzene	N.D.		0.001	
Chloroform	0.0021		0.001	
1,4-Dichlorobenzene	N.D.		0.001	
1,2-Dichloroethane	N.D.		0.001	
1,1-Dichloroethene	N.D.		0.001	
Tetrachloroethylene	0.039		0.001	
Trichloroethylene	N.D.		0.001	
Vinyl Chloride	N.D.		0.005	

Surrogate Recoveries	Recovery	Notes	Acceptance Range
Toluene-d8	101%		81%-117%
4-Bromofluorobenzene	101%		74%-121%
Dibromofluoromethane	103%		80%-120%

0.001

0.001

0.005



Tetrachloroethylene

Trichloroethylene

Vinyl Chloride

EPA 1311/8240 TCLP Volatiles

Client:	Environmental Management Resources	Date Sampled:	July 11, 1994	
Project Name:	ject Name: Benenson/Bellevue		July 11, 1994 July 12, 1994	
Project Number: 1153		Date Extracted:		
Client Sample ID:	•		July 13, 1994	
Laboratory Batch #	01427	Dilution Factor:	1	
Sample Matrix:	Leachate	Units:	mg/L	
Analyte	Sample Result	Notes	Reporting Limit	
Benzene	N.D.		0.001	
Carbon tetrachloride	N.D.		0.001	
Chlorobenzene	N.D.		0.001	
Chloroform	0.0015		0.001	
1,4-Dichlorobenzene	N.D.		0.001	
1,2-Dichloroethane	N.D.		0.001	
1 1-Dichloroethene	N.D.		0.001	

0.022

N.D.

N.D.

Surrogate Recoveries	Recovery	Notes	Acceptance Range
Toluene-d8	104%		88% - 110%
4-Bromofluorobenzene	100%		86% - 115%
Dibromofluoromethane	104%		86% - 118%

Notes



EPA 1311/8240 TCLP Volatiles

Client:	Environmental Management Resources	Date Sampled:	July 11, 1994
Project Name:	Benenson/Bellevue	Date Received:	July 11, 1994
Project Number:	1153	Date Extracted:	July 12, 1994
Client Sample ID:	STP-6	Date Analyzed:	July 13, 1994
Laboratory Batch #	01427	Dilution Factor:	1
Sample Matrix:	Leachate	Units:	mg/L
Analyte	Sample Result	Notes	Reporting Limit
Benzene	N.D.		0.001
Carbon tetrachloride	N.D.		0.001
Chlorobenzene	N.D.		0.001
Chloroform	0.0014		0.001
1,4-Dichlorobenzene	N.D.		0.001
1,2-Dichloroethane	N.D.		0,001
1,1-Dichloroethene	N.D.		0.001
Tetrachloroethylene	0.016		0.001
Trichloroethylene	N.D.		0.001
Vinyl Chloride	N.D.		0.005

Surrogate Recoveries	Recovery	Notes	Acceptance Range
Toluene-d8	102%		88% - 110%
4-Bromofluorobenzene	96%		86% - 115%
Dibromofluoromethane	100%		86% - 118%



EPA 1311/8240 TCLP Volatiles Quality Control Data

Client:

Environmental Management Resources

Project Name:

Benenson/Bellevue

Project Number:

1153

01427

Date Extracted:

July 13, 1994

Laboratory Batch # 01

Date Analyzed: Dilution Factor:

July 13, 1994

Units:

mg/L

Sample ID:

Method Blank

Sample Result Notes Reporting Limit Analyte 0.001 N.D. Benzene 0.001 N.D. Carbon tetrachloride 0.001 Chlorobenzene N.D. 0.001 N.D. Chloroform N.D. 0.001 1,4-Dichlorobenzene 1,2-Dichloroethane N.D. 0.001 0.001 1.1-Dichloroethene N.D. 0.001 Tetrachloroethylene N.D. N.D. 0.001 Trichloroethylene 0.005 Vinyl Chloride N.D.

Surrogate Recoveries	Recovery	Notes	Acceptance Range
Toluene-D8	100%	 :	88% - 110%
4-Bromofluorobenzene	99%		86% - 115% ·
Dibromofluoromethane	106%		86% - 118%

Notes



EPA 1311/8240 TCLP Volatiles, continued

Quality Control Data

Client:

Environmental Management Resources

Project Name: Project Number:

Laboratory Batch #

Benenson/Bellevue

1153

01427

Date Extracted:

July 11, 1994

Date Analyzed:

July 13, 1994

Dilution Factor:

1

Batch Sample ID: 01427QA2			Units:	mg/L	
Amaluta	Reporting	Sample	Duplicate	D.D.D.	Acceptance
Analyte	Limit	Result	Result	RPD	Limit
Benzene	0.001	N.D.	N.D.	_	25%
Carbon tetrachloride	0.001	N.D.	N.D.		25%
Chlorobenzene	0.001	N.D.	N.D.	-	25%
Chloroform	0.001	0.0021	0.0017	21%	25%
1,4-Dichlorobenzene	0.001	N.D.	N.D.		25%
1,2-Dichloroethane	0.001	N.D.	N.D.		25%
1,1-Dichloroethene	0.001	N.D.	N.D.		25%
Tetrachloroethylene	0.001	0.039	0.039	< 1%	25%
Trichloroethylene	0.001	N.D.	N.D.	••	25%
Vinyl Chloride	0.005	N.D.	N.D.		25%

Notes







EPA 1311/8240 TCLP Volatiles, continued Quality Control Data

Client:

Environmental Management Resources

Project Name:

Benenson/Bellevue

Date Extracted:

July 11, 1994

Project Number:

1153

Date Analyzed:

July 13, 1994

Laboratory Batch #

01427

Dilution Factor:

July 13, 1794

Batch Sample ID:

01427OA2

Units:

mg/L

Daten Sample 10.	01427Q11				Cuits.	mg L
	Spike	Spike	Acceptance	Spike Dup	nnn.	Acceptance
Analyte	Added	Recovery	Range	Recovery	RPD	<u>Limit</u>
_		2.484	- (0)	0.504	-01	110/
Benzene	0.050	84%	76% - 127%	86%	2%	11%
Trichloroethene	0.050	82%	71% - 120%	85%	4%	14%
Chlorobenzene	0.050	88%	75% - 130%	89%	1%	13%
				*		



Moisture Content Report

Client:

Environmental Management Resources

Project Name:

Benenson/Bellevue

Project Number:

1153

Laboratory Batch # Units:

01427 % Moisture Date Sampled:

July 11, 1994

Date Received:

July 11, 1994

Date Analyzed:

July 13, 1994

Sample Matrix:

Soil

Client Sample ID	Sample Result	Notes	Reporting Limit
PX-1	9%		1%
PX-2	6% .		1%
PX-3	8%		1%
PX-4	7%		1%
PX-5	9%		1%
PX-6	10%		1%
PX-7	8%		1%
PX-8	9%		1%
PX-9	6%		1%
STP-2	9%		1%
STP-3	8%		1%
STP-4	8%		1%
STP-5	8%		1%
STP-6	8%		1%

CHAIN OF CUSTODY RECORD



ENVIRONMENTAL MANAGEMENT RESO 2509 152nd Avenue NE, Suite B, Redmo (206) 861-4561 FAX (206				ENVIRONMEN	TAL MANAGEMENT RESC	DURCES							624/8240	625/8270	PESTICIDES/PCBs 608/8080	TURIARO	BATILE	Turath
REPORT TO: DAVID L.	Jecch					,							SOL		308/8	1		五
PROJECT NAME: BENEAS	0 N/Z	BELLE	/UE_	PA	GE L OF _					×			MA	S (B)	Bs	RUSH	Tecp	- 1
PROJECT NO.: 1153	, ,							-		/BTE		8100	ARO	TILE	S/PC	23	5	3
LABORATORY: PACIFICA	Liner	est					맞	1-418	2	9	I'S:	610/	TILE	VOL	CIDE			- 11
SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	# OF CONT'S	PRESERV.	LAB#	WTPH-HCID	WTPH-418.1	WTPH-D	WTPH-G W/BTEX	METALS:	PAH 610/8100	VOLATILE AROMATICS	SEMIVOLATILES (BNA)	PEST	OTHER:	OTHER:	THER:
PX-1	7/11/94	9:00A	SOIL	1	CHIU								X			X		10
PX-Z	1	9:10A			1													4
PY-3		9:20A																A
P X - Y		9:30A																2
PX-5		9:40A																X
PX-6		9:50A											1					A
F-X9		9:55A																5
PX-8		10:00A																THE THE PARTY OF T
P X - 9		10:05 A														V		8
STP-2		10:15A															X	V
STP-3		10:25A															X	4
STP-4		10:35A															X	XI
STP-5		10:454															X	X
STP-6	7/	11:00 A	V	1	4								V				X	X
				·													_	\vdash
Refinquished by (Signature)	Date / 94	Received by	Signature	Will	7/11/4	TURN AROU	ND TIN	ME: Ì	24 hr	. ix	48 hr.	[]2	Weeks	[]	Vormal	[]0	ther	
Printed Name DAVID L. WELCH	Time //:30 A		Printed Name		Time	SAMPLE CONDITION/		DITION/INTEGRITY:				COOL? YES NO			- 1			
Relinquished by (Signature)	Date	Received by	(Signature)		Date	REMARKS/SI	PECIAL	INSTR	JCTION	s: R	USF	4 0	, 7	P	X :	SAn	PU	3
Printed Name	Time	Printed Name	1		Time	48 H	1	OH	5	TP	SA	mpe	res		7/			



July 15, 1994

David Welch
Environmental Management Resources
2509 152nd Avenue N.E.
Suite B
Redmond, WA 98052-5551

Dear David:

Enclosed are the analytical results of samples submitted on July 14, 1994 from project Benenson/Bellevue, 1153.

If you have any questions regarding this report or if you need any other assistance, please do not hesitate to call me.

Sincerely,

Cynthia Rezania Project Chemist

CLR/lh



Client:	Environmental Management Resources	Date Sampled:	July 14, 1994
Project Name:	Benenson/Bellevue	Date Received:	July 14, 1994
Project Number:	1153	Date Extracted:	July 14, 1994
Client Sample ID:	PX-10	Date Analyzed:	July 14, 1994
Laboratory Batch #	01446	Sample Matrix:	Soil
Units:	mg/kg	Dilution Factor:	1

Ollitsmg/kg		Diluton Factor.	•
Analyte	Sample Result	Notes	Reporting Limit
Acetone	N.D.		2
Acrolein	N.D.		2
Acrylonitrile	N.D.		2
Benzene	N.D.		0.2
Bromobenzene	N.D.		0.2
Bromochloromethane	N.D.		0.4
Bromodichloromethane	N.D.		0.2
Bromoform	N.D.		0,4
Bromomethane	N.D.		0.4
n-Butylbenzene	N.D.		0.2
sec-Butylbenzene	N.D.		0.2
tert-Butylbenzene	N.D.		0.2
Carbon Disulfide	N.D.		1
Carbon tetrachloride	N.D.		0,2
Chlorobenzene	N.D.		0.2
Chloroethane	N.D.		0.2
2-Chloroethyl vinyl ether	N.D.		1
Chloroform	N.D.		0.2
Chloromethane	N.D.		0,2
2-Chlorotoluene	N.D.		0.2
4-Chlorotoluene	N.D.		0.2
Dibromochloromethane	N.D.		0.4
1,2-Dibromo-3-chloropropane	N.D.		0.5
1,2-Dibromoethane	N.D.		0.4
Dibromomethane	N.D.		0.4
1,2-Dichlorobenzene	N.D.		0.2
1,3-Dichlorobenzene	N.D.		0.2
1,4-Dichlorobenzene	N.D.		0.2
Dichlorodifluoromethane	N.D.		0.4
1,1-Dichloroethane	N.D.		0.2
1,2-Dichloroethane	N.D.		0.2
1,1-Dichloroethene	N.D.		0.2
cis-1,2-Dichloroethene	N.D.		0.2
trans-1,2-Dichloroethene	N.D.		0.2
1,2-Dichloropropane	N.D.		0.2
1,3-Dichloropropane	N.D.		0.4

votes



Client:	Environmental Manag	ement Resources	Date Sampled:	July 14, 1994
Project Name:	Benenson/Bellevue		Date Received:	July 14, 1994
Project Number:	1153		Date Extracted:	July 14, 1994
Client Sample ID:	PX-10		Date Analyzed:	July 14, 1994
Laboratory Batch #	01446		Sample Matrix:	Soil
Units:	mg/kg		Dilution Factor:	1
Analyte		Sample Result	Notes	Reporting Limit
2,2-Dichloropropane		N.D.		0.4
1,1-Dichloropropene		N.D.		0.2
cis-1,3-Dichloroprope		N.D.		0.2
rans-1,3-Dichloroprop	pene	N.D.		0.2
Ethylbenzene		N.D.		0.2
Jexachlorobutadiene		N.D.		0.2
-Hexanone		N.D.		2
sopropylbenzene		N.D.		0.2
o-Isopropyltoluene		N.D.		0.2
MEK		N.D.		2
Methylene chloride		N.D.		0.4
MIBK		N.D.		2
Naphthalene		N.D.	•	0.2
-Propylbenzene		N.D.		0.2
Styrene		N.D.		0.2
,1,1,2-Tetrachloroeth	ane	N.D.		0.2
,1,2,2-Tetrachloroeth		N.D.		0.4
Tetrachloroethene		N.D.		0.2
Coluene		N.D.		0.4
,2,3-Trichlorobenzen	e	N.D.		0.4
,2,4-Trichlorobenzen		N.D.		0.4
, I, I-Trichloroethane		N.D.	•	0.2
,1,2-Trichloroethane		N.D.		0.4
Crichloroethene		N.D.		0.2
Trichlorofluoromethar	ne	N.D.		0.2
,2,3-Trichloropropan		N.D.		0.4
,2,4-Trimethylbenzer		N.D.		0.2
,3,5-Trimethlybenzer		N.D.		0.2
Vinyl Acetate		N.D.		1
Vinyl chloride		N.D.		1
n,p,-Xylene		N.D.		0.4
-Xylene		N.D.		0.2
		Danner	Mater	A contona Desa
Surrogate Recoveries		Recovery	Notes	Acceptance Range 81%-117%
Coluene-d8	_	100%		
1-Bromofluorobenzene		100%		74%-121%
Dibromofluoromethan	e	100%		80%-120%



Client:	Environmental Management Res	ources Date Sampled:	July 14, 1994
Project Name:	Benenson/Bellevue	Date Received:	July 14, 1994
Project Number:	1153	Date Extracted:	July 14, 1994
Client Sample ID:	PX-11	Date Analyzed:	July 14, 1994
Laboratory Batch #	01446	Sample Matrix:	Soil
Units:	mg/kg	Dilution Factor:	1
Analyte	Sample R		Reporting Limit
z mary to	Sumple A	110100	Troporting Dilling
Acetone	N.D.		2
Acrolein	N.D.		2
Acrylonitrile	N.D.		2
Benzene	N.D.		0.2
Bromobenzene	N.D.		0.2
Bromochloromethane	N.D.		0.4
Bromodichloromethar			0.2
Bromoform	N.D.		0.4
Bromomethane	N.D.	•	0.4
n-Butylbenzene	N.D.		0.2
sec-Butylbenzene	N.D.		0.2
tert-Butylbenzene	N.D.		0.2
Carbon Disulfide	N.D.		1
Carbon tetrachloride	N.D.		0.2
Chlorobenzene	N.D.		0.2
Chloroethane	N.D.		0.2
2-Chloroethyl vinyl et			1
Chloroform	N.D.		0.2
Chloromethane	N.D.		0.2
2-Chlorotoluene	N.D.		0.2
4-Chlorotoluene	N.D. N.D.		0.2
Dibromochloromethat			0.4
1,2-Dibromo-3-chloro			0.5
1,2-Dibromoethane	N.D. N.D.		0.4
Dibromomethane	N.D. N.D.		0.4
1,2-Dichlorobenzene	N.D. N.D.		0.4
1,3-Dichlorobenzene	N.D. N.D.		0.2
1,4-Dichlorobenzene	N.D. N.D.		0.2
Dichlorodifluorometh			0.4
1,1-Dichloroethane	N.D. N.D.		0.2
1,2-Dichloroethane	N.D.		0.2
1,1-Dichloroethene	N.D.		0.2
cis-1,2-Dichloroethen			0.2
trans-1,2-Dichloroeth			0.2
1,2-Dichloropropane	N.D.		0.2
1,3-Dichloropropane	N.D. N.D.		0.4
1,3-Dicinoropropane	N.D.		₩.₩



Client:		Management Resources	Date Sampled:	July 14, 1994
Project Name:	Benenson/Belleve	ue	Date Received:	July 14, 1994
Project Number:	1153		Date Extracted:	July 14, 1994
Client Sample ID:	PX-11		Date Analyzed:	July 14, 1994
Laboratory Batch #	01446		Sample Matrix:	Soil
Units:	mg/kg		Dilution Factor:	1
Analyte	-	Sample Result	Notes	Reporting Limit
2,2-Dichloropropane		N.D.		0.4
1,1-Dichloropropene		N.D.		0.2
cis-1,3-Dichloroprope	ne	N.D.		0.2
rans-1,3-Dichloropro	pene	N.D.		0.2
Ethylbenzene		N.D.		0.2
Hexachlorobutadiene		N.D.		0.2
-Hexanone		N.D.		2
sopropylbenzene		N.D.		0.2
-Isopropyltoluene		N.D.		0.2
MEK		N.D.		2
Methylene chloride		N.D.		0.4
MIBK ·		N.D.		2
Naphthalene		N.D.		0.2
-Propylbenzene		N.D.		0.2
Styrene		N.D.		0.2
,1,1,2-Tetrachloroeth	ane	N.D.		0.2
,1,2,2-Tetrachloroeth	ane	N.D.		0.4
Tetrachloroethene		1.9		0.2
Coluene		N.D.		0.4
,2,3-Trichlorobenzen	e	N.D.		0.4
,2,4-Trichlorobenzen	e	N.D.		0.4
,1,1-Trichloroethane		N.D.		. 0.2
,1,2-Trichloroethane		N.D.		0.4
Trichloroethene		N.D.		0.2
	ne	N.D.		0.2
,2,3-Trichloropropan	e	N.D.		0.4
,2,4-Trimethylbenzer	ne	N.D.		0.2
,3,5-Trimethlybenzer	ne	N.D.		0.2
Vinyl Acetate		N.D.		1
Vinyl chloride		N.D.		1
n,p,-Xylene		N.D.		0.4
o-Xylene		N.D.		0.2
Surrogate Recoveries		Recovery	Notes	Acceptance Range
Toluene-d8		99%		81%-117%
-Bromofluorobenzene	2	99%		74%-121%
Dibromofluoromethan	e	95%		80%-120%



Project Name: Project Number:	Environmental Management Resources Benenson/Bellevue	Date Sampled:	July 14, 1994
Project Number:	Deliciisoid Delicare		July 14, 1994
	1153	Date Received: Date Extracted:	July 14, 1994
Client Semple ID:	PX-12	Date Analyzed:	July 14, 1994
•	01446	Sample Matrix:	Soil
•	mg/kg	Dilution Factor:	1
Analyte	Sample Result	Notes	Reporting Limit
Analyte	Sample Result	110103	Reporting Limit
Acetone	N.D.		2
Acrolein	N.D.		2
Acrylonitrile	N.D.		2
Benzene	N.D.		0.2
Bromobenzene	N.D.		0.2
Bromochloromethane	N.D.		0.4
Bromodichloromethane	N.D.		0.2
Bromoform	N.D.		0.4
Bromomethane	N.D.		0.4
n-Butylbenzene	N.D.		0.2
sec-Butylbenzene	N.D.		0.2
tert-Butylbenzene	N.D.		0.2
Carbon Disulfide	N.D.		1
Carbon tetrachloride	N.D.		0.2
Chlorobenzene	N.D.		0.2
Chloroethane	N.D.		0.2
2-Chloroethyl vinyl eth	er N.D.		I
Chloroform	N.D.		0.2
Chloromethane	N.D.		0.2
2-Chlorotoluene	N.D.		0.2
4-Chlorotoluene	N.D.		0.2
Dibromochloromethane	N.D.		0.4
1,2-Dibromo-3-chlorop	ropane N.D.		0.5
1,2-Dibromoethane	N.D.		0.4
Dibromomethane	N.D.		0.4
1,2-Dichlorobenzene	N.D.		0.2
1,3-Dichlorobenzene	N.D.		0.2
1,4-Dichlorobenzene	N.D.		0.2
Dichlorodifluoromethan			0.4
1,1-Dichloroethane	N.D.		0.2
1,2-Dichloroethane	N.D.		0.2
1,1-Dichloroethene	N.D.		0.2
cis-1,2-Dichloroethene	N.D.		0.2
trans-1,2-Dichloroether			0.2
1,2-Dichloropropane	N.D.		0.2
1,3-Dichloropropane	N.D.		0.4



Client:	Environmental Manag	gement Resources	Date Sampled:	July 14, 1994
Project Name:	Benenson/Bellevue		Date Received:	July 14, 1994
Project Number:	1153		Date Extracted:	July 14, 1994
Client Sample ID:	PX-12		Date Analyzed:	July 14, 1994
Laboratory Batch #	01446		Sample Matrix:	Soil
Units:	mg/kg		Dilution Factor:	1
Analyte		Sample Result	Notes	Reporting Limit
2,2-Dichloropropane		N.D.		0.4
1,1-Dichloropropene		N.D.		0.2
cis-1,3-Dichloroprope		N.D.		0.2
rans-1,3-Dichloropro	pene	N.D.		0.2
Ethylbenzene		N.D.		0.2
Hexachlorobutadiene		N.D.		0.2
2-Hexanone		N.D.		2
isopropylbenzene		N.D.		0.2
p-Isopropyltoluene		N.D.		0.2
MEK		N.D.		2
Methylene chloride		N.D.		0.4
MIBK		N.D.	1	2
Naphthalene		N.D.	·	0.2
n-Propylbenzene		N.D.		0.2
Styrene		N.D.		0.2
1,1,1,2-Tetrachioroeti	hane	N.D.		0.2
1,1,2,2-Tetrachloroet	hane	N.D.		0.4
Tetrachloroethene		N.D.		0.2
l'oluene		N.D.		0.4
l,2,3-Trichlorobenzei	ne	N.D.		0.4
1,2,4-Trichlorobenzei	ne	N.D.		0.4
l, l, l-Trichloroethane	1	N.D.		0.2
1,1,2-Trichloroethane	;	N.D.		0.4
Frichloroethene		N.D.		0.2
Trichlorofluorometha	ne	N.D.		0.2
1,2,3-Trichloropropar	ne	N.D.		0.4
,2,4-Trimethylbenze	ne	N.D.		0.2
,3,5-Trimethlybenze	ne	N.D.		0.2
Vinyl Acetate		N.D.		1
Vinyl chloride		N.D.		1
n,p,-Xylene		N.D.		0.4
o-Xylene		N.D.		0.2
Surrogate Recoveries		Recovery	Notes	Acceptance Range
Foluene-d8		100%		81%-117%
l-Bromofluorobenzen	e	96%		74%-121%
Dibromofluoromethar	ıe	109%		80%-120%



Client:

Environmental Management Resources

Project Name:

Benenson/Bellevue

Date Extracted:

July 14, 1994

Project Number:

1153

Date Analyzed:

July 14, 1994

Laboratory Batch #

01446

Dilution Factor:

Laboratory Batch # U1446		Ditutor Factor: 1		
Sample ID: Method Blank		Units:	mg/kg	
Analyte	Sample Result	Notes	Reporting Limit	
Acetone	N.D.		2	
Acrolein	N.D.		2	
Acrylonitrile	N.D.		2	
Benzene	N.D.		0:2	
Bromobenzene	N.D.		0,2	
Bromochloromethane	N.D.		0.4	
Bromodichloromethane	N.D.		0.2	
Bromoform	N.D.		0.4	
Bromomethane	N.D.		0.4	
n-Butylbenzene	N.D.		0.2	
sec-Butylbenzene	N.D.		0.2	
tert-Butylbenzene	N.D.		0,2	
Carbon Disulfide	N.D.		1	
Carbon tetrachloride	N.D.		0.2	
Chlorobenzene	N.D.		0.2	
Chloroethane	N.D.		0.2	
2-Chloroethyl vinyl ether	N.D.		1	
Chloroform	N.D.		0.2	
Chloromethane	N.D.		0.2	
2-Chlorotoluene	N.D.		0.2	
4-Chlorotoluene	N.D.		0.2	
Dibromochloromethane	N.D.		0.4	
1,2-Dibromo-3-chloropropane	N.D.		0.5	
1,2-Dibromoethane	N.D.		0.4	
Dibromomethane	N.D.		0.4	
1,2-Dichlorobenzene	N.D.		0.2	
1,3-Dichlorobenzene	N.D.		0.2	
1,4-Dichlorobenzene	N.D.		0,2	
Dichlorodifluoromethane	N.D.		0.4	
1,1-Dichloroethane	N.D.		0.2	
1,2-Dichloroethane	N.D.		0.2	
1,1-Dichloroethene	N.D.		0.2	
cis-1,2-Dichloroethene	N.D.		0.2	
trans-1,2-Dichloroethene	N.D.		0.2	
1,2-Dichloropropane	N.D.		0.2	
1,3-Dichloropropane	N.D.		0.4	

Notes



Client:	Environmental Management Resources		
Project Name:	Benenson/Bellevue	Date Extracted:	July 14, 1994
Project Number:	1153	Date Analyzed:	July 14, 1994
Laboratory Batch #	01446	Dilution Factor:	1
Sample ID:	Method Blank	Units:	mg/kg
Analyte	Sample Result	Notes	Reporting Limit
2,2-Dichloropropane	N.D.		0.4
1,1-Dichloropropene	N.D.		0.2
cis-1,3-Dichloropropene	N.D.		0.2
trans-1,3-Dichloropropene	N.D.		0.2
Ethylbenzene	N.D.		0.2
Hexachlorobutadiene	N.D.		0.2
2-Hexanone	N.D.		2
Isopropylbenzene	N.D.		0.2
p-Isopropyltoluene	N.D.		0.2
MEK	N.D.		2
Methylene chloride	N.D.		0.4
MIBK	N.D.		2
Naphthalene	N.D.		0.2
n-Propylbenzene	N.D.		0.2
Styrene	N.D.		0.2
1,1,2-Tetrachloroethane	N.D.		0.2
1,1,2,2-Tetrachloroethane	N.D.		0.4
Tetrachloroethene	N.D.		0.2
Toluene	N.D.		0.4
1,2,3-Trichlorobenzene	N.D.		0.4
1,2,4-Trichlorobenzene	N.D.		0.4
1,1,1-Trichloroethane	N.D.		0.2
1,1,2-Trichloroethane	N.D.		0.4
Trichloroethene	N.D.		0.2
Trichlorofluoromethane	N.D.		0.2
1,2,3-Trichloropropane	N.D		0.4
1,2,4-Trimethylbenzene	N.D.		0.2
1,3,5-Trimethlybenzene	N.D.		0.2
Vinyl Acetate	N.D.		1
Vinyl chloride	N.D.		1
m,p,-Xylene	N.D.		0.4
o-Xylene	N.D.		0.2
Currogate Decorprise	Pacover	Notes	Acceptance Range
Surrogate Recoveries	Recovery 101%	INUICS	81% - 117%
Toluene-d8			74% - 121%
4-Bromofluorobenzene	97%		
Dibromofluoromethane	97%		80% - 120%



Client:

Environmental Management Resources

Project Name:

Benenson/Bellevue

Project Number: Laboratory Batch # 01446

1153

Date Extracted:

July 14, 1994 July 14, 1994

Date Analyzed: Dilution Factor: 1

Batch Sample ID: 01446QA	+		U	nits:	mg/kg
	Reporting	Sample	Duplicate		Acceptance
Analyte	Limit	Result	Result	RPD	Limit
Acetone	2	N.D.	N.D.		30%
Acrolein	2	N.D.	N.D.		30%
Acrylonitrile	. 2	N.D.	N.D.		30%
Benzene	0.2	N.D.	N.D.		30%
Bromobenzene	0.2	N.D.	N.D.		30%
Bromochloromethane	0.4	N.D.	N.D.		30%
Bromodichloromethane	0.2	N.D.	N.D.		30%
Bromoform	0.4	N.D.	N.D.		30%
Bromomethane	0.4	N.D.	N.D.		30%
n-Butylbenzene	0.2	N.D.	N.D.		30%
sec-Butylbenzene	0.2	N.D.	N.D.		30%
ert-Butylbenzene	0.2	N.D.	N.D.		30%
Carbon Disulfide	1	N.D.	N.D.		30%
Carbon tetrachloride	0.2	N.D.	N.D.		30%
Chlorobenzene	0.2	N.D.	N.D.	·	30%
Chloroethane	0.2	N.D.	N.D.		30%
2-Chloroethyl vinyl ether	1	N.D.	N.D.		30%
Chloroform	0.2	N.D.	N.D.		30%
Chloromethane	0.2	N.D.	N.D.		30%
2-Chlorotoluene	0.2	N.D.	N.D.		30%
4-Chlorotoluene	0.2	N.D.	N.D.		30%
Dibromochloromethane	0.4	N.D.	N.D.		30%
1,2-Dibromo-3-chloropropane	0.5	N.D.	N.D.		30%
1,2-Dibromoethane	0.4	N.D.	N.D.		30%
Dibromomethane	0.4	N.D.	N.D.		30%
1,2-Dichlorobenzene	0.2	N.D.	N.D.	-	30%
1,3-Dichlorobenzene	0.2	N.D.	N.D.		30%
1,4-Dichlorobenzene	0.2	N.D.	N.D.		30%
Dichlorodifluoromethane	0.4	N.D.	N.D.		30%
I,1-Dichloroethane	0.2	N.D.	N.D.		30%
1,2-Dichloroethane	0.2	N.D.	N.D.		30%
1,1-Dichloroethene	0.2	N.D.	N.D.	. ,	-30%
cis-1,2-Dichloroethene	0.2	N.D.	N.D.		30%
rans-1,2-Dichloroethene	0.2	N.D.	N.D.		30%
1,2-Dichloropropane	. 0.2	N.D.	N.D.		30%
1,3-Dichloropropane	0.4	N.D. N.D.	N.D.		30%
Notes	U, 4	14.D.	14.12.		3070



Client:

Environmental Management Resources

Project Name:

Benenson/Bellevue

Project Number:

1153

Date Extracted:

July 14, 1994

Laboratory Batch #

01446

Date Analyzed:

July 14, 1994

Dilution Factor:

or: 1

Batch Sample ID: 01446QA Units: mg/kg

	Reporting	Sample	Duplicate	•	Acceptance
Analyte	Limit	Result	Result	RPD	Limit
2,2-Dichloropropane	0.4	N.D.	N.D.		30%
1,1-Dichloropropene	0.2	N.D.	N.D.		30%
cis-1,3-Dichloropropene	0.2	N.D.	N.D.		30%
rans-1,3-Dichloropropene	0.2	N.D.	N.D.		30%
Ethylbenzene	0.2	N.D.	N.D.		30%
łexachlorobutadiene	0.2	N.D.	N.D.		30%
-Hexanone	2	N.D.	N.D.		30%
sopropylbenzene	0.2	N.D.	N.D.		30%
-Isopropyltoluene	0.2	N.D.	N.D.		30%
MEK	2	N.D.	N.D.		30%
Methylene chloride	0.4	N.D.	N.D.		30%
MIBK .	2	N.D.	N.D.	**	30%
Naphthalene	0.2	N.D.	N.D.		30%
ı-Propylbenzene	0.2	N.D.	N.D.		30%
Styrene	0.2	N.D.	N.D.		30%
,1,1,2-Tetrachloroethane	0.2	N.D.	N.D.		30%
,1,2,2-Tetrachloroethane	0.4	N.D.	N.D.		30%
Tetrachloroethene	0.2	1.9	1.8	5%	30%
Toluene	0.4	N.D.	N.D.	_	30%
,2,3-Trichlorobenzene	0.4	N.D.	N.D.		30%
,2,4-Trichlorobenzene	0.4	N.D.	N.D.		30%
,1,1-Trichloroethane	0.2	N.D.	N.D.		30%
,1,2-Trichloroethane	0.4	N.D.	N.D.		30%
Trichloroethene	0.2	N.D.	N.D.	-	30%
richlorofluoromethane	0.2	N.D.	N.D.		30%
,2,3-Trichloropropane	0.4	N.D.	N.D.		30%
,2,4-Trimethylbenzene	0.2	N.D.	N.D.		30%
,3,5-Trimethlybenzene	0.2	N.D.	N.D.		30%
/inyl Acetate	1	N.D.	N.D.		30%
/inyl chloride	1	N.D.	N.D.		30%
n,p,-Xylene	0.4	N.D.	N.D.		30%
-Xylene	0.2	N.D.	N.D.		30%

Notes



Client:

Environmental Management Resources

Project Name:

Benenson/Bellevue

Date Extracted:

July 14, 1994

Project Number:

1153

Date Analyzed:

July 14, 1994

Laboratory Batch #

01446

Dilution Factor:

Batch Sample ID:	01446QA				Units:	mg/kg
	Spike	Spike	Acceptance	Spike Dup		Acceptance
Analyte	Added	Recovery	Range	Recovery	RPD	Limit
		1				
1,1-Dichloroethene	5	71%	59% - 172%	71%	< 1%	22%
Benzene	5	86%	66% - 142%	88%	2%	21%
Trichloroethene	5	87%	62% - 137%	85%	2%	24%
Toluene	5	85%	59% - 139%	87%	2%	21%
Chlorobenzene	5	93%	60% - 133%	92%	1%	21%



Moisture Content Report

Client:

Environmental Management Resources

Project Name:

Benenson/Bellevue

Project Number:

1153

Laboratory Batch # **Units:**

01446

% Moisture

Date Sampled: Date Received:

July 14, 1994. July 14, 1994

Date Analyzed:

July 15, 1994

Sample Matrix: Soil

Client Sample ID	Sample Result	Notes	Reporting Limit
PX-10	9%		1%
PX-11	11%		1%
PX-12	8%		1%



71446

ENVIRONMENTAL MANAGEMENT RESOURCES **ENVIRONMENTAL MANAGEMENT RESOURCES, INC.** 625/8270 2509 152nd Avenue NE, Suite B, Redmond, WA 98052 (206) 861-4561 FAX (206) 869-7820 VOLATILE AROMATICS REPORT TO: SEMIVOLATILES (BNA) PROJECT NAME: BEHENSON /BELLEVUS PAGE / OF / PESTICIDES/PCBs PAH 610/8100 PROJECT NO .: WTPH-418.1 LABORATORY: WTPH-D OTHER: OTHER: # OF SAMPLE IDENTIFICATION DATE TIME MATRIX PRESERV. LAB# CONT'S 3'00 CHICL 3.30 3 4:000 5 11 Received by (Signature) **TURN AROUND TIME:** [] 24 hr. [] 48 hr. [] 2 Weeks [] Normal [] Other SAMPLE CONDITION/INTEGRITY: COOL? YES NO Relinquished by (Signature) Received by (Signature) REMARKS/SPECIAL INSTRUCTIONS: RUSH TURNAROSIN Printed Name Time Printed Name



July 19, 1994

David L. Welch
Environmental Management Resources
2509 152nd Avenue N.E.
Suite B
Redmond, WA 98052-5551

Dear David:

Enclosed are the analytical results of samples submitted on July 15, 1994 from project Benenson Bellevue, 1153.

If you have any questions regarding this report or if you need any other assistance, please do not hesitate to call me.

Sincerely,

Cynthia Rezania Project Chemist

CLR/lh



EPA 8240 Volatile Organic Compounds

	man, man			
Client:	Environmental Management Resources	Date Sampled:	July 15, 1994	
Project Name:	Benenson Bellevue	Date Received:	July 15, 1994	
Project Number:	1153	Date Extracted:	July 15, 1994	
Client Sample ID:	PX-13	Date Analyzed:	July 15, 1994	
Laboratory Batch #	01452	Sample Matrix:	Soil	
Units:	mg/kg	Dilution Factor:	1	

Analyte	Sample Result	Notes	Reporting Limit
Acetone	N.D.		2
Acrolein	N.D.		2
Acrylonitrile	N.D.		2
Benzene	N.D.		0.2
Bromobenzene	N.D.		0.2
Bromochloromethane	N.D.		0.4
Bromodichloromethane	N.D.		0.2
Bromoform	N.D.		0.4
Bromomethane	N.D.		0.4
n-Butylbenzene	N.D.		0.2
sec-Butylbenzene	N.D.		0.2
tert-Butylbenzene	N.D.		0.2
Carbon Disulfide	N.D.		1
Carbon tetrachloride	N.D.		0.2
Chlorobenzene	N.D.		0.2
Chloroethane	N.D.		0.2
2-Chloroethyl vinyl ether	N.D.	•	1
Chloroform	N.D.		0.2
Chloromethane	N.D.		0.2
2-Chlorotoluene	N.D.		0.2
4-Chlorotoluene	N.D.		0.2
Dibromochloromethane	N.D.		0.4
1,2-Dibromo-3-chloropropane	N.D.		0.5
1,2-Dibromoethane	N.D.		0.4
Dibromomethane	N.D.		0.4
1,2-Dichlorobenzene	. N.D.		0.2
1,3-Dichlorobenzene	N.D.		0.2
1,4-Dichlorobenzene	N.D.		0.2
Dichlorodifluoromethane	N.D.		0.4
1,1-Dichloroethane	N.D.		0.2
1,2-Dichloroethane	N.D.		0.2
1,1-Dichloroethene	N.D.		0.2
cis-1,2-Dichloroethene	N.D.		0.2
trans-1,2-Dichloroethene	N.D.		0.2
1,2-Dichloropropane	N.D.		0.2
1,3-Dichloropropane	N.D.		0.4

Notes





EPA 8240 Volatile Organic Compounds, continued

Benenson Bellevue 1153		Date Received:	July 15, 1994 July 15, 1994
			JULY 1J, 1774
		Date Extracted:	July 15, 1994
PX-13		Date Analyzed:	July 15, 1994
01452		Sample Matrix:	Soil
mg/kg		Dilution Factor:	1
	Sample Result	Notes	Reporting Limit
	N.D.		0.4
	N.D.		0.2
	N.D.	•	0.2
ene	N.D.		0.2
	N.D.		0.2
	N.D.		0.2
	N.D.		2
	N.D.		0.2
	N.D.		0.2
	2.0		2
	N.D.		0.4
	N.D.		2
~	N.D.		0.2
	N.D.		0.2
	N.D.		0.2
	N.D.		0.2
ne	N.D.		0.4
	N.D.		0.2
	N.D.		0.4
	N.D.		0.4
	N.D.		0.4
	N.D.		0.2
	N.D.	1	0.4
			0.2
:			0.2
			0.4
			0.2
			0.2
			1
			1
			0.4 ⁻
	N.D.		0.2
	Recovery	Notes	Acceptance Range
			81%-117%
	97%		74%-121%
	102%		80%-120%
֭֓֝֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֓֓֓֓֓֜֜֜֜֜֜֜֜	e ene ne	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.	Sample Result Notes



EPA 8240 Volatile Organic Compounds

Analyte		e Result Notes	Reporting Limit
Units:	mg/kg	Dilution Factor:	1
Laboratory Batch #	01452	Sample Matrix:	Soil
Client Sample ID:	PX-14	Date Analyzed:	•
Project Number:	1153	Date Extracted:	• •
Project Name:	Benenson Bellevue	Date Received:	July 15, 1994
Client:	Environmental Management	-	July 15, 1994

Analyte	Sample Result	Notes	Reporting Limit
Acetone	N.D.		2
Acrolein	N.D.		2
Acrylonitrile	N.D.		2
Benzene	N.D.		0.2
Bromobenzene	N.D.		0.2
Bromochloromethane	N.D.		0.4
Bromodichloromethane	N.D.		0.2
Bromoform	N.D.		0.4
Bromomethane	N.D.		0.4
n-Butylbenzene	N.D.		0.2
sec-Butylbenzene	N.D.		0.2
tert-Butylbenzene	N.D.		0.2
Carbon Disulfide	N.D.		1
Carbon tetrachloride	N.D.		0.2
Chlorobenzene	N.D.		0.2
Chloroethane	N.D.		0.2
2-Chloroethyl vinyl ether	N.D.		1
Chloroform	N.D.		0.2
Chloromethane	N.D.		0.2
2-Chlorotoluene	N.D.		0.2
4-Chlorotoluene	N.D.		0.2
Dibromochloromethane	N.D.		0.4
1,2-Dibromo-3-chloropropane	N.D.		0.5
1,2-Dibromoethane	N.D.		0.4
Dibromomethane	N.D.		0.4
1,2-Dichlorobenzene	N.D.		0.2
1,3-Dichlorobenzene	N.D.		0.2
1,4-Dichlorobenzene	N.D.		0.2
Dichlorodifluoromethane	N.D.		0.4
1,1-Dichloroethane	N.D.		0.2
1,2-Dichloroethane	N.D.		0.2
1,1-Dichloroethene	N.D.		0.2
cis-1,2-Dichloroethene	N.D.		0.2
trans-1,2-Dichloroethene	N.D.		0.2
1,2-Dichloropropane	N.D.		0.2
1,3-Dichloropropane	N.D.		0.4

Notes



EPA 8240 Volatile Organic Compounds, continued

Analyte		le Result	Notes	Reporting Limit
Units:	mg/kg		Dilution Factor:	1
Laboratory Batch #	01452		Sample Matrix:	Soil
Client Sample ID:	PX-14		Date Analyzed:	July 15, 1994
Project Number:	1153		Date Extracted:	July 15, 1994
Project Name:	Benenson Bellevue		Date Received:	July 15, 1994
Client:	Environmental Management R	Resources	Date Sampled:	July 15, 1994

Analyte	Sample Result	Notes	Reporting Limit
2,2-Dichloropropane	N.D.		0.4
1,1-Dichloropropene	N.D.		0.2
cis-1,3-Dichloropropene	N.D.		0.2
trans-1,3-Dichloropropene	N.D.		0,2
Ethylbenzene	N.D.		0.2
Hexachlorobutadiene	N.D.		0.2
2-Hexanone	N.D.		2
[sopropylbenzene	N.D.		0.2
o-Isopropyltoluene	N.D.		0.2
MEK	N.D.		2
Methylene chloride	· N.D.		0.4
MIBK	N.D.		2
Naphthalene	N.D.		0.2
n-Propylbenzene	N.D.		0.2
Styrene	N.D.		0.2
1,1,1,2-Tetrachloroethane	N.D.		0.2
,1,2,2-Tetrachloroethane	N.D.		0.4
Tetrachloroethene	0.85		0.2
Coluene	N.D.		0.4
1,2,3-Trichlorobenzene	N.D.		0.4
1,2,4-Trichlorobenzene	N.D.		0.4
,1,1-Trichloroethane	N.D.		0.2
,1,2-Trichloroethane	N.D.		0.4
Crichloroethene	N.D.		0.2
Crichlorofluoromethane	N.D.		0.2
,2,3-Trichloropropane	N.D.		0.4
,2,4-Trimethylbenzene	N.D.		0.2
,3,5-Trimethlybenzene	N.D.		0.2
/inyl Acetate	N.D.		1
/inyl chloride	N.D.		1
n,p,-Xylene	N.D.		0.4
-Xylene	N.D.		0.2

Surrogate Recoveries	Recovery	Notes	Acceptance Range
Toluene-d8	99%		81%-117%
4-Bromofluorobenzene	96%		74%-121%
Dibromofluoromethane	99%		80%-120%



Client: Environmental Management Resources

Project Name: Benenson Bellevue Date Extracted: July 15, 1994
Project Number: 1153 Date Analyzed: July 15, 1994

Laboratory Batch # 01452 Dilution Factor: 1 **Method Blank** Sample ID: Units: mg/kg Analyte Sample Result Notes Reporting Limit Acetone N.D. 2 Acrolein N.D. 2 Acrylonitrile N.D. 2 Benzene N.D. 0.2 Bromobenzene N.D. 0.2 Bromochloromethane N.D. 0.4 Bromodichloromethane N.D. 0.2 **Bromoform** N.D. 0.4 **Bromomethane** N.D. 0.4 n-Butylbenzene N.D. 0.2 sec-Butylbenzene N.D. 0.2 tert-Butylbenzene N.D. 0.2 Carbon Disulfide N.D. 1 Carbon tetrachloride N.D. 0.2 Chlorobenzene N.D. 0.2 Chloroethane N.D. 0.2 2-Chloroethyl vinyl ether N.D. 1 Chloroform N.D. 0.2 Chloromethane N.D. 0.2 2-Chlorotoluene N.D. 0.2 4-Chlorotoluene N.D. 0.2 Dibromochloromethane N.D. 0.4 1,2-Dibromo-3-chloropropane N.D. 0.5 1,2-Dibromoethane N.D. 0.4 Dibromomethane N.D. 0.4 1,2-Dichlorobenzene N.D. 0.2 1,3-Dichlorobenzene N.D. 0.2 1,4-Dichlorobenzene N.D. 0.2 Dichlorodifluoromethane N.D. 0.4 1,1-Dichloroethane N.D. 0.2 1,2-Dichloroethane N.D. 0.2 1,1-Dichloroethene N.D. 0.2 cis-1,2-Dichloroethene N.D. 0.2 trans-1,2-Dichloroethene N.D. 0.2 1,2-Dichloropropane N.D. 0.2

N.D.-Not detected above the reporting limit.

1,3-Dichloropropane

0.4

N.D.



Client: Envir mental Management Resources Project Name: Benenson Bellevue Date Extracted: July 15, 1994 Project Number: 1153 Date Analyzed: July 15, 1994

Laboratory Batch # 01452 Dilution Factor: 1

Sample ID: **Method Blank** Units: mg/kg Analyte Sample Result Notes Reporting Limit 2,2-Dichloropropane N.D. 0.4 1,1-Dichloropropene N.D. 0.2 cis-1,3-Dichloropropene N.D. 0.2 trans-1,3-Dichloropropene N.D. 0.2 Ethylbenzene N.D. 0.2 Hexachlorobutadiene N.D. 0.2 2-Hexanone N.D. 2 Isopropylbenzene N.D. 0.2 p-Isopropyltoluene N.D. 0.2 MEK N.D. 2 Methylene chloride N.D. 0.4 **MIBK** N.D. 2 Naphthalene N.D. 0.2 n-Propylbenzene N.D. 0.2 Styrene N.D. 0.2 1,1,1,2-Tetrachloroethane N.D. 0.2 1,1,2,2-Tetrachloroethane N.D. 0.4 Tetrachloroethene N.D. 0.2 Toluene N.D. 0.4 1.2.3-Trichlorobenzene N.D. 0.4 1,2,4-Trichlorobenzene N.D. 0.4 1,1,1-Trichloroethane N.D. 0.2 1.1.2-Trichloroethane N.D. 0.4 Trichloroethene N.D. 0.2 Trichlorofluoromethane N.D. 0.2 1,2,3-Trichloropropane N.D. 0.4 1,2,4-Trimethylbenzene N.D. 0.2 1,3,5-Trimethlybenzene N.D. 0.2 Vinyl Acetate N.D. 1 Vinyl chloride N.D. 1 m,p,-Xylene N.D. 0.4 N.D. o-Xylene 0.2

Surrogate Recoveries	Recovery	Notes	Acceptance Range
Toluene-d8	104%		81% - 117%
4-Bromofluorobenzene	103%		74% - 121%
Dibromofluoromethane	109%		80% - 120%



Laboratory Batch # Batch Sample ID: Project Name: Project Number: Client: 01452 01452QA Benenson Bellevue **Environmental Management Resources** Dilution Factor: Date Analyzed: Date Extracted: mg/kg July 15, 1994 July 15, 1994

Batch Sample ID: 01452QA				Onics:	mg/kg
	Reporting	Sample	Duplicate		Acceptance
Analyte	Limit	Result	Result	RPD	Limit
Acetone	2	N.D.	N.D.	í	30%
Acrolein	2	N.D.	N.D.	i	30%
Acrylonitrile	2	N.D.	N.D.	ı	30%
Benzene	0.2	N.D.	N.D.	ı	30%
Bromobenzene	0.2	N.D.	N.D.	ſ	30%
Bromochloromethane	0.4	N.D.	N.D.	ı	30%
Bromodichloromethane	0.2	N.D.	N.D.	ı	30%
Bromoform	0.4	N.D.	N.D.	1	30%
Bromomethane	0.4	N.D.	N.D.	i	30%
n-Butylbenzene	0.2	N.D.	N.D.	:	30%
sec-Butylbenzene	0.2	N.D.	N.D.	i	30%
tert-Butylbenzene	0.2	N.D.	N.D.	1	30%
Carbon Disulfide	_	N.D.	N.D.	1	30%
Carbon tetrachloride	0.2	N.D.	N.D.	1	30%
Chlorobenzene	0.2	N.D.	N.D.	1	30% ∵
Chloroethane	0.2	N.D.	N.D.	1	30%
2-Chloroethyl vinyl ether	_	N.D.	N.D.	:	30%
Chloroform	0.2	N.D.	N.D.	i	30%
Chloromethane	0.2	N.D.	N.D.	1	30%
2-Chlorotoluene	0.2	N.D.	N.D.	1	30%
4-Chlorotoluene	0.2	N.D.	N.D.	ı	30%
Dibromochloromethane	0.4	N.D.	N.D.	ı	30%
1,2-Dibromo-3-chloropropane	0.5	N.D.	N.D.	ı	30%
1,2-Dibromoethane	0.4	N.D.	N.D.	1	30%
Dibromomethane	0.4	N.D.	N.D.	1	30%
1,2-Dichlorobenzene	0.2	N.D.	N.D.	ı	30%
1,3-Dichlorobenzene	0.2	N.D.	N.D.	1	30%
1,4-Dichlorobenzene	0.2	N.D.	N.D.	ţ	30%
Dichlorodifluoromethane	0.4	N.D.	N.D.	1	30%
1,1-Dichloroethane	0.2	N.D.	N.D.	1	30%
1,2-Dichloroethane	0.2	N.D.	N.D.	:	30%
1,1-Dichloroethene	0.2	N.D.	N.D.	1	30%
cis-1,2-Dichloroethene	0.2	N.D.	N.D.	ı	30%
trans-1,2-Dichloroethene	0.2	N.D.	N.D.	ı	30%
1,2-Dichloropropane	0.2	N.D.	N.D.	1	30%
1,3-Dichloropropane	0.4	N.D.	N.D.	ı	30%
Notes					



Client:

Environmental Management Resources

Project Name:

Benenson Bellevue

Project Number:

1153

Date Extracted: Date Analyzed: July 15, 1994 July 15, 1994

Laboratory Batch #

01452

Dilution Factor:

Batch Sample ID: 01452Q	A		τ	Inits:	mg/kg
	Reporting	Sample	Duplicate		Acceptance
Analyte	Limit	Result	Result	RPD	Limit
2,2-Dichloropropane	0.4	N.D.	N.D.	-	30%
1,1-Dichloropropene	0.2	N.D.	N.D.		30%
cis-1,3-Dichloropropene	0.2	N.D.	N.D.		30%
trans-1,3-Dichloropropene	0.2	N.D.	N.D.	••	30%
Ethylbenzene	0.2	N.D.	N.D.		30%
Hexachlorobutadiene	0.2	N.D.	N.D.	**	30%
2-Hexanone	2	N.D.	N.D.		30%
Isopropylbenzene	0.2	N.D.	N.D.		30%
p-Isopropyltoluene	0.2	N.D.	N.D.		30%
MEK	2	N.D.	N.D.		30%
Methylene chloride	0.4	N.D.	N.D.		30%
MIBK	2	N.D.	N.D.		30%
Naphthalene	0.2	N.D.	N.D.		30%
n-Propylbenzene	0.2	N.D.	N.D.		30%
Styrene	0.2	N.D.	N.D.		30%
1,1,2-Tetrachloroethane	0.2	N.D.	N.D.		30%
1,1,2,2-Tetrachloroethane	0.4	N.D.	N.D.	-	30%
Tetrachloroethene	0.2	0.85	0.80	6%	30%
l'oluene	0.4	N.D.	N.D.		30%
1,2,3-Trichlorobenzene	0.4	N.D.	N.D.		30%
1,2,4-Trichlorobenzene	0.4	N.D.	N.D.		30%
l,1,1-Trichloroethane	0.2	N.D.	N.D.	-	30%
1,1,2-Trichloroethane	0.4	N.D.	N.D.		30%
richloroethene	0.2	N.D.	N.D.		30%
Frichlorofluoromethane	0.2	N.D.	N.D.		30%
1,2,3-Trichloropropane	0.4	N.D.	N.D.		30%
1,2,4-Trimethylbenzene	0.2	N.D.	N.D.	_	30%
,3,5-Trimethlybenzene	0.2	N.D.	N.D.		30%
Vinyl Acetate	1	N.D.	N.D.	 .	30%
Vinyl chloride	1	N.D.	N.D.		30%
m,p,-Xylene	0.4	N.D.	N.D.		30%
o-Xylene	0.2	N.D.	N.D.		30%

Notes



Trichloroethene

Chlorobenzene

Toluene

EPA 8240 Volatile Organic Compounds, continued Quality Control Data

Client: Environmental Management Resources

5

5

5

84%

86%

93%

Project Name: Benenson Bellevue Date Extracted: July 15, 1994
Project Number: 1153 Date Analyzed: July 15, 1994

Laboratory Batch # 01452 Dilution Factor: 1
Batch Sample ID: 01452QA Units: mg/kg

Spike Spike Acceptance Spike Dup Acceptance RPD Limit Added Recovery Range Recovery Analyte 69% 70% 1% 22% 5 59% - 172% 1,1-Dichloroethene 1% 21% 5 87% Benzene 86% 66% - 142%

83%

89%

92%

62% - 137%

59% - 139%

60% - 133%

1%

3%

1%

24%

21%

21%

Page 9 of 10





Moisture Content Report

Client:

Environmental Management Resources

Project Name:

Benenson Bellevue

Project Number: Laboratory Batch # 1153

Units:

01452

% Moisture

Date Sampled:

July 15, 1994

Date Received: Date Analyzed: July 15, 1994

Sample Matrix:

July 19, 1994 Soil

Client Sample ID	Sample Result	Notes	Reporting Limit
PX-13	12%		1%
PX-14	8%		1%

Pacific Northern Analytical

Chain of Custody/Analysis Request Form Laboratory Batch Number: <u>の</u>リンフ

Client: EMR, Itc.		Report to:	DAVI	0 L	\	ولم	يدر	4	Pro	ject	Nan	ne:	3 E. BE	Ter.	5 ac	J E	Proj	ject No	ımber	:	115	5 3	>	
Address: REDNO ND.	AW			ontainers	8240	2/8020		Pesticides/ PCB'S 608/8080		Chlorinated Herbicides 8150	Volatile Organics 624/8240		DEQ TPH-G/WTPH-G w/BTEX	418.1				ed)						
Phone Number: 861- C	1561	-		ŭ	Volat	atics	/8270	CB'S	310	Herbic	nics (270	WTF	1/DEC)/DEC	≅Q TF	tende	o le	als / V	ř				
Fax Number: 869-5	7820			ğ	nated	Aron	s 625	des/ F	610/8	ated [Orga	625/8	PH-G	418	뒫	-D/D	P E	(Tota	Met	χο.				-
Sample ID	Date Sampled	Time Sampled	Matrix	Number	Halogenated Volatiles	Volatile Aromatics	Phenols 625/8270	Pestici	PAH's 610/8310	Chlorin	Volatile	BNA's 625/8270	DEQ 1	WTPH	WТРН	МТРН- D/DEQ ТРН-D	WTPH-D Extended	Metals: List bel	TCLP Metals / VOA / SemiVOA / Pest &Herb	TOC/ TOX / TX			!	
-1 PX-13	7/15/24	Noon	Soic	_			;				X													
-2 PX-14	1111	#:50pm	01								χ													
-3	<u> </u>																							
-4																								
-5																								
-6																								_
-6 -7	- 			<u> </u>																				
-8	<u> </u>																			}				1
-9																								
-10	 										~~~	-												_
P.O.#	1.	Turnground	Requeste	ed:	Ъ.	Sar	nple	Re	ceip	t:,		Cor	nme	ents/	/Spe	cial	Inst	ructior	L 15:					
Bill to: Emiz, Int -		24 hr (Co	nditio	on_	Tan.	4_				_	-				•					
REDNO LO,			(+50%)			<u> </u>			<u>ა</u>	<u> </u>				K	US	A		[UB	A احــٰ	Ro	J	4/)		
		Date neede	<u> </u>			Co	ol?/i						•			-	_					-		
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Company: EMP. Received By: Company:	LHC.		-				Tim		21.	- 9	_,													
Received By: <u>Unit P(C)</u> Company: <u>P:V/A</u>			·							37														
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Company:				-				.e	-		-													
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Company:							Tim	_			_													
By signing this form, you are ag	reeing to the	terms and co	onditions	listed	on	the	back	ζ			_													

Distribution: White - Return to Originator; Yellow - Lab; Pink - Retained by Originator



July 21, 1994

David Welch
Environmental Management Resources
2509 152nd Avenue N.E.
Suite B
Redmond, WA 98052-5551

Dear David:

Enclosed are the analytical results of samples submitted on July 19, 1994 from project Benenson/Bellevue, 1153.

If you have any questions regarding this report or if you need any other assistance, please do not hesitate to call me.

Sincerely,

Cynthia Rezania

Project Chemist

CLR/lh



EPA 8240 Volatile Organic Compounds

Client:	Environmental M	lanagement Resources	Date Sampled:	July 19, 1994
Project Name:	Benenson/Bellevu	e	Date Received:	July 19, 1994
Project Number:	1153		Date Extracted:	July 19, 1994
Client Sample ID:	PX-15		Date Analyzed:	July 19, 1994
Laboratory Batch #	01460		Sample Matrix:	Soil
Units:	mg/kg		Dilution Factor:	1
Analyte		Sample Result	Notes	Reporting Limit
		MD		•
Acetone		N.D.		2
Acrolein		N.D.		2
Acrylonitrile		N.D.		2
Benzene		N.D.		0.2
Bromobenzene		N.D.		0.2
Bromochloromethane		N.D.		0.4
Bromodichlorometha	ne _.	N.D.	•	0.2
Bromoform		N.D.		0.4
Bromomethane		N.D.		0.4
n-Butylbenzene		N.D.		0.2
sec-Butylbenzene		N.D.		0.2
tert-Butylbenzene		N.D.		0.2
Carbon Disulfide		N.D.		1
Carbon tetrachloride		N.D.		0.2
Chlorobenzene		N.D.		0.2
Chloroethane		N.D.		0.2
2-Chloroethyl vinyl et	ther	N.D.		1
Chloroform		N.D.		0.2
Chloromethane		N.D		0.2
2-Chlorotoluene		N.D.		0.2
4-Chlorotoluene		N.D.		0.2
Dibromochlorometha	ne	N.D.		0.4
1,2-Dibromo-3-chloro		N.D.		0.5
1,2-Dibromoethane	propane	N.D.		0.4
Dibromomethane		N.D.		0.4
1,2-Dichlorobenzene		N.D.		0.4
1,3-Dichlorobenzene		N.D. N.D.		•
1,4-Dichlorobenzene		N.D. N.D.		0.2 0.2
Dichlorodifluorometh	000	N.D. N.D.		
1,1-Dichloroethane	anc	N.D. N.D.		0.4
•				0.2
1,2-Dichloroethane		N.D.		0.2
1,1-Dichloroethene		N.D.		0.2
cis-1,2-Dichloroethen		N.D.		0.2
trans-1,2-Dichloroeth	ene	N.D.		0.2
1,2-Dichloropropane		N.D.		0.2
1,3-Dichloropropane		N.D.		0.4
Notes		•		



EPA 8240 Volatile Organic Compounds, continued

Client:	Environmental Manag	ement Resources	Date Sampled:	July 19, 1994
Project Name:	Benenson/Bellevue		Date Received:	July 19, 1994
Project Number:	1153		Date Extracted:	July 19, 1994
Client Sample ID:	PX-15		Date Analyzed:	July 19, 1994
Laboratory Batch #	01460		Sample Matrix:	Soil
<u>Units:</u>	mg/kg		Dilution Factor:	1
Analyte		Sample Result	Notes	Reporting Limit
2,2-Dichloropropane		N.D.		0.4
1,1-Dichloropropene		N.D.		0.2
cis-1,3-Dichloroprope	ne	N.D.		0.2
trans-1,3-Dichloropro	pene	N.D.		0.2
Ethylbenzene		N.D.		0.2
Hexachlorobutadiene		N.D.		0.2
2-Hexanone		N.D.		2
Isopropylbenzene		N.D.		0.2
p-Isopropyltoluene		N.D.		0.2
MEK		N.D.		2
Methylene chloride		N.D.		0.4
MIBK		N.D.		2
Naphthalene		N.D.		0.2
n-Propylbenzene		N.D.		0.2
Styrene		N.D.		0.2
l,1,1,2-Tetrachloroeth	ane	N.D.		0.2
1,1,2,2-Tetrachloroeth	ane	N.D.		0.4
Tetrachloroethene		0.27		0.2
Toluene		N.D.		0.4
1,2,3-Trichlorobenzen		N.D.		0.4
1,2,4-Trichlorobenzen	e	N.D.		0.4
l, l, l-Trichloroethane		N.D.		0.2
1,1,2-Trichloroethane		N.D.		0.4
Frichloroethene		N.D.		0.2
Prichlorofluoromethan		N.D.		0.2
l,2,3-Trichloropropan		N.D.		0.4
1,2,4-Trimethylbenzer	e	N.D.		0.2
1,3,5-Trimethlybenzer	e	N.D.		0.2
Vinyl Acetate		N.D.		1
Vinyl chloride		N.D.		1
n,p,-Xylene		N.D.		0.4
o-Xylene		N.D.		0.2
Surrogate Recoveries	····	Recovery	Notes	Acceptance Range
Toluene-d8		98%		81%-117%
-Bromofluorobenzene		100%		74%-121%
Dibromofluoromethane	;	100%		80%-120%



Client:

Environmental Management Resources

Project Name: Project Number: Benenson/Bellevue

1153 Laboratory Batch # -01460 Date Extracted:

July 19, 1994

Date Analyzed: Dilution Factor: July 19, 1994

1

Sample ID: Method Blank	•	Units:	or: 1 mg/kg
Analyte	Sample Result	Notes	Reporting Limi
Acetone	N.D.		2
Acrolein	N.D.		2
Acrylonitrile	N.D.		2
Benzene	N.D.		0.2
Bromobenzene	N.D.		0,2
Bromochloromethane	N.D.		0.4
Bromodichloromethane	N.D.		0.2
Bromoform	ND		0.4
Bromomethane	N.D.		0.4
n-Butylbenzene	N.D.		0.2
sec-Butylbenzene	N.D.		0.2
tert-Butylbenzene	N.D.		0.2
Carbon Disulfide	N.D.		1
Carbon tetrachloride	N,D.		0.2
Chlorobenzene	N.D.		0.2
Chloroethane	N.D.		0.2
2-Chloroethyl vinyl ether	N.D.		1
Chloroform	N.D.		0.2
Chloromethane	N.D.		0.2
2-Chlorotoluene	N.D.		0.2
4-Chlorotoluene	N.D.		0.2
Dibromochloromethane	N.D.		0.4
1,2-Dibromo-3-chloropropane	N.D.		0.5
1,2-Dibromoethane	N.D.		0.4
Dibromomethane	N.D.		0.4
1,2-Dichlorobenzene	N.D.		0.2
1,3-Dichlorobenzene	N.D.		0.2
1,4-Dichlorobenzene	N.D.		0.2
Dichlorodifluoromethane	N.D.		0.4
1,1-Dichloroethane	N.D.		0.2
1,2-Dichloroethane	N.D.		0.2
1,1-Dichloroethene	N.D.		0.2
cis-1,2-Dichloroethene	N.D.		0.2
trans-1,2-Dichloroethene	N.D.		0.2
1,2-Dichloropropane	N.D.	·	0.2
1,3-Dichloropropane	N.D.		0.4



Client: Project Name:	Environmental Management Resources Benenson/Bellevue	Date Extracted:	July 19, 1994
Project Number:	1153	Date Analyzed:	July 19, 1994
Laboratory Batch #	01460	Dilution Factor:	1
Sample ID:	Method Blank	Units:	mg/kg
Analyte	Sample Result	Notes	Reporting Limit
2,2-Dichloropropane	N.D.		0.4
,1-Dichloropropene	N.D.		0.2
cis-1,3-Dichloropropene	N.D.		0.2
rans-1,3-Dichloropropene	N.D.		0.2
Ethylbenzene	N.D.		0.2
Iexachlorobutadiene	N.D.		0.2
-Hexanone	N.D.		2
sopropylbenzene	N.D.		0.2
-Isopropyltoluene	N.D.		0.2
MEK .	N.D.		2
Methylene chloride	N.D.		0.4
MIBK	N.D.		2
Naphthalene	N.D.		0.2
-Propylbenzene	N.D.		0.2
tyrene	N.D.		0.2
,1,1,2-Tetrachloroethane	N.D.		0.2
,1,2,2-Tetrachloroethane	N.D.		0.4
Tetrachloroethene	N.D.		0.2
Coluene	N.D.		0.4
,2,3-Trichlorobenzene	N.D.	•	0.4
,2,4-Trichlorobenzene	N.D.		0.4
,1,1-Trichloroethane	N.D.		0.2
,1,2-Trichloroethane	N.D.		0.4
richloroethene	N.D.		0.2
richlorofluoromethane	N.D.		0.2
,2,3-Trichloropropane	N.D.		0.4
,2,4-Trimethylbenzene	N.D.		0.2
,3,5-Trimethlybenzene	N.D.		0.2
/inyl Acetate	N.D.		1
/inyl chloride	N.D.		. 1
n,p,-Xylene	N.D.		0.4
-Xylene	N.D.		0.2
Surrogate Recoveries	Recovery	Notes	Acceptance Range
Coluene-d8	99%		81% - 117%
-Bromofluorobenzene	99%		74% - 121%
Dibromofluoromethane	102%		80% - 120%



Client:

Environmental Management Resources

Project Name:

Project Number: Laboratory Batch # Ratch Sample ID: 0146001

1153 01460

Benenson/Bellevue

Date Extracted: Date Analyzed: July 19, 1994 July 19, 1994

Dilution Factor: 1 Timites

Batch Sample ID: 01460QA			<u>·</u> t	Inits:	mg/kg
-	Reporting	Sample	Duplicate	•	Acceptance
Analyte	Limit	Result	Result	RPD	Limit
Acetone	2	N.D.	N.D.		30%
Acrolein	2	N.D.	N.D.		30%
Acrylonitrile	2	N.D.	N.D.		30%
Benzene	0.2	N.D.	N.D.		30%
Bromobenzene	0.2	N.D.	N.D.		30%
Bromochloromethane	0.4	N.D.	N.D.		30%
Bromodichloromethane	0.2	N.D.	N.D.		30%
Bromoform	0.4	N.D.	N.D.	-	30%
Bromomethane	0.4	N.D.	N.D.		30%
n-Butylbenzene	0.2	N.D.	N.D.		30%
sec-Butylbenzene	0.2	N.D.	N.D.		30%
tert-Butylbenzene	0.2	N.D.	N.D.		30%
Carbon Disulfide	1	N.D.	N.D.		30%
Carbon tetrachloride	0.2	N.D.	N.D.		30%
Chlorobenzene	0.2	N.D.	N.D.		30%
Chloroethane	0.2	N.D.	N.D.		30%
2-Chloroethyl vinyl ether	1	N.D.	N.D.		30%
Chloroform	0.2	N.D.	N.D.		30%
Chloromethane	0.2	N.D.	N.D.		30%
2-Chlorotoluene	0.2	N.D.	N.D.		30%
4-Chlorotoluene	0.2	N.D.	N.D.		30%
Dibromochloromethane	0.4	N.D.	N.D.		30%
1,2-Dibromo-3-chloropropane	0.5	N.D.	N.D.		30%
1,2-Dibromoethane	0.4	N.D.	N.D.		30%
Dibromomethane	0.4	N.D.	N.D.		30%
1,2-Dichlorobenzene	0.2	N.D.	N.D.		30%
1,3-Dichlorobenzene	0.2	N.D.	N.D.		30%
1,4-Dichlorobenzene	0.2	N.D.	N.D.		30%
Dichlorodifluoromethane	0.4	N.D.	N.D.		30%
1,1-Dichloroethane	0.2	N.D.	N.D.		30%
1,2-Dichloroethane	0.2	N.D.	N.D.		30%
1,1-Dichloroethene	0.2	N.D.	N.D.		30%
cis-1,2-Dichloroethene	0.2	N.D.	N.D.		30%
rans-1,2-Dichloroethene	0.2	N.D.	N.D.		30%
1,2-Dichloropropane	0.2	N.D.	N.D.		30%
1,3-Dichloropropane	0.4	N.D.	N.D.	••	30%
Notes					



Client:

Environmental Management Resources

Project Name:

Benenson/Bellevue

Project Number:

1153

Date Extracted:
Date Analyzed:

July 19, 1994 July 19, 1994

Laboratory Batch #

01460

Dilution Factor:

Units:

1

mg/kg

•		
Batch Sample ID:	: 01460 O A	

	Reporting	Sample	Duplicate		Acceptance
Analyte	Limit	Result	Result	RPD	Limit
2,2-Dichloropropane	0.4	N.D.	N.D.		30%
1,1-Dichloropropene	0.2	N.D.	N.D.		30%
cis-1,3-Dichloropropene	0.2	N.D.	N.D.		30%
rans-1,3-Dichloropropene	0.2	N.D.	N.D.		30%
Ethylbenzene	0.2	N.D.	N.D.		30%
Jexachlorobutadiene	0.2	N.D.	N.D.		30%
2-Hexanone	2	N.D.	N.D.		30%
sopropylbenzene	0.2	N.D.	N.D.		30%
-Isopropyltoluene	0.2	N.D.	N.D.		30%
VIEK	2	N.D.	N.D.		30%
Methylene chloride	0.4	N.D.	N.D.		30%
MIBK	2	N.D.	N.D.		30%
Naphthalene	0.2	N.D.	N.D.		30%
a-Propylbenzene	0.2	N.D.	N.D.		30%
Styrene	0.2	N.D.	N.D.		30%
,1,1,2-Tetrachloroethane	0.2	N.D.	N.D.		30%
,1,2,2-Tetrachloroethane	0.4	N.D.	. N.D.		30%
Tetrachloroethene	0.2	0.27	0.26	4%	30%
Toluene	0.4	N.D.	N.D.		30%
1,2,3-Trichlorobenzene	0.4	N.D.	N.D.		30%
,2,4-Trichlorobenzene	0.4	N.D.	N.D.		30%
,1,1-Trichloroethane	0.2	N.D.	N.D.		30%
,1,2-Trichloroethane	0.4	N.D.	N.D.		30%
richloroethene	0.2	N.D.	N.D.		30%
Crichlorofluoromethane	0.2	N.D.	N.D.		30%
,2,3-Trichloropropane	0.4	N.D.	N.D.		30%
,2,4-Trimethylbenzene	0.2	N.D.	N.D.		30%
,3,5-Trimethlybenzene	0.2	N.D.	N.D _.		30%
/inyl Acetate	1	N.D.	N.D.		30%
/inyl chloride	1	N.D.	N.D.		30%
n,p,-Xylene	0.4	N.D.	N.D.		30%
-Xylene	0.2	N.D.	N.D.		30%

Notes



Client: **Environmental Management Resources**

Project Name: Benenson/Bellevue

Date Extracted: July 19, 1994 Project Number: 1153 July 19, 1994 Date Analyzed: Laboratory Batch # 01460 **Dilution Factor:** 1

0146000

Spike Added	Spike Recovery	Acceptance Range	Spike Dup Recovery	מממ	Acceptance
Added	Recovery	Range	Recovery	מממ	T 114
			ROCOVCIA	RPD	Limit
_					
5	71%	59% - 172%	68%	4%	22%
5	87%	66% - 142%	86%	1%	21%
5	85%	62% - 137%	84%	1%	24%
5	86%	59% - 139%	89%	3%	21%
5	92%	60% - 133%	92%	< 1%	21%
	-	5 85% 5 86%	5 87% 66% - 142% 5 85% 62% - 137% 5 86% 59% - 139%	5 87% 66% - 142% 86% 5 85% 62% - 137% 84% 5 86% 59% - 139% 89%	5 87% 66% - 142% 86% 1% 5 85% 62% - 137% 84% 1% 5 86% 59% - 139% 89% 3%



Moisture Content Report

Client:

Environmental Management Resources

Project Name:

Benenson/Bellevue

Project Number: Laboratory Batch # 1153

% Moisture

Units:

01460

Date Sampled: Date Received:

July 19, 1994

Date Analyzed:

July 19, 1994

Soil

Sample Matrix:

July 21, 1994

Client Sample ID

Sample Result

Notes

Reporting Limit

PX-15

8%

1%

CHAIN UP CUSTODY **RECORD**



ENVIRONMENTAL MANAGEMENT RESOURCES

ENVIRONMENTAL MANAGEMENT RESOURCES. INC. 2509 152nd Avenue NE, Suite B, Redmond, WA 98052 (206) 861-4561 FAX (206) 869-7820 608/8080 SEMIVOLATILES (BNA) REPORT TO: DAVID L. WEIGH VOLATILE AROMATICS PROJECT NAME: BENEASON BELLEVUE PESTICIDES/PCBs WTPH-G w/BTEX PAH 610/8100 PROJECT NO .: WTPH-418.1 LABORATORY: PACIFIC METALS: WTPH-D OTHER: OTHER: # OF SAMPLE IDENTIFICATION DATE TIME MATRIX PRESERV. LAB# CONT'S PX-15 7/17/24 ESOIL CHELL Received by (Signature) TURN AROUND TIME: 124 hr. [] 48 hr. [] 2 Weeks [] Normal [] Other Rezonia SAMPLE CONDITION/INTEGRITY: COOL? (YES NO 1530 Relinquished by (Signature) **REMARKS/SPECIAL INSTRUCTIONS:** Printed Name Time Printed Name Time



July 25, 1994

David Welch
Environmental Management Resources
2509 152nd Avenue N.E.
Suite B
Redmond, WA 98052-5551

Dear David:

Enclosed are the analytical results of samples submitted on July 20, 1994 from project Benenson Bellevue, 1153.

If you have any questions regarding this report or if you need any other assistance, please do not hesitate to call me.

Sincerely,

Cynthia Rezania
Project Chemist

CLR/lh



EPA 8240 Volatile Organic Compounds

Client:	Environmental Management Resources	Date Sampled:	July 20, 1994
Project Name:	Benenson Bellevue	Date Received:	July 20, 1994
Project Number:	1153	Date Extracted:	July 20, 1994
Client Sample ID:	PX-16	Date Analyzed:	July 20, 1994
Laboratory Batch #	01469	Sample Matrix:	Soil
Units:	mg/kg	Dilution Factor:	1
Analyte	Sample Result	Notes	Reporting Limit
Acetone	N.D.		2
Acrolein	N.D.		2
Acrylonitrile	N.D.		2
Benzene	N.D.		0.2
Bromobenzene	N.D.		0.2
Bromochloromethane	N.D.		0.4
Bromodichloromethar			0.2
Bromoform	N.D.		0.4
Bromomethane	N.D.		0.4
n-Butylbenzene	N.D.		0.2
sec-Butylbenzene	N.D.		0.2
tert-Butylbenzene	N.D.		0.2
Carbon Disulfide	N.D.		l
Carbon tetrachloride	N.D.		0.2
Chlorobenzene	N.D.		0.2
Chloroethane	N.D.		0.2
2-Chloroethyl vinyl et	her N.D.		1
Chloroform	N.D.	•	0.2
Chloromethane	N.D.		0.2
2-Chlorotoluene	N.D.		0.2
4-Chlorotoluene	N.D.		0.2
Dibromochloromethan	ne N.D.		0.4
1,2-Dibromo-3-chloro	propane N.D.		0.5
1,2-Dibromoethane	N.D.		0.4
Dibromomethane	N.D.		0.4
1,2-Dichlorobenzene	N.D.		0.2
1,3-Dichlorobenzene	N.D.		0.2
1,4-Dichlorobenzene	N.D.		0.2
Dichlorodifluorometh	ane N.D.		0.4
1,1-Dichloroethane	N.D.		0.2
1,2-Dichloroethane	N.D.		0.2
1,1-Dichloroethene	N.D.		0.2
cis-1,2-Dichloroethen			0.2
trans-1,2-Dichloroeth			0.2
1,2-Dichloropropane	N.D.		0.2
1,3-Dichloropropane	N.D.		0.4



EPA 8240 Volatile Organic Compounds, continued

Client:	Environmental Management Resources	Date Sampled:	July 20, 1994
Project Name:	Benenson Bellevue	Date Received:	July 20, 1994
Project Number:	1153	Date Extracted:	July 20, 1994
Client Sample ID:	PX-16	Date Analyzed:	July 20, 1994
Laboratory Batch #	01469	Sample Matrix:	Soil
Units:	mg/kg	Dilution Factor:	1
Analyte	Sample Result	Notes	Reporting Limit
2,2-Dichloropropane	N.D.		0.4
1,1-Dichloropropene	N.D.		0.2
cis-1,3-Dichloroprope	ne N.D.		0.2
rans-1,3-Dichloropro	pene N.D.		0.2
Ethylbenzene	N.D.		0.2
Hexachlorobutadiene	N.D.		0.2
2-Hexanone	N.D.		2
sopropylbenzene	N.D.		0.2
o-Isopropyltoluene	N.D.		0.2
MEK	N.D.		2
Methylene chloride	N.D.		0.4
MIBK	N.D.		2
Naphthalene	N.D.		0.2
n-Propylbenzene	N.D.		0.2
Styrene	N.D.		0.2
1,1,1,2-Tetrachloroeth			0.2
1,1,2,2-Tetrachloroeth			0.4
Tetrachloroethene	N.D.		0.2
Toluene	N.D.		0,4
1,2,3-Trichlorobenzen			0,4
1,2,4-Trichlorobenzen			0.4
l,1,1-Trichloroethane			0,2
1,1,2-Trichloroethane	N.D.		0.4
Trichloroethene	N.D.		0.2
richlorofluorometha			0.2
1,2,3-Trichloropropan			0.4
1,2,4-Trimethylbenzer			0.2
1,3,5-Trimethlybenzer			0.2
Vinyl Acetate	N.D.		1
Vinyl chloride	N.D.		1
m,p,-Xylene	N.D.		0.4
o-Xylene	N.D.		0.2
J ZIJAOHO	A 1920-1		
Surrogate Recoveries	Recovery	Notes	Acceptance Range
Foluene-d8	96%		81%-117%
4-Bromofluorobenzen			74%-121%
Dibromofluoromethan			80%-120%



Laboratory Batch #

Project Number:

Project Name:

Client:

69710

ESII

Benenson Bellevue

Environmental Management Resources

EPA 8240 Volatile Organic Compounds Quality Control Data

Sample ID: Method Blank		:stinU	яу/вш	
Analyte	Sample Result	Notes	Reporting Limit	
anoteo A	N.D.		7	
Acetone			7	
Acrolein Acrolein	M.D. M.D.		7	
Acrylonitrile Benzene	N.D.		7.0	
Bromobenzene	N.D.		2.0	
Втомосилом	N.D.		† 0	
Bromodichloromethane	N.D.		7.0	
Вготоботти	N.D.		4. 0	
Вголютейрапе	N.D.		4.0	
	'Œ'N		2.0	
n-Butylbenzene	.C.N.		2.0	
sec-Butylbenzene	M.D.		7.0	
tert-Butylbenzene Carbon Disulfide	N.D.		T	
Carbon Dizulfide Carbon tetrachloride	N.D.		2.0	
Сиото силсионие	.d.n		2.0	
Сиотостия	N.D.		2.0	
2-Chloroethyl vinyl ether	'D'N		Ĭ	
Chloroform	M.D.		2.0	
Сиотопейза	N.D.		2.0	
2-Chlorotoluene	И.D.		2.0	
t-Chlorotoluene	M.D.		2.0	
Dibromochloromethane	И.D.		4.0	
2,4-Dibromo-3-chloropropane	M.D.		ç. 0	
1,2-Dibromoethane	. Д. И		7 .0	
ріртотот та по по по по по по по по по по по по по	M.D.		4 .0	
2,1-Dichlorobenzene	N.D.		2.0	
1,3-Dichlorobenzene	N.D.		2.0	
1,4-Dichlorobenzene	N.D.		2.0	
Dichlorodifluoromethane	N.D.		, 7 .0	
1,1-Dichloroethane	N.D.		2.0	

N.D.-Not detected above the reporting limit.

1,3-Dichloropropane

1,2-Dichloropropane

trans-1,2-Dichloroethene

cis-1,2-Dichloroethene

1,1-Dichloroethene

1,2-Dichloroethane

N'D'

N.D.

N'D'

N'D'

N'D'

N.D.

p'0

2.0

2.0

2.0

2.0

2.0

Ţ

July 20, 1994

1mly 20, 1994

Dilution Factor:

Date Analyzed:

Date Extracted:



Quality Control Data							
Client:	Environmental Managemen ::esources						
Project Name:	Benenson Bellevue	Date Extracted:	July 20, 1994				
Project Number:	1153	Date Analyzed:	July 20, 1994				
Laboratory Batch #	01469	Dilution Factor:	1				
Sample ID:	Method Blank	Units:	mg/kg				
Analyte	Sample Result	Notes	Reporting Limit				
2,2-Dichloropropane	N.D.		0.4				
1,1-Dichloropropene	N.D.		0.2				
cis-1,3-Dichloropropene	N.D.		0.2				
trans-1,3-Dichloropropene	N.D.		0.2				
Ethylbenzene	N.D.		0.2				
Hexachlorobutadiene	N.D.		0.2				
2-Hexanone	N.D.		2				
Isopropylbenzene	N.D.		0.2				
p-Isopropyltoluene	N.D.		0.2				
MEK	N.D.		2				
Methylene chloride	N.D.		0.4				
MIBK	N.D.		2				
Naphthalene	N.D.		0.2				
n-Propylbenzene	N.D.		0.2				
Styrene	N.D.		0.2				
1,1,2-Tetrachloroethane	N.D.		0.2				
1,1,2,2-Tetrachloroethane	N.D.		0.4				
Tetrachloroethene	N.D.		0.2				
Toluene	N.D.		0.4				
1,2,3-Trichlorobenzene	N.D.		0.4				
1,2,4-Trichlorobenzene	N.D.		0.4				
1,1,1-Trichloroethane	N.D.		0.2				
1,1,2-Trichloroethane	N.D.		0.4				
Trichloroethene	N.D.		0,2				
Trichlorofluoromethane	N.D.		0.2				
1,2,3-Trichloropropane	N.D.		0,4				
1,2,4-Trimethylbenzene	N.D.		0.2				
1,3,5-Trimethlybenzene	N.D.		0.2				
Vinyl Acetate	N.D.		1				
Vinyl chloride	N.D.		1				
m,p,-Xylene	N.D.		0.4				
o-Xylene	N.D.		0.2				
Surrogate Recoveries	Recovery	Notes	Acceptance Range				
Toluene-d8	99%	140103	81% - 117%				
4-Bromofluorobenzene	100%		74% - 121%				
Dibromofluoromethane	100%						
Diotomondomemane	10076		80% - 120%				



Client:

Environmental Management Resources

Project Name:

Benenson Bellevue

Project Number: Laboratory Batch # 1153

01469

Date Extracted:

July 20, 1994 July 20, 1994

Date Analyzed: Dilution Factor:

	 _
Units:	mg/kg

Batch Sample ID: 01469QA	D	Carrelle	D1:4-	Units:	mg/kg
	Reporting	Sample	Duplicate	DDD	Acceptance
Analyte	Limit	Result	Result	RPD	Limit
Acetone	2	N.D.	N.D.		30%
Acrolein	2	N.D.	N.D.		30%
Acrylonitrile	2	N.D.	N.D.		30%
Benzene	0.2	N.D.	N.D.		30%
Bromobenzene	0.2	N.D.	N.D.		30%
Bromochloromethane	0.4	N.D.	N.D.		30%
Bromodichloromethane	0.2	N.D.	N.D.		30%
Bromoform	0.4	N.D.	N.D.		30%
Bromomethane	0.4	N.D.	N.D.		30%
n-Butylbenzene	0.2	N.D.	N.D.		30%
sec-Butylbenzene	0.2	N.D.	N.D.		30%
tert-Butylbenzene	0.2	N.D.	N.D.		30%
Carbon Disulfide	1	N.D.	N.D.		30%
Carbon tetrachloride	0.2	N.D.	N.D.		30%
Chlorobenzene	0.2	N.D.	N.D.		30%
Chloroethane	0.2	N.D.	N.D.		30%
2-Chloroethyl vinyl ether	1	N.D.	N.D.	-	30%
Chloroform	0.2	N.D.	N.D.	-	30%
Chloromethane	0.2	N.D.	N.D.		30%
2-Chlorotoluene	0.2	N.D.	N.D.		30%
4-Chlorotoluene	0.2	N.D.	N.D.		30%
Dibromochloromethane	0.4	N.D.	N.D.		30%
1,2-Dibromo-3-chloropropane	0.5	N.D.	N.D.		30%
1,2-Dibromoethane	0.4	N.D.	N.D.		30%
Dibromomethane	0.4	N.D.	N.D.		30%
1,2-Dichlorobenzene	0.2	N.D.	N.D.	-	30%
1,3-Dichlorobenzene	0.2	N.D.	N.D.	••	30%
1,4-Dichlorobenzene	0.2	N.D.	N.D.		30%
Dichlorodifluoromethane	0.4	N.D.	N.D.		30%
1,1-Dichloroethane	0.2	N.D.	N.D.	'	30%
1,2,Dichloroethane	0.2	N.D.	N.D.		30%
1,1-Dichloroethene	0.2	N.D.	N.D.		30%
cis-1,2-Dichloroethene	0.2	N.D.	N.D.		30%
trans-1,2-Dichloroethene	0.2	N.D.	N.D.	••	30%
1,2-Dichloropropane	0.2	N.D.	N.D.		30%
1,3-Dichloropropane	0.4	N.D.	N.D.		30%
Notes ·					



Client:

Environmental Management Resources

Project Name:

Benenson Bellevue

Project Number:

1153

Date Extracted:

July 20, 1994

Laboratory Batch #

01469

Date Analyzed:

July 20, 1994

Batch Sample ID:

01469QA

Dilution Factor:

1

TT-14		
Units:		mg/kg

Dates Dampie 1D: 01407Q	18			nits.	шуку
	Reporting	Sample	Duplicate		Acceptance
Analyte	Limit	Result	Result ·	RPD	Limit
2,2-Dichloropropane	0.4	N.D.	N.D.		30%
l, l-Dichloropropene	0.2	N.D.	N.D.		30%
cis-1,3-Dichloropropene	0.2	N.D.	N.D.	- -	30%
trans-1,3-Dichloropropene	0.2	N.D.	N.D.		30%
Ethylbenzene	0.2	N.D.	N.D.		30%
Hexachlorobutadiene	0.2	N.D.	N.D.		30%
2-Hexanone	2	N.D.	N.D.		30%
sopropylbenzene	0.2	N.D.	N.D.		30%
p-Isopropyltoluene	0.2	N.D.	N.D.	_	30%
MEK	2	N.D.	N.D.		30%
Methylene chloride	0.4	N.D.	N.D.		30%
MIBK	2	N.D.	N.D.	_	30%
Naphthalene	0.2	N.D.	N.D.		30%
n-Propylbenzene	0.2	N.D.	N.D.		30%
Styrene	0.2	, N.D.	N.D.		30%
1,1,1,2-Tetrachloroethane	0.2	N.D.	N.D.		30%
1,1,2,2-Tetrachloroethane	0.4	N.D.	N.D.		30%
Fetrachloroethene	0.2	N.D.	N.D.	-	30%
Foluene	0.4	N.D.	N.D.	_	30%
1,2,3-Trichlorobenzene	0.4	N.D.	N.D.		30%
1,2,4-Trichlorobenzene	0.4	N.D.	N.D.		30%
l,1,1-Trichloroethane	0.2	N.D.	N.D.		30%
1,1,2-Trichloroethane	0.4	N.D.	N.D.	-	30%
Frichloroethene	0.2	N.D.	N.D.	,	30%
Frichlorofluoromethane	0.2	N.D.	N.D.		30%
1,2,3-Trichloropropane	0.4	N.D.	N.D.		30%
1,2,4-Trimethylbenzene	0.2	N.D.	N.D.		30%
,3,5-Trimethlybenzene	0.2	N.D.	N.D.		30%
Vinyl Acetate	1	N.D.	N.D.		30%
Vinyl chloride	1	N.D.	N.D.		30%
m,p,-Xylene	0.4	N.D.	. N.D.		30%
o-Xylene	0.2	N.D.	N.D.	-	30%

Notes



EPA 8240 Volatile Organic Compounds, continued Quality Control Data

Client:

Environmental Management Resources

Project Name:

Benenson Bellevue

Date Extracted:

July 20, 1994

Project Number:

1152

Date Analyzed:

July 20, 1994

Laboratory Batch #

1153 01469

Dilution Factor:

1

Batch Sample ID:

01469OA

Units: mg/kg

Daten Sample 1D:	UI4UJQA				ошиз.	шуку
	Spike	Spike	Acceptance	Spike Dup		Acceptance
Analyte	Added	Recovery	Range	Recovery	RPD	Limit
1,1-Dichloroethene	5	70%	59% - 172%	71%	1%	22%
Benzene	5	87%	66% - 142%	90%	3%	21%
Trichloroethene	5	84%	62% - 137%	85%	1%	24%
Toluene	5	87%	59% - 139%	90%	3%	21%
Chlorobenzene	5	91%	60% - 133%	94%	3%	21%



Moisture Content Report

Client:

Environmental Management Resources

Project Name:

Benenson Bellevue

Project Number:

1153

Laboratory Batch #

01469

Units:

% Moisture

Date Sampled:

Date Sampled.

Date Received:

July 20, 1994 July 20, 1994

Date Analyzed:

July 25, 1994

Sample Matrix:

Soil

Client Sample ID

Sample Result

Notes

Reporting Limit

PX-16

8%

1%

Pacific Northern Analytical ____

Chain of Custody/Analysis Request Form Laboratory Batch Number:_____

Client: EMR		Report to:	DAUI	0 (<u>`.(</u>	NE	ى	EL	Proj	ect	Nan	ne:	差	Es/9	1	Ε	Proj	ect N	ımber	: /	15	3		
Address: REDMOND, U	A			Containers	tiles 8240	602/8020		\$ 608/8080		cides 8150	624/8240		DEQ TPH-G/WTPH-G W/BTEX	Q TPH-418.1	а нсір	PH-D	p _a	Dissolved)	VOA / &Herb					
Phone Number: 869-	(54/ 7820 Date	Time		Number of C	Halogenated Volatiles	Volatile Aromatics 602/8020	enols 625/827(Pesticides/ PCB'S 608/8080	PAH's 610/8310	Chlorinated Herbicides 8150	Volatile Organics 624/8240	BNA's 625/8270	Q TPH-GWT	WTPH-418.1/DEQ TPH-418.1	МТРН-НСІD/DEQ НСІD	МТРН- D/DEQ ТРН-D	FPH-D Extend	Metals: (Total or Dissolved) List below	TCLP Metals / VOA / SemiVOA / Pest &Herb	TOC/TOX/TX				
Sample ID	Sampled	Sampled	Matrix	ž	星	\$	Ę	e G	ă.	ភ	3,	8	ä	>	>	3	`≯	Me	S S	۲				
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-3																								
-4																							ŀ	
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By signing this form, you are agreeing to the terms and conditions listed on the back.



August 5, 1994

David Welch
Environmental Management Resources
2509 152nd Avenue N.E.
Suite B
Redmond, WA 98052-5551

Dear David:

Enclosed are the analytical results of samples submitted on July 25, 1994 from project Benenson/Bellevue, 1153.

If you have any questions regarding this report or if you need any other assistance, please do not hesitate to call me.

Sincerely,

Cynthia Rezania Project Chemist

CLR/lh



EPA 8240 Volatile Halogenated Hydrocarbons

Client:	Environmental Mana	gement Resources	Date Sampled:	July 25, 1994
Project Name:	Benenson/Bellevue	_	Date Received:	July 25, 1994
Project Number:	1153		Date Extracted:	August 3, 1994
Client Sample ID:	B-7A		Date Analyzed:	August 3, 1994
Laboratory Batch #	01489A		Sample Matrix:	Soil
Units:	mg/kg		Dilution Factor:	1
Analyte		Sample Result	Notes	Reporting Limit
-				·
Bromobenzene		N.D.		0.2
Bromochloromethane		N.D.		0.4
Bromodichloromethan	ie ·	N.D.		0.2
Bromoform		N.D.		0.4
Bromomethane		N.D.		0.4
Carbon tetrachloride		N.D.		0.2
Chlorobenzene		N.D.		0.2
Chloroethane		N.D.		0.2
2-Chloroethyl vinyl et	her	N.D.		1
Chloroform		N.D.		0.2
Chloromethane		N.D.		0.2
2-Chlorotoluene		N.D.		0.2
4-Chlorotoluene		N.D.		0.2
Dibromochloromethan	ıe	N.D.		0.4
1,2-Dibromo-3-chloro	propane	N.D.		0.5
1,2-Dibromoethane	•	N.D.		0.4
Dibromomethane		N.D.		0.4
1,2-Dichlorobenzene		N.D.		0.2
1,3-Dichlorobenzene		N.D.		0.2
1,4-Dichlorobenzene		N.D.		0.2
Dichlorodifluorometha	ane	N.D.		0.4
1,1-Dichloroethane		N.D.		0.2
1,2-Dichloroethane		N.D.		0.2
1,1-Dichloroethene		N.D.		0.2
cis-1,2-Dichloroethene	•	N.D.		0.2
trans-1,2-Dichloroethe		N.D.		0.2
1,2-Dichloropropane		N.D.		0.2
1,3-Dichloropropane		N.D.		0.4
2,2-Dichloropropane		N.D.		0.4
1,1-Dichloropropene		N.D.		0.2
cis-1,3-Dichloroprope	ne	N.D.		0.2
trans-1,3-Dichloroproj		N.D.		0.2
Hexachlorobutadiene		N.D.		0.2
Methylene chloride		N.D.		0.4
1,1,1,2-Tetrachloroeth	ane	N.D.		0.2
1,1,2,2-Tetrachloroeth		N.D.		0.4



EPA 8240 Volatile Halogenated Hydrocarbons, continued

July 25, 1994 Client: Environmental Management Resources Date Sampled: Project Name: Benenson/Bellevue Date Received: July 25, 1994 Date Extracted: August 3, 1994 Project Number: 1153 **Client Sample ID: B-7A** Date Analyzed: August 3, 1994 Soil 01489A Sample Matrix: Laboratory Batch # Units: mg/kg Dilution Factor: 1

Analyte	Sample Result	Notes	Reporting Limit
Tetrachloroethene	3.0		0.2
1,2,3-Trichlorobenzene	N.D.		0.4
1,2,4-Trichlorobenzene	N.D.		0.4
1,1,1-Trichloroethane	N.D.		0.2
1,1,2-Trichloroethane	N.D.		0.4
Trichloroethene	N.D.		0.2
Trichlorofluoromethane	N.D.		0.2
1,2,3-Trichloropropane	N.D.		0.4
Vinyl chloride	N.D.		1

Surrogate Recoveries	Recovery	Notes	Acceptance Range
Toluene-d8	95%		81%-117%
4-Bromofluorobenzene	94%		74%-121%
Dibromofluoromethane	96%		80%-120%

Notes



EPA 8240 Volatile Halogenated Hydrocarbons

Date Sampled: July 25, 1994 Environmental Management Resources Client: July 25, 1994 Date Received: Benenson/Bellevue Project Name: Date Extracted: August 3, 1994 1153 Project Number: August 3, 1994 Date Analyzed: **B-7C** Client Sample ID: Sample Matrix: Soil

Laboratory Batch # 01489A Sample Matrix: So
Units: mg/kg Dilution Factor: 1

Analyte	Sample Result	Notes	Reporting Limit
Bromobenzene	N.D.		0.2
Bromochloromethane	N.D.		0.4
Bromodichloromethane	N.D.		0.2
Bromoform	N.D.		0.4
Bromomethane	N.D.		0.4
Carbon tetrachloride	N.D.		0.2
Chlorobenzene	N.D.		0.2
Chloroethane	N.D.		0.2
2-Chloroethyl vinyl ether	N.D.		1
Chloroform	N.D.		0.2
Chloromethane	N.D.		0.2
2-Chlorotoluene	N.D.		0.2
4-Chlorotoluene	N.D.		0.2
Dibromochloromethane	N.D.		0.4
1,2-Dibromo-3-chloropropane	N.D.		0.5
1,2-Dibromoethane	N.D.	•	0.4
Dibromomethane	N.D.		0.4
1,2-Dichlorobenzene	N.D.		0.2
1,3-Dichlorobenzene	N.D.		0.2
1,4-Dichlorobenzene	N.D.		0.2
Dichlorodifluoromethane	N.D.		0.4
1,1-Dichloroethane	N.D.		0.2
1,2-Dichloroethane	N.D.		0.2
1,1-Dichloroethene	N.D.		0.2
cis-1,2-Dichloroethene	N.D.		0.2
trans-1,2-Dichloroethene	N.D.		0.2
1,2-Dichloropropane	N.D.		0.2
1,3-Dichloropropane	N.D.		0.4
2,2-Dichloropropane	N.D.	1	0.4
1,1-Dichloropropene	N.D.		0.2
cis-1,3-Dichloropropene	N.D.		0.2
trans-1,3-Dichloropropene	N.D.		0.2
Hexachlorobutadiene	N.D.		0.2
Methylene chloride	N.D.		0.4
1,1,1,2-Tetrachloroethane	N.D.		0.2
1,1,2,2-Tetrachloroethane	N.D.		0.4

Notes



EPA 82. Volatile Halogenated Hydrocarbons, continued

July 25, 1994 Client: **Environmental Management Resources** Date Sampled: Project Name: Benenson/Bellevue Date Received: July 25, 1994 August 3, 1994 Project Number: 1153 Date Extracted: B-7C August 3, 1994 Client Sample ID: Date Analyzed: Laboratory Batch # 01489A Sample Matrix: Soil mg/kg Dilution Factor: 1 Units:

			-
Analyte	Sample Result	Notes	Reporting Limit
Tetrachloroethene	N.D.		0.2
1,2,3-Trichlorobenzene	N.D.		0.4
1,2,4-Trichlorobenzene	N.D.		0.4
1,1,1-Trichloroethane	N.D.		0.2
1,1,2-Trichloroethane	N.D.		0.4
Trichloroethene	N.D.		0.2
Trichlorofluoromethane	N.D.		0.2
1,2,3-Trichloropropane	N.D.		0.4
Vinyl chloride	N.D.		1
•			

Surrogate Recoveries	Recovery	Notes	Acceptance Range
Toluene-d8	103%	_	81%-117%
4-Bromofluorobenzene	104%		74%-121%
Dibromofluoromethane	103%		80%-120%

Notes



EPA 8240 Volatile Halogenated Hydrocarbons

Environmental Management Resources Date Sampled: July 25, 1994 Client: July 25, 1994 Benenson/Bellevue Date Received: Project Name: Date Extracted: August 3, 1994 Project Number: 1153 August 3, 1994 Date Analyzed: Client Sample ID: B-7D Sample Matrix: Soil 01489A Laboratory Batch #

Units: mg/kg Dilution Factor: 1

Analyte	Sample Result	Notes	Reporting Limit
D	N.D.		0.2
Bromobenzene	N.D.	~	0.4
Bromochloromethane			0.4
Bromodichloromethane	N.D.		0.2
Bromoform	N.D.		0.4
Bromomethane	N.D.		0.4
Carbon tetrachloride	N.D.		
Chlorobenzene	N.D.		0.2
Chloroethane	N.D.		0.2
2-Chloroethyl vinyl ether	N.D.		1
Chloroform	N.D.		0.2
Chloromethane	N.D.		0.2
2-Chlorotoluene	N.D.		0.2
4-Chlorotoluene	N.D.		0.2
Dibromochloromethane	N.D.		0.4
1,2-Dibromo-3-chloropropane	N.D.		0.5
1,2-Dibromoethane	N.D.		0.4
Dibromomethane	N.D.		0.4
1,2-Dichlorobenzene	N.D.		0.2
1,3-Dichlorobenzene	N.D.		0.2
1,4-Dichlorobenzene	N.D.		0.2
Dichlorodifluoromethane	N.D.		0.4
1,1-Dichloroethane	N.D.		0.2
1,2-Dichloroethane	N.D.		0.2
1,1-Dichloroethene	N.D.		0.2
cis-1,2-Dichloroethene	N.D.		0.2
trans-1,2-Dichloroethene	N.D.		0.2
1,2-Dichloropropane	N.D.		0.2
1,3-Dichloropropane	N.D.		0.4
2,2-Dichloropropane	N.D.		0.4
1,1-Dichloropropene	N.D.		0.2
cis-1,3-Dichloropropene	N.D.		0.2
trans-1,3-Dichloropropene	N.D.		0.2
Hexachlorobutadiene	N.D.		0.2
Methylene chloride	N.D.		0.4
1,1,1,2-Tetrachloroethane	N.D.		0.2
1,1,2,2-Tetrachloroethane	N.D.		0.4

Notes



EPA 8240 Volatile Halogenated Hydrocarbons, continued

Client: **Environmental Management Resources** Date Sampled: July 25, 1994 Project Name: Benenson/Bellevue July 25, 1994 Date Received: Project Number: 1153 Date Extracted: August 3, 1994 Client Sample ID: B-7D Date Analyzed: August 3, 1994 Laboratory Batch # 01489A Sample Matrix: Soil Units: mg/kg Dilution Factor: 1

			•
Analyte	Sample Result	Notes	Reporting Limit
Tetrachloroethene	N.D.		0.2
1,2,3-Trichlorobenzene	N.D.		0.4
1,2,4-Trichlorobenzene	N.D.		0.4
1,1,1-Trichloroethane	N.D.		0.2
1,1,2-Trichloroethane	N.D.		0.4
Trichloroethene	N.D.		0.2
Trichlorofluoromethane	N.D.		0.2
1,2,3-Trichloropropane	N.D.		0.4
Vinyl chloride	N.D.		1

Surrogate Recoveries	Recovery	Notes	Acceptance Range
Toluene-d8	101%		81%-117%
4-Bromofluorobenzene	101%		74%-121%
Dibromofluoromethane	100%		80%-120%

Notes



EPA 8240 Volatile Halogenated Hydrocarbons

				·	
Client:	Environmental Manageme	nt Resources	Date Sampled:	July 25, 1994	
Project Name:	Benenson/Bellevue		Date Received:	July 25, 1994	
Project Number:	1153		Date Extracted:	August 3, 1994	
Client Sample ID:	B-8A		Date Analyzed:	August 3, 1994	
Laboratory Batch #	01489A		Sample Matrix:	Soil	
Units:	mg/kg	-	Dilution Factor:	1	
Analyte	Sar	nple Result	Notes	Reporting Limit	

Analyte	Sample Result	Notes	Reporting Limit
		·	
Bromobenzene	N.D.		0.2
Bromochloromethane	N.D.		0.4
Bromodichloromethane	N.D.		0.2
Bromoform	N.D.		0.4
Bromomethane	N.D.		0.4
Carbon tetrachloride	N.D.		0.2
Chlorobenzene	N.D.	•	0.2
Chloroethane	N.D.		0.2
2-Chloroethyl vinyl ether	N.D.		1
Chloroform	N.D.		0.2
Chloromethane	N.D.		0.2
2-Chlorotoluene	N.D.		0.2
4-Chlorotoluene	N.D.		0.2
Dibromochloromethane	N.D.		0.4
1,2-Dibromo-3-chloropropane	N.D.		0.5
1,2-Dibromoethane	N.D.		0.4
Dibromomethane	N.D.		0.4
1,2-Dichlorobenzene	N.D.		0.2
1,3-Dichlorobenzene	N.D.		0.2
1,4-Dichlorobenzene	N.D.		0.2
Dichlorodifluoromethane	N.D.		0.4
1,1-Dichloroethane	N.D.		0.2
1,2-Dichloroethane	N.D.		0.2
1,1-Dichloroethene	N.D.		0,2
cis-1,2-Dichloroethene	N.D.		0.2
trans-1,2-Dichloroethene	N.D.		0.2
1,2-Dichloropropane	N.D.		0.2
1,3-Dichloropropane	N.D.		0.4
2,2-Dichloropropane	N.D.		0.4
1,1-Dichloropropene	N.D.		0.2
cis-1,3-Dichloropropene	N.D.		0.2
trans-1,3-Dichloropropene	N.D.		0.2
Hexachlorobutadiene	N.D.		0.2
Methylene chloride	N.D.		0.4
1,1,1,2-Tetrachloroethane	N.D.		0.2
1,1,2,2-Tetrachloroethane	N.D.		0.4



EPA 8240 Volatile Halogenated Hydrocarbons, continued

Client: Environmental Management Resources Date Sampled: July 25, 1994 Project Name: Benenson/Bellevue July 25, 1994 Date Received: Project Number: 1153 Date Extracted: August 3, 1994 B-8A Client Sample ID: Date Analyzed: August 3, 1994 01489A Laboratory Batch # Sample Matrix: Soil Units: mg/kg Dilution Factor:

o mg/ng		Distribit i actor.	4
Analyte	Sample Result	Notes	Reporting Limit
Tetrachloroethene	2.5	•	0.2
1,2,3-Trichlorobenzene	N.D.		0.4
1,2,4-Trichlorobenzene	N.D.		0.4
1,1,1-Trichloroethane	N.D.		0.2
1,1,2-Trichloroethane	N.D.		0.4
Trichloroethene	N.D.		0.2
Trichlorofluoromethane	N.D.		0.2
1,2,3-Trichloropropane	N.D.		0.4
Vinyl chloride	N.D.		1 -

Surrogate Recoveries	Recovery	Notes	Acceptance Range
Toluene-d8	99%		81%-117%
4-Bromofluorobenzene	99%		74%-121%
Dibromofluoromethane	100%		80%-120%

Notes



EPA 8240 Volatile Halogenated Hydrocarbons

Client:	Environmental M	anagement Resources	Date Sampled:	July 25, 1994
Project Name:	Benenson/Bellevu	e	Date Received:	July 25, 1994
Project Number:	1153		Date Extracted:	August 3, 1994
Client Sample ID:	B-8C		Date Analyzed:	August 3, 1994
Laboratory Batch #	01489A		Sample Matrix:	Soil
Units:	mg/kg		Dilution Factor:	1
Analyte		Sample Result	Notes	Reporting Limit
Bromobenzene		N.D.		0.2
Bromochloromethane	!	N.D.		0.4
Bromodichlorometha	ne	N.D.		0.2
Bromoform		N.D.		0.4
Bromomethane		N.D.		0.4
Carbon tetrachloride		N.D.		0.2
Chlorobenzene		N.D.		0.2
Chloroethane		N.D.		0.2
2-Chloroethyl vinyl et	ther	N.D.		1
Chloroform		N.D.		0.2
Chloromethane		N.D.		0.2
2-Chlorotoluene		N.D.		0.2
4-Chlorotoluene		N.D.		0.2
Dibromochlorometha	ne	N.D.		0.4
1,2-Dibromo-3-chloro	propane	N.D.		0.5
1,2-Dibromoethane	•	N.D.		0.4
Dibromomethane		N.D.		0.4
1,2-Dichlorobenzene		N.D.		0.2
1,3-Dichlorobenzene		N.D.		0.2
1,4-Dichlorobenzene		N.D.		0.2
Dichlorodifluorometh	ane	N.D.		0.4
1,1-Dichloroethane		N.D.		0.2
1,2-Dichloroethane		N.D.		0.2
1,1-Dichloroethene		N.D.		0.2
cis-1,2-Dichloroethen	e	N.D.		0.2
trans-1,2-Dichloroethe		N.D.		0.2
1,2-Dichloropropane		N.D.		0.2
1,3-Dichloropropane		N.D.		0.4
2,2-Dichloropropane		N.D.		0.4
1,1-Dichloropropene		N.D.		0.2
cis-1,3-Dichloroprope	ene	N.D.		0.2
trans-1,3-Dichloropro		N.D.		0.2
Hexachlorobutadiene	•	N.D.		0.2
Methylene chloride		N.D.		0.4
1,1,1,2-Tetrachloroeth	nane	N.D.		0.2
1,1,2,2-Tetrachloroeth		N.D.		0.4
Notes				



Units:

EPA 8240 Volatile Halogenated Hydrocarbons, continued

Date Sampled: Client: Environmental Management Resources July 25, 1994 Project Name: Benenson/Bellevue Date Received: July 25, 1994 Date Extracted: August 3, 1994 Project Number: 1153 **Client Sample ID:** B-8C Date Analyzed: August 3, 1994 Soil Laboratory Batch # 01489A Sample Matrix:

Dilution Factor: mg/kg Sample Result Reporting Limit Notes Analyte Tetrachloroethene 2.2 0.2 0.4 N.D. 1,2,3-Trichlorobenzene 0.4 N.D. 1,2,4-Trichlorobenzene N.D. 0.2 1,1,1-Trichloroethane 0.4 1,1,2-Trichloroethane N.D. 0.2 Trichloroethene N.D. 0.2 Trichlorofluoromethane N.D. 0.4 1,2,3-Trichloropropane N.D. 1 N.D. Vinyl chloride

Surrogate Recoveries	Recovery	Notes	Acceptance Range
Toluene-d8	100%		81%-117%
4-Bromofluorobenzene	100%		74%-121%
Dibromofluoromethane	102%		80%-120%

Notes



EPA 8240 Volatile Halogenated Hydrocarbons

Client:	Environmental Management Reso	ources Date Sampled:	July 25, 1994
Project Name:	Benenson/Bellevue	Date Received:	July 25, 1994
Project Number:	1153	Date Extracted:	August 3, 1994
Client Sample ID:	B-8E	Date Analyzed:	August 3, 1994
Laboratory Batch #	01489A	Sample Matrix:	Soil
Units:	mg/kg	Dilution Factor:	1
Analyte	Sample R	esult Notes	Reporting Limit
			• •
Bromobenzene	N.D.		0.2
Bromochloromethane	N.D.		0.4
Bromodichlorometha			0.2
Bromoform	N.D.		0.4
Bromomethane	N.D.		0.4
Carbon tetrachloride	N.D.		0.2
Chlorobenzene	N.D.		0.2
Chloroethane	N.D.		0.2
2-Chloroethyl vinyl e	ther N.D.		1
Chloroform	N.D.		0.2
Chloromethane	N.D.		0.2
2-Chlorotoluene	N.D.		0.2
4-Chlorotoluene	N.D.		0.2
Dibromochlorometha	ne N.D.		0.4
1,2-Dibromo-3-chlore	opropane N.D.		0.5
1,2-Dibromoethane	N.D.		0.4
Dibromomethane	N.D.		0.4
1,2-Dichlorobenzene	N.D.		0.2
1,3-Dichlorobenzene	N.D.	•	0.2
1,4-Dichlorobenzene	N.D.		0.2
Dichlorodifluorometh	nane N.D.		0.4
1,1-Dichloroethane	N.D.		0.2
1,2-Dichloroethane	N.D.		0.2
1,1-Dichloroethene	N.D.		0.2
cis-1,2-Dichloroether	ne N.D.		0.2
trans-1,2-Dichloroeth			0.2
1,2-Dichloropropane	N.D.		0.2
1,3-Dichloropropane	N.D.		0.4
2,2-Dichloropropane	N.D.		0.4
1,1-Dichloropropene	N.D.	•	0.2
cis-1,3-Dichloroprop	ene N.D.		0.2
trans-1,3-Dichloropro	opene N.D.		0.2
Hexachlorobutadiene	N.D.		0.2
Methylene chloride	N.D.		0.4
1,1,1,2-Tetrachloroet	hane N.D.		0.2
1,1,2,2-Tetrachloroet	hane N.D.		0.4



EPA 8240 Volatile Halogenated Hydrocarbons, continued

Client: **Environmental Management Resources** Date Sampled: July 25, 1994 Project Name: Benenson/Bellevue July 25, 1994 Date Received: Project Number: 1153 Date Extracted: August 3, 1994 Client Sample ID: **B-8E** Date Analyzed: August 3, 1994 Laboratory Batch # 01489A Sample Matrix: Soil Units: mg/kg Dilution Factor:

ome ne	Dilation 1 detoi:		
Analyte	Sample Result	Notes	Reporting Limit
Tetrachloroethene	N.D.		0.2
1,2,3-Trichlorobenzene	N.D.		0.4
1,2,4-Trichlorobenzene	N.D.		0.4
1,1,1-Trichloroethane	N.D.		0.2
1,1,2-Trichloroethane	N.D.		0.4
Trichloroethene	N.D.		0.2
Trichlorofluoromethane	N.D.		0.2
1,2,3-Trichloropropane	N.D.		0.4
Vinyl chloride	N.D.		1
-			

Surrogate Recoveries	Recovery	Notes	Acceptance Range
Toluene-d8	99%		81%-117%
4-Bromofluorobenzene	99%		74%-121%
Dibromofluoromethane	102%		80%-120%

Notes



EPA 8240 Volatile Halogenated Hydrocarbons

Client:	Environmental Ma	nagement Resources	Date Sampled:	July 25, 1994
Project Name:	Benenson/Bellevue		Date Received:	July 25, 1994
Project Number:	1153		Date Extracted:	August 3, 1994
Client Sample ID:	B-8G		Date Analyzed:	August 3, 1994
Laboratory Batch #	01489A		Sample Matrix:	Soil
Units:	mg/kg		Dilution Factor:	1
Analyte		Sample Result	Notes	Reporting Limit
Bromobenzene		N.D.		0.2
Bromochloromethane	;	N.D.		0.4
Bromodichlorometha		N.D.		0.2
Bromoform		N.D.		0.4
Bromomethane		N.D.		, 0.4
Carbon tetrachloride		N.D.		0.2
Chlorobenzene		N.D.		0.2
Chloroethane		N.D.		0.2
2-Chloroethyl vinyl e	ther	N.D.		1
Chloroform		N.D.		0.2
Chloromethane		N.D.		0.2
2-Chlorotoluene		N.D.		0.2
4-Chlorotoluene		N.D.		0.2
Dibromochlorometha	ine	N.D.		0.4
1,2-Dibromo-3-chlor		N.D.		0.5
1,2-Dibromoethane	оргоранс	N.D.		0.4
Dibromomethane		N.D.		0.4
1,2-Dichlorobenzene		N.D.		0.2
1,3-Dichlorobenzene		N.D.		0.2
•		N.D.		0.2
1,4-Dichlorobenzene Dichlorodifluoromet		N.D.		0.4
	lialic	N.D.		0.2
1,1-Dichloroethane		N.D.		0.2
1,2-Dichloroethane		N.D.		0.2
1,1-Dichloroethene		N.D.		0.2
cis-1,2-Dichloroether		N.D. N.D.		0.2
trans-1,2-Dichloroeth		N.D.		0.2
1,2-Dichloropropane		N.D.	ů.	0.4
1,3-Dichloropropane		N.D.		0.4
2,2-Dichloropropane		N.D.	_	0.2
1,1-Dichloropropene		N.D.	•	0.2
cis-1,3-Dichloroprop		N.D.		0.2
trans-1,3-Dichloropr		N.D.		0.2
Hexachlorobutadien	e	N.D.		0.4
Methylene chloride	41	N.D. ⋅ N.D.		0.2
1,1,1,2-Tetrachloroe				0.4
1,1,2,2-Tetrachloroe	thane	N.D.		۳.٠



EPA 8240 Volatile Halogenated Hydrocarbons, continued

Client: **Environmental Management Resources** Date Sampled: July 25, 1994 Project Name: Benenson/Bellevue Date Received: July 25, 1994 Project Number: 1153 Date Extracted: August 3, 1994 Client Sample ID: **B-8G** Date Analyzed: August 3, 1994 Laboratory Batch # 01489A Sample Matrix: Soil Units: mg/kg Dilution Factor:

Analyte	Sample Result	Notes	Reporting Limit
Tetrachloroethene	N.D.		0.2
1,2,3-Trichlorobenzene	N.D.		0.4
1,2,4-Trichlorobenzene	N.D.		0.4
1,1,1-Trichloroethane	N.D.		0.2
1,1,2-Trichloroethane	N.D.		0.4
Trichloroethene	N.D.		0.2
Trichlorofluoromethane	N.D.		0.2
1,2,3-Trichloropropane	N.D.		0.4
Vinyl chloride	N.D.		1

Surrogate Recoveries	Recovery	Notes	Acceptance Range
Toluene-d8	102%		81%-117%
4-Bromofluorobenzene	100%		74%-121%
Dibromofluoromethane	103%		80%-120%

Notes



EPA 8240 Volatile Halogenated Hydrocarbons Quality Control Data

Client: Environmental Management Resources

Project Name: Benenson/Bellevue Date Extracted: August 3, 1994
Project Number: 1153 Date Analyzed: August 3, 1994

Laboratory Batch # 01489A Dilution Factor: 1

Sample ID: Method Blank Units: mg/kg

Sample 1D: Method Blank		Oms.	mg/ng
Analyte	Sample Result	Notes	Reporting Limit
Bromobenzene	N.D.		0.2
Bromochloromethane	N.D.		0.4
Bromodichloromethane	N.D.		0.2
Bromoform	N.D.		0.4
Bromomethane	N.D.		0.4
Carbon tetrachloride	N.D.		0.2
Chlorobenzene	N.D.		0.2
Chloroethane	N.D.		• 0.2
2-Chloroethyl vinyl ether	N.D.		1
Chloroform	N.D.		0.2
Chloromethane	N.D.		0.2
2-Chlorotoluene	N.D.		0.2
4-Chlorotoluene	N.D.		0.2
Dibromochloromethane	N.D.		0.4
1,2-Dibromo-3-chloropropane	N.D.		0.5
1,2-Dibromoethane	N.D.		0.4
Dibromomethane	N.D.		0.4
1,2-Dichlorobenzene	N.D.		0.2
,3-Dichlorobenzene	N.D.		0.2
1,4-Dichlorobenzene	` N.D .		0.2
Dichlorodifluoromethane	N.D.		0.4
1,1-Dichloroethane	N.D.		0.2
1,2-Dichloroethane	N.D.		0.2
1,1-Dichloroethene	N.D.		0.2
cis-1,2-Dichloroethene	N.D.		0.2
rans-1,2-Dichloroethene	N.D.		0.2
1,2-Dichloropropane	N.D.		0.2
1,3-Dichloropropane	N.D.		0.4
2,2-Dichloropropane	N.D.		0.4
1,1-Dichloropropene	N.D.		0.2
cis-1,3-Dichloropropene	N.D.		0.2
trans-1,3-Dichloropropene	N.D.		0.2
Hexachlorobutadiene	N.D.		0.2
Methylene chloride `	N.D.		0.4
1,1,1,2-Tetrachloroethane	N.D.		0.2
1,1,2,2-Tetrachloroethane	N.D.		0.4

Notes



EPA 8240 Volatile Halogenated Hydrocarbons, continued **Quality Control Data**

Cliena

Environmental Management Resources

Project Name:

Benenson/Bellevue

Project Number:

Laboratory Batch #

1153

01489A

Date Extracted:

August 3, 1994

Date Analyzed:

August 3, 1994

Dilution Factor:

1

Sample ID: Method Bla	nk	Units:	mg/kg
Analyte	Sample Result	Notes	Reporting Limit
Tetrachloroethene	N.D.		0.2
1,2,3-Trichlorobenzene	N.D.		0.4
1,2,4-Trichlorobenzene	N.D.		0.4
1,1,1-Trichloroethane	N.D.		0.2
1,1,2-Trichloroethane	N.D.		0.4
Trichloroethene	N.D.		0.2
Trichlorofluoromethane	N.D.		0.2
1,2,3-Trichloropropane	N.D.		0.4
Vinyl chloride	N.D.	1	1

Surrogate Recoveries	Recovery	Notes	Acceptance Range
Toluene-d8	98%		81% - 117%
4-Bromofluorobenzene	98%		74% - 121%
Dibromofluoromethane	103%		80% - 120%

Notes



EPA 8240 Volatile Halogenated Hydrocarbons, continued Quality Control Data

Client: Project Name:	Environm	Environmental Management Resources Renenson/Rellevire	ent Resource	Ø	Date Extracted:	Angust 3, 1994	
Project Number: Laboratory Batch #	1153 01489A				Date Analyzed: Dilution Factor:	August 3, 1994	
Batch Sample ID:	01489QA-soil	-soil	Commis	Durlingto	Units:	mg/kg	
·		reporting Limit	Sample	Duplicate	מממ	Acceptance Limit	
Analyte		רושונ	Result	Kesun	אַרַר	Limit	1
Bromobenzene		0.2	N.D.	N.D.	I	30%	
Bromochloromethane	4)	0.4	N.D.	N.D.	i .	30%	
Bromodichloromethane	ne	0.2	N.D.	N.D.	;	30%	
Bromoform		0.4	N.D.	N.D.	i	30%	
Bromomethane		0.4	N.D.	N.D.	i	30%	
Carbon tetrachloride		0.2	N.D.	N.D.	1	30%	
Chlorobenzene		0.2	N.D.	N.D.	:	30%	
Chloroethane		0.2	N.D.	N.D.	:	30%	
2-Chloroethyl vinyl ether	ther	-	N.D.	N.D.	:	30%	
Chloroform		0.2	N.D.	N.D.	ł	30%	
Chloromethane		0.2	N.D.	N.D.	ı	30%	
2-Chlorotoluene		0.2	N.D.	N.D.	ı	30%	
4-Chlorotoluene		0.2	N.D.	N.D.	1	30%	
Dibromochloromethane	ne	0.4	N.D.	N.D.	1	30%	
1,2-Dibromo-3-chloropropane	opropane	0.5	N.D.	N.D.	1	30%	
1,2-Dibromoethane		0.4	N.D.	N.D.	ŀ	30%	
Dibromomethane		0.4	N.D.	N.D.	۱.	30%	
1,2-Dichlorobenzene		0.2	N.D.	N.D.	1	30%	
1,3-Dichlorobenzene		0.2	N.D.	N.D.	i	30%	
1,4-Dichlorobenzene		0.2	N.D.	N.D.	:	30%	
Dichlorodifluoromethane	ıane	0.4	N.D.	N.D.	ŀ	30%	
1,1-Dichloroethane		0.2	N.D.	N.D.	1	30%	
1,2-Dichloroethane		0.2	N.D.	N.D.	ŀ	30%	
1,1-Dichloroethene		0.2	Z.D.	N.D.	1	30%	
cis-1,2-Dichloroethene	2	0.2	N.D.	Ŋ.	ì	30%	
trans-1,2-Dichloroethene	ene	0.2	Ö.	Ö :	ŀ	30%	
1,2-Dichloropropane		0.2	Ö.	Z.	:	30%	
1,3-Dichloropropane		0.4	Ö.	Ö ;	ŀ	30%	
2,2-Dichloropropane		0.4		Ċ Z	:	30%	
1,1-Dichloropropene		0.2	N.D.	N.D.	:	30%	
cis-1,3-Dichloropropene	ene	0.2	N.D.	N.D.	ł	30%	
trans-1,3-Dichloropropene	pene	0.2	N.D.	N.D.	•	30%	
Hexachlorobutadiene		0.2	N.D.	N.D.	ŀ	30%	
Methylene chloride		0.4	N.D.	N.D.	i	30%	
1,1,1,2-Tetrachloroethane	hane	0.2	N.D.	N.D.	1	30%	
1, 1, 2, 2-Tetrachloroethane	hane	0.4	N.D.	N.D.	ı	30%	
Notes N. D. Not detected shows the renorting limit	out the ten	orting limit			}		1



EPA 8240 Volatile Halogenated Hydrocarbons, continued **Quality Control Data**

Client:

Environmental Management Resources

Project Name:

Benenson/Bellevue

Project Number:

1153

Date Extracted: Date Analyzed: August 3, 1994

Laboratory Batch #

01489A

August 3, 1994

Units:

Dilution Factor:

mg/kg

Batch Sample ID: 01489	QA-soil		τ	Inits:	mg/kg
	Reporting	Sample	Duplicate		Acceptance
Analyte	Limit	Result	Result	RPD	Limit
Tetrachloroethene	0.2	N.D.	N.D.		30%
1,2,3-Trichlorobenzene	0.4	N.D.	N.D.		30%
1,2,4-Trichlorobenzene	0.4	N.D.	N.D.		30%
1,1,1-Trichloroethane	0.2	N.D.	N.D.		30%
1,1,2-Trichloroethane	0.4	N.D.	N.D.		30%
Trichloroethene	0.2	N.D.	N.D.		30%
Trichlorofluoromethane	0.2	N.D.	N.D.		30%
1,2,3-Trichloropropane	0.4	N.D.	N.D.		30%
Vinyl chloride	1	N.D.	N.D.		30%

Notes



EPA 8240 Volatile Halogenated Hydrocarbons, continued

Quality Control Data

Client:

Environmental Management Resources

Project Name:

Benenson/Bellevue

Date Extracted:

August 3, 1994

Project Number: Laboratory Batch # 1153

Date Analyzed:

August 3, 1994

01489A

Dilution Factor:

mø/kø

Batch Sample ID:	01489QA	-soil			Units:	mg/kg
Analyte	Spike Added	Spike Recovery	Acceptance Range	Spike Dup Recovery	RPD	Acceptance Limit
1,1-Dichloroethene	5	64%	59% - 172%	66%	3%	22%
Trichloroethene	5	81%	62% - 137%	.87%	7%	24%
Chlorobenzene	5	91%	60% - 133%	94%	3%	21%



Moisture Content Report

Client:

Environmental Management Resources

Project Name:

Benenson/Bellevue

Project Number: Laboratory Batch # 1153 1489A

Units:

% Moisture

Date Sampled:

July 25, 1994

Date Received:

July 25, 1994

Date Analyzed:

July 27, 1994

Sample Matrix: Soil

Client Sample ID	Sample Result	Notes	Reporting Limit
B-7A	10%		1%
B-7C	9%		1%
B-7D	. 7%		1%
B-8A	8%		1%
B-8C	9%		1%
B-8E	7%		1%
B-8G	8%		1%

ENVIRONMENTAL

GEOCHEMISTRY,

CHAIN-OF-CUSTODY RECORD

P.O. #: 946059.00-Z

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TRANSGLOBAL ENVIRONMENTAL GEOCHEMISTRY,

CHAIN-OF-CUSTODY RECORD P.O. #: 946059.00 - 2

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GEOCHEMISTRY,

CHAIN-OF-CUSTODY RECORD

P.O. #: 946054.00-2

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TRANSGLOBAL ENVIRONMENTAL GEOCHEMISTRY,

CHAIN-OF-CUSTODY RECORD P.O. #: 946059.00-Z

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TRANSGLOBAL

ENVIRONMENTAL

GEOCHEMISTRY,

CHAIN-OF-CUSTODY RECORD

P.O. #: 948059.00-2

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TRANSGLOBAL ENVIRONMENTAL GEOCHEMISTRY,

CHAIN-OF-CUSTODY RECORD P.O. #:____

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TRANSGLOBAL ENVIRONMENTAL GEOSCIENCES NORTHWEST, INC.

7110 38th Drive SE Lacey, Washington 98503

Mobile Environmental Laboratories Environmental Sampling Services Telephone:

206-459-4670

Fax:

206-459-3432

Thomas Morin Kennedy Jenks Consultants 530 S. 336th Street Federal Way, WA 98003 August 18, 1994

Dear Sir:

Please find enclosed the data report for on-site Mobile Lab services August 10th through 12th and Soil Vapor Survey August 13th and 14th for the Benenson Project, Bellevue, Washington, Project, # 946059.00. Soil samples and soil vapor samples were analyzed for select chlorinated solvents by modified EPA Method 8021.

The results of the analyses are summarized in the attached table. All soil sample values are reported on a dry weight basis. Applicable detection limits and QA/QC data are included. An invoice for this analytical work is also enclosed.

TEG Northwest appreciates the opportunity to have provided analytical services to Kennedy Jenks for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Michael A. Korosec

Michaela. Korose

(President)

QA/QC FOR ANALYTICAL METHODS

GENERAL

The TEG Northwest Mobile Laboratory quality assurance and quality control (QA/QC) procedures are conducted following the guidelines and objectives which meet or exceed certification/accreditation requirements of California DOHS, Washington DOE, and Oregon DEQ. The Quality Control Program is a consistent set of procedures which assures data quality through the use of appropriate blanks, replicate analyses, surrogate spikes, and matrix spikes, and with the use of reference standards that meet or exceed EPA standards.

When analyses are taking place on-site with the mobile lab, the need for Field Blanks or Travel/Trip Blanks is eliminated. If there is going to be a delay before sample preparation for analysis, the sample is stored at 4° C.

ANALYTICAL METHODS

TEG Northwest Mobile Labs use analytical methodologies which are in conformity with U. S. Environmental Protection Agency (EPA), Washington DOE, and Oregon DEQ methodologies. When necessary and appropriate due to the nature or composition of the sample, TEG may use variations of the methods which are consistent with recognized standards or variations used by the industry and government laboratories.

Volatile Aromatics and Chlorinated VOCs (BTEX, EPA 602/8020, 8021)

A blank and a calibration standard are run at the beginning of the day. The standard must be within 15% of the continuing calibration curve value. The standard is rerun at the end of the day if more than 10 samples have been run. All samples are surrogate spiked, and duplicates are run at a rate of 1 per 10 samples. At least 1 method blank is run per day.

Pacific Northern Analytical

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Chain of Custody/Analysis Request Form
Laboratory Batch Number: /489

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By signing this form, you are agreeing to the terms and conditions listed on the back.

Pacific Northern Analytical

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CHAIN-OF-CUSTODY RECORD P.O. #: 946059.00

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FILANSGLOBAL ENVIRONMENTAL GEOCHEMISTRY,

CHAIN-OF-CUSTODY RECORD

P.O. #: 946059.00 //

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CHAIN-OF-CUSTODY RECORD P.O. #: 946059.00 2/2

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TRANSGLOBAL ENVIRONMENTAL GEOSCIENCES NORTHWEST, INC.

7110 38th Drive SE Lacey, Washington 98503

Mobile Environmental Laboratories Environmental Sampling Services Telephone:

206-459-4670

Fax:

206-459-3432

August 12, 1994

Thomas Morin Kennedy Jenks Consultants 530 S. 336th Street Federal Way, WA 98003

Dear Sir:

Please find enclosed the data report for on-site Mobile Lab services August 5th through 7th for the Benenson Project, Bellevue, Washington, Project, # 946059.00. There were 65 soil samples analyzed for select chlorinated solvents by modified EPA Method 8021.

The results of the analyses are summarized in the attached table. All soil sample values are reported on a dry weight basis. Applicable detection limits and QA/QC data are included. An invoice for this analytical work is also enclosed.

TEG Northwest appreciates the opportunity to have provided analytical services to Kennedy Jenks for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Michael A. Korosec

Michael a Kerrie

(President)

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Page 1

BENENSON PROJECT Bellevue, Washington Kennedy Jenks Inc.

Selected Halogenated Volatile Organic Compounds (EPA 8021) in Soils

=======	======	=====	=====	=====	=====	=====	=====
SAMPLE	DATE	DCE	TCE	PCE	1,1,1-TCA	1,1,2-TCA	Recovery
Number	Analyzed	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(%)
Blank	8/05/94	nd	nd	nd	nd	nd	
M. Blank	8/05/94	nd	nd	nd	nd	nd	103
· BB1-70	8/05/94	nd	nd	nd	nd	nd	92
BB1-65	8/05/94	nd	nd	nd	nd	nd	92
BB1-60	8/05/94	nd	nd	nd	nd	nd	90
BB1-55	8/05/94	nd	nd	nd	nd	nd	97
BB1-45	8/05/94	nd	nd	nd	nd	nd	99
BB1-35	8/05/94	nd	nd	nd	nd	nd	104
BB1-25	8/05/94	nd	nd	nd	nd	nd	113
BB1-15	8/05/94	nd	nd	0.16	nd	nd	103
BB1-45 Dup.	8/05/94	nd	nd	nd	nd	nd	107
BB2-70	8/05/94	nd	nd	nd	nd	nd	122
BB2-65	8/05/94	nd	nd	nd	nd	nd	106
BB2-60	8/05/94	nd	nd	nd	nđ	nd	95
BB2-55	8/05/94	nd	nd	0.16	nđ	nd	113
BB2-45	8/05/94	nd	nd	0.16	nd	nd	100
BB2-35	8/05/94	nd	nd	0.77	nd	nd	113
BB2-35 Dup.	8/05/94	nd	nd	0.95	nd	, nd	129
BB2-25	8/05/94	nd	nd	0.88	nd	nd	115
BB2-15	8/05/94	nd	nd	0.07	nd	nd	107
BB3-70	8/05/94	nd	nd	nd	nd	nd	122
BB3-65	8/05/94	nd	nd	nd	nd	nd	int
BB3-60	8/05/94	nd	nd	nd	nd	nd	114
BB3-55	8/05/94	nd	nd	0.05	nd	nd	123
BB3-45	8/06/94	nd	nd	0.19	nd	nd	90
BB3-35	8/06/94	nd	nd	4.64	nd	nd	91
BB3-25	8/06/94	nd	nd	0.37	nd	nd	101
BB3-15	8/06/94	nd	nd	0.43	nd	nd	88
DETECTION L	MITS	0.05	0.05	0.05	0.05	0.05	

[&]quot;nd" Indicates NOT DETECTED at the Listed Detection Limits "int" Indicates that INTERFERENCES prevent determination

Selected Halogenated Volatile Organic Compounds (EPA 8021) in Soils

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SAMPLE	DATE	DCE	TCE	PCE	1,1,1-TCA	1,1,2-TCA	Recovery
Number	Analyzed	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(%)
M. Blank	8/06/94	귭	пd	nd	a	nd	88
BB4-70	8/06/94	DG.	₽.	ձ	ם	ם	æ
BB4-65	8/06/94	æ	ᇗ	ᇗ	곱	교	89
BB4-60	8/06/94	ᇗ	굺	ם	孟	ᇟ	8
BB4-55	8/06/94	3	굺	굺	ձ	ם	9
BB4-45	8/06/94	굺	콥	콥	곱	굺	8
BB4-35	8/06/94	ъ	ᇗ	æ	æ	ᇟ	98
BB4-25	8/06/94	ᇗ	굺	0.12	곱	ᇟ	109
BB4-15	8/06/94	ձ	ם	0.13	곮	æ	105
BB4-15 Dup.	8/07/94	<u>a</u> .	ᇗ	0.17	콥	26	79
BB5-70	8/06/94	콥	2	ᇗ	교	2	8
BB5-65	8/06/94	콥	ם	0.08	곱	ם	100
BB5-60	8/06/94	굺	굺	0.09	孟	굺	98
BB5-55	8/06/94	ם	ᇗ	0.30	ng.	2	98
BB5-45	8/06/94	교	굺	1.34	显	a	100
BB5-35	8/06/94	Z.	ձ	0.24	ם	g	호
BB5-25	8/06/94	ձ	굺	0.15	ᇗ	B	<u>1</u>
885-25 Dup.	8/07/94	곱	ᇟ	0.10	ᇗ	ᇗ	75
885-15	8/06/94	ᇗ	ᇟ	2	곮	ם	100
BB6-80	8/06/94	ᇗ	콥	교	g	æ	. 98
BB6-70	8/06/94	콥	귪	2	교	ם	103
BB6-65	8/06/94	콥	nd.	2	ᇗ	g	1 04
BB6-60	8/06/94	ᇟ	ᇟ	ᇟ	ᇗ	ᇗ	91
BB6-55	8/06/94	굺	콥	0.06	굺	g	98
BB6-45	8/06/94	ձ	ᇗ	굺	豆	ձ	115
BB6-45 Dup.	8/06/94	ᇗ	显	굺	a .	ᇗ	1 0
BB6-35	8/06/94	콥	콥	2.17	Z	ם	112
BB6-25	8/06/94	콥	3	0.69	ď	ğ	102
BB6-15	8/06/94	3	Z	0.13	ᇟ	a	104
DETECTION LIMITS	MITS	0.05	0.05	0.05	0.05	0.05	

[&]quot;nd" Indicates NOT DETECTED at the Listed Detection Limits "int" Indicates that INTERFERENCES prevent determination

TRANSGLOBAL ENVIRONMENTAL GEOSCIENCES NORTHWEST INC.

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BENENSON PROJECT Bellevue, Washington Kennedy Jenks Inc.

Selected Halogenated Volatile Organic Compounds (EPA 8021) in Soils

=======	=====	======	=====	=====	=====	=====	=====
SAMPLE	DATE	DCE	TCE	PCE	1,1,1-TCA	1,1,2-TCA	Recov.
Number	Analyzed	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(%)
Meth. Blk.	8/07/94	nd	nd	nd	nd	nd	90
BB7-70	8/07/94	nd	nd	nd	nd	nd	9 6
BB7-65	8/07/94	nd	nd	nd	nd	nd	92
BB7-60	8/07/94	nd	nd	nd	nd	nd	87
BB7-55	8/07/94	nd	nd	nd	nd	, nd	97
BB7-45	8/07/94	nd	nd	nd	nd	nd	92
BB7-35	8/07/94	nd	nd	0.51	nd	nd	102
BB7-25	8/07/94	nd	nd	0.06	nd	nd	101
BB7-25 Dup.	8/07/94	nd	nd	0.08	nd	nd	103
BB7-15	8/07/94	nd	nd	nd	nd	nd	113
BB8-70	8/07/94	nd	nd	nd	nd	nd	90
BB8-65	8/07/94	nd	nd	nd	nd	nd	98
BB8-60	8/07/94	nd	nd	nd	nd	nd	94
BB8-55	8/07/94	nd	nd	nd	nd	nd	98
BB8-45	8/07/94	nd	nd	0.22	nd	nd	87
BB8-45 Dup.	8/07/94	nd	nd	0.25	nd	nd	87
BB8-35	8/07/94	nd	nd	0.06	nd	nd	87
BB8-25	8/07/94	nd	nd	0.89	nd	nd	88
BB8-15	8/07/94	nd	nd	nd	nd	nd	87
						•	
DETECTION LI	MITS	0.05	0.05	0.05	0.05	0.05	

[&]quot;nd" Indicates NOT DETECTED at the Listed Detection Limits "int" Indicates that INTERFERENCES prevent determination

Page 1

Specific Halogenated Hydrocarbons and BTEX (EPA 8021) in Soil

Sample-Number	MDL	Blank	Method Blank	BB9-60	BB9-55	BB9-45	BB 9-35
Date	mg/kg	8/10/94 mg/kg	8/10/94 mg/kg	8/10/94 mg/kg	8/10/94 mg/kg	8/10/94 mg/kg	8/10/94 mg/kg
1,1 Dichloroethene	0.01	nd	nd	nd	nd	nd	nd
1,2 Dichloroethene	0.01	nd	nd	nd	nd	nd ·	nd
Benzene .	0.01	nd	nd	nd	nd	nd	nd
Trichloroethene	0.01	nd	nd	nd	nd	nd	nd
Toluene	0.01	nd nd	nd	nd	nd	nd	nd
Cis Dichloropropene	0.01	nd	nd	nd	nd	nd ·	nd
Trans Dichlorpropene	0.01	nd	nd	nd	nd	nd	nd
Tetrachloroethene	0.01	nd	nd	nd	nd	0.04	0.09
Ethylbenzene	0.01	nd	nd	nd	nd	nd	nd
Total Xylenes	0.01	nd	nd	nd	nd	nd	nd
1,1 Dichloroethane	0.01	· nd	nd	nd	nd	nd	i nd
1,2 Dichloroethane	0.01	nd	nd	nd	nd	nd	nd
Chloroform	0.01	nd	nd	nd	nd	nd	nd
Carbon Tetrachloride	0.01	nd	nd	nd	nd	nd	nd
1,1,1 Trichloroethane	0.01	nd	nd	nd	nd	nd	nd
1,1,2 Trichloroethane	0.01	nd	nd	nd	nd	nd	nd
Spike Recovery (%)		n/a	129	86	90	92	87

[&]quot;int" Indicates that Interference Peaks prevent determination.

Page 2

Specific Halogenated Hydrocarbons and BTEX (EPA 8021) in Soil

=======================================	=====	======	======	======	======	======	======
Sample-Number	MDL	BB9-35 Dup	BB9-25	BB9-15	BB9-05	BB10-62	BB10-55
Date		8/12/94	8/10/94	8/10/94	8/10/94	8/10/94	8/10/94
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
1,1 Dichloroethene	0.01	nd	nd	nd	nd	nd	nd
1,2 Dichloroethene	0.01	nd	nd	nd	nd	nd	nd
Benzene	0.01	nd	nd	nd	nd	nd	nd-
Trichloroethene	0.01	nd	nd	nd	nd	nd	nd 🎘
Toluene	0.01	nd	nd	nd	nd	nd	nd∤
Cis Dichloropropene	0.01	nd	nd	nd	nd	nd	nd `~
Trans Dichlorpropene	0.01	nd	nd	nd	nd	nd	\mathbf{nd}_{\S}
Tetrachloroethene	0.01	0.08	0.03	0.01	nd	nd	0.03
Ethylbenzene	0.01	nd	nd	nd	nd	nd	nd
Total Xylenes	0.01	nd	nd	nd	nd	nd	nd
1,1 Dichloroethane	0.01	nd	nd	nd	nd	nd	nd_
1,2 Dichloroethane	0.01	nd	nd	nd	nd	nd	nd _,
Chloroform	0.01	nd	nd	nd	nd	nd	\mathbf{nd}_{\S}
Carbon Tetrachloride	0.01	nd	nd	nd	nd	nd	nd ~
1,1,1 Trichloroethane	0.01	nd	nd	nd	nd	nd	nd,
1,1,2 Trichloroethane	0.01	nd	nd	nd	nd	nd	nd'
Spike Recovery (%)		77	92	102	105	99	101

[&]quot;int" Indicates that Interference Peaks prevent determination.

Page 3

Specific Halogenated Hydrocarbons and BTEX (EPA 8021) in Soil

===== ===== Sample-Number	MDL	BB10-45	BB10-35	BB10-35 Dup	BB10-25	BB10-15	BB10-05
Date	mg/kg	8/10/94 mg/kg	8/10/94 mg/kg	8/12/94 mg/kg	8/10/94 mg/kg	8/10/94 mg/kg	8/10/94 mg/kg
1,1 Dichloroethene	0.01	nd	nd	nd	nd	nd	nd
1,2 Dichloroethene	0.01	nd	nd	nd	nd	nd.	nd
Benzene	0.01	nd	nd	nd	nd	nd	nd
Trichloroethene	0.01	nd	nd	nd	nd	nd	nd
Toluene	0.01	nd	nd	nd	nd	nd	nd
Cis Dichloropropene	0.01	nd	nd	nd	nd	nd:	nd
Trans Dichlorpropene	0.01	nd	nd	nđ	nd	nd	nd
Tetrachloroethene	0.01	nd	0.05	nd	0.03	nd ·	nd
Ethylbenzene	0.01	nd	nd	nd	nd	nd	nd
Total Xylenes	0.01	nd	nd	nd	nd	nd	nd
1,1 Dichloroethane	0.01	nd	nd	nd	nd	nd	nd
1,2 Dichloroethane	0.01	nd	nd	nd	nd	nd	nd
Chloroform	0.01	nd	nd	nd	nd	nd	nd
Carbon Tetrachloride	0.01	nd	nd	nd	nd	nd	nd
1,1,1 Trichloroethane	0.01	nd	nd	nd	nd	nd	nd
1,1,2 Trichloroethane	0.01	nd	nd	nd	nd	nd	nd
Spike Recovery (%)		101	94	85	95	89	105

[&]quot;int" Indicates that Interference Peaks prevent determination.

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Specific Halogenated Hydrocarbons and BTEX (EPA 8021) in Soil

Sample-Number	MDL	BB11-60	BB11-55	====== BB11-55 Dup	BB11-45	BB11-35	BB11-25
Date :	mg/kg	8/10/94 mg/kg	8/10/94 mg/kg	8/12/94 mg/kg	8/10/94 mg/kg	8/10/94 mg/kg	8/11/94 mg/kg
147:11	0.04		,				· · · · · · · · · · · · · · · · · · ·
1,1 Dichloroethene	0.01	nd	nd 	nd 	nd	nd	nd
1,2 Dichloroethene	0.01	nd	nd	nd	nd	nd	nd - d
Benzene	0.01	nd	nd	nd	nd	nd	nd:
Trichloroethene	0.01	nd	nd	nd	nd	nd	nd j
Toluene	0.01	nd	nd	nd	nd	nd	nd
Cis Dichloropropene	0.01	nd	nd	nd	nd	nd	nd
Trans Dichlorpropene	0.01	nd	nd	nd	nd	nd	nd,
Tetrachloroethene	0.01	0.06	0.08	0.07	0.07	0.02	nd
Ethylbenzene	0.01	nd	nd	nd	nd	nd	nd
Total Xylenes	0.01	nd	nd	nd	nd	nd	nd _,
1,1 Dichloroethane	0.01	nd	nd	nd	nd	nd	nd
1,2 Dichloroethane	0.01	nd	nd	nd	nd	nd	nd
Chloroform	0.01	nd	nd	nd	nd	nd	nd
Carbon Tetrachloride	0.01	nd	nd	nd	nd	nd	nd
1,1,1 Trichloroethane	0.01	nd	nd	nd	nd	nd	nd
1,1,2 Trichloroethane	0.01	nd	nd	nd	nd	nd	nd
Spike Recovery (%)		96	98	91	99	97	100 ,

"nd" Indicates Not Detected at the listed MDL.

[&]quot;int" Indicates that Interference Peaks prevent determination.

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Specific Halogenated Hydrocarbons and BTEX (EPA 8021) in Soil

Sample-Number	MDL	BB11-15	BB11-05	BB12-90	BB12-85	BB12-80	BB12-77
Date	mg/kg	8/11/94 mg/kg	8/11/94 mg/kg	8/11/94 mg/kg	8/11/94 mg/kg	8/11/94 mg/kg	8/11/94 mg/kg
1,1 Dichloroethene	0.01	nd	nd	nd	nd	nd -	nd
1,2 Dichloroethene	0.01	nd	nd	nd	nd	nd	nd
Benzene	0.01	nd	nd	nd	nd	nd	nd
Trichloroethene	0.01	nd	nd	nd	nd	nd	nd
Toluene	0.01	nd	nd	nd	nd	nd	nd
Cis Dichloropropene	0.01	nd	nd	nd	nd	nd···	nd
Trans Dichlorpropene	0.01	nd	nd	nd	nd	nd	
Tetrachloroethene	0.01	nd	nd	0.03	nd	- nd !'	0.07
Ethylbenzene	0.01	nd	nd	nd	nd	nd T	nd
Total Xylenes	0.01	nd	nd	nd	nd	nd	nd
1,1 Dichloroethane	0.01	nd	nd	nd	nd	nd	nd
1,2 Dichloroethane	0.01	nd	nd	nd	nd	nd	nd
Chloroform	0.01	nd	nd	nd	nd	nd	nd
Carbon Tetrachloride	0.01	nd	nd	nd	nd	nd	nd
1,1,1 Trichloroethane	0.01	nd	nd	nd	nd	nd	. nd
1,1,2 Trichloroethane	0.01	nd	nd	nd	nd	nd	nd
Spike Recovery (%)		96	94	88	90	91	92

[&]quot;int" Indicates that Interference Peaks prevent determination.

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Specific Halogenated Hydrocarbons and BTEX (EPA 8021) in Soil

====== ===============================	===== MDL	BB12-70	====== BB12-70 Dup	BB12-65	BB12-60	BB12-55	BB12-45
Sample Avamosi							
Date		8/10/94	8/12/94	8/10/94	8/10/94	8/10/94	8/10/94
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
1,1 Dichloroethene	0.01	nd	nd	nd	nd	nd	nd
1,2 Dichloroethene	0.01	nd	nd	nd	nd	nd	nc
Benzene	0.01	nd	nd	nd	nd	nd	nc
Trichloroethene	0.01	nd	nd	nd	nd	0.06	nd
Toluene	0.01	nd	nd	nd	nd	nd	ne
Cis Dichloropropene	0.01	nd	nd	nd	nd	nd	nú
Trans Dichlorpropene	0.01	nd	nd	nd	nd	nd	$\mathbf{n}\epsilon_{\mathbf{i}}^{\mathbf{j}}$
Tetrachloroethene	0.01	0.26	0.44	0.25	0.42	0.39	0.5 <
Ethylbenzene	0.01	nd	nd	nd	nd	nd	nd
Total Xylenes	0.01	nd	nd	nd	nd	nd	n€
1,1 Dichloroethane	0.01	nd	nd	nd	nd	nd	ne
1,2 Dichloroethane	0.01	nd	nd	nd	nd	nd	nd
Chloroform	0.01	nd	nd	nd	nd	nd	ДĠ
Carbon Tetrachloride	0.01	nd	nd	nd	nd	nd	nć-
1,1,1 Trichloroethane	0.01	nd	nd	nd	nd	nd	nđ
1,1,2 Trichloroethane	0.01	nd	- nd	nd	nd	nd	n
Spike Recovery (%)		115	85	108	108	113	90

[&]quot;int" Indicates that Interference Peaks prevent determination.

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Specific Halogenated Hydrocarbons and BTEX (EPA 8021) in Soil

Sample-Number	MDL	BB12-35	===== Method Blank	BB12-25	BB12-15	BB12-05	BB13-90
Date	mg/kg	8/10/94 mg/kg	8/11/94 mg/kg	8/11/94 mg/kg	8/11/94 mg/kg	8/11/94 mg/kg	8/11/94 mg/kg
1,1 Dichloroethene	0.01	nd	nd	nd	nd	nd	nd
1,2 Dichloroethene	0.01	nd	nd	nd	nd	nd [.]	nd
Benzene	0.01	nd	nd	nd	nd	nd	nd
Trichloroethene	0.01	nd	nd	nd	nd	nd	nd
Toluene	0.01	nd	nd	nd	nd	nd	nd
Cis Dichloropropene	0.01	nd	nd	nd	nd	nd -	nd
Trans Dichlorpropene	0.01	nd	nd	nd	nd	nd	nd
Tetrachloroethene	0.01	0.08	nd	0.01	0.03	nd ·	nd
Ethylbenzene	0.01	nd	nd	nd	nd	nd	nd
Total Xylenes	0.01	nd	nd	nd	nd	nd	nd
1,1 Dichloroethane	0.01	nd	nd	nd	nd	nd	nd
1,2 Dichloroethane	0.01	nd	nd	nd	nd	nd	nd
Chloroform	0.01	nd	nd	nd	nd	nd	nd
Carbon Tetrachloride	0.01	nd	nd	nd	nd	nd	nd
1,1,1 Trichloroethane	0.01	nd	nd	nd	nd	nd	nd
1,1,2 Trichloroethane	0.01	nd	nd	nd	nd	nd	nd
Spike Recovery (%)		103	109	91	93	92	97

[&]quot;int" Indicates that Interference Peaks prevent determination.

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Specific Halogenated Hydrocarbons and BTEX (EPA 8021) in Soil

======		======	======	======	======	======	
Sample-Number	MDL	BB13-85	BB13-80	BB13-70	BB13-70 Dup	BB13-60	BB13-55
							(
Date		8/11/94	8/11/94	8/11/94	8/12/94	8/11/94	8/11/94
2	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
1,1 Dichloroethene	0.01	nd	nd	nd	nd	nd	nd
1,2 Dichloroethene	0.01	nd	nd	nd	nd	nd	nd
Benzene	0.01	nd	nd	nd	nd	nd	nd -
Trichloroethene	0.01	nd	nd	nd	nd	nd	nd .
Toluene	0.01	nd	nd	nd	nd	nd	nd;
Cis Dichloropropene	0.01	nd	nd	nd	nd	nd	\mathbf{nd}^{k}
Trans Dichlorpropene	0.01	nd	nd	nd	nd	. nd	\mathbf{nd}_{+}
Tetrachloroethene	0.01	nd	0.07	0.61	0.61	0.22	0.04
Ethylbenzene	0.01	nd	nd	nd	nd	nd	nd
Total Xylenes	0.01	nd	nd	nd	nd	nd	nd [
1,1 Dichloroethane	0.01	nd	nd	nd	nd	nd	nd
1,2 Dichloroethane	0.01	nd	nd	nd	nd	nd	nd .
Chloroform	0.01	nd	nd	nd	nd	nd	\mathbf{nd}_{j}
Carbon Tetrachloride	0.01	nd	nd	nd	nd	nd	nd
1,1,1 Trichloroethane	0.01	nd	nd	nd	nd	nd	nd ,
1,1,2 Trichloroethane	0.01	nd	nd	nd	nd	nd	nd
Spike Recovery (%)		92	96	126	93	87	94

[&]quot;int" Indicates that Interference Peaks prevent determination.

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Specific Halogenated Hydrocarbons and BTEX (EPA 8021) in Soil

Sample-Number	MDL	BB13-45	BB13-35	BB13-25	BB13-15	BB13-05	BB14-60
Date	mg/kg	8/11/94 mg/kg	8/11/94 mg/kg	8/11/94 mg/kg	8/11/94 mg/kg	8/11/94 mg/kg	8/11/94 mg/kg
1,1 Dichloroethene	0.01	nd	·nd	nd	nd	nd ·	nd
1,2 Dichloroethene	0.01	nd	nd	nd	nd	nd	nd
Benzene	0.01	nd	nd	nd ·	nd	nd	nd
Trichloroethene	0.01	nd	nd	nd	nd	nd	- nd
Toluene	0.01	nd	nd	nd	nd	nd	nd
Cis Dichloropropene	0.01	nd	n d	nd	nd	nd 🐇	, nd
Trans Dichlorpropene	0.01	nd	nd	nd	nd	nd	, nd
Tetrachloroethene	0.01	nd	nd	nd	nd	nd ¹	nd
Ethylbenzene	0.01	nd	nd	nd	nd	nd	nd
Total Xylenes	0.01	nd	nd	nd	nd	nd	nd
1,1 Dichloroethane	0.01	nd	nd	nd	nd	nd	nd
1,2 Dichloroethane	0.01	nd	nd	nd	nd	nd	nd
Chloroform	0.01	nd	nd	nd	nd	nd	nd
Carbon Tetrachloride	0.01	nd	nd	nd	nd	nd	. ı nd
1,1,1 Trichloroethane	0.01	nd	nd	nd	nd	nd	nd
1,1,2 Trichloroethane	0.01	nd	nd	nd	nd	nd	, nd
Spike Recovery (%)		102	100	105	110	102	101

[&]quot;int" Indicates that Interference Peaks prevent determination.

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Specific Halogenated Hydrocarbons and BTEX (EPA 8021) in Soil

===== ================================	MDL	BB14-55	BB14-45	BB14-35	BB14-25	====== : BB14-25 Dup	BB14-15
Jampio-Ivamoor	WDD	BB14-33	DD 14-43	DD1 4 33	55 14 25	<i>BB</i> 11 <i>B</i> 3 <i>B</i> 4p	
Date		8/11/94	8/11/94	8/11/94	8/11/94	8/11/94	8/11/94
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
1,1 Dichloroethene	0.01	nd	nd	nd	nd	nd	nd
1,2 Dichloroethene	0.01	nd	nd	nd	nd	nd	nd;
Benzene	0.01	nd	nd	nd	nd	nd	nd '
Trichloroethene	0.01	nd	nd	nd	nd	nd	nd
Toluene	0.01	nd	nd	nd	nd	nd	nd
Cis Dichloropropene	0.01	nd	nd	nd	nd	nd	nd
Trans Dichlorpropene	0.01	nd	nd	nd	nd	nd	\mathbf{nd}_{i}
Tetrachloroethene	0.01	nd	nd	0.03	nd	nd	nd
Ethylbenzene	0.01	nd	nd	nd	nd	nd	nd
Total Xylenes	0.01	nd	nd	nd	nd	nd	nd
1,1 Dichloroethane	0.01	nd	nd	nd	nd	nd	nd
1,2 Dichloroethane	0.01	nd	nd	nd	nd	nd	nd
Chloroform	0.01	nd	nd	nd	nd	nd	nd
Carbon Tetrachloride	0.01	nd	, nd	nd	nd	nd	nd
1,1,1 Trichloroethane	0.01	nd	nd	nd	nd	nd	nd
1,1,2 Trichloroethane	0.01	nd	nd	nd	nd	nd	nd
Spike Recovery (%)		98	103	130	111	106	102

"nd" Indicates Not Detected at the listed MDL.

[&]quot;int" Indicates that Interference Peaks prevent determination.

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Specific Halogenated Hydrocarbons and BTEX (EPA 8021) in Soil

====== ===============================	MDL	BB14-05	Method Blank	STOCK1	STOCK2	STOCK3	STOCK4
Date	mg/kg	8/11/94 mg/kg	8/12/94 mg/kg	8/12/94 mg/kg	8/12/94 mg/kg	8/12/94 mg/kg	8/12/94 mg/kg
1,1 Dichloroethene	0.01	nd	nd	nd	nd	nd	nd
1,2 Dichloroethene	0.01	nd	nd	nd	nd	nd	nd
Benzene	0.01	nd	nd	nd	nd	nd	nd
Trichloroethene	0.01	nd	nd	nd	nd	nd	nd
Toluene	0.01	nd	nd	nd	nd	nd	nd
Cis Dichloropropene	0.01	nd	nd	nd	nd	nd	nd
Trans Dichlorpropene	0.01	nd	nd	nd	nd	nd	nd
Tetrachloroethene	0.01	nd	nd	0.07	0.02	0.01	nd nd
Ethylbenzene	0.01	nd	nd	nd	nd	nd	nd
Total Xylenes	0.01	nd	nd	nd	nd	nd	nd
1,1 Dichloroethane	0.01	nd	nd	nd	nd	nd	nd
1,2 Dichloroethane	0.01	nd	nd	nd	nd	nd	nd
Chloroform	0.01	nd	nd	nd	nd	nd	' nd
Carbon Tetrachloride	0.01	nd	nd	nd	nd	nd	nd
1,1,1 Trichloroethane	0.01	nd	nd	nd	nd	nd	nd
1,1,2 Trichloroethane	0.01	nd	nd	nd	nd	nd	bn
Spike Recovery (%)		. 99	105	84	93	119	91

[&]quot;int" Indicates that Interference Peaks prevent determination.

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Specific Halogenated Hydrocarbons and BTEX (EPA 8021) in Water

=======================================	=====	======		======	======		======
Sample-Number	MDL	Method	DECON1	DECON2			
		Blank				*	
Date		8/12/94	8/12/94	8/12/94			
Date		=			٠		
	mg/kg	ug/l	ug/l	ug/l			
1,1 Dichloroethene	1	· nd	nd	nd			
1,2 Dichloroethene	1	nd	nd	nd			
Benzene	1	nd	nd	nd			
Trichloroethene	1	nd	nd	nd			
Toluene	1	nd	nd	nd			
Cis Dichloropropene	1	nd	nd	nd			,
Trans Dichlorpropene	1	nd	nd	nd			
Tetrachloroethene	. 1	nd	nd	nd			
Ethylbenzene	1	nd	nd	nd			
Total Xylenes	1	nd	nd	nd			
1,1 Dichloroethane	1	nd	nd	nd			•
1,2 Dichloroethane	1	nd	nd	nd			
Chloroform	1	nd	nd	nd			
Carbon Tetrachloride	1	nd	nd	nd			•
1,1,1 Trichloroethane	1	nd	nd	nd			
1,1,2 Trichloroethane	1	nd	nd	nd			1
Spike Recovery (%)		112	115	114			

[&]quot;int" Indicates that Interference Peaks prevent determination.

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Specific Halogenated Hydrocarbons and BTEX (EPA 8021) in Soil Vapor

Sample Number	MDL	Blank	Method	SG-1	SG-2	SG-2	SG-3
Sample Depth (inches)			Blank	36	18	24	24
Date		8/13/94	8/13/94		8/13/94	8/13/94	8/13/94
	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv
1,1 Dichloroethene	0.01	nd ·	nd	nd	nd	nd ·	nd
1,2 Dichloroethene	0.01	nd	nd	nd	nd	'nd ···	; nd
Benzene	0.01	nd	nd	nd	nd	nd	' nd
Trichloroethene	0.01	nd	nd	nd	nd	nd	0.07
Toluene	0.01	nd	nd	nđ	nd	nd	nd
Cis Dichloropropene	0.01	nd	nd	nd	nd	nd:	nd
Trans Dichlorpropene	0.01	nd	nd	nd	nđ	nd	' nd
Tetrachloroethene	0.01	nd	nd	0.01	0.17	0.27	0.86
Chlorobenzene	0.01	nd	nd	nd	nd	nd	nd
Ethylbenzene	0.01	nd	nd	nd	nd	nd	nd
Total Xylenes	0.01	nd	nd	nd	nd	nd	nd.
1,1 Dichloroethane	0.01	nd	nd	nd	nd	nd	, nd
1,2 Dichloroethane	0.01	nd	nd	nd	nd	nd	· nd
Chloroform	0.01	nd	nd	nd	nd	nd	, nd
Carbon Tetrachloride	0.01	nd	nd	nd	nd	nd	nd
1,1,1 Trichloroethane	0.01	nd	nd	nd	0.18	0.18	0.46
1,1,2 Trichloroethane	0.01	nd	nd	nd	nd	nd	nd

[&]quot;nd" Indicates Not Detected at the listed MDL.

[&]quot;int" Indicates that Interference Peaks prevent determination.

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Specific Halogenated Hydrocarbons and BTEX (EPA 8021) in Soil Vapor

======	======	======	======	======	======	======	======
Sample-Number	MDL	SG-4	SG-5	SG-6	SG-7	SG-8	SG-9
Sample Depth (inches)		12	34	35	21	20	32
Date	4	8/13/94	8/13/94	8/13/94	8/13/94	8/13/94	8/13/94
	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv
1,1 Dichloroethene	0.01	nd	nd	nd	nd	nd	nd
1,2 Dichloroethene	0.01	nd	nd	nd	nd	nd	nd
Benzene	0.01	nd	nd	nd	nd	nd	nd [!]
Trichloroethene	0.01	nd	nd	0.02	nd	nd	nd,
Toluene	0.01	nd	nd	nd	nd	nd	nd
Cis Dichloropropene	0.01	nd	nd	nd	nd	nd	nd
Trans Dichlorpropene	0.01	nd	nd	nd	nd	nd	nd
Tetrachloroethene	0.01	0.01	nd	1.04	0.04	0.11	1.19
Chlorobenzene	0.01	nd	nd	nd	nd	nd	nd
Ethylbenzene	0.01	nd	nd	nd	nd	nd	nd
Total Xylenes	0.01	nd	nd	nd	nd	nd	nd
1,1 Dichloroethane	0.01	nd	nd	nd	nd	nd	nd
1,2 Dichloroethane	0.01	nd	nd	nd	nd	nd	nd
Chloroform	0.01	nd	nd	nd	nd	nd	nd
Carbon Tetrachloride	0.01	nd	nd	nd	nd	nd	nd ₍
1,1,1 Trichloroethane	0.01	nd	nd	0.64	nd	0.03	0.68
1,1,2 Trichloroethane	0.01	nd	nd	nd	nd	nd	nd

[&]quot;int" Indicates that Interference Peaks prevent determination.

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Specific Halogenated Hydrocarbons and BTEX (EPA 8021) in Soil Vapor

Sample-Number	MDL	SG-10	SG-11	SG-12	SG-13	SG-13 Dup	SG-14
Sample Depth (inches)		31	27	18	14	14	12
Date	ppmv	8/13/94	8/13/94 ppmv	8/13/94 ppmv		8/13/94 ppmv	8/13/94 ppmv
1,1 Dichloroethene	0.01	nd	nd	nd	nd	nd	nd
1,2 Dichloroethene	0.01	nd	nd	nd	nd	nd *	nd
Benzene	0.01	nd	nd	nd	nd	nd	nd
Trichloroethene	0.01	. nd	nd	nd	nd	nd	nd
Toluene	0.01	nd	nd	nd	nd	nd	nd
Cis Dichloropropene	0.01	nd	nd	nd	nd	nd	nd
Trans Dichlorpropene	0.01	nd	nd	nd	nd	nd	nd
Tetrachloroethene	0.01	0.07	0.01	0.04	nd	' nd '	nd
Chlorobenzene	0.01	nd	nd	nd	nd	nd	nd
Ethylbenzene	0.01	nd	nd	nd	nd	nd	nd
Total Xylenes	0.01	nd	nd	nd	nd	nd	nd
1,1 Dichloroethane	0.01	nd	nd	nd	nd	nd	nd
1,2 Dichloroethane	0.01	nd	nd	nd	nd	nd	nd
Chloroform	0.01	nd	nd	nd	nd	nd	nd
Carbon Tetrachloride	0.01	nd	nd	nd	nd	nd	nd
1,1,1 Trichloroethane	0.01	nd	nd	nd	nd	nd	nd
1,1,2 Trichloroethane	0.01	nd	nd	nd	nd	nd	no

[&]quot;int" Indicates that Interference Peaks prevent determination.

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Specific Halogenated Hydrocarbons and BTEX (EPA 8021) in Soil Vapor

========	=====	======	======	======	======	======	======
Sample-Number	MDL	SG-15	SG-16	SG-17	SG-18		•
Sample Depth (inches)		9	12	11	13		
Date		8/13/94	8/13/94	8/13/94	8/13/94		1.
	ppmv	ppmv	ppmv	ppmv	ppmv		
1,1 Dichloroethene	0.01	nd	nd	nd	nd		,
1,2 Dichloroethene	0.01	nd	nd	nd	nd		
Benzene	0.01	nd	nd	nd	nd		ï
Trichloroethene	0.01	nd	nd	nd	nd		•
Toluene	0.01	nd	nd	nd	nd		1
Cis Dichloropropene	0.01	nd	nd	nd	nd		
Trans Dichlorpropene	0.01	nd	nd	nd	nd		:
Tetrachloroethene	0.01	nd	0.01	nd	0.02		
Chlorobenzene	0.01	nd	nd	nd	nd		
Ethylbenzene	0.01	nd	nd	nd	nd		
Total Xylenes	0.01	nd	nd	nd	nd		Ĺ
1,1 Dichloroethane	0.01	nd	nd	nd	nd		
1,2 Dichloroethane	0.01	nd	nd	nd	nd		1
Chloroform	0.01	nd	nd	nd	nd		'-
Carbon Tetrachloride	0.01	nd	nd	nd	nd		1-
1,1,1 Trichloroethane	0.01	nd	nd	nd	nd		j
1,1,2 Trichloroethane	0.01	nd	nd	nd	nd		_

"nd" Indicates Not Detected at the listed MDL.

[&]quot;int" Indicates that Interference Peaks prevent determination.

Page 17

Specific Halogenated Hydrocarbons and BTEX (EPA 8021) in Soil Vapor

Sample-Number Sample Depth (inches)	MDL	Blank	Method Blank	SG-19 24	SG-20 36	SG-21 10	SG-22 12	
Date	ppmv	8/14/94 ppmv	8/14/94 ppmv	8/14/94 ppmv	8/14/94 ppmv	8/14/94 ppmv	8/14/94 ppmv	
1,1 Dichloroethene	0.01	nd	nd	nd	nd	nd	nd	
1,2 Dichloroethene	0.01	nd	nd	nd	nd	· nd ·	nd	
Benzene	0.01	nd	nd	nd	nd	nd	nd	
Trichloroethene	0.01	nd	nd	nd	nd	nd	nd	
Toluene	0.01	nd	nd	nd	nd	nd	nd	
Cis Dichloropropene	0.01	nd	nd	nd	nd	nd	nd	
Trans Dichlorpropene	0.01	nd	nd	nd	nd	nd	nd	
Tetrachloroethene	0.01	nd	nd	nd	nd	nd -	nd	
Chlorobenzene	0.01	nd	nd	nd	nd	nd '	nd	
Ethylbenzene	0.01	nd	nd	nd	nd	nd	nd	
Total Xylenes	0.01	nd	nd	nd	nd	nd	nd	
1,1 Dichloroethane	0.01	nd	nd	nd	nd	nd	nd	
1,2 Dichloroethane	0.01	nd	nd	nd	nd	nd	nd	
Chloroform	0.01	nd	nd	nd	nd	nd	nd	
Carbon Tetrachloride	0.01	nd	nd	nd	nd '	nd	nd	
1,1,1 Trichloroethane	0.01	nd	nd	nd	nd	nd	nd	
1,1,2 Trichloroethane	0.01	nd	nd	nd	nd	nd	nd	

[&]quot;nd" Indicates Not Detected at the listed MDL.

[&]quot;int" Indicates that Interference Peaks prevent determination.

Page 18

Specific Halogenated Hydrocarbons and BTEX (EPA 8021) in Soil Vapor

=======================================	=====	======	======	======	======	======	======
Sample-Number	MDL	SG-23	SG-24	SG-25	SG-26	SG-26 Dup	SG-27
Sample Depth (inches)		11	11	34	11	11	40
Date	ppmv	8/14/94 ppmv	8/14/94 ppmv	8/14/94 ppmv	8/14/94 ppmv	8/14/94 ppmv	8/14/94 ppmv
1,1 Dichloroethene	0.01	nd	nd	nd	nd	nd	nd
1,2 Dichloroethene	0.01	nd	nd	nd	nd	nd	nd
Benzene	0.01	nd	nd	nd	nd	nd	nd
Trichloroethene	0.01	nd	nd	nd	nd	nd	nd -
Toluene	0.01	nd	nd	nd	nd	nd	nd
Cis Dichloropropene	0.01	nd	nd	nd	nd	nd	nd
Trans Dichlorpropene	0.01	nd	nd	nd	nd	nd	nd-
Tetrachloroethene	0.01	0.11	nd	8.22	0.10	0.13	0.10
Chlorobenzene	0.01	nd	nd	nd	nd	nd	nd
Ethylbenzene	0.01	nd	nd	nd	nd	nd	nd
Total Xylenes	0.01	nd	nd	nd	nd	nd	nd
1,1 Dichloroethane	0.01	nd	nd	nd	nd	nd	nd
1,2 Dichloroethane	0.01	nd	nd	nd	nd	nd	nd
Chloroform	0.01	nd	nd	nd	nd	nd	nd
Carbon Tetrachloride	0.01	nd	nd	nd	nd	nd	nd.
1,1,1 Trichloroethane	0.01	nd	- nd	0.07	nd	nd	nd
1,1,2 Trichloroethane	0.01	nd	nd	nd	nd	nd	nd
1							}

[&]quot;nd" Indicates Not Detected at the listed MDL.

[&]quot;int" Indicates that Interference Peaks prevent determination.

Page 19

Specific Halogenated Hydrocarbons and BTEX (EPA 8021) in Soil Vapor

=======================================	=====	======	======	======		======	======
Sample-Number	MDL	SG-28	SSG-29	SG-30	SG-30 Dup	SG-31	SG-32
Sample Depth (inches)		43	36	30	30	28	39
Date		8/14/94	8/14/94	8/14/94	8/14/94	8/14/94	8/1/4/94
	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv
1,1 Dichloroethene	0.01	nd	nd	nd	nd	nd	' nd
1,2 Dichloroethene	0.01	nd	nd	nd	nd	nd	nd
Benzene	0.01	nd	nđ	nd	nd	nd	nd
Trichloroethene	0.01	0.16	nd	nd	nd	nd	nd
Toluene	0.01	nd	nd	nd	nd	nd	nd
Cis Dichloropropene	0.01	nd	nd	nd	nd	nd	nd
Trans Dichlorpropene	0.01	nd	nd	nd	nd	nd	nd
Tetrachloroethene	0.01	10.70	nd	0.07	0.09	0.39	0.12
Chlorobenzene	0.01	nd	nd	nd	nd	nd	nd
Ethylbenzene	0.01	nd	nd	nd	nd	nd	nd
Total Xylenes	0.01	nd	nd	nd	nd	nd	' nd
1,1 Dichloroethane	0.01	nd	nd	nd	nd	nd	nd
1,2 Dichloroethane	0.01	nd	nd	nd	nd	nd [*]	nd
Chloroform	0.01	nd	nd	nd	nd	nd	nd
Carbon Tetrachloride	0.01	nd	nd	nd	nd	nd	nd
1,1,1 Trichloroethane	0.01	0.19	nd	nd	nd	0.01	nd
1,1,2 Trichloroethane	0.01	nd	nd	nd	nd	nd	' nd

[&]quot;int" Indicates that Interference Peaks prevent determination.

Page 20

Specific Halogenated Hydrocarbons and BTEX (EPA 8021) in Soil Vapor

Sample-Number	MDL	SG-32 Dup
Sample Depth (inches)	MIDL	30-32 Dup
Date		8/14/94
•	ppmv	ppmv
1,1 Dichloroethene	0.01	nd
1,2 Dichloroethene	0.01	nd
Benzene	0.01	nd
Trichloroethene	0.01	nd
Toluene	0.01	nd
Cis Dichloropropene	0.01	nd
Trans Dichlorpropene	0.01	nd
Tetrachloroethene	0.01	0.10
Chlorobenzene	0.01	nd
Ethylbenzene	0.01	nd
Total Xylenes	0.01	nd
1,1 Dichloroethane	0.01	nd
1,2 Dichloroethane	0.01	nd
Chloroform	0.01	nd
Carbon Tetrachloride	0.01	nd
1,1,1 Trichloroethane	0.01	nd
1,1,2 Trichloroethane	0.01	nd

[&]quot;nd" Indicates Not Detected at the listed MDL.

[&]quot;int" Indicates that Interference Peaks prevent determination.



ENVIRONMENTAL

GEOCHEMISTRY, INC.

CHAIN-OF-CUSTODY RECORD

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THAMALOBAL ENVIRONMENTAL GEOCHEMISTRY, INC.

CHAIN-OF-CUSTODY RECORD

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TRANSGLOBAL ENVIRONMENTAL GEOCHEMISTRY, INC.

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TRANSGLOBAL ENVIRONMENTAL GEOSCIENCES NORTHWEST, INC.

7110 38th Drive SE Lacey, Washington 98503

Mobile Environmental Laboratories Environmental Sampling Services Telephone:

206-459-4670

Fax:

206-459-3432

October 17, 1994

Thomas Morin Kennedy Jenks Consultants 530 S. 336th Street Federal Way, WA 98003

Dear Sir:

Please find enclosed the data report for on-site Mobile Lab services October 15th and off site analytical services October 16th for the Benenson Project, Bellevue, Washington, Project, # 946059.00. There were 22 soil samples analyzed on site and 10 soils and 2 waters analyzed off site for select chlorinated solvents by EPA Method 8021.

The results of the analyses are summarized in the attached table. All soil sample values are reported on a dry weight basis. Applicable detection limits and QA/QC data are included. An invoice for this analytical work is also enclosed.

TEG Northwest appreciates the opportunity to have provided analytical services to Kennedy Jenks for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Michael A. Korosec

Michael a Korsee

(President)

QA/QC FOR ANALYTICAL METHODS

GENERAL

The TEG Northwest Laboratory quality assurance and quality control (QA/QC) procedures are conducted following the guidelines and objectives which meet or exceed certification/accreditation requirements of California DOHS, Washington DOE, and Oregon DEQ. The Quality Control Program is a consistent set of procedures which assures data quality through the use of appropriate blanks, replicate analyses, surrogate spikes, and matrix spikes, and with the use of reference standards that meet or exceed EPA standards.

When analyses are taking place on-site with the mobile lab, the need for Field Blanks or Travel/Trip Blanks is eliminated. If there is going to be a delay before sample preparation for analysis, the sample is stored at 4° C.

ANALYTICAL METHODS

TEG Northwest Mobile Labs use analytical methodologies which are in conformity with U. S. Environmental Protection Agency (EPA), Washington DOE, and Oregon DEQ methodologies. When necessary and appropriate due to the nature or composition of the sample, TEG may use variations of the methods which are consistent with recognized standards or variations used by the industry and government laboratories.

Volatile Aromatics and Chlorinated VOCs (BTEX, EPA 602/8020, 8021)

A blank and a calibration standard are run at the beginning of the day. The standard must be within 15% of the continuing calibration curve value. The standard is rerun at the end of the day if more than 10 samples have been run. All samples are surrogate spiked, and duplicates are run at a rate of 1 per 10 samples. At least 1 method blank is run per day.

TRANSGLOBAL ENVIRONMENTAL GEOSCIENCES NORTHWEST INC.

Page 1

BENENSON PROJECT Bellevue, Washington Kennedy Jenks, Inc. 946059.00-2

Specific Halogenated Hydrocarbons and BTEX (Mod. EPA 8010/8020) in Soil

Sample-Number	MDL	Method Blank	BB-15-70'	BB-15-65'	BB-15-55'	BB-15-45'	BB-15-90'						
Date		10/15/94	10/15/94	10/15/94	10/15/94	10/15/94	10/15/94						
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg						
1,1 Dichloroethene	0.01	nd	nd	nd	nd	nd	nd						
1,2 Dichloroethene	0.01	nd	nd	nd	nd	nd	nd						
Benzene	0.01	nd	nd	nd	nd	nd	nd						
Trichloroethene	0.01	nd	nd	nd	nd	nd	nd						
Toluene	0.01	nd	nd	nd	nd	nd	nd						
Cis Dichloropropene	0.01	nd	nd	nd	nd	nd	nd						
Trans Dichlorpropene	0.01	nd	nd	nd	nd	nd	nd						
Tetrachloroethene	0.01	nd	0.02	0.39	0.07	0.20	0.04						
Ethylbenzene	0.01	nd	nd	nd	nd	nd	nd						
Total Xylenes	0.01	nd	nd	nd	nd	nd	nd						
1,1 Dichloroethane	0.01	nd	nd	nd	nd	nd	nd						
1,2 Dichloroethane	0.01	nd	nd	nd	nd	nd	nd						
Chloroform	0.01	nd	nd	nd	nd	nd	nd						
Carbon Tetrachloride	0.01	nd	nd	nd	nd	nd	nd						
1,1,1 Trichloroethane	0.01	nd	nd	nd	. nd	nd	nd						
1,1,2 Trichloroethane	0.01	nd	nd	nd	nd	nd	nd						
Tetrachloroethane	0.01	nd	nd	nd	nd	nd	nd						
Spike Recovery (%)		96	94	111	101	100	94						
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"nd" Indicates Not Detec	"nd" Indicates Not Detected at the listed detection limit.												
"int" Indicates that interfe	erence peaks p	revent deteri	nination.										

Page 2

BENENSON PROJECT Bellevue, Washington Kennedy Jenks, Inc. 946059.00-2

===== ===== Sample-Number	MDL	===== BB-15-80'	BB-15-75'	BB-15-100'	BB-15-95'	BB-15-95' Dup	BB-15-85				
Date		10/15/94	10/15/94	10/15/94	10/15/94	10/15/94	10/15/94				
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg				
1,1 Dichloroethene	0.01	nd	nd	nd	nd	nd	nd				
1,2 Dichloroethene	0.01	nd	nd	nd	nd	nd	nd				
Benzene	0.01	nd	nd	nd	nd	nd	nd				
Trichloroethene	0.01	nd	nd	nd	nd	nd	nd				
Toluene	0.01	nd	nd	nd	nd	nd	nd				
Cis Dichloropropene	0.01	nd	nd	nd	nd	nd	nd				
Trans Dichlorpropene	0.01	nd	nd	nd	nd	nd	nd				
Tetrachloroethene	0.01	0.03	0.07	0.02	0.02	0.02	0.03				
Ethylbenzene	0.01	nd	nd	nd	nd	nd	nd				
Total Xylenes	0.01	nd	nd	nd	nd	nd	nd				
1,1 Dichloroethane	0.01	nd	nd	nd	nd	nd	nd				
1,2 Dichloroethane	0.01	nd	nd	nd	nd	nd	nd				
Chloroform	0.01	nd	nd	nd	nd	nd	nd				
Carbon Tetrachloride	0.01	nd	nd	nd	nd	nd	nd				
1,1,1 Trichloroethane	0.01	nd	nd	nd	nd	nd	nd				
1,1,2 Trichloroethane	0.01	nd	nd	nd	nd	nd	nd				
Tetrachloroethane	0.01	nd	nd	nd	nd	nd	nd				
Spike Recovery (%)		101	94	90	92	97	104				
		36555					=====				
"nd" Indicates Not Detected at the listed detection limit.											
"int" Indicates that interfe	rence peaks p	revent detern	nination.								

Page 3

BENENSON PROJECT Bellevue, Washington Kennedy Jenks, Inc. 946059.00-2

Sample-Number	===== MDL	BB-16-45'	===== BB-15-35'	===== BB-17-20'	BB-16-40'	===== BB-18-20'	BB-17-15'				
Date	mg/kg	10/15/94 mg/kg	10/15/94 mg/kg	10/15/94 mg/kg	10/15/94 mg/kg	10/15/94 mg/kg	10/15/94 mg/kg				
			1		nd	nd	nd				
1,1 Dichloroethene	0.01	nd	nd .	nd			nd				
1,2 Dichloroethene	0.01	nd	nd	nd	nd	nd nd	nd				
Benzene	0.01	nd	nd	nd	nd 		nd nd				
Trichloroethene	0.01	nd	nd	nd	nd .	nd					
Toluene	0.01	nd	nd	nd	nd	nd 	nd				
Cis Dichloropropene	0.01	nd	nd	nd	nd	nd	nd				
Trans Dichlorpropene	0.01	nd	nd	nd	nd	nd	nd				
Tetrachloroethene	0.01	nd	0.99	nd	nd	0.10	0.08				
Ethylbenzene	0.01	nd	nd	nd	nd	nd	nd				
Total Xylenes	0.01	nd	nd	nd	nd	nd	nd				
1,1 Dichloroethane	0.01	nd	nd	nd	nd	nd	nd				
1,2 Dichloroethane	0.01	nd	nd	nd	nd	nd	nd				
Chloroform	0.01	nd	nd	nd	nd	nd	nd				
Carbon Tetrachloride	0.01	nd	nd	nd	nd	nd	nd				
1,1,1 Trichloroethane	0.01	nd	nd	nd	nd	nd	nd				
1,1,2 Trichloroethane	0.01	nd	nd	nd	nd	nd	nd				
Tetrachloroethane	0.01	nd	nd	nd	nd	nd	nd				
Spike Recovery (%)		96	110	95	83	83	116				
===========	=====	=====		=====	=====	=====	=====				
"nd" Indicates Not Detec	"nd" Indicates Not Detected at the listed detection limit.										
"int" Indicates that interfe	erence peaks	prevent deten	mination.								
			======	=====	=====	=====	=====				

Page 4

BENENSON PROJECT Bellevue, Washington Kennedy Jenks, Inc. 946059.00-2

====== ======	=====	=====	=====	,======	=====	=====	=====
Sample-Number	MDL	BB-16-35'	BB-18-35'	BB-18-30'	BB-18-25'	BB-18-10'	BB-18-15'
Date	***************************************	10/15/94	10/15/94	10/15/94	10/15/94	10/15/94	10/15/94
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
1,1 Dichloroethene	0.01	nd	nd	nd	nd	nd	nd
1,2 Dichloroethene	0.01	nd	nd	nd	nd	nd	nd
Benzene	0.01	nd	nd	nd	nd	nd	nd
Trichloroethene	0.01	nd	nd	nd	nd	nd	nd
Toluene	0.01	nd	nd	nd	nd	nd	nd
Cis Dichloropropene	0.01	nd	nd	nd	nd	nd	nd
Trans Dichlorpropene	0.01	nd	nd	nd	nd	nd	nd
Tetrachloroethene	0.01	nd	nd	0.02	0.01	0.02	nd
Ethylbenzene	0.01	nd	nd	nd	nd	nd	nd
Total Xylenes	0.01	nd	nd	nd	nd	nd	.nd
1,1 Dichloroethane	0.01	nd	nd	nd	nd	nd	nd
1,2 Dichloroethane	0.01	nd	nd	nd	nd	nd	nd
Chloroform	0.01	nd	nd	nd	nd	nd	nd
Carbon Tetrachloride	0.01	nd	nd	nd	nd	nd	nd
1,1,1 Trichloroethane	0.01	nd	nd	nd	nd	nd	nd
1,1,2 Trichloroethane	0.01	nd	nd	nd	nd	nd	nd
Tetrachloroethane	0.01	nd	nd	nd	nd	nd	nd
Spike Recovery (%)		105	98	84	83	114	112
====== ##	=====		=====	=====	=====	=====	=====
"nd" Indicates Not Detect	ed at the liste	d detection lin	nit.				
"int" Indicates that interfe	rence peaks p	revent detern	nination.			,	
	=====	======	=====	=====	======	=====	======

Page 5

BENENSON PROJECT Bellevue, Washington Kennedy Jenks, Inc. 946059.00-2

===== ================================	MDL	BB-18-5'	BB-17-5'	BB-16-15'	BB-16-5'	BB-16-25'	BB-16-25' Dup					
Date	mg/kg	10/16/94 mg/kg	10/16/94 mg/kg	10/16/94 mg/kg	10/16/94 mg/kg	10/16/94 mg/kg	10/16/94 mg/kg					
1,1 Dichloroethene	0.01	nd	nd	nd	nd	nd	nd					
1,2 Dichloroethene	0.01	nd	nd	nd	nd	nd	nd					
Benzene	0.01	nd	nd	nd	nd	nd	nd					
Trichloroethene	0.01	nd	nd	nd	nd	nd	nd					
Toluene	0.01	nd	nd	nd	nd	nd	nd					
Cis Dichloropropene	0.01	nd	nd	nd	nd	nd	nd					
Trans Dichlorpropene	0.01	nd	nd	nd	nd	nd	nd					
Tetrachloroethene	0.01	0.07	0.01	nd	nd	0.01	0.01					
Ethylbenzene	0.01	nd	nd	nd	nd	nd	nd					
Total Xylenes	0.01	nd	nd	nd	nd	nd	nd					
1,1 Dichloroethane	0.01	nd	nd	nd	nd	nd	nd					
1,2 Dichloroethane	0.01	nd	nd	nd	nd	nd	nd					
Chloroform	0.01	nd	nd	nd	nd	nd	nd					
Carbon Tetrachloride	0.01	nd	nd	nd	nd	nd	nd					
1,1,1 Trichloroethane	0.01	nd	nd	nd	nd	nd	nd					
1,1,2 Trichloroethane	0.01	nd	nd	nd	nd	nd	nd					
Tetrachloroethane	0.01	nd	nd	nd	nd	nd	nd					
Spike Recovery (%)		94	99	91	106	96	89					
	=====	=====	=====	=====	=====	=====	=====					
"nd" Indicates Not Deter	"nd" Indicates Not Detected at the listed detection limit.											
"int" Indicates that inter-	ference peaks p	prevent deten	mination.									
					======	=====	=====					

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BENENSON PROJECT Bellevue, Washington Kennedy Jenks, Inc. 946059.00-2

Sample-Number	MDL	BB-15-15'	BB-15-25'	Stockpile 5	Stockpile 6	Stockpile 6 Dup	BB-17-10'				
Date	mg/kg	10/16/94 mg/kg	10/16/94 mg/kg	10/16/94 mg/kg	10/16/94 mg/kg	10/16/94 mg/kg	10/16/94 mg/kg				
1,1 Dichloroethene	0.01	nd	nd	nd	nd	nd	nd				
1,2 Dichloroethene	0.01	nd	nd	nd	nd	nd	nd				
Benzene	0.01	nd	nd	nd	nd	nd	nd				
Trichloroethene	0.01	0.11	nd	nd	nd	nd	nd				
Toluene	0.01	nd	nd	nd	nd	nd	nd				
Cis Dichloropropene	0.01	nd	nd	nd	nd	nd	nd				
Trans Dichlorpropene	0.01	nd	nd	nd	nd	nd	nd				
Tetrachloroethene	0.01	4180	6.96	0.02	0.03	0.03	0.11				
Ethylbenzene	0.01	nd	nd	nd	nd	nd	nd				
Total Xylenes	0.01	nd	nd	nd	nd	nd	nd				
1,1 Dichloroethane	0.01	nd	nd	nd	nd	nd	nd				
1,2 Dichloroethane	0.01	nd	nd	nd	nd	nd	nd				
Chloroform	0.01	nd	nd	nd	nd	nd	nd				
Carbon Tetrachloride	0.01	nd	nd	nd	nd	nd	nd				
1,1,1 Trichloroethane	0.01	0.04	nd	nd	nd	nd	nd				
1,1,2 Trichloroethane	0.01	0.89	nd	nd	nd	nd	nd				
Tetrachloroethane	. 0.01	nd	nd	nd	nd	nd	nd				
Spike Recovery (%)		114	87	96	91	85	90				
====== ======	=====	=====	=====	=====	=====	======	=====				
"nd" Indicates Not Detected at the listed detection limit.											
"int" Indicates that interfe	erence peaks p	revent deterr	nination.								
							======				

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BENENSON PROJECT Bellevue, Washington Kennedy Jenks, Inc. 946059.00-2

========	=====	=====	=====
Sample-Number	MDL	Decon 10	Decon 11
			••••
Date		10/16/94	10/16/94
400	ug/l	ug/l	ug/l
1,1 Dichloroethene	1	nd	nd
1,2 Dichloroethene	1	nd	nd
Benzene	1	nd	nd
Trichloroethene	1	nd	nd
Toluene	1	nd	nd
Cis Dichloropropene	1	nd	nd
Trans Dichlorpropene	1	nd	nd
Tetrachloroethene	1	30	33
Ethylbenzene	1	nd	nd
Total Xylenes	1	nd	nd
1,1 Dichloroethane	1	nd	nd
1,2 Dichloroethane	1	nd	nd
Chloroform	1	nd	nd
Carbon Tetrachloride	1	nd	nd
1,1,1 Trichloroethane	1	nd	nd
1,1,2 Trichloroethane	1	nd	nd
Tetrachloroethane	1	nd	nd
Spike Recovery (%)		91	98
=======================================	=====	=====	=====
"nd" Indicates Not Detect	ted at the liste	d detection lis	mit.
"int" Indicates that interfe	erence peaks p	prevent deterr	nination.



CERTIFICATE OF ANALYSIS

CLIENT: KENNEDY/JENKS CONSULTANTS

530 SOUTH 336TH ST.

FEDERAL WAY, WA 98003

DATE: 2

2/10/95

CCIL JOB #:

502011

CCIL SAMPLE #: DATE RECEIVED:

2/3/95

WDOE ACCREDITATION #:

C142

CLIENT CONTACT: THOM MORIN

CLIENT PROJECT ID:

946059

CLIENT SAMPLE ID:

SED-1 2/3/95 1505

DATA RESULTS

				ACTION	ANALYSIS	ANALYSIS
ANALYTE	METHOD	RESULTS*	UNITS**	LEVEL***	DATE	BY
1,1-DICHLOROETHENE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
TRICHLOROFLUOROMETHANE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
METHYLENE CHLORIDE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
1,1-DICHLOROETHANE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
TRANS-1,2-DICHLOROETHENE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
CHLOROFORM	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP.
1,1,1-TRICHLOROETHANE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
CARBON TETRACHLORIDE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
1,2-DICHLOROETHANE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
TRICHLOROETHENE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
1,2-DICHLOROPROPANE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
BROMODICHLOROMETHANE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
2-CHLOROETHYL VINYL ETHER	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
TRANS-1,3-DICHLOROPROPENE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
CIS-1,3-DICHLOROPROPENE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
1,1,2-TRICHLOROETHANE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
TETRACHLOROETHYLENE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
DIBROMOCHLOROMETHANE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
BROMOFORM	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
CHLOROBENZENE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
1,1,2,2-TETRACHLOROETHANE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
1,2 DICHLOROBENZENE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
1,3-DICHLOROBENZENE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
1.4-DICHLOROBENZENE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP

^{* &}quot;ND" INDICATES ANALYTE NOT DETECTED. REPORTING LIMIT IS GIVEN IN PARENTHESES

*** ACTIONS LEVELS ARE PROVIDED ONLY WHEN PARAMETER DATA IS USED FOR A GENERALLY

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K/J Federal Way

K/J No/File ____ Route ____ Return To/By __

3229 Pine St. Everett. WA 98201 206 258-4548 FAX 206 259-6289 Seattle 206 292-9059

[&]quot; UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS



CERTIFICATE OF ANALYSIS

CLIENT: KENNEDY/JENKS CONSULTANTS

530 SOUTH 336TH ST.

FEDERAL WAY, WA 98003

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CCIL SAMPLE #:

1

DATE RECEIVED:

2/3/95

WDOE ACCREDITATION #:

C142

CLIENT CONTACT: THOM MORIN

CLIENT PROJECT ID:

946059

CLIENT SAMPLE ID:

SED-1 2/3/95 1505

DATA RESULTS

ACTION

ANALYSIS

ANALYSIS

ANALYTE

METHOD I

RESULTS* UNITS**

LEVEL***

DATE

BY

CONSISTENT APPLICATION. WHEN PROVIDED, THEY SHOULD BE USED AS GUIDELINES ONLY.

THE APPROPRIATE REGULATORY DOCUMENT SHOULD BE CONSULTED BEFORE MAKING ANY
DECISIONS BASED ON ANALYTICAL DATA

APPROVED BY:

CERTIFICATE OF ANALYSIS

CLIENT: KENNEDY/JENKS CONSULTANTS

530 SOUTH 336TH ST.

FEDERAL WAY, WA 98003

DATE: 2

2/10/95

CCIL JOB #:

502011

CCIL SAMPLE #:

2

DATE RECEIVED:

2/3/95

WDOE ACCREDITATION #:

C142

CLIENT CONTACT: THOM MORIN

CLIENT PROJECT ID:

946059

CLIENT SAMPLE ID:

SED-2 2/3/95 1510

DATA RESULTS **ACTION ANALYSIS ANALYSIS ANALYTE** METHOD **RESULTS*** UNITS** LEVEL*** DATE BY 1,1-DICHLOROETHENE EPA-8240 ND(<.1) MG/KG 2/10/95 KLP TRICHLOROFLUOROMETHANE EPA-8240 ND(<.1) MG/KG 2/10/95 **KLP** METHYLENE CHLORIDE EPA-8240 ND(<.1) MG/KG 2/10/95 **KLP** 1.1-DICHLOROETHANE EPA-8240 ND(<.1) MG/KG 2/10/95 **KLP** TRANS-1,2-DICHLOROETHENE **EPA-8240** ND(<.1)MG/KG 2/10/95 **KLP CHLOROFORM** EPA-8240 ND(<.1) MG/KG 2/10/95 KLP 1,1,1-TRICHLOROETHANE EPA-8240 ND(<.1) MG/KG 2/10/95 **KLP CARBON TETRACHLORIDE** EPA-8240 ND(<.1) MG/KG 2/10/95 KLP 1,2-DICHLOROETHANE EPA-8240 MG/KG KLP ND(<.1)2/10/95 TRICHLOROETHENE KLP EPA-8240 ND(<.1) MG/KG 2/10/95 1,2-DICHLOROPROPANE EPA-8240 ND(<.1) MG/KG 2/10/95 **KLP BROMODICHLOROMETHANE** EPA-8240 ND(<.1) MG/KG 2/10/95 **KLP** 2-CHLOROETHYL VINYL ETHER EPA-8240 ND(<.1) MG/KG 2/10/95 KLP TRANS-1,3-DICHLOROPROPENE EPA-8240 ND(<.1) MG/KG 2/10/95 KL,P CIS-1,3-DICHLOROPROPENE EPA-8240 ND(<.1) MG/KG 2/10/95 **KLP** 1,1,2-TRICHLOROETHANE EPA-8240 ND(<.1) MG/KG 2/10/95 **KLP TETRACHLOROETHYLENE** EPA-8240 ND(<.1) MG/KG 2/10/95 **KLP** DIBROMOCHLOROMETHANE ND(<.1) MG/KG **KLP** EPA-8240 2/10/95 **BROMOFORM** EPA-8240 ND(<.1) MG/KG 2/10/95 KLP CHLOROBENZENE EPA-8240 ND(<.1) MG/KG 2/10/95 KLP 1,1,2,2-TETRACHLOROETHANE EPA-8240 ND(<.1) MG/KG 2/10/95 KLP 1,2 DICHLOROBENZENE EPA-8240 ND(<.1)MG/KG 2/10/95 KLP 1,3-DICHLOROBENZENE EPA-8240 ND(<.1) MG/KG 2/10/95 KLP 1,4-DICHLOROBENZENE EPA-8240 ND(<.1) MG/KG 2/10/95 KLP

^{* &}quot;ND" INDICATES ANALYTE NOT DETECTED. REPORTING LIMIT IS GIVEN IN PARENTHESES

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CERTIFICATE OF ANALYSIS

CLIENT: KENNEDY/JENKS CONSULTANTS

FEDERAL WAY, WA 98003

2/10/95

530 SOUTH 336TH ST.

CCIL JOB #:

DATE:

502011

CCIL SAMPLE #:

2

DATE RECEIVED: WDOE ACCREDITATION #:

2/3/95 C142

CLIENT CONTACT: THOM MORIN

CLIENT PROJECT ID:

946059

CLIENT SAMPLE ID:

SED-2 2/3/95 1510

DATA RESULTS

ACTION

ANALYSIS ANALYSIS

ANALYTE

METHOD

RESULTS*

UNITS**

LEVEL***

DATE

BY

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CLIENT: KENNEDY/JENKS CONSULTANTS

530 SOUTH 336TH ST. FEDERAL WAY, WA 98003 CCIL JOB #:

DATE:

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CCIL SAMPLE #:

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WDOE ACCREDITATION #:

C142

CLIENT CONTACT: THOM MORIN

CLIENT PROJECT ID:

946059

CLIENT SAMPLE ID:

SED-3 2/3/95 1512

DATA RESULTS

				•		
				ACTION	ANALYSIS	ANALYSIS
ANALYTE	METHOD	RESULTS*	UNITS	LEVEL***	DATE	BY
						1415
1,1-DICHLOROETHENE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
TRICHLOROFLUOROMETHANE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
METHYLENE CHLORIDE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
1,1-DICHLOROETHANE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
TRANS-1,2-DICHLOROETHENE	EPA-8240	ND(<.1)	MG/KG		2/10/95	, KLP
CHLOROFORM	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
1,1,1-TRICHLOROETHANE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
CARBON TETRACHLORIDE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
1,2-DICHLOROETHANE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
TRICHLOROETHENE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
1,2-DICHLOROPROPANE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
BROMODICHLOROMETHANE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
2-CHLOROETHYL VINYL ETHER	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
TRANS-1,3-DICHLOROPROPENE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
CIS-1,3-DICHLOROPROPENE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
1.1.2-TRICHLOROETHANE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
TETRACHLOROETHYLENE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
DIBROMOCHLOROMETHANE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
BROMOFORM	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
CHLOROBENZENE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
1,1,2,2-TETRACHLOROETHANE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
1,2 DICHLOROBENZENE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
1.3-DICHLOROBENZENE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
1.4-DICHLOROBENZENE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP

^{• &}quot;ND" INDICATES ANALYTE NOT DETECTED. REPORTING LIMIT IS GIVEN IN PARENTHESES

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CLIENT: KENNEDY/JENKS CONSULTANTS

DATE:

2/10/95

530 SOUTH 336TH ST.

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FEDERAL WAY, WA 98003

CCIL SAMPLE #:

3

DATE RECEIVED:

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WDOE ACCREDITATION #:

C142

CLIENT CONTACT: THOM MORIN

CLIENT PROJECT ID:

946059

CLIENT SAMPLE ID:

SED-3 2/3/95 1512

DATA RESULTS

ACTION

ANALYSIS

ANALYSIS

ANALYTE

METHOD

RESULTS*

UNITS**

LEVEL***

DATE

BY

CONSISTENT APPLICATION. WHEN PROVIDED, THEY SHOULD BE USED AS GUIDELINES ONLY.

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APPROVED BY: _(1)



CERTIFICATE OF ANALYSIS

CLIENT: KENNEDY/JENKS CONSULTANTS

530 SOUTH 336TH ST.

FEDERAL WAY, WA 98003

DATE: 2/10/95

CCIL JOB #:

502011

CCIL SAMPLE #:

DATE RECEIVED:

2/3/95

WDOE ACCREDITATION #:

C142

CLIENT CONTACT: THOM MORIN

CLIENT PROJECT ID: CLIENT SAMPLE ID:

946059

SED-4 2/3/95 1523

DATA RESULTS

				ACTION	ANALYSIS	ANALYSIS
ANALYTE	METHOD	RESULTS*	UNITS**	LEVEL***	DATE	BY
ANALTIE	WEINOD	RESULIS	OMITS	LEVEL	DAIL	В.
1,1-DICHLOROETHENE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
TRICHLOROFLUOROMETHANE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
METHYLENE CHLORIDE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
1,1-DICHLOROETHANE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
TRANS-1,2-DICHLOROETHENE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
CHLOROFORM	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
1,1,1-TRICHLOROETHANE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
CARBON TETRACHLORIDE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
1,2-D!CHLOROETHANE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
TRICHLOROETHENE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
1,2-DICHLOROPROPANE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
BROMODICHLOROMETHANE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
2-CHLOROETHYL VINYL ETHER	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
TRANS-1,3-DICHLOROPROPENE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
CIS-1,3-DICHLOROPROPENE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
1,1,2-TRICHLOROETHANE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
TETRACHLOROETHYLENE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
DIBROMOCHLOROMETHANE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
BROMOFORM	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
CHLOROBENZENE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
1,1,2,2-TETRACHLOROETHANE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
1,2 DICHLOROBENZENE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
1,3-DICHLOROBENZENE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
1,4-DICHLOROBENZENE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP

^{• &}quot;ND" INDICATES ANALYTE NOT DETECTED. REPORTING LIMIT IS GIVEN IN PARENTHESES

[&]quot; UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

^{***} ACTIONS LEVELS ARE PROVIDED ONLY WHEN PARAMETER DATA IS USED FOR A GENERALLY



CERTIFICATE OF ANALYSIS

CLIENT: KENNEDY/JENKS CONSULTANTS

530 SOUTH 336TH ST.

FEDERAL WAY, WA 98003

DATE:

2/10/95

CCIL JOB #:

502011

CCIL SAMPLE #: DATE RECEIVED:

2/3/95

WDOE ACCREDITATION #:

C142

CLIENT CONTACT: THOM MORIN

CLIENT PROJECT ID:

946059

CLIENT SAMPLE ID:

SED-4 2/3/95 1523

DATA RESULTS

ACTION

ANALYSIS A

ANALYSIS

ANALYTE

METHOD

RESULTS*

UNITS**

LEVEL***

DATE

BY

CONSISTENT APPLICATION. WHEN PROVIDED, THEY SHOULD BE USED AS GUIDELINES ONLY.

THE APPROPRIATE REGULATORY DOCUMENT SHOULD BE CONSULTED BEFORE MAKING ANY
DECISIONS BASED ON ANALYTICAL DATA

APPROVED BY:

CERTIFICATE OF ANALYSIS

CLIENT: KENNEDY/JENKS CONSULTANTS

530 SOUTH 336TH ST. FEDERAL WAY, WA 98003 DATE: 2/10/95

CCIL JOB #: 502011 CCIL SAMPLE #: 5

DATE RECEIVED:

2/3/95

WDOE ACCREDITATION #: -

C142

CLIENT CONTACT: THOM MORIN

CLIENT PROJECT ID:

946059

CLIENT SAMPLE ID:

SED-5 2/3/95 1528

DATA RESULTS

				ACTION	ANALYSIS	ANALYSIS
ANALYTE	METHOD	RESULTS*	UNITS**	LEVEL***	DATE	BY
1,1-DICHLOROETHENE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
TRICHLOROFLUOROMETHANE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
METHYLENE CHLORIDE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
1,1-DICHLOROETHANE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
TRANS-1,2-DICHLOROETHENE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
CHLOROFORM	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
1,1,1-TRICHLOROETHANE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
CARBON TETRACHLORIDE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
1,2-DICHLOROETHANE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
TRICHLOROETHENE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
1,2-DICHLOROPROPANE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
BROMODICHLOROMETHANE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
2-CHLOROETHYL VINYL ETHER	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
TRANS-1,3-DICHLOROPROPENE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
CIS-1,3-DICHLOROPROPENE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
1,1,2-TRICHLOROETHANE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
TETRACHLOROETHYLENE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
DIBROMOCHLOROMETHANE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
BROMOFORM	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
CHLOROBENZENE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
1,1,2,2-TETRACHLOROETHANE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
1,2 DICHLOROBENZENE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
1,3-DICHLOROBENZENE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
1,4-DICHLOROBENZENE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP

^{* &}quot;NO" INDICATES ANALYTE NOT DETECTED. REPORTING LIMIT IS GIVEN IN PARENTHESES

[&]quot; UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

^{***} ACTIONS LEVELS ARE PROVIDED ONLY WHEN PARAMETER DATA IS USED FOR A GENERALLY



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530 SOUTH 336TH ST.

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DATE:

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502011

CCIL SAMPLE #: DATE RECEIVED:

5 2/2/06

WDOE ACCREDITATION #:

2/3/95 C142

CLIENT CONTACT: THOM MORIN

CLIENT PROJECT ID:

946059

CLIENT SAMPLE ID:

SED-5 2/3/95 1528

DATA RESULTS

ACTION

ANALYSIS

ANALYSIS

ANALYTE

METHOD

RESULTS*

UNITS**

LEVEL***

DATE

BY

CONSISTENT APPLICATION. WHEN PROVIDED, THEY SHOULD BE USED AS GUIDELINES ONLY. THE APPROPRIATE REGULATORY DOCUMENT SHOULD BE CONSULTED BEFORE MAKING ANY DECISIONS BASED ON ANALYTICAL DATA

APPROVED BY:



CERTIFICATE OF ANALYSIS

CLIENT: KENNEDY/JENKS CONSULTANTS

530 SOUTH 336TH ST.

FEDERAL WAY, WA 98003

CCIL JOB #:

DATE:

2/10/95

502011

CCIL SAMPLE #:

DATE RECEIVED: WDOE ACCREDITATION #:

2/3/95 C142

CLIENT CONTACT: THOM MORIN

946059

CLIENT PROJECT ID: CLIENT SAMPLE ID:

SED-6 2/3/95 1530

DATA RESULTS

ANALYTE	METHOD	RESULTS*	units**	ACTION LEVEL***	ANALYSIS DATE	ANALYSIS BY
1,1-DICHLOROETHENE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
TRICHLOROFLUOROMETHANE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
METHYLENE CHLORIDE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
1,1-DICHLOROETHANE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
TRANS-1,2-DICHLOROETHENE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
CHLOROFORM	EPA-8240	ND(<.1)	MG/KG		2/10/95	KĻP
1,1,1-TRICHLOROETHANE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
CARBON TETRACHLORIDE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
1,2-DICHLOROETHANE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
TRICHLOROETHENE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
1,2-DICHLOROPROPANE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP.
BROMODICHLOROMETHANE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
2-CHLOROETHYL VINYL ETHER	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
TRANS-1,3-DICHLOROPROPENE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
CIS-1,3-DICHLOROPROPENE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
1,1,2-TRICHLOROETHANE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
TETRACHLOROETHYLENE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
DIBROMOCHLOROMETHANE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
BROMOFORM	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
CHLOROBENZENE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
1,1,2,2-TETRACHLOROETHANE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
1,2 DICHLOROBENZENE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
1,3-DICHLOROBENZENE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP
1,4-DICHLOROBENZENE	EPA-8240	ND(<.1)	MG/KG		2/10/95	KLP

^{* &}quot;ND" INDICATES ANALYTE NOT DETECTED. REPORTING LIMIT IS GIVEN IN PARENTHESES

^{**} UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

^{***} ACTIONS LEVELS ARE PROVIDED ONLY WHEN PARAMETER DATA IS USED FOR A GENERALLY CONSISTENT APPLICATION. WHEN PROVIDED, THEY SHOULD BE USED AS GUIDELINES ONLY.



CERTIFICATE OF ANALYSIS

CLIENT: KENNEDY/JENKS CONSULTANTS

530 SOUTH 336TH ST.

FEDERAL WAY, WA 98003

DATE:

2/10/95

CCIL JOB #:

502011

CCIL SAMPLE #:

6

DATE RECEIVED:

2/3/95

WDOE ACCREDITATION #:

C142

CLIENT CONTACT: THOM MORIN

CLIENT PROJECT ID:

946059

CLIENT SAMPLE ID:

SED-6 2/3/95 1530

DATA RESULTS

ACTION

ANALYSIS ANALYSIS

ANALYTE

METHOD RESULTS*

LEVEL***

DATE

BY

THE APPROPRIATE REGULATORY DOCUMENT SHOULD BE CONSULTED BEFORE MAKING ANY DECISIONS BASED ON ANALYTICAL DATA

SAMPLE CHAIN-OF-CUSTODY ANALYSIS REQUEST

POSSIBLE HAZARD	S:								-							415-243-2580 FAX 415-243-9390
Date	J15	_ Rep	ort To_	丁. 7	MOR	1114	_				AN	ALYS	ES RE	UEST	ED .	Send unused sample to:
Source of Sampl	es FORM NOW!	Com	pany	£ .	= /5			····								
Sampler Name	MARINTO BICHE	Add	ress	n 1762	9 6	7.7	101	'n		20108			11			
Company <u>//</u>	プ [*]	<u></u>	17/1	127	M WAY, WA GRUYS		45	25						Lab Destination:		
Phone									_	13				1	'	,
Project No	91/60/910	Pho	ne	711.	03	95			_							Carrier/Way Bill:
		COLLE	CT10N			Compo-	Note	Turn- around	Note 6							COMMENTS/CONDITIONS: (Container type, container number, etc.)
LAB ID No.	Client ID No.	Date	Time	Туре			4	time	Disposal	4				L		(container type, container number, etc.)
	36 7 1	1/3	1010	Son				-1744								1 800 7/12
	3475 2		1410													
	47.3		13/2													
	477 4		177				,						1			:
	417 5		072													
	Tim In	37	1.5.74	17				Ja								

1) Write only one sample number in each space.

2) Specify type of sample(s): Water(W), Solid (S), or indicate type.

3) Mark each sample which should be composited in Laboratory as follows: Place an "A" in box for each sample that should be composited into one sample; use sequential letter for additional groups.

- 4) Preservation of sample.
- 5) Write each analyses requested across top. Place an "X" in appropriate column to indicate type of analysis needed for each sample.

PACIFIC ENVIRONMENTAL LABORATOR

674 HARRISON STREET SAN FRANCISCO. CA 94107

6) Write address where unused sample should be sent or "X" Lab Disposal box if Lab should bill client for sample disposal.

SAMPLE RELINQUISHED BY:

SAMPLE RECEIVED BY:

Print Name	Signature	Company	Date	Time	Print Name	Signature	Сотрапу	Date	Time
	Twan Man	11/1	1/3	12/10	Lik Bogan	fit to be	600	, , , ,	34 :
				_	, , , , , , , , , , , , , , , , , , ,				

Logged in at PEL by:_____

Appendix E

Detailed Feasibility Study Cost Estimates

APPENDIX E

DETAILED COST ESTIMATES

Cost estimates are expected to meet an accuracy of +50 percent to -30 percent (EPA 1988a). Costs are calculated using the present worth methodology with a discount rate equal to 5 percent. This value represents an amount of money which, if invested in a base year, would provide adequate funds for the life of the remedial project. The cost estimates are for comparing alternatives and not for budgetary purposes.

Each cost estimate contains a description of direct and indirect capital costs, as well as annual operations and maintenance (O&M) costs, if appropriate. Only typical engineering and construction costs associated with normal remediation activities are presented. Costs associated with unanticipated regulatory agency requirements such as additional planning, testing, and monitoring during remedial action implementation are not included.

Direct capital costs include payments for site development, facilities, equipment, labor, materials, and other costs needed to implement the remedial alternatives. Indirect costs include expenditures for engineering and construction services, overhead, insurance, and contingencies.

Annual O&M costs are necessary for continued operations after the construction of a remedial alternative is completed. O&M costs can include expenses associated with operating labor, maintenance activities, utilities, and other services.

State taxes were calculated as outlined in Revenue Policy Memorandum No. 89-1, Hazardous Waste Cleanup.

The cost estimates generally follow procedures described in the Remedial Action Costing Procedures Manual (EPA 1987b). Capital costs are itemized, and indirect

capital costs are shown as a percentage of the capital costs. O&M costs and the corresponding present worth factors are also provided. These factors are described below:

- i = Discount rate (typically 5 percent)
- n = Period of performance in years
- P/A = Present worth of an annuity.

TABLE E-1
ALTERNATIVE 1: EXCAVATION AND OFFSITE DISPOSAL

				MATERIAL	LABOR 8	LEQUIPMENT	LUMP	
TASK	QUANTITY	UNIT	UNIT	EXTENSION	UNIT	EXTENSION	SUM	TOTALS
DESCRIPTION	GOANTI		COST		COST		PRICE	
CAPITAL COSTS							1	
- Auto-on-of-co-b-th	120	SY			20.00	\$2,400	i	\$2,400
Demo and dispose of asphalt	120	LS					\$5,000	\$5,000
Demo and replace catch basin	470	CY			10.00	\$4,700		\$4,700
Excavation (<15 feet below grade)	4/0	LS				* .,.	\$15,000	\$15,000
Shoring	470	CY	8.00	\$3,760			1	\$3,760
Import bank run gravel	470	CY	0.00	ψο,,, σο	3.50	\$1.645	l l	\$1,645
Backfill and compact		SY	6.00	\$720	3.50	\$420	1	\$1,140
Replace asphalt	120	51	6.00	\$120	0.50	V 1.20		. ,
Capital Costs Subtotal A								\$34,00
•	20 % of capital costs subtotal A			ts subtotal A]	\$6,80
Contractor overhead and profit	3			ts subtotal A			J	\$1,02
Bond and insurance	3						1	\$1,02
Mob/demob	20							\$6,80
Contingency				ts Subtotal A				\$2.92
Washington sales tax	8.6	% OI C	apital cos	is Subiolal A				· -,-
Capital Costs Subtotal B							ŀ	\$53,00
OTHER RELATED CAPITAL COST	S							
Facinessing condens	1	LS					\$20,000	\$20,00
Engineering services Construction management	i	LS					\$7,000	\$7,00
	i	LS					\$10,000	\$10,00
Ecology IRAP review	2	WK			4,000.00	\$8,000]	\$8,00
Field sampling (2 field techs)	705	TON			55.00	\$38,775		\$38,77
Disposal of soil	141	TON			55.00	\$7,755	Ì	\$7,75
Soil disposal contingency (20%)	5	DAY			1,500.00	\$7,500		\$7,50
Onsite laboratory	5	ואט			.,			
OTAL								\$152,00

TABLE E-2

ALTERNATIVE 2: ONSITE THERMAL TREATMENT

		UNIT		ATERIAL	LABOR & EC		LUMP	
TASK Q	UANTITY		COST	EXTENSION	UNIT E	XTENSION	SUM PRICE	TOTALS
CAPITAL COSTS		•						
Demo and dispose of asphalt	120	SY			20.00	\$2,400		\$2,400
Demo and replace catch basin	1	LS					\$5,000	\$5,000
Excavation (<15 feet below grade)	470	CY		•	10.00	\$4,700		\$4,700
Shoring	1	LS					\$15,000	\$15,000
Dust control	2	WK	200.00	\$400	900.00	\$1,800		\$2,20
Prepare treatment area	1	LS					\$5,000	\$5,000
Haul to/from treatment area	470	CY			4.00	\$1,880		\$1,88
Backfill and compact	470	CY			3.50	\$1,645		\$1,64
Replace asphalt	120	SY	6.00	\$720	3.50	\$420		\$1,14
Capital Costs Subtotal A							`	\$39,00
Contractor overhead and profit	20	20 % of capital costs subtotal A						\$7,80
Bond and insurance	3	% of capital costs subtotal A					i	\$1,17
Mob/demob	3	% of capital costs subtotal A					i	\$1,17
Contingency	20	% of capital costs subtotal A						\$7,80
Washington sales tax	8.6	% of ca	pital costs	Subtotal A				\$3,35
Capital Costs Subtotal B								\$60,00
OTHER RELATED CAPITAL COSTS							i i	
Engineering services	1	LS		•			\$20,000	\$20,00
Construction management	1	LS					\$7,000	\$7,00
Ecology IRAP review	1	LS					\$10,000	\$10,00
Thermal treatment mobilization/permitting	1	LS					\$25,000	\$25,00
Thermal treatment	705	TON			50.00	\$35,250		\$35,25
Thermal treatment contingency (20%)	141	TON		•	50.00	\$7,050		\$7,05
Field sampling (2 field techs)	2	WK			4,000.00	\$8,000	l	\$8,00
Onsite laboratory	5	DAY			1,500.00	\$7,500	ļ	\$7,50
•				•				
TAL								\$180,00

TABLE E-3
ALTERNATIVE 3: IN SITU VAPOR EXTRACTION

			MATERIAL		LABOR & E	LUMP	li	1	
TASK	QUANTITY	UNIT	UNIT EXTENSION		UNIT EXTENSION		SUM	TOTAL	LS
DESCRIPTION			COST		COST		PRICE	- +	
CAPITAL COSTS						-		ì	
Vapor extraction and intake well	1	LS					\$2,000	\$	2,000
Extraction fan w/motor	i	EA	3,500.00	\$3,500	1,500.00	\$1,500		\$	5,000
Electrical/instrumentation	1	LS	0,000.00	40,000	.,		\$5,000	\$	5,000
	1	LS					\$2,000	\$	2,000
Mechanical (manifold, valves, etc)	1	LS		•			\$500	1	\$500
Air/water separator Activated carbon system	i	LS					\$10,000	S1	0,000
Miscellaneous (10 percent of above)	1	LS					\$2,450	\$	2,450
Capital Costs Subtotal A								\$2	7,000
Contractor overhead and profit	20	% of car	pital costs su	ibtotal A				s	5,400
Bond and insurance	3		pital costs su						\$810
Mob/demob	3		pital costs su					1 1	\$810
Contingency	20		pital costs su					\$	5,400
Washington sales tax	8.6		pital costs Si					\$	32,322
Capital Costs Subtotal B								\$4	12,000
OTHER RELATED CAPITAL COSTS	•.								
·	1	LS					\$20,000	\$2	20,000
Engineering services	1	LS					\$7,000	8	7,00
Construction management	;	LS					\$10,000		10,00
Ecology IRAP review	1	LS					\$1,000	S	1,000
Vapor extraction permitting	120	LF			35.00	\$4,200	4 - 7	1 5	64,20
Confirmational sampling (3 borings)	120	DAY			520.00	\$520		1 1	\$520
Sampling labor Lab analyses (EPA Method 8240 - PCE		EA			125.00	\$750		1	\$75
TOTAL CAPITAL COSTS						graphing :		Ş	B5,00
OPERATIONS AND MAINTENANCE CO	STS								
Activated carbon costs	1	LS					\$10,000		
Power costs	1	LS					\$5,000	1	
Biweekly maintenance	52	WK			312.00	\$16,224		1 !	
Semi-annual air sampling/reporting	1	LS					\$2,000	1 - 1	
Fluids disposal	300	GAL			4.90	\$1,469		1	
O & M Contingency	10		tal O&M cos	ts			\$3,469	1	
TOTAL ANNUAL O & M COSTS						•		\$	38,00
IOIAL ANNUAL O & M COOIS								\$1:	

Appendix F

Supplemental Subsurface Investigation
Dated 17 November 1995
By Kennedy/Jenks Consultants

Kennedy/Jenks Consultants

Engineers and Scientists

17 November 1995

Capitol Plaza 9320 SW Barbur Boulevard, Suite 155 Portland, Oregon 97219 503-452-167 FAX 503-452-1670

Benenson Bellevue II, L.P. c/o The Benenson Capital Company 708 Third Avenue New York, New York 10017

Attention:

Mr. James Stifel

Subject:

Supplemental Subsurface Investigation

The Shops at First Street Project 108th Avenue NE and Main Street

Bellevue, Washington

K/J 946059.00

Dear Mr. Stifel:

Kennedy/Jenks Consultants is pleased to provide this letter presenting the results of our recently completed Supplemental Subsurface Investigation at The Shops at First Street (subject property) in Bellevue, Washington. This work was performed in accordance with Revised Amendment No. 5 to Letter Agreement Dated 3 August 1994, dated 1 November 1995.

This work was requested by Benenson Bellevue II, L.P. to address the environmental concerns of Transamerica Life Insurance and Annuity Company and their environmental consultant, Law/Crandall.

INVESTIGATIVE APPROACH

The technical approach for this investigation was consistent with that described in the letter from Mr. John Norris of Kennedy/Jenks Consultants to Mr. Mark Miller of Law/Crandall dated 31 October 1995.

Kennedy/Jenks Consultants performed the following work during this investigation.

- Drilled one soil boring approximately 35 feet west of the onsite storm sewer manhole to a depth of 110 feet below ground surface (bgs) using air rotary drilling techniques.
- Installed a temporary 2-inch-diameter schedule 40 PVC monitoring well to a total depth of 109 feet bgs. The static groundwater level of the uppermost saturated zone was measured at 103.5 feet bgs at the time the temporary well was installed. This temporary well was installed with a screened interval from 99 to 109 feet bgs.
- Developed the temporary monitoring well by surging and bailing.

Benenson Bellevue II, L.P. c/o The Benenson Capital Company 17 November 1995 Page 2

- Collected one groundwater sample (TMW-1) and one field transfer blank (TMW-21), and submitted these samples for rapid-turnaround volatile halocarbon analyses using EPA Method 8240.
- Collected one sample of the drilling spoils for volatile halocarbon analysis using EPA Method 8240.
- Formally abandoned the temporary monitoring well upon receipt of the analytical results and consultation with Mr. Leonard Sorrin (Bogle and Gates) and Mr. Mark Miller (Law/Crandall).

INVESTIGATIVE RESULTS

Attachment A to this letter contains a log of the soil conditions encountered during drilling, and a temporary monitoring well construction diagram. Attachment B is a copy of the groundwater purge and sample form documenting monitoring performed during development and sampling of the temporary well.

Neither perchloroethylene nor any of the other volatile halocarbons were detected in the groundwater sample collected from the temporary well drilled west of the onsite storm sewer manhole. Attachment C contains copies of the analytical reports for both the groundwater sample and the field blank analyzed during this investigation, as well as a copy of the completed chain-of-custody form.

If you have any questions or comments, please do not hesitate to contact us at (206) 874-0555

Very truly yours:

KENNEDY/JENKS CONSULTANTS

John E. Norris Project Manager

JEN:nd 11jen1L.doc

Attachments

cc: Mr. Leonard Sorrin, Bogle & Gates, Seattle, Washington

Mr. Chris MacDonald, Pacific Union Realty Finance, San Francisco, California

Mr. Francisco Aparicio, Kelley Drye & Warren, Los Angeles, California

Mr. Mark M. Miller, Law/Crandall, Inc., Sacramento, California

Appendix G

Supplemental Subsurface Investigation dated 11 October 1999 by Kennedy/Jenks Consultants

SUPPLEMENT TO REMEDIAL INVESTIGATION / FEASIBILITY STUDY REPORT

Phase II Remedial Action Progress The Shops at First Street Project Site Bellevue, Washington

This supplement presents a description of the remedial system constructed for The Shops at First Street Project Site, located at 110 – 108th Avenue NE Bellevue, Washington. The Phase II remedial action was performed in response to the discovery of perchloroethylene (PCE) in soil beneath a storm sewer system manhole at the site.

The remedial system involves the operation of a soil vapor extraction (SVE) system (see Figure A). The SVE system at the site utilizes a Roots positive displacement rotary blower (Universal RAI Model 22 U-RAI), which is powered by a one-horsepower Baldor motor. The blower operates at a vacuum of approximately 60 inches of water, and delivers a flow of approximately twelve cubic feet per minute at a vapor temperature of 74 degrees Fahrenheit.

Soil vapors are extracted from a single SVE well, routed through a 55-gallon moisture knockout tank and then through two 2,000-pound carbon vessels. After passing through the blower, system effluent is discharged to the atmosphere through a stack with a height of 15 feet. Vacuum and temperature gauges, and vapor concentration and flow sampling ports are located at the wellhead, between carbon vessels, and after the carbon vessels in the system piping.

The system was first tested in May 1996 and was started soon thereafter. The system operated under a Puget Sound Air Pollution Control Agency permit (Notice of Construction No. 6670) that required treatment of soil vapors below a 15 ppmv discharge limit. All carbon in both 2,000-pound carbon vessels was replaced on 20 October 1997.

The initial blower developed a cracked case resulting in the system being down. The blower was replaced and the system was restarted on 27 February 1998. On 10 April 1998, the SVE system was shutdown for system pulsing. The system was restarted on 5 May 1998 and ran continuously until October 1998 when all carbon in both 2,000-pound carbon vessels was replaced for a second time (21 October 1998). The system ran constantly until 27 January 1999, when one of the two bearings on the motor pulley system failed. The damaged bearing was replaced on 9 February 1999 and the system was again restarted. The system ran continuously until 8 July 1999 when it was turned off for pulsing.

SYSTEM PERFORMANCE

Equilibrium soil vapor concentrations in the extraction well headspace were measured by sampling at approximately 200 ppmv (L/1E6 L) on two occasions during the month of June 1998. The average measured flowrate was 12 ft³/min and the average air temperature was 68°F. The molecular weight of PCE is 164 g/mole. This concentration would result in a PCE removal rate of:

200 L PCE X 1 mole PCE X 164 g PCE X 1 lb PCE X 28.3 Lair X 12 ft³ air X 1440 min = 1.6 lb PCE / day

1E6 Lair X 22.4 L PCE X 1 mole PCE X 454 g PCE X 1 ft³ air X 1 min X 1 day

at standard temperature and pressure. One pound is equivalent to 454 grams. One cubic foot is equivalent to 28.3 liters.

Actual system temperature and pressure is 68°F and 60 inches of water vacuum. Standard temperature is 77°F (25°C) and standard pressure is 14.7 psi (33.9 ft H₂O). Thus, the actual system flow is equivalent to the following flow at standard conditions:

12 ACTUAL ft3 X (273+68) X (33.9 ft - (60/12) ft H2O) = 10 STANDARD ft3

min X (273+77) X (33.9 ft H₂O)

min

The resulting system PCE removal rate, adjusted to standard conditions, would be:

1.6 lb PCE X 10 STANDARD ft3/min = 1.3 lb PCE

day X 12 ACTUAL ft³/min

day

FURTHER REMEDIAL ACTION

Kennedy/Jenks Consultants is planning to drill a soil boring on the south side of the manhole, and collect soil samples at various depths for analysis. If the results of these soil sample analyses indicate that PCE concentrations have been reduced to below the proposed method B cleanup level of 19.6 mg/kg, then, SVE system shutdown, removal, and application for a "No Further Action" determination are planned. If the concentrations detected in the soil samples exceed the proposed cleanup level, then the new soil boring will be converted to an SVE well and connected to the blower system for renewed SVE remedial action. Details of the proposed actions are provided in the internal memorandum entitled "Work Plan for Soil Vapor Extraction System Upgrade, Benenson Bellevue Site", dated 20 August 1999 (attached).

20 August 1999

MEMORANDUM

To:

Project File

From:

John Norris

Subject:

Subject: \

Work Plan for Soil Vapor Extraction System Upgrade, Benenson Bellevue

Site

K/J 946059.01

A soil vapor extraction system currently operates at the Benenson Bellevue site (site). The system consists of a single extraction well located approximately 28 inches southeast of a manhole located on site. The extraction well extracts subsurface air containing PCE vapor from PCE-impacted soils surrounding the manhole between approximate depths of 8 and 20 feet below grade. Off/on cycling of system operation no longer leads to appreciable rebounding of PCE vapor concentrations in the extracted air stream (Figure 1). Mass recovery rate of PCE from the extraction well has leveled off (Figure 2). It is believed that the PCE has effectively been removed from soil near the location of the extraction well. In order to confirm the attainment of the cleanup levels, two soil borings will be drilled approximately 2 feet northwest and northeast of the manhole. The borings will be advanced to a total depth of 40 feet below grade with soil samples collected at approximate 5-foot vertical intervals. Soil samples will be field screened for organic vapor emissions using a photoionization detector (PID). Six soil samples (three from each boring) will be selected for rapid turnaround laboratory analyses for purgeable halocarbons using EPA method 8010 or 8260. If high PID readings or PCE odors are noted during drilling, then samples will not be submitted for rapid turnaround analyses. Instead, the will installation described below will performed. Assuming that high PID readings and PCE odors are not noted, decisions about additional actions will be based on the analytical results for the six soil samples. If any of the six soil samples contains a PCE concentration exceeding 19.6 mg/kg then the additional SVE well installation below will be performed.

If the laboratory results indicate PCE concentrations are less than the MTCA Method B limit of 19.6 mg/kg, we will proceed with submitting a request for No Further Action determination to Ecology. If field observations or laboratory analytical results indicated that the attainment of the cleanup level has not been accomplished, then a new SVE well will be installed in the soil boring located approximately two feet northwest of the manhole (roughly opposite the existing SVE well) as shown on Figure 3. It will be constructed similar to the existing well, a 4-inch diameter, Schedule 40 PVC pipe, to a total depth of approximately 40 feet below grade.

The new well will be screened from approximately 20 to 40 feet below grade, similar to the existing well. The exact screen interval should be determined in the field to span the PCE-affected soil zone, based on the PID measurements. The attached log for boring BB-15, advanced during previous investigations near the manhole, and the existing well indicates brown silty sand and gravel till soils to the total depth of the well. Additional details regarding well completion are given on Figure 4. Care should be taken to site the well sufficiently far away from the sewer pipes that connect to the manhole.

A piece of PVC tubing in the form of an inverted J will be mounted on the existing SVE well to convert this will to an intake well, which allows ambient air to be drawn in and through the formation

Kennedy/Jenks Consultants

MEMORANDUM

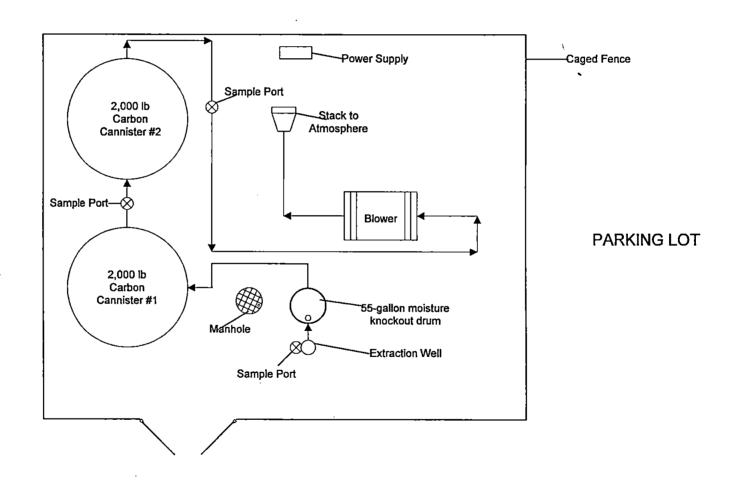
File 20 August 1999 Page 2

toward the new extraction well. The inlet end of the J will be covered with a screen to prevent objects from entering the well. The blower and treatment equipment will be connected to the new extraction well using Schedule 40 PVC pipe and flexible hose. Original instrumentation will be used to monitor the system. Operation of the blower and treatment system and monitoring of system parameters and PCE concentration will remain unchanged.

Enclosure(s)



PARKING LOT



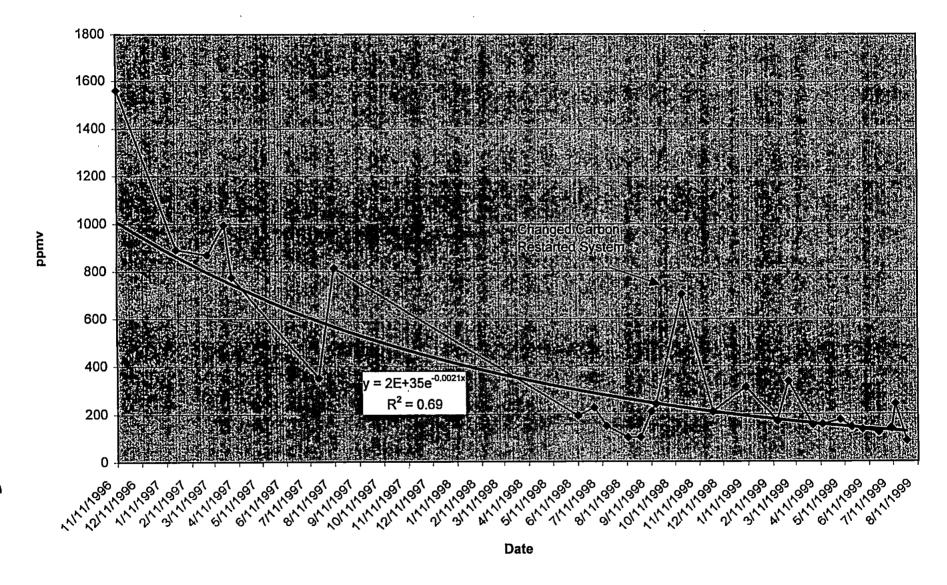
PARKING LOT

BENENSON BELLEVUE COMPANY BELLEVUE, WA

SITE DETAILS FIGURE A

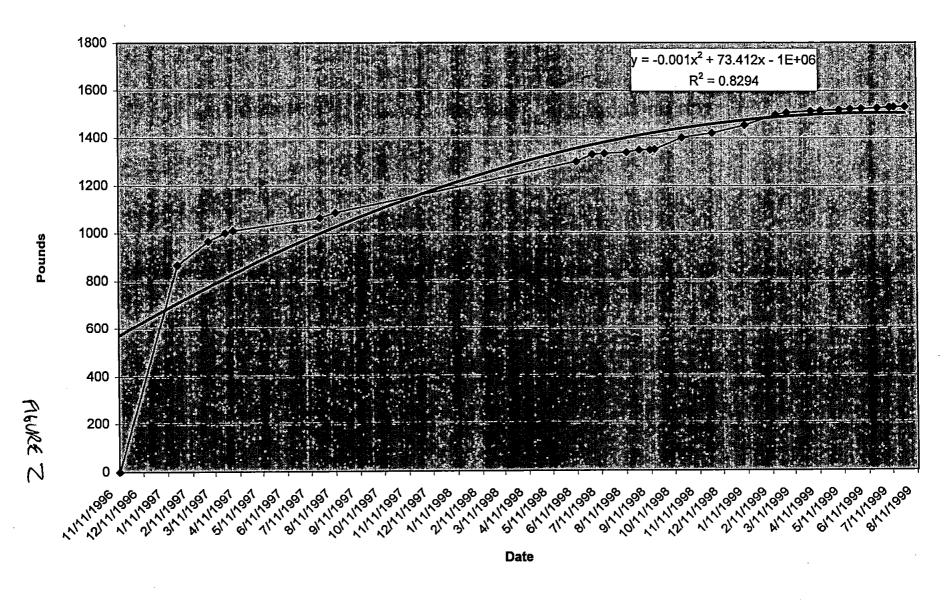
PARKING LOT

Estimated PCE Concentrations Removed

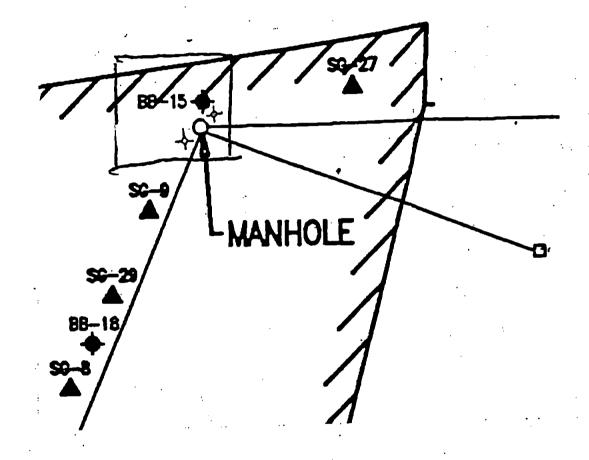


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Estimated Cumulative Pounds PCE Removed



Benenson.xls 946059:00

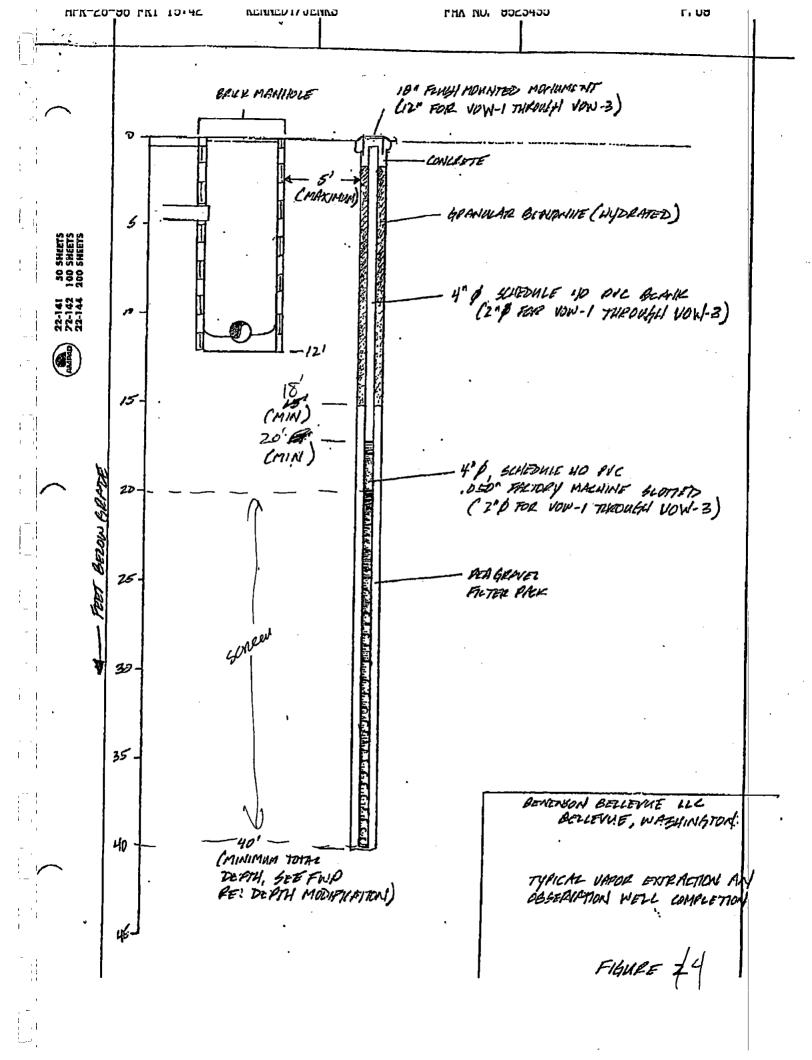


EXISTING EXTRACTION WELL

PROPOSED NEW EXTRACTION WELL

NOT TO SCALE

N



A Line of the later

air Sparge

RESOURCE PROTECTION WELL REPORT

START CARD NO. R27184 PROJECT NAME: Beneuson WELL IDENTIFICATION NO. ACG-359 LOCATION NE 14 SW 14 SOC 32 TWIZEN R SE DRILLING METHOD: HSA STREET ADDRESS OF WELL: DRILLER: Scott Krueger 108th of Main St. - Bellevus FIRM: Cascade Drilling, Inc. WATER LEVEL ELEVATION: _______ SIGNATURE: GROUND SURFACE ELEVATION: N/A CONSULTING FIRM: Kennedy Denks INSTALLED: 5-16-96 REPRESENTATIVE: Thom Morin DEVELOPED: N/A 6220 AS-BUILT WELL DATA FORMATION DESCRIPTION 0 -40ft. brown Silty Sand grave) WELL COVER CONCRETE SURFACE SEAL DEPTH = 1/ft.:PVC BLANK L "x ZO' BACKFILL 18 ft.
TYPE: Boot chips ft. PVC SCREEN W 20 GRAVEL PACK 21 ft. MATERIAL: Dea grave) WELL DEPTH 1/O SCALE: 1" = PAGE____OF

Boring & Well Construction Log Kennedy/Jenks Consultants BORING LOCATION THE SHOPS AT FIRST STREET PROJECT Boring/Well Name BB-15 DRILLING COMPANY CASCADE DRILLING, INC. DRILLER SCOTT Project Name BENENSON BELLEVUE II DRILL BIT(S) SIZE: 6 5/8" O.[DRILLING METHOD HOLLOW STEM AUGER 946059.00 **Project Number** ISOLATION CASING то FT. N.A ELEVATION AND DATUM TOTAL DEPTH 100.0 BLANK CASING FT. N.A DATE COMPLETED DATE STARTED PERFORATED CASING 10/15/1994 FROM TO FT. INITIAL WATER DEPTH (FT) SIZE AND TYPE OF FILTER PACK N.A. FROM TO FT. LOGGED BY T. MORIN FROM 2.0 FT. CONCRETE 0.0 SAMPLING METHODS WELL COMPLETION
SURFACE HOUSING GROUT VOLCLAY FROM 2.0 TO 100.0 FT. 2" SPOON W/ BRASS STAND PIPE WELL NOT RECOVERY PENETRATION RESIST (FEET) (BLONS/6 IN.) USCS DEPTH SAMPLE NO. OVA LITHOLOGY SAMPLE DESCRIPTION AND DRILLING REMARKS CONSTRUCTED (FEET) G 2.6 Sandy SILT with gravel; grey, demp, very dense; mostly silt, some medium to coarse sand, some medium subangular gravel, minor clay; good dry strength, slight to moderate dilatency, very poorly sorted; 5 2.4 interpreted as Glacial Till 10 12.0 very distinct solvent odor S 0.5 160 ML BB-15-15.0 320 20 0.5 100 BB-15-20.0 190 25 odor significantly decreased _0.5 | 150 BB-15-25.0 75

Boring & Well Construction Log Kennedy/Jenks Consultants

- 5	AMPLES	PENETRATION	DEPTH	SAMPLE NO.	WELL NOT	OVA	UTHOLOGY L	JSCS	SAMPLE DESCRIPTION AND DRILLING REMARKS
YPE	(FEET)	PENETRATION RESIST (BLOWS/6 IN.)	(FEET)	Y	CONSTRUCTED			LOG	
	0.5	90	30 -	BB-15-30.0		22			<u> </u>
			-						
	0.5	165	35 -	BB-15-35.0	-	16			gravelly
			- - -						- - -
5	0.5	120	40 - -	BB-15-40.0	-	7.4			- -
			-						
3	0.5	130	45 	BB-15-45.0	- -	8.50		ML	
			50 —			0.5			- -
S	0.5	110	-	B8-15-50.0		2.5			
	0.5	100	- - 55 —	BB-15-55.0		1.30			- siltier
5		100	-	55-10 55.0					
5	0.5	200	60	BB-15-60.0	-				na recovery, cuttings become dark grey
		•	- -						- - - -
s	0.5	140	65 —	BB-15-65.0	-	5.8		٠.	_ _
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Kennedy/Jenks Consultante Boring & Well Construction Log Boring/Well Name BB-15 Project Number 946059.00 BENENSON BELLEVUE II Project Name SAMPLE DESCRIPTION, AND DRILLING REMARKS USCS WELL NOT OVA SAMPLE NO. RECOVERY PENETRATION RESIST (PLOWS/& IN.) CONSTRUCTED DEPTH (FEET) 0.2 BB-15-70.0 70 120 Sandy lean CLAY: tan grey, damp, very stiff; mostly clay, 30 to 40% silt, no odor 0.2 75-1_{BB}-15-75.0 100 CL becomes sandy with trace of subrounded 0.0 80 - BB-15-80.0 coarse gravel 0.5 120 Poorly graded SAND: grey, moist, dense; mostly subangular medium to coarse sand, minor silt, minor fine gravel 0.1 SP 85 - BB-15-85.0 140 0.5 Sandy SILT with gravel: grey, damp, very dense; same Glacial Till as above 0.2 90 - BB-15-90.0 0.5 110

ML

0.2

grey, moist, slight increase in clay content

Notes:

0.5 150

140

95-

BB-15-95.0

100 - BB-15-100.0

Refusal at 100 feet bgs. Groundwater not encountered to maximum depth of boring.

Attatchment A

TMW-1 Boring Well
Construction Log

Kennedy/Jenks Consultants **Boring & Well Construction Log** Boring/Well Name TMW-1 THE SHOPS AT FIRST STREET PROJECT BORING LOCATION DRILLING COMPANY Project Name BENENSON BELLEVUE II DRILLER BOB BISHOP CASCADE DRILLING, INC. DRILL BIT(S) SIZE: 7" DRILLING METHOD O.D. AIR ROTARY (IR T3W) **Project Number** 946059.00 ISOLATION CASING ELEVATION AND DATUM TOTAL DEPTH 110.0 <u>0.0</u> 99.0 ^{FT.} FROM DATE COMPLETED DATE STARTED BLANK CASING 2" SCH 40 PVC 11/03/1995 11/02/1995 FROM PERFORATED CASING INITIAL WATER DEPTH (FT)
107 (INITIAL) 103.5 (FINAL) 109.0 0.010 FACTORY SLOTTED 2" PVC 97.0 ^{to} 109.0 FT. FROM SIZE AND TYPE OF FILTER PACK #10/20 COLORADO SILICA SAND LOGGED BY T. MORIN 94.0 10 97.0 FT. FROM WELL COMPLETION | SURFACE HOUSING SAMPLING METHODS BENTONITE CHIPS 0.0 10 FROM 97.0 FT. 2" SPOON W/ BRASS STAND PIPE GROUT BENTONITE (2' OF CONCRETE AT SURFACE) uscs SAMPLE DESCRIPTION AND DRILLING REMARKS TYPE RECOVERY PENETRATION RESIST (BLOWS/6 PL) LITHOLOGY SAMPLE NO. DEPTH CONSTRUCTION (FEET) Sandy SILT with gravel; grey, damp, very dense; mostly silt, some medium to coarse sand, some medium subangular gravel minor clay; good dry strength, slight to moderate dilatency, poorly sorted; interpreted as Glacial Till 10-G ML 15 G 20 G 25

G

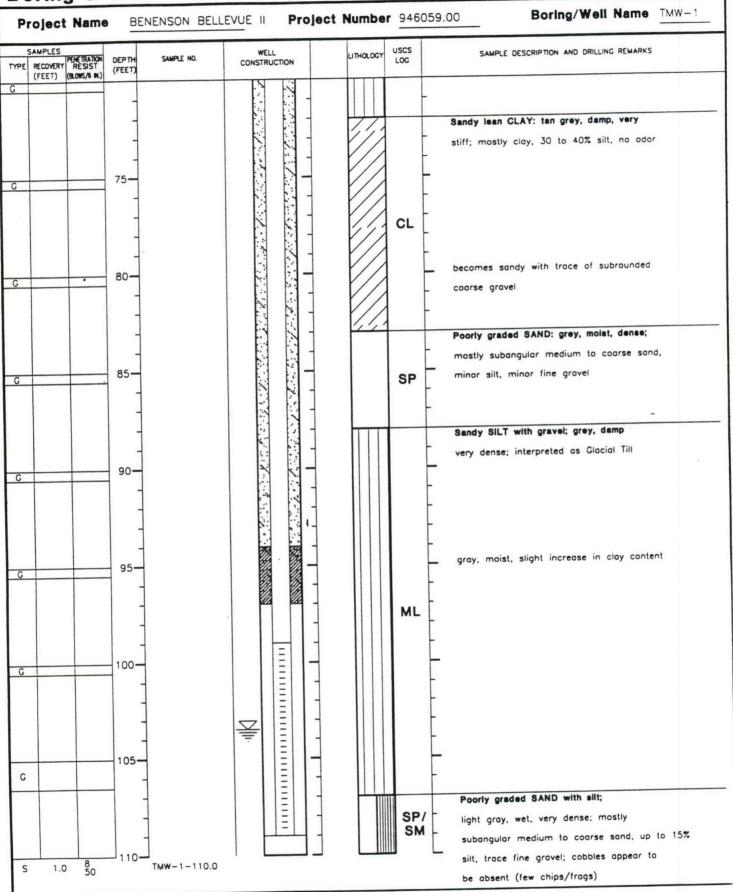
Boring & Well Construction Log

Kennedy/Jenks Consultants

SAMPLES	Name	 Project N	uscs	T	SCRIPTION AND DRILLING REMARKS	
G G G G G G G G G G G G G G G G G G G	35· 40 45 50 66		ML	gravelly mostly sitt	cuttings become dark gray	

Boring & Well Construction Log

Kennedy/Jenks Consultants



Notes:

- 1) Soil conditions to 100 feet logged from cuttings and by reference to log of boring BB-15 (25' east).
- PVC well casing and screen removed following sampling and boring completely sealed with bentonite and 2-foot concrete plug at surface.



KENNEDY/JENKS CONSULTANTS CLIENT:

DATE: CCIL JOB #:

11/6/95

530 SOUTH 336TH ST.

511003

FEDERAL WAY, WA 98003

CCIL SAMPLE #: DATE RECEIVED:

11/2/95

WDOE ACCREDITATION #:

C142

CLIENT CONTACT: THOM MORIN

CLIENT PROJECT ID:

946059.00

CLIENT SAMPLE ID:

STOCK - 1 11/2/95 11:00

DATA RESULTS

				ACTION	ANALYSIS	ANALYSIS
ANALYTE	METHOD	RESULTS*	UNITS**	LEVEL***	DATE	BY
1.1-DICHLOROETHENE	EPA-8240	ND(<20)	UG/KG		11/3/95	KLP
TRICHLOROFLUOROMETHANE	EPA-8240	ND(<20)	UG/KG		11/3/95	KLP
METHYLENE CHLORIDE	EPA-8240	ND(<20)	UG/KG		11/3/95	KLP
	EPA-8240	ND(<20)	UG/KG		11/3/95	KLP
1,1-DICHLOROETHANE TRANS-1,2-DICHLOROETHENE	EPA-8240	ND(<20)	UG/KG		11/3/95	KLP
•••	EPA-8240	ND(<20)	UG/KG		11/3/95	KLP
CHLOROFORM	EPA-8240	ND(<20)	UG/KG		11/3/95	KLP
1,1,1-TRICHLOROETHANE CARBON TETRACHLORIDE	EPA-8240	ND(<20) ND(<20)	UG/KG		11/3/95	KLP
, =	EPA-8240	ND(<20)	UG/KG		11/3/95	KLP
1,2-DICHLOROETHANE	==		UG/KG		11/3/95	KLP
TRICHLOROETHENE	EPA-8240	ND(<20)	UG/KG		11/3/95	KLP
1,2-DICHLOROPROPANE	EPA-8240	ND(<20)	UG/KG		11/3/95	KLP
BROMODICHLOROMETHANE	EPA-8240	ND(<20)			11/3/95	KLP
TRANS-1,3-DICHLOROPROPENE	EPA-8240	ND(<20)	UG/KG		11/3/95	KLP
CIS-1,3-DICHLOROPROPENE	EPA-8240	ND(<20)	UG/KG		11/3/95	KLP
1,1,2-TRICHLOROETHANE	EPA-8240	ND(<20)	UG/KG		11/3/95	KLP
TETRACHLOROETHYLENE	EPA-8240	ND(<20)	UG/KG			
DIBROMOCHLOROMETHANE	EPA-8240	ND(<20)	UG/KG		11/3/95	KLP
BROMOFORM	EPA-8240	ND(<20)	UG/KG		11/3/95	KLP
CHLOROBENZENE	EPA-8240	ND(<20)	UG/KG		11/3/95	KLP
1,1,2,2-TETRACHLOROETHANE	EPA-8240	ND(<20)	UG/KG		11/3/95	KLP
1,2 DICHLOROBENZENE	EPA-8240	ND(<20)	UG/KG		11/3/95	KLP
1,3-DICHLOROBENZENE	EPA-8240	ND(<20)	UG/KG		11/3/95	KLP
1,4-DICHLOROBENZENE	EPA-8240	ND(<20)	UG/KG		11/3/95	KLP

^{• &}quot;NO" INDICATES ANALYTE NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES



[&]quot; UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

^{***} ACTIONS LEVELS ARE PROVIDED ONLY WHEN PARAMETER DATA IS USED FOR A GENERALLY CONSISTENT APPLICATION. WHEN PROVIDED, THEY SHOULD BE USED AS GUIDELINES ONLY THE APPROPRIATE REGULATORY DOCUMENT SHOULD BE CONSULTED BEFORE MAKING ANY DECISIONS BASED ON ANALYTICAL DATA



CLIENT:

KENNEDY/JENKS CONSULTANTS

530 SOUTH 336TH ST.

FEDERAL WAY, WA 98003

DATE:

11/6/95

CCIL JOB #:

511003

DATE RECEIVED:

11/2/95

WDOE ACCREDITATION #:

C142

CLIENT CONTACT: THOM MORIN

CLIENT PROJECT ID:

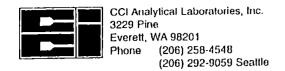
946059.00

QUALITY CONTROL RESULTS

SURROGATE RECOVERY

CCIL SAMPLE ID	ANALYTE	SUR ID	% RECV
	EPA-8240	1.2-DCE-d4	100
511003-01	-	TOLUENE-d8	108
511003-01	EPA-8240		102
511003-01	EPA-8240	4-BFB	·
511003-02	EPA-8240	1,2-DCE-d4	100
*	EPA-8240	TOLUENE-d8	93
511003-02	-	4-BFB	99
511003-02	EPA-8240	, _	= =
511003-03	EPA-8240	1,2-DCE-d4	103
511003-03	EPA-8240	TOLUENE-d8	111
511003-03	EPA-8240	4-BFB	109

APPROVED BY:



Chain of Custody / Laboratory Analysis Request

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Date	11	12-	Page	/_	Of		

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SAMPLER'S NAME 7". F10V11		PH#			WTPH-G	WTPH-D	WPTH-418.1	×	WTPH-HCID	EPA 8020 602	A 8010 K	A 8240	EPA 8270 625	A 8080	Metals Priority Pollutant	Metals Other (Specify)	TCLP Metals				ĺ					NUMBER OF CONTAINERS	RECEIVED IN GOOD CONDITION?
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POSSIBLE SAMPLE HAZARDS							_														 -				······································		
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Attatchment B

TMW-1 Groundwater Purge and Sample Form

Groundwater F	ourge an	d Samp	le Form	Date:	11/2/95	Kenne	dy/Jenl	ks Co	nsultants
PROJECT NAME: B				WELL	NUMBER:7	MW-1			1
PROJECT NUMBER:		_		PERSO	ONNEL: TE	М		_	
STATIC WATER LEV	EL (FT): _	103.6	, !	 _	JRING POINT		: <u>B</u> 4	5	
	-OMENT		DLINGT_		METHOD:		109		1
TIME START PURGE DEVELOP TIME END PURGE:	HENT			PURGE	E DEPIR (FI)				
TIME SAMPLED:									1
COMMENTS:	UELIED	M 2	" Sulfie	BLOCK /	ON WIE	E LINE)	·	
		r		INLESS 1					
* DEVELOYME	ant re	ADINGS	INLLUD	ET ON T	415 701	<u> </u>			
WELL VOLUME CALCULATION	TOTAL DE	PTH	DEPTH TO WATER (FT)	WATER COLUMN (F	(T) CAS	MULTIPLIER ING DIAMETE			ASING VOLUME (GAL)
(FILL IN BE- FORE PURGING)	110	-	103.5	6.5	X 0.1	0.64	1.44		1.04
TIME		3:00	3:10	3:40	400				
VOLUME PURGED (GAL)	INITIAL	144	5.	10				
PURGE RATE (GPM)							_	ļ
TEMPERATURE (°C)	13.5	13.2	12.8	12.9	_	_		
pH	····	7.16	1.53	7.73	7.71				<u></u>
SPECIFIC CONDUCTIVITY (magnetic description)	MS derombos cm.	>2000	757	652.	649				
DISSOLVED OXYGE	N (mg/L)								
eH(MV)Pt-AgC1 r	ef.			,	. ,- -				
TURBIDITY/COLOR									
ODOR	-								_
DEPTH TO WATER PURGE (FT)	DURING			_			_		-
NUMBER OF CASI VOLUMES REMOVE	NG D					_			
DEWATERED?			1				1		1

	Mater P IAME: <u>180</u>							: TMN-		anks Consultants
	UMBER: _	_						TCM		
SAMPLE DA	ITA:	4'00	pM		co	OMMENTS: _				,
DEPTH S	AMPLED (1	FT):^	107'			_			 	
SAMPLIN	IG EQUIPM	ENT: <u>D</u>	150 1	osc a	MILETE				- 	
SAMPLE NO.	NO. OF CONTAIN- ERS	CON- TAINER TYPE	PRESER- VATIVE	FIELD FILTRA- TION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUS- TODY AT 4°C?	ANALYSIS REQUEST (METHOD)	
TMW-1	3	GLAZZ	HCL	_	40m1	MOD.	GROY		EPA 8010	
TM W-21		и	и	и	1 4	NONE	LL STA	~	и	TRIP BLANK (TMW-21)
510ex-1 (5016))	И	_	NA	402	N/A	N/A		٠	SAMPLE FOR CHAP
						·				-
PURGE WA	TER DISPO	SAL NOT	<u>ES</u> :	0	c	OMMENTS: _				
DISPOS	AL METHOD	:	2UMME	D		· _				
DRUM D	ESIGNATIO	N(S)/VO	LUME PER	(GAL):_		1				
WELL HEA	D CONDITI	ONS CHE	CKLIST (CIRCLE Y	ES OR NO -	IF NO, AD	D COMM	ENTS):		-
WELL SEC	URITY DEV	ICES OK	(BOLLAR	RDS, CHRI	STY LID, C	ASING LID	AND LO	CK)?: YES	NO C	
INSIDE O	F WELL HE	AD AND	OUTER CA	ISING DRY	Yes Yes	NO (V	(A)			
WELL CAS	ING OK?:	YES	но С	NA						
COMMENTS	:									
	<u> </u>						_			
GENERAL: WEATHE	R CONDITI	ONS:	BUNN	y/ CLE	AF					
TEMPER	ATURE (SF	ECIFY •	C OR *F	: 250	F AM	52	OF	PM	İ	
PROBLE	MS ENCOUN	ITERED D	URING PU	JRGING OF	R SAMPLING?	?				
			·· · ·- <u>·</u>							
Job	File:					_				

	Attatchment C
	Laboratory Analysis Reports
	and Chain-of-Custody Form
· 本种教育。1925年1926年1926年1926年1926年1926年1926年1926年1926	
一名和加州的特别。但是自然的特别,但是对对对对此	



CLIENT: KENNEDY/JENKS CONSULTANTS

FEDERAL WAY, WA 98003

DATE: CCIL JOB #:

11/3/95

530 SOUTH 336TH ST.

511003

CCIL SAMPLE #:

DATE RECEIVED:

11/2/95

WDOE ACCREDITATION #:

C142

CLIENT CONTACT: THOM MORIN

CLIENT PROJECT ID:

946059.00

CLIENT SAMPLE ID:

TMW-1 11/2/95 4:00

DATA RESULTS

				ACTION	ANALYSIS	ANALYSIS
ANALYTE	METHOD	RESULTS*	UNITS**	LEVEL***	DATE	ВҮ
1,1-DICHLOROETHENE	EPA-8240	ND(<5)	UG/L		11/2/95	KLP
TRICHLOROFLUOROMETHANE	EPA-8240	ND(<5)	UG/L		11/2/95	KLP
METHYLENE CHLORIDE	EPA-8240	ND(<5)	UG/L		11/2/95	KLP
1.1-DICHLOROETHANE	EPA-8240	ND(<5)	UG/L		11/2/95	KLP
TRANS-1,2-DICHLOROETHENE	EPA-8240	ND(<5)	UG/L		11/2/95	KLP
CHLOROFORM	EPA-8240	ND(<5)	UG/L		11/2/95	KLP
1,1,1-TRICHLOROETHANE	EPA-8240	ND(<5)	UG/L		11/2/95	KLP
CARBON TETRACHLORIDE	EPA-8240	ND(<5)	UG/L		11/2/95	KLP
1,2-DICHLOROETHANE	EPA-8240	ND(<5)	UG/L		11/2/95	KLP
TRICHLOROETHENE	EPA-8240	ND(<5)	UG/L		11/2/95	KLP
1,2-DICHLOROPROPANE	EPA-8240	ND(<5)	UG/L		11/2/95	KLP
BROMODICHLOROMETHANE	EPA-8240	ND(<5)	UG/L		11/2/95	KLP
TRANS-1,3-DICHLOROPROPENE	EPA-8240	ND(<5)	UG/L		11/2/95	KLP
CIS-1,3-DICHLOROPROPENE	EPA-8240	ND(<5)	UG/L		11/2/95	KLP
1.1.2-TRICHLOROETHANE	EPA-8240	ND(<5)	UG/L		11/2/95	KLP
TETRACHLOROETHYLENE	EPA-8240	ND(<5)	UG/L		11/2/95	KLP
DIBROMOCHLOROMETHANE	EPA-8240	ND(<5)	UG/L		11/2/95	KLP
BROMOFORM	EPA-8240	ND(<5)	UG/L		11/2/95	KLP
CHLOROBENZENE	EPA-8240	ND(<5)	UG/L		11/2/95	KLP
1,1,2,2-TETRACHLOROETHANE	EPA-8240	ND(<6)	UG/L		11/2/95	KLP
1,2 DICHLOROBENZENE	EPA-8240	ND(<5)	UG/L		11/2/95	KLP
1,3-DICHLOROBENZENE	EPA-8240	ND(<5)	UG/L		11/2/95	KLP
1,4-DICHLOROBENZENE	EPA-8240	ND(<5)	UG/L		11/2/95	KLP

[&]quot; "NO" INDICATES ANALYTE NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT REPORTING LIMIT IS GIVEN IN PARENTHESES

[&]quot; UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

^{***} ACTIONS LEVELS ARE PROVIDED ONLY WHEN PARAMETER DATA IS USED FOR A GENERALLY CONSISTENT APPLICATION. WHEN PROVIDED, THEY SHOULD BE USED AS GUIDELINES ONLY THE APPROPRIATE REGULATORY DOCUMENT SHOULD BE CONSULTED BEFORE MAKING ANY DECISIONS BASED ON ANALYTICAL DATA



CLIENT: KENNEDY/JENKS CONSULTANTS

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11/2/95

WDOE ACCREDITATION #:

C142

CLIENT CONTACT: THOM MORIN

CLIENT PROJECT ID:

946059.00

CLIENT SAMPLE ID:

TMW-21 11/2/95 4:10

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ACTION LEVEL***	ANALYSIS DATE	ANALYSIS BY
1,1-DICHLOROETHENE	EPA-8240	ND(<5)	UG/L		11/2/95	KLP
TRICHLOROFLUOROMETHANE	EPA-8240	ND(<5)	UG/L		11/2/95	KLP
METHYLENE CHLORIDE	EPA-8240	ND(<5)	UG/L		11/2/95	KLP
1,1-DICHLOROETHANE	EPA-8240	ND(<5)	UG/L		11/2/95	KLP
TRANS-1,2-DICHLOROETHENE	EPA-8240	ND(<5)	UG/L		11/2/95	KLP
CHLOROFORM	EPA-8240	[,] ND(<5)	UG/L		11/2/95	KLP
1,1,1-TRICHLOROETHANE	EPA-8240	ND(<5)	UG/L		11/2/95	KLP
CARBON TETRACHLORIDE	EPA-8240	ND(<5)	UG/L		11/2/95	KLP
1,2-DICHLOROETHANE	EPA-8240	ND(<5)	UG/L		11/2/95	KLP
TRICHLOROETHENE	EPA-8240	ND(<5)	UG/L		11/2/95	KLP
1,2-DICHLOROPROPANE	EPA-8240	ND(<5)	UG/L		11/2/95	KLP
BROMODICHLOROMETHANE	EPA-8240	ND(<5)	UG/L		11/2/95	KLP
TRANS-1,3-DICHLOROPROPENE	EPA-8240	ND(<5)	UG/L		11/2/95	KLP
CIS-1,3-DICHLOROPROPENE	EPA-8240	ND(<5)	UG/L		11/2/95	KLP
1,1,2-TRICHLOROETHANE	EPA-8240	ND(<5)	UG/L		11/2/95	KLP
TETRACHLOROETHYLENE	EPA-8240	ND(<5)	UG/L		11/2/95	KLP
DIBROMOCHLOROMETHANE	EPA-8240	ND(<5)	UG/L		11/2/95	KLP
BROMOFORM	EPA-8240	ND(<5)	UG/L		11/2/95	KLP
CHLOROBENZENE	EPA-8240	ND(<5)	UG/L		11/2/95	KLP
1,1,2,2-TETRACHLOROETHANE	EPA-8240	ND(<6)	UG/L		11/2/95	KLP
1,2 DICHLOROBENZENE	EPA-8240	ND(<5)	UG/L		11/2/95	KLP
1,3-DICHLOROBENZENE	EPA-8240	ND(<5)	UG/L		11/2/95	KLP
1,4-DICHLOROBENZENE	EPA-8240	ND(<5)	UG/L		11/2/95	KLP

^{* &}quot;NO" INDICATES ANALYTE NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT REPORTING LIMIT IS GIVEN IN PARENTHESES

[&]quot; UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

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