FINAL CLOSURE REPORT

for

DUBLIN MULTILAYER
6341 Scarlett Court
Dublin, California

SUBMITTED ON

FEBRUARY 1991

TO

MR. RAVI ARULANANTHAM

ALAMEDA COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH

FINAL CLOSURE REPORT

for

DUBLIN MULTILAYER
6341 Scarlett Court
Dublin, California

Written by

Stephen L. Williams of Stephen L. Williams Consulting

Compiled and Managed by

Jon Krain of EM Enterprises

Edited and Published by

John Chan of Dublin Multilayer, Inc.

INTRODUCTION

Dublin Multilayer Inc (DMI) is a printed circuit board manufacturer located at 6341 Scarlett Court in Dublin, California and established in November, 1979. Their hazardous materials activities were confined to the area described in Figures A-1, and A-2 and known as the "wet floor". Contained within the wet floor was a collection sump which existed prior to DMI's occupancy. DMI refurbished the sump prior to the commencement of work in 1979 because of its poor condition.

On January 15th of 1990, DMI had a fire originating from what appears to be an electrical equipment failure inside the wet floor area. However, after an extended review, fire investigation teams have concluded that the exact cause of the fire was of "unknown origin".

During the early hours of the fire, IT Corporation was asked to provide direction as a hazardous materials site manager throughout the two days of the firefighting effort. Afterwards, the local fire agency stipulated that they direct IT Corporation's fire and hazardous materials cleanup of the wet floor area. IT Corporation spent the next five days working under the direction of the Fire Department. It was during this time, that water from inside the wet floor and that standing water around the blocked drains was pumped into several large poly tanks for later disposal. In addition, IT Corporation under the instructions of the local fire agency removed all of the wood materials used in the construction of the wet floor and in the area above the plating sump (mezzanine) into a 40 yard debris bin for disposal at a Class-I site (see Attachment II-C).

Additional work in the hazardous materials areas stopped until a formal closure plan was submitted and approved by Dr. Ravi Arulanantham of Alameda County Department of Environmental Health (see Attachment I).

SUMMARY

On February 24, 1990, CKC Inc and DMI personnel dismantled the mezzanine above the wet floor area. All debris not contaminated or effected by Hazardous materials was disposed of into bins as nonhazardous material. All other material in, on or associated with the wet floor activities was disposed of into bins as hazardous debris and shipped to Chemical Waste Management (CWMI), Kettleman Hills for Class-I disposal (see Attachments II-A and II-B). Absorbent material was added to wet sludge to solidify it for shipment in the debris bins for Class-I disposal. All liquid effluents were pumped into storage tanks for treatment by Decon Environmental Inc (DECON).

By March 2, 1990, Delta Technical Services (Delta Tech) was bought in to decontaminate the wet floor area after all the secondary containment berms and barriers were removed. Delta Tech hydroblasted the floor several times and in between each successive washing, the floor was etched with 10% nitric acid (see Attachment VI-D). The liquid effluent was added to the already stored liquid. This procedures was satisfactory for the majority of the wet floor area, but in a few small areas copper staining was still evident. So in these areas, we chose to sandblast and this was very effective. The spent sandblast grit was disposed of with the hazardous solids.

To verify our success at decontamination of the wet floor area, wipe samples were taken by Blaine Technical on March 9, 1990. These samples did in fact confirm our success (see Attachments III-A, IV-A and Figure B).

On February 21, 1990, Dublin San Ramon Services District issued revised wastewater discharge requirements for the discharge of treated liquid effluents (see Attachment VI-A). Liquid effluents stored in bulk tanks were then treated by DECON

to remove heavy metals. They used the flocculation method incorporating the use of sodium hydroxide and sodium sulfide to enhance precipitation of metals for filtration. Confirmatory analysis were performed on treated batches (see Attachment III-B) and then were discharged into the sanitary sewer. The filter cake was place in bins for transport and recovery at Cypress Miami's facility in Claypool, Arizona (see Attachment II-D and II-E).

After decontamination was completed we noticed several etched areas, one was near an expansion joint, two were near stress cracks in the floor and one was near the edge of the building. This presented the potential for migration of contaminants, so we felt it necessary to investigate this possibility further. Core holes were drilled through the slab to facilitate sampling beneath the slab, as well as beneath the sump (see Figure C).

On March 27, 1990, a three inch hand auger was used by Western Geologic Resources (WGR) to collect samples from approximately one foot below the bottom of the slab and one foot below the bottom of the sump. The auger was washed between each boring to prevent cross contamination of samples. Samples were placed in glass jars with teflon seals and properly preserved. A sufficient quantity of soil was obtained for each sample to insure the absence of voids in the sample container. (see Attachment IV-C).

The samples beneath the floor were analyzed for copper, lead, nickel, chrome and hexavalent chrome. The sample beneath the sump was analyzed for all Priority Pollutants pursuant to 40 CFR and Title 22. (see Attachment III-C for sample results). Sample results showed elevated metals (copper, lead, nickel, chrome) in boring sites S-

3,S-4 and S-6, as well as methylene chloride, freon 113, TCE, 1,2 DCE and xylene in S-6 (see Figure C).

REMEDIATION

A six foot square hole was sawn in the concrete floor to access soils for excavation around sites S-3 and S-4. Upon excavation we encountered a visually contaminated zone approximately one foot thick, partially in the base fill material and partially in the native soil below the slab in site S-4 and below the asphaltic concrete (A/C) in S-3. It was necessary to enlarge the holes to twelve foot square to enable removal of all visually contaminated areas, as well as an additional one foot in each direction to insure complete removal of all contaminants. Final excavations were between three and four feet in depth and approximately twelve foot square.

For removal of the sump, we planned to remove two more feet around all sides and three more feet below the bottom before sampling. When the sump was first removed we noticed a minor degradation of the cast iron drain line to the sanitary sewer. We had encountered the same cast iron line at the edge of S-4 and had determined the line to be sound and intact. Because we did not know how much of the line was corroded, we cut open the floor and removed the entire line between S-6 and S-4, as well as an additional foot of soil below the line. The line showed signs of some corrosion, but was still intact. Upon completion of excavation of the sump, a concentrated pocket of chlorinated solvents was encountered (approximately six foot in depth).

Sample results showed the presence of TCE, PCE, and ethylbenzene (purchasing records show these solvents have not been used by DMI). Since the

property owner (Busick Properties) was aware of a potential previous release of this type of solvent, they assumed responsibility for the remediation of the sump area and associated VOC problem.

Samples were taken to determine if all heavy metal contamination had been removed (see Figure D). Sample results confirmed sufficient remediation and the trench and excavations around S-3 and S-4 were closed (see Attachment III-D).

Heavy metal soils were then stabilized using the IM-TECH method (see Attachment IV-B) and samples were taken to verify that the treated soils met non-hazardous standards (see Attachment III-E). Soils were then transported to Liquid Waste Management McKittrick, CA for disposal (see Attachment II-G).

A report on the subsequent remediation of VOC contaminated soils and groundwater associated with the sump will be submitted by Busick Properties and their consultants at a later date.

POSTSCRIPT

We would like to thank the associated agencies and personnel for their dedication and forthrightness towards helping us conclude this situation. In particular, these individuals made a difference as a result of their knowledge, their guidance, their attention for the safety of the public and professionalism: Tom Hatchcox (Dublin Fire Department), Tom DeHollander (Dublin San Ramon Services District), Dr. Ravi Arulanantham (Alameda County Department of Environmental Health).

TABLE OF ATTACHMENTS - APPENDIX

I. CLOSURE PLAN

ATTACHMENTS

I. Closure Plan: Letter to Alameda County, Department of Environmental Health

DUBLIN MULTILAYER, INC.

6341 Scarlett Court
Dublin, California 94566

February 24, 1990

Alameda County Health Agency
Division of Hazardous Materials
Department of Environmental Health
80 Swan Way, Room 200
Oakland, California 94621

Attention: Ravi Arulanantham

Dear Ravi,

Please accept the enclosed work schedule for the decontamination of Dublin Multilayer's fire damaged wet process area. All of the contractors we have retained for this project are trained and experienced in hazardous materials operations. They and all of us at Dublin Multilayer are determined to proceed in a manner that is safe, responsible, in full compliance with all applicable codes and with the guidance of your department and the Dublin San Ramon Water Services Department.

We have attached a check for $500.00 payable to the Division of Hazardous Materials. It is our understanding that charges for your services will be deducted at the rate of $50.00 per hour and the balance refunded to us at the close of this project. Please reference our purchase order number 8254 for these transactions.

Respectfully,

Jon Krain
Facilities Manager

ATTACHMENT
I

DUBLIN MULTILAYER, INC.

6341 Scarlett Court
Dublin, California 94566

February 24, 1990

WORK SCHEDULE FOR DECONTAMINATION OF THE WET PROCESS AREA SUBSEQUENT TO FIRE OF JANUARY 15, 1990:

1. Remove all liquid hazardous materials from tanks, equipment, sumps and wet floor and store for future batch treatment.

   Completed by International Technology Corporation; 2/2/90.

2. Remove all non-contaminated equipment from the area to trash roll-off bin or to secure holding area pending disposition by insurance companies.

   Completed by employees of Dublin Multilayer trained and experienced in working in a hazardous wet process area and in the proper use of safety equipment; 2/22/90.

3. Remove collapsed mezzanine to trash roll-off bin.

   Completed by employees of Dublin Multilayer; 2/21/90.

4. Remove wet floor and existing containment area to solid hazardous waste bins. Remove contaminated equipment to secure area for future decontamination and storage pending insurance company disposition.

   CKC Incorporated placed two hazardous waste bins on site; 2/23/90.

   CKC Incorporated, with assistance from employees of Dublin Multilayer, will begin on Monday 2/26/90 and complete within one week.

5. Exposed concrete floor, sumps and contaminated equipment will be hydroblasted and effluent stored for future batch treatment.

   Delta Tech Service, Inc. will begin on Thursday 3/1/90 and complete within one week.

6. The wet process area and sumps will be tested for formal closure; if remediation is necessary a plan of action will be submitted for approval by The Alameda County Health Agency.

   Steven L. Williams will supervise this process beginning by 3/8/90 and completing within two weeks.

7. All hazardous liquids on site will be batch treated and treated water will be discharged into the sanitary sewer system in accordance with the directives of the Dublin San Ramon Water Services Department. Solid filter cake generated from this process will be stored in bins provided by Chemical Waste Management, Inc. for future off-site metal reclamation.

   Decon Environmental Services, Inc. began staging this step on 2/23/90 and will finish within three weeks.

8. All hazardous and non-hazardous solid and liquid waste will be removed on an on-going basis as required to maintain free access to the work site.

9. Dublin Multilayer, Inc will report and document all work done and the disposition of all materials within one week of the completion of the above. March 26, 1990 is our target date.

II. MANIFESTS AND SHIPPING DOCUMENTS

ATTACHMENTS

II-A. Manifest 88448274 (02-28-90): 2 bins fire debris to CWMI

II-B. Manifest 88448269 (03-01-90): 2 bins fire debris to CWMI

II-C. Manifest 88448270 (03-23-90): 1 bin fire debris to CWMI

II-D. Manifest 88248442 (09-05-90): 1 rollon bin treated sludge to Haz/Control

II-E. Manifest 88247434 (09-14-90): consolidation of sludge to Cypress Miami

II-F. Manifest 90203930 (09-14-90): spent chromic and black oxide to Solvent Services

II-G. Shipping form (09-17-90): stabilized soil to Liquid Waste Management

Form Approved OMB No. 2050—0039 (Expires 9-30-91)

Sacramento, California

* Please print or type. (Form designed for use on elite (12-pitch typewriter).

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. C AT 0 6 00 3 15 3 72 28 0 1 — Manifest Document No.

2. Page 1 of 1 — Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
Dublin Multilayer
6341 Scarlett Ct. Dublin, CA 94568

4. Generator's Phone 415) 829-1956

A. State Manifest Document Number 88448274

B. State Generator's ID A A HQ 35 0 11 7 8 6

5. Transporter 1 Company Name: CKC, INC

6. US EPA ID Number: CA D 980589510

C. State Transporter's ID 006193/6479

D. Transporter's Phone 408-627-2595

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
CWMI
35251 Old Skyline Rd.
Kettleman City, CA

10. US EPA ID Number: CAT000646117

G. State Facility's ID CATD006461117

H. Facility's Phone 800-222-2964

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ Hazardous waste solid nos ORM-E D008 NA 9187	002	CM	30	Y	State 181 / EPA/Other D008
b.					State / EPA/Other
c.					State / EPA/Other
d.					State / EPA/Other

J. Additional Descriptions for Materials Listed Above
Fire debris contaminated w/ Cu 0-2000 ppm
Pb 0-500 ppm
Ni 0-100 ppm

K. Handling Codes for Wastes Listed Above
a. 03 b. c. d.

15. Special Handling Instructions and Additional Information
Wear gloves goggles and protective clothing
SFOK W.O.#0751 SFOK 55275

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

GENERATOR

Printed/Typed Name: JON KRAN — Signature — Month Day Year: 12 21 90

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: ROBERT HIEBNER — Signature — Month Day Year: 12 22 90

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: ALAN MANN — Signature — Month Day Year: 12 30 90

Do Not Write Below This Line

S 8022 A (1/88)
A 6700—22
(Rev. 9-88) Previous editions are obsolete.

YOU MUST SEND THIS COPY TO GENERATOR WITHIN 30

ATTACHMENT II-A

Form Approved OMB No. 2050—0039 (Expires 9-30-91)

Toxic Substances Control Division
Sacramento, California

Please print or type. (Form designed for use on elite (12-pitch typewriter).

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CAT06003159 37 | Manifest Document No. 3 001 0 1 | 2. Page 1 of 1 | Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
Dublin Multilayer
6341 Scarlett Ct. Dublin, CA 94568
4. Generator's Phone (415) 829-1956

A. State Manifest Document Number 88443269
B. State Generator's ID AAHQ36011786

5. Transporter 1 Company Name: CKC, Inc
6. US EPA ID Number: CAD 980589510
C. State Transporter's ID 00617490964
D. Transporter's Phone 408-627-2595

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
CMMI
35251 Old Skyline Rd
Kettleman City, CA
10. US EPA ID Number: CAT000646117
G. State Facility's ID CAT000646117
H. Facility's Phone 800-222-2964

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. *RQ Hazardous Waste SOlid Nos ORM-E NA 9187 D008	002	CM	20	Y	State 181 / EPA/Other D008
b.					State / EPA/Other
c.					State / EPA/Other
d.					State / EPA/Other

RECEIVED
MAR 19 1990
DUBLIN MULTILAYER, INC.

J. Additional Descriptions for Materials Listed Above
Pipe debris contaminated w/ Cu 0-2000 ppm
Pb 0-500 ppm
Ni 0-100 ppm

K. Handling Codes for Wastes Listed Above
a. 03
b.
c.
d.

15. Special Handling Instructions and Additional Information
Wear gloves goggles and protective clothing
WO#
P.O. 8199
SFOK 55275

16.
GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

GENERATOR

Printed/Typed Name: W.G. LAWRENCE | Signature: W.G. Lawrence | Month 03 Day 01 Year 90

17. Transporter 1 Acknowledgement of Receipt of Materials

TRANSPORTER

Printed/Typed Name: Mitchell Mollal | Signature: Mitchell Mollal | Month 03 Day 01 Year 90

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month Day Year

19. Discrepancy Indication Space

FACILITY

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: ALAN MANAY | Signature: Alan Manay | Month 03 Day 02 Year 90

DHS 8022 A (1/88)
EPA 8700—22
(Rev. 9-88) Previous editions are obsolete.

Do Not Write Below This Line

ATTACHMENT II-B

Please print or type. (Form designed for use on elite (12-pitch typewriter).

Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: CAT 0 6 00 3 15 37 — Manifest Document No.: 2 2 80 1

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
Dublin Multilayer
6341 Scarlett Ct. Dublin, CA 94568

A. State Manifest Document Number: 88448270

4. Generator's Phone (415 829-1956

B. State Generator's ID: AA HQ 1 160 1 17 8 6

5. Transporter 1 Company Name: GSX Services of CA.

6. US EPA ID Number: CAD 98 19 26 48 05

C. State Transporter's ID: 010477

D. Transporter's Phone

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
CWMI
35251 Old Skyline Rd.
Kettleman City, CA 93239

10. US EPA ID Number: CA T 0 00 64 6 1 17

G. State Facility's ID: CAT000646117

H. Facility's Phone: 800-222-2964

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ Hazardous Waste Solid Nos ORM-E NA 9187 D008	0 01	CM	40		State 181 / EPA/Other D008
b.					State / EPA/Other
c.					State / EPA/Other
d.					State / EPA/Other

J. Additional Descriptions for Materials Listed Above
Fire debris contaminated w/ Cu 0-2000 ppm
Pb 0-500 ppm
Ni 0-100 ppm

K. Handling Codes for Wastes Listed Above
a. 03 b. c. d.

15. Special Handling Instructions and Additional Information
Wear gloves goggles and protective clothing

SFOK 55275

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

GENERATOR

Printed/Typed Name: JON KRAIN — Signature — Month Day Year: 10 3 13 19

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: RON OWCA — Signature — Month Day Year: 10 3 13 19

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Steve Richard — Signature — Month Day Year: 10 23 90

DTSC 8022 A (1/88)
CA 8700—22
(Rev. 9-88) Previous editions are obsolete.

Do Not Write Below This Line

2217-67

ATTACHMENT II-C

State of California—Health and Welfare Agency
Form Approved OMB No. 2050—0039 (Expires 9-30-91)
Please print or type. (Form designed for use on elite (12-pitch typewriter).

See Instructions on Back of Page 6 and Front of Page 7

Department of Health Services
Toxic Substances Control Division
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: C AT 06 0 0 31 5 37
Manifest Document No.: 48 14 1 42
2. Page 1 of 11
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
DUBLIN MULTILAYER, INC
6341 SCARLETT CT. DUBLIN, CA 94568

4. Generator's Phone (415) 829-1956

A. State Manifest Document Number: 88248442
B. State Generator's ID: H AHH 00 36 0 11 7 8 6

5. Transporter 1 Company Name: HAZ/CONTROL
6. US EPA ID Number: CA D 00 0 62 8 14 9
C. State Transporter's ID: 005763
D. Transporter's Phone: 408/848-1470

7. Transporter 2 Company Name:
8. US EPA ID Number:
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
HAZ/CONTROL
731 RENZ LANE
GILROY, CA 95020
10. US EPA ID Number: CA D 00 0 62 8 14 9
G. State Facility's ID: C A D0 0 06 2 81 4 9
H. Facility's Phone: 408/848-1470

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. Hazardous waste solid N.O.S. NA9189 ORM-E RQ100#	0 01	CM	00007Y	Y	State 171 EPA/Other F006
b.					State EPA/Other
c.					State EPA/Other
d.					State EPA/Other

J. Additional Descriptions for Materials Listed Above
Treated plating sludge P# 10
Contains: 72% water, 4% copper, Chromium, nickel lead

K. Handling Codes for Wastes Listed Above
a. 14/101 b. — c. — d. —

15. Special Handling Instructions and Additional Information
Wear protective clothing BN#03 ID# 005738

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Joe Borgonia — Signature: Joe Borgonia — Month Day Year: 09 05 90

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: ROBERT LOPEZ — Signature: Robert Lopez — Month Day Year: 09 05 90

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Month Day Year:

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: HAZ/CONTROL Perwiz Siddiqui — Signature: P. Siddiqui — Month Day Year: 09 07 90

DHS 8022 A (1/88)
EPA 8700—22
(Rev. 9-88) Previous editions are obsolete.

Do Not Write Below This Line

White: TSDF SENDS THIS COPY TO DOHS WITHIN 30 DAYS

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550

88248442

ATTACHMENT II-D

State of California—Health and Welfare Agency
Form Approved OMB No. 2050—0039 (Expires 9-30-91)
Please print or type. *(Form designed for use on elite (12-pitch typewriter).*

See Instructions on Back of Page 6 and Front of Page 7

Department of Health Services
Toxic Substances Control Division
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: C A D 0 0 0 0 6 2 8 1 4 9 | Manifest Document No.: 4 7 4 3 4

2. Page 1 of 11 | Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
HAZ/CONTROL, INC.
731 RENZ LANE
GILROY, CA 95020

4. Generator's Phone (800) 338-5426

A. State Manifest Document Number: 88247434

B. State Generator's ID: H A H G 3 6 0 1 0 0 8 4

5. Transporter 1 Company Name: STAMCO
6. US EPA ID Number: C A D 0 6 3 5 4 7 9 9 6
C. State Transporter's ID: 005741
D. Transporter's Phone: (408) 683-2395

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
CYPRUS MIAMI MINING CORP.
U.S. HIGHWAY 60/70
CLAYPOOL, AZ 85532
10. US EPA ID Number: A Z D 0 6 0 6 2 4 2 5 1
G. State Facility's ID: A Z D 0 6 0 6 2 4 2 5 1
H. Facility's Phone: (602) 473-7135

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. HAZARDOUS WASTE, SOLID, N.O.S. ORM-E NA 9189 RQ1# (F006)	0 1 2	C M	3 0 3 7 0	P	State 171 / EPA/Other F006
b.					State / EPA/Other
c.					State / EPA/Other
d.					State / EPA/Other

J. Additional Descriptions for Materials Listed Above
11a. METAL HYDROZIDE SLUDGE CONTAINING COPPER, NICKEL, TIN, LEAD, IRON, CHROME

K. Handling Codes for Wastes Listed Above
a. D1
b.
c.
d.

15. Special Handling Instructions and Additional Information
LOAD MADE UP OF THE FOLLOWING GENERATORS:
SYMTRON #89746160 BIN#16 MODESTO PLATING #88247456 BIN#03
ARTEC #89680584 BIN#03 SURFACE MOUNTED TECH. #88433829 BIN#03
DUBLIN MULTIL. #88248442 BIN#03 H/C P.O.#0001591 Box 16 I.D.# 005776
Box 3 I.D.# 005738

16.

GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a goood faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

GENERATOR

Printed/Typed Name: HAZ/CONTROL, INC. PERWAIZ SIDDIQUI
Signature:
Month Day Year: 09 14 90

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Thom Fox
Signature: Thom Fox
Month Day Year: 09 14 90

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Month Day Year:

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Denver A Woods
Signature: Denver A Woods
Month Day Year: 09 18 90

EPA 8700—22
(Rev. 9-88) Previous editions are obsolete.

Do Not Write Below This Line

White: TSDF SENDS THIS COPY TO DOHS WITHIN 30 DAYS
To: P.O. Box 3000, Sacramento, CA

ATTACHMENT
II-E

Approved OMB No. 2050—0039 (Expires 9-30-91)
Please print or type. (Form designed for use on elite (12-pitch typewriter).

Toxic Substances Control Division
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. | Manifest Document No.

2. Page 1 of

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
Dublin Multilayer, Inc.
6341 Scarlett Court Dublin, CA 94568
4. Generator's Phone (415) 829-1[illegible]

A. State Manifest Document Number: 90203930

B. State Generator's ID: [illegible]

5. Transporter 1 Company Name | 6. US EPA ID Number
DECON Environmental Services Inc

C. State Transporter's ID: 103694
D. Transporter's Phone: 415-732-[illegible]

7. Transporter 2 Company Name | 8. US EPA ID Number

E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address | 10. US EPA ID Number
Solvent Services, Inc.
1041 Berryessa Rd.
San Jose, CA 95133

G. State Facility's ID: CAD059419431 9
H. Facility's Phone: 408-[illegible]

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. Waste Acids, Liquid, [illegible], Corrosive Material, NA1760 (Contains Chromic)					State: 7[illegible] EPA/Other: [illegible]
b. Waste Oxidizer, Corrosive, Liquid, N.O.S., Oxidizer, NA9152 (Contains potassium hydroxide)					State: [illegible] EPA/Other: [illegible]
c.					State: EPA/Other:
d.					State: EPA/Other:

J. Additional Descriptions for Materials Listed Above
A. Spent chromic Acid CL1965
B. Spent black oxide solution CL1966

K. Handling Codes for Wastes Listed Above
a. 99 b. 99
c. d.

15. Special Handling Instructions and Additional Information
CAUTION Corrosive Materials and Oxidizer.
Keep cool, wear appropriate protective equipment and clothing
Generator's 24-hr emergency [illegible]

Ka, L) 99/15/01/02

16.

GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name	Signature	Month	Day	Year
[illegible]	[illegible]	9	17	91

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space
116) ID # should be [illegible] NA 9193.
C) Transporter's ID No. Missing
H) (408) 453-6046

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
Cherri Pedro	Cherri Pedro	10	14	90

Do Not Write Below This Line

TSDF SOBS DOES CARRY GENERATOR WORK 30

ATTACHMENT II-F

EPA Form 8022 A (1/88)
EPA Form 8700—22
(Rev. 9-88) Previous editions are obsolete.

GENERATOR
TRANSPORTER
FACILITY

III. CHAIN OF CUSTODY FORMS AND LAB REPORTS

ATTACHMENTS

III-A. Chain of Custody/Blaine Tech Services with Sequoia Analytical lab report (03-08-90)

III-B. Chain of Custody/Decon Enviromental with Superior Analytical lab reports (03-01-90 through 05-01-90)

III-C. Chain of Custody/Western Geologic Resources with BC Analytical lab reports (03-27-90 through 05-04-90)

III-D. Chain of Custody/Western Geologic Resources with BC Analytical lab reports (05-17-90 through 05-30-90)

III-E. Chain of Custody/Decon Environmental with Kenney/Jenks/Chilton lab report (08-23-90)

BLAINE
TECH SERVICES INC.

1370 TULLY ROAD, SUITE 505
SAN JOSE, CA 95122
(408) 995-5535

CHAIN OF CUSTODY # 900308K1

SITE SPECIFICATION DUBLIN MULTILAYER
6341 Scarlet Rd
Dublin, CA

(X) Bill BLAINE TECH SERVICES, Inc.
( ) Bill _____

SPECIAL INSTRUCTIONS
any values greater than 10 times STLC, RUN an STLC on "Hold" compan sample

SAMPLE I.D.	QUANTITY	TYPE	OK	ANALYSIS TO DETECT	STATUS	RESULTS	LAB NUMBER
1	1	wipe		CR Cu Pb Ni	Routine		
Companion 2	1				hold		
3	1				Routine		
Companion 4	1				hold		
5	1				Routine		
Companion 6	1				hold		
7	1				Routine		
Companion 8	1				hold		

Field sampling was performed by John Kramer

Sampling was completed at 2:00 (NOON) AM/PM 03-08-1990

RELEASE OF SAMPLES FROM (name,time,date) ---->>>>> INTO THE CUSTODY OF (name,time,date)

from John Kramer @ 3:45 AM/PM 03/08/90 -> to [signature] @ 3:45 AM/PM 3/8-90

from _____ @ :__ AM/PM ____-90-> to _____ @ :__ AM/PM ____-90

from _____ @ :__ AM/PM ____-90-> to _____ @ :__ AM/PM ____-90

The laboratory designated to perform these analyses is: _____ DHS HMTL # _____
NOTE: Procedures and detection limits must confrom to RWQCB Region ____ specifications.
Please include chain of custody number and site specification on reports and invoices.

ATTACHMENT
III-A

SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Blaine Tech Services	Client Project ID:	#900308K1, Dublin Multilayer	Sampled:	Mar 8, 1990
1370 Tully Rd., Suite 505	Sample Descript:	Wipe #1	Received:	Mar 8, 1990
San Jose, CA 95122				
Attention: Richard Blaine	Lab Number:	003-1118	Reported:	Mar 19, 1990

LABORATORY ANALYSIS

Analyte	Detection Limit mg/kg	Sample Results mg/kg
Chromium	0.10	9.4
Copper	0.20	57
Lead	0.10	24
Nickel	1.0	3.9

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

Elizabeth W. Hackl
Project Manager

SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Blaine Tech Services	Client Project ID:	#900308K1, Dublin Multilayer	Sampled:	Mar 8, 1990
1370 Tully Rd., Suite 505	Sample Descript:	Wipe #3	Received:	Mar 8, 1990
San Jose, CA 95122				
Attention: Richard Blaine	Lab Number:	003-1119	Reported:	Mar 19, 1990

LABORATORY ANALYSIS

Analyte	Detection Limit mg/kg	Sample Results mg/kg
Chromium	0.10	15
Copper	0.20	44
Lead	0.10	24
Nickel	1.0	10

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

Elizabeth W. Hackl
Project Manager

SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Blaine Tech Services	Client Project ID:	#900308K1, Dublin Multilayer	Sampled:	Mar 8, 1990
1370 Tully Rd., Suite 505	Sample Descript:	Wipe #5	Received:	Mar 8, 1990
San Jose, CA 95122				
Attention: Richard Blaine	Lab Number:	003-1120	Reported:	Mar 19, 1990

LABORATORY ANALYSIS

Analyte	Detection Limit mg/kg	Sample Results mg/kg
Chromium	0.10	14
Copper	0.20	25
Lead	0.10	76
Nickel	1.0	4.3

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

Elizabeth W. Hackl
Project Manager

SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Blaine Tech Services	Client Project ID:	#900308K1, Dublin Multilayer	Sampled:	Mar 8, 1990
1370 Tully Rd., Suite 505	Sample Descript:	Wipe #7	Received:	Mar 8, 1990
San Jose, CA 95122				
Attention: Richard Blaine	Lab Number:	003-1121	Reported:	Mar 19, 1990

LABORATORY ANALYSIS

Analyte	Detection Limit mg/kg	Sample Results mg/kg
Chromium	0.10	30
Copper	0.20	32
Lead	0.10	31
Nickel	1.0	7.9

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

Elizabeth W. Hackl
Project Manager

SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Blaine Tech Services	Client Project ID:	#900308K1/Dublin Multilayer	Sampled:	Mar 8, 1990
1370 Tully Rd., Suite 505	Sample Descript:	Wipe	Received:	Mar 27, 1990
San Jose, CA 95122			Extracted:	Mar 28, 1990
Attention: Richard Blaine	Lab Number:	003-3720	Analyzed:	Apr 10, 1990
			Reported:	Apr 13, 1990

LABORATORY ANALYSIS OF STLC EXTRACT

Analyte	Detection Limit mg/L	Sample Results mg/L
Lead	0.0020	2.7

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

Elizabeth W. Hackl
Project Manager

CHAIN OF CUSTODY RECORD

PROJ. NO.	PROJECT NAME	P.O.#
	Dublin Multilayer	

SAMPLERS. (Signature)

Peter Lacy

Superior Analytical Inc.
1385 Fairfax, Suite D
San Francisco, CA 94124
(415) 647-2081

SAMPLE NO.	DATE	TIME	COMP	GRAB	SAMPLE LOCATION	MEDIA	ANALYSES REQ'D: Copper	Lead	Nickel	Zinc			DETECTION LIMIT	TURN-AROUND TIME	SUSPECTED CONTAMINANT
W301	3-1-90	10 AM		✓	Tank # P 7140	Water	✓	✓	✓	✓				48 hr	

TANK P 7140
OK for discharge
3-5-90

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Peter Lacy	3-1-90 5PM	Bruce Jacobs			
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Bruce Jacobs	3-2-90 9AM				
Relinquished by: (Signature)	Date / Time	Received for Laboratory by:	Date / Time	Remarks	

ATTACHMENT
III-B

SUPERIOR ANALYTICAL LABORATORY, INC.
1555 BURKE, UNIT 1 • SAN FRANCISCO, CA 94124 • PHONE (415) 647-2081

C E R T I F I C A T E O F A N A L Y S I S

LABORATORY NO.: 80598
CLIENT: Decon Environmental Services
CLIENT JOB NO.: DUBLIN MULT

DATE RECEIVED: 03/02/90
DATE REPORTED: 03/06/90

ANALYSIS FOR TOTAL LEAD
by SW-846 Method 7420

LAB #	Sample Identification	Concentration (mg/L) Total Lead
1	W301	ND<0.5

mg/L - parts per million (ppm)

Method Detection Limit for Lead in Soil: 10 mg/kg
Method Detection Limit for Lead in Water: 0.5 mg/L

QAQC Summary: MS/MSD Average Recovery : 62%
Duplicate RPD : 3%

Edward R. Morales

Laboratory Manager

SUPERIOR ANALYTICAL LABORATORY, INC.
1555 BURKE, UNIT 1 • SAN FRANCISCO, CA 94124 • PHONE (415) 647-2081

C E R T I F I C A T E O F A N A L Y S I S

LABORATORY NO.: 80598
CLIENT: Decon Environmental Services
CLIENT JOB NO.: DUBLIN MULT

DATE RECEIVED: 03/02/90
DATE REPORTED: 03/06/90

ANALYSIS FOR TOTAL ZINC
by SW-846 Method 7950

LAB #	Sample Identification	Concentration (mg/L) Total Zinc
1	W301	2.0

mg/L - parts per million (ppm)

Method Detection Limit for Zinc in Soil: 0.2 mg/kg
Method Detection Limit for Zinc in Water: 0.01 mg/L

QAQC Summary: MS/MSD Average Recovery : 128%
Duplicate RPD : 14%

Edward R. Morales

Laboratory Manager

SUPERIOR ANALYTICAL LABORATORY, INC.
1555 BURKE, UNIT 1 • SAN FRANCISCO, CA 94124 • PHONE (415) 647-2081

C E R T I F I C A T E O F A N A L Y S I S

LABORATORY NO.: 80598
CLIENT: Decon Environmental Services
CLIENT JOB NO.: DUBLIN MULT

DATE RECEIVED: 03/02/90
DATE REPORTED: 03/06/90

ANALYSIS FOR TOTAL ZINC
by SW-846 Method 7950

LAB #	Sample Identification	Concentration (mg/L) Total Zinc
1	W301	2.0

mg/L - parts per million (ppm)

Method Detection Limit for Zinc in Soil: 0.2 mg/kg
Method Detection Limit for Zinc in Water: 0.01 mg/L

QAQC Summary: MS/MSD Average Recovery : 128%
Duplicate RPD : 14%

Edward R. Morales

Laboratory Manager

SUPERIOR ANALYTICAL LABORATORY, INC.
1555 BURKE, UNIT 1 • SAN FRANCISCO, CA 94124 • PHONE (415) 647-2081

C E R T I F I C A T E O F A N A L Y S I S

LABORATORY NO.: 80598
CLIENT: Decon Environmental Services
CLIENT JOB NO.: DUBLIN MULT

DATE RECEIVED: 03/02/90
DATE REPORTED: 03/06/90

ANALYSIS FOR TOTAL ZINC
by SW-846 Method 7950

LAB #	Sample Identification	Concentration (mg/L) Total Zinc
1	W301	2.0

mg/L - parts per million (ppm)

Method Detection Limit for Zinc in Soil: 0.2 mg/kg
Method Detection Limit for Zinc in Water: 0.01 mg/L

QAQC Summary: MS/MSD Average Recovery : 128%
Duplicate RPD : 14%

Edward R. Morales

Laboratory Manager

DSRSD WASTEWATER TREATMENT FACILITY LABORATORY
INORGANIC/ORGANIC/WET CHEMISTRY ANALYSIS REPORT

Sample Code: DM-3-1
Sample Date: 3-1-90
Digestion Date: 3-1-90

Date Reported: 3-5-90

Date of Analysis	Method #	Parameter	Concentration in MG/L (unless otherwise noted)	Detection Limit in MG/L
/1/90	218.1	Chromium	<0.05	0.05
3/1/90	220.1	Copper	0.40	0.02
3/1/90	239.1	Lead	<0.10	0.10
/1/90	249.1	Nickel	0.21	0.04
3/1/90	289.1	Zinc	0.341	0.005
/5/90	335.2	Cyanide	0.05	0.01

Flordeliza A. Misra
Laboratory Supervisor

0818

CHAIN OF CUSTODY RECORD

PROJ. NO.	PROJECT NAME	P.O.#
	Dublin Multilayer	

SAMPLERS (Signature): Robert Gerber

Superior Analytical Inc.
1535 Fairlax, Suite D
San Francisco, CA 94124
(415) 847-2081

SAMPLE NO.	DATE	TIME	COMP.	GRAB	SAMPLE LOCATION	MEDIA	ANALYSES REQ'D: Copper	Nickel	Lead	Chromium	Zinc		DETECTION LIMIT	TURN-AROUND TIME	SUSPECTED CONTAMIN
L302	3-7-90			✓	Treated liquid in Tank #2 (P7162)	Water	✓	✓	✓	✓	✓			48-hour	

Tank P7162
ok for discharge
3-14-90

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Robert Gerber	3-6-90 10AM	Bruce Jacobre			
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by:	Date / Time	Remarks	

SUPERIOR ANALYTICAL LABORATORY, INC.
1555 BURKE, UNIT 1 • SAN FRANCISCO, CA 94124 • PHONE (415) 647-2081

C E R T I F I C A T E O F A N A L Y S I S

LABORATORY NO.: 80618
CLIENT: Decon Environmental Services
CLIENT JOB NO.: DUBLIN

DATE RECEIVED: 03/07/90
DATE REPORTED: 03/09/90

ANALYSIS FOR TOTAL CHROMIUM
by SW-846 Method 7190

LAB #	Sample Identification	Concentration (mg/L) Total Chromium
1	1302	ND<0.1

mg/L - parts per million (ppm)

Method Detection Limit for Chromium in Soil: 2 mg/kg
Method Detection Limit for Chromium in Water: 0.1 mg/L

QAQC Summary: MS/MSD Average Recovery : 83%
Duplicate RPD : 14%

Edward R. Morales

Laboratory Manager

SUPERIOR ANALYTICAL LABORATORY, INC.
1555 BURKE, UNIT 1 • SAN FRANCISCO, CA 94124 • PHONE (415) 647-2081

C E R T I F I C A T E O F A N A L Y S I S

LABORATORY NO.: 80618
CLIENT: Decon Environmental Services
CLIENT JOB NO.: DUBLIN

DATE RECEIVED: 03/07/90
DATE REPORTED: 03/09/90

ANALYSIS FOR TOTAL ZINC
by SW-846 Method 7950

LAB #	Sample Identification	Concentration (mg/L) Total Zinc
1	1302	0.22

mg/L - parts per million (ppm)

Method Detection Limit for Zinc in Soil: 0.2 mg/kg
Method Detection Limit for Zinc in Water: 0.01 mg/L

QAQC Summary: MS/MSD Average Recovery : 118%
Duplicate RPD : 5%

Edward R. Morales

Laboratory Manager

SUPERIOR ANALYTICAL LABORATORY, INC.
1555 BURKE, UNIT 1 • SAN FRANCISCO, CA 94124 • PHONE (415) 647-2081

C E R T I F I C A T E O F A N A L Y S I S

LABORATORY NO.: 80618
CLIENT: Decon Environmental Services
CLIENT JOB NO.: DUBLIN

DATE RECEIVED: 03/07/90
DATE REPORTED: 03/09/90

ANALYSIS FOR TOTAL ZINC
by SW-846 Method 7950

LAB #	Sample Identification	Concentration (mg/L) Total Zinc
1	1302	0.22

mg/L - parts per million (ppm)

Method Detection Limit for Zinc in Soil: 0.2 mg/kg
Method Detection Limit for Zinc in Water: 0.01 mg/L

QAQC Summary: MS/MSD Average Recovery : 118%
Duplicate RPD : 5%

Edward R. Morales

Laboratory Manager

SUPERIOR ANALYTICAL LABORATORY, INC.
1555 BURKE, UNIT 1 • SAN FRANCISCO, CA 94124 • PHONE (415) 647-2081

CERTIFICATE OF ANALYSIS

LABORATORY NO.: 80618
CLIENT: Decon Environmental Services
CLIENT JOB NO.: DUBLIN

DATE RECEIVED: 03/07/90
DATE REPORTED: 03/09/90

ANALYSIS FOR TOTAL LEAD
by SW-846 Method 7420

LAB #	Sample Identification	Concentration (mg/L) Total Lead
1	1302	2.3

mg/L - parts per million (ppm)

Method Detection Limit for Lead in Soil: 10 mg/kg
Method Detection Limit for Lead in Water: 0.5 mg/L

QAQC Summary: MS/MSD Average Recovery : 113%
Duplicate RPD : 6%

Edward R. Morales

Laboratory Manager

SUPERIOR ANALYTICAL LABORATORY, INC.
1555 BURKE, UNIT 1 • SAN FRANCISCO, CA 94124 • PHONE (415) 647-2081

C E R T I F I C A T E O F A N A L Y S I S

LABORATORY NO.: 80618
CLIENT: Decon Environmental Services
CLIENT JOB NO.: DUBLIN

DATE RECEIVED: 03/07/90
DATE REPORTED: 03/09/90

ANALYSIS FOR TOTAL NICKEL
by SW-846 Method 7520

LAB #	Sample Identification	Concentration (mg/L) Total Nickel
1	1302	2.8

mg/L - parts per million (ppm)

Method Detection Limit for Nickel in Soil: 10 mg/kg
Method Detection Limit for Nickel in Water: 0.5 mg/L

QAQC Summary: MS/MSD Average Recovery : 103%
Duplicate RPD : 4%

Edward R. Morales

Laboratory Manager

DSRSD WASTEWATER TREATMENT FACILITY LABORATORY
INORGANIC/ORGANIC/WET CHEMISTRY ANALYSIS REPORT

ample Code: DM-3-6 Date Reported: 3-13-90
Sample Date: 3-6-90
Digestion Date: 3-6-90

Date of nalysis	Method #	Parameter	Concentration in MG/L (unless otherwise noted)	Detection Limit in MG/L
/13/90	218.1	Chromium	<0.05	0.05
/13/90	220.1	Copper	3.32	0.02
3/13/90	239.1	Lead	<0.10	0.10
/13/90	249.1	Nickel	1.56	0.04
3/13/90	289.1	Zinc	0.189	0.005
/13/90	335.2	Cyanide	0.50	0.01

Florderiza A. Misra
lordeliza A. Misra
Laboratory Supervisor

80623

CHAIN OF CUSTODY RECORD

PROJ. NO.	PROJECT NAME	P.O.#
	Dublin Multilayer	

SAMPLERS. (Signature)

Superior Analytical Inc.
1535 Fairlax, Suite D
San Francisco, CA 94124
(415) 647-2081

SAMPLE ID	DATE	TIME	COMP.	GRAB	SAMPLE LOCATION	MEDIA	ANALYSES REQ'D: copper	nickel	lead	chromium	zinc	DETECTION LIMIT	TURN-AROUND TIME	SUSPECTED CONTAMINANTS
L304	3-9-90	3PM		✓	Tank #4 (P4036)	Water	✓	✓	✓	✓	✓		48-hour	

Tank P4036
OK to discharge
3-13-90

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	3-9-90 5:30PM	[signature]			
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by:	Date / Time	Remarks	

SUPERIOR ANALYTICAL LABORATORY, INC.
1385 FAIRFAX ST., STE. D. • SAN FRANCISCO, CA 94124 • PHONE (415) 647-2081

C E R T I F I C A T E O F A N A L Y S I S

LABORATORY NO.: 80623
CLIENT: Decon Environmental Services
CLIENT JOB NO.: L304

DATE RECEIVED: 03/09/90
DATE REPORTED: 03/13/90

ANALYSIS FOR TOTAL CHROMIUM
by SW-846 Method 7190

LAB #	Sample Identification	Concentration (mg/L) Total Chromium
1	L304	ND<0.1

mg/L - parts per million (ppm)

Method Detection Limit for Chromium in Soil: 2 mg/kg
Method Detection Limit for Chromium in Water: 0.1 mg/L

QAQC Summary: MS/MSD Average Recovery : 98%
Duplicate RPD : 8%

Edward R. Morales

Laboratory Manager

OUTSTANDING QUALITY AND SERVICE

SUPERIOR ANALYTICAL LABORATORY, INC.
1385 FAIRFAX ST., STE. D. • SAN FRANCISCO, CA 94124 • PHONE (415) 647-2081

C E R T I F I C A T E O F A N A L Y S I S

LABORATORY NO.: 80623
CLIENT: Decon Environmental Services
CLIENT JOB NO.: L304

DATE RECEIVED: 03/09/90
DATE REPORTED: 03/13/90

ANALYSIS FOR TOTAL COPPER
by SW-846 Method 7210

LAB #	Sample Identification	Concentration (mg/L) Total Copper
1	L304	0.5

mg/L - parts per million (ppm)

Method Detection Limit for Copper in Soil: 2 mg/kg
Method Detection Limit for Copper in Water: 0.1 mg/L

QAQC Summary: MS/MSD Average Recovery : 90%
Duplicate RPD : 3%

Edward R. Morales

Laboratory Manager

OUTSTANDING QUALITY AND SERVICE

SUPERIOR ANALYTICAL LABORATORY, INC.
1385 FAIRFAX ST., STE. D. • SAN FRANCISCO, CA 94124 • PHONE (415) 647-2081

CERTIFICATE OF ANALYSIS

LABORATORY NO.: 80623
CLIENT: Decon Environmental Services
CLIENT JOB NO.: L304

DATE RECEIVED: 03/09/90
DATE REPORTED: 03/13/90

ANALYSIS FOR TOTAL NICKEL
by SW-846 Method 7520

LAB #	Sample Identification	Concentration (mg/L) Total Nickel
1	L304	0.5

mg/L - parts per million (ppm)

Method Detection Limit for Nickel in Soil: 10 mg/kg
Method Detection Limit for Nickel in Water: 0.5 mg/L

QAQC Summary: MS/MSD Average Recovery : 109%
Duplicate RPD : 3%

Edward R. Morales

Laboratory Manager

SUPERIOR ANALYTICAL LABORATORY, INC.
1385 FAIRFAX ST., STE. D. • SAN FRANCISCO, CA 94124 • PHONE (415) 647-2081

CERTIFICATE OF ANALYSIS

LABORATORY NO.: 80623
CLIENT: Decon Environmental Services
CLIENT JOB NO.: L304

DATE RECEIVED: 03/09/90
DATE REPORTED: 03/13/90

ANALYSIS FOR TOTAL LEAD
by SW-846 Method 7420

LAB #	Sample Identification	Concentration (mg/L) Total Lead
1	L304	ND<0.5

mg/L - parts per million (ppm)

Method Detection Limit for Lead in Soil: 10 mg/kg
Method Detection Limit for Lead in Water: 0.5 mg/L

QAQC Summary: MS/MSD Average Recovery : 111%
Duplicate RPD : 6%

Edward R. Morales

Laboratory Manager

OUTSTANDING QUALITY AND SERVICE

SUPERIOR ANALYTICAL LABORATORY, INC.
1385 FAIRFAX ST., STE. D. • SAN FRANCISCO, CA 94124 • PHONE (415) 647-2081

C E R T I F I C A T E O F A N A L Y S I S

LABORATORY NO.: 80623
CLIENT: Decon Environmental Services
CLIENT JOB NO.: L304

DATE RECEIVED: 03/09/90
DATE REPORTED: 03/13/90

ANALYSIS FOR TOTAL ZINC
by SW-846 Method 7950

LAB #	Sample Identification	Concentration (mg/L) Total Zinc
1	L304	0.08

mg/L - parts per million (ppm)

Method Detection Limit for Zinc in Soil: 0.2 mg/kg
Method Detection Limit for Zinc in Water: 0.01 mg/L

QAQC Summary: MS/MSD Average Recovery : 116%
Duplicate RPD : 5%

Edward R. Morales

Laboratory Manager

DSRSD WASTEWATER TREATMENT FACILITY LABORATORY
INORGANIC/ORGANIC/WET CHEMISTRY ANALYSIS REPORT

Sample Code: DM-P4036
Sample Date: 3-9-90
Digestion Date: 3-9-90

Date Reported: 3-13-90

Date of Analysis	Method #	Parameter	Concentration in MG/L (unless otherwise noted)	Detection Limit in MG/L
3/13/90	218.1	Chromium	<0.05	0.05
3/13/90	220.1	Copper	0.14	0.02
3/13/90	239.1	Lead	<0.10	0.10
3/13/90	249.1	Nickel	0.38	0.04
3/13/90	289.1	Zinc	0.089	0.005
3/13/90	335.2	Cyanide	<0.01	0.01

Flordeliza A. Misra
Laboratory Supervisor

80709

Decon

CHAIN OF CUSTODY RECORD

PROJ. NO.	PROJECT NAME	P.O.#
	Dublin Multilayer	

SAMPLERS. (Signature)
Bruce Jacobs / Peter Seboe

Superior Analytical Inc.
1535 Fairfax, Suite D
San Francisco, CA 94124
(415) 647-2081

SAMPLE ID	DATE	TIME	COMP	GRAB	SAMPLE LOCATION	MEDIA	ANALYSES REQ'D: Chromium	DETECTION LIMIT	TURN-AROUND TIME	SUSPECTED CONTAMINANT
P4066A	4.4.90	9 AM		✓	Tank P4066A	Water	✓			
P4066B	4.4.90	9 AM		✓	" " B w/ Sulfide	"	✓			

Tank P4066
OK for discharge
4-12-90

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Bruce Jacobs	4.4.90 9:30AM				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
					4/4/90

SUPERIOR ANALYTICAL LABORATORY, INC.
1555 BURKE, UNIT I · SAN FRANCISCO, CA 94124 · PHONE (415) 647-2081

CERTIFICATE OF ANALYSIS

LABORATORY NO.: 80709
CLIENT: Decon Environmental Services
CLIENT JOB NO.: DUBLIN MULTILAYER

DATE RECEIVED: 04/04/90
DATE REPORTED: 04/11/90

ANALYSIS FOR TOTAL CHROMIUM
by SW-846 Method 7190

LAB #	Sample Identification	Concentration(mg/L) Total Chromium
1	P4066A	2.7
2	P4066B	2.5

mg/L - parts per million (ppm)

Method Detection Limit for Chromium in Soil: 2 mg/Kg
Method Detection Limit for Chromium in Water: 0.1 mg/L

QAQC Summary: MS/MSD Average Recovery : 94%
Duplicate RPD : 13%

Edward R. Morales

Laboratory Manager

other results via DSRWTP

225

Project No. ~~DUBLIN MULTILAYER~~ (P4066-Pb)

Project Name DUBLIN MULTILAYER

Samplers PETER SCHOEN

P.O. No.

Superior Analytical Laboratory
825 Arnold Dr. Bay 2
Martinez, CA 94553
(415) 229-1512

Sample Number	Date	Time	Location	Matrix	Number of Containers	Sample Preservation	TPH as Gasoline	BTXE	TPH as Diesel	Oil & Grease	8010	8240	TEST FOR Pb, Cr, Zn, Cu, Ni		
P4066-Pb	5-1-90	8:45	DUBLIN MULTILAYER, DUBLIN, CA		1								X		

Tank P4066
OK for discharge
1st week of June

Relinquished By (Signature)	Date/Time	Received By (Signature)	Date/Time	REMARKS:
1. Peter Schoen	5-1-90/13:10	1.		Please have results in 48 hrs.
2.		2.		
3.		3.		
4.		4. [signature]	5-1-90 13:10	

SUPERIOR ANALYTICAL LABORATORY, INC.
1555 BURKE, UNIT I • SAN FRANCISCO, CA 94124 • PHONE (415) 647-2081

CERTIFICATE OF ANALYSIS

LABORATORY NO.: 80301
CLIENT: Decon Environmental Services
CLIENT JOB NO.: NA

DATE RECEIVED:05/02/90
DATE REPORTED:05/04/90

ANALYSIS FOR TOTAL ZINC
by SW-846 Method 7950

LAB #	Sample Identification	Concentration(mg/L) Total Zinc
1	p4056- pb;DUBLIN, MULTILAYER	3.4

mg/L - parts per million (ppm)

Method Detection Limit for Zinc in Water: 0.01 mg/L

QAQC Summary: MS/MSD Average Recovery : 110%
Duplicate RPD : 0

Richard Srna, Ph.D.

Laboratory Manager

SUPERIOR ANALYTICAL LABORATORY, INC.
1555 BURKE, UNIT I • SAN FRANCISCO, CA 94124 • PHONE (415) 647-2081

CERTIFICATE OF ANALYSIS

LABORATORY NO.: 80801
CLIENT: Decon Environmental Services
CLIENT JOB NO.: NA

DATE RECEIVED: 05/02/90
DATE REPORTED: 05/04/90

ANALYSIS FOR TOTAL CHROMIUM
by SW-846 Method 7190

LAB #	Sample Identification	Concentration (mg/L) Total Chromium
1	p4066- pb;DUBLIN, MULTILAYER	4.6

mg/L - parts per million (ppm)

Method Detection Limit for Chromium in Water: 0.1 mg/L

QACC Summary: MS/MSD Average Recovery : 110%
Duplicate RPD : 3

Richard Grna, Ph.D.

Laboratory Manager

SUPERIOR ANALYTICAL LABORATORY, INC.
1555 BURKE, UNIT I • SAN FRANCISCO, CA 94124 • PHONE (415) 647-2081

CERTIFICATE OF ANALYSIS

LABORATORY NO.: 20801
CLIENT: Decon Environmental Services
CLIENT JOB NO.: NA

DATE RECEIVED:05/02/90
DATE REPORTED:05/04/90

ANALYSIS FOR TOTAL LEAD
by SW-846 Method 7420

LAB #	Sample Identification	Concentration(mg/L) Total Lead
1	p4066- pb;DUBLIN, MULTILAYER	2.0

mg/L - parts per million (ppm)

Method Detection Limit for Lead in Water: 0.5 mg/L

QAQC Summary: MS/MSD Average Recovery : 113%
Duplicate RPD : 8

Richard Scott, Ph.D.

Laboratory Manager

SUPERIOR ANALYTICAL LABORATORY, INC.
1555 BURKE, UNIT I • SAN FRANCISCO, CA 94124 • PHONE (415) 647-2081

CERTIFICATE OF ANALYSIS

LABORATORY NO.: 30801
CLIENT: Decon Environmental Services
CLIENT JOB NO.: NA

DATE RECEIVED:05/02/90
DATE REPORTED:05/04/90

ANALYSIS FOR TOTAL COPPER
by SW-846 Method 7210

LAB #	Sample Identification	Concentration(mg/L) Total Copper
1	p4066- pb;DUBLIN, MULTILAYER	ND 0.1

mg/L - parts per million (ppm)

Method Detection Limit for Copper in Water: 0.1 mg/L

QAQC Summary: MS/MSD Average Recovery : 94%
Duplicate RPD : 10

Richard Grina, Ph.D.
Dorena Rocle for
Laboratory Manager

SUPERIOR ANALYTICAL LABORATORY, INC.
1555 BURKE, UNIT I • SAN FRANCISCO, CA 94124 • PHONE (415) 647-2081

C E R T I F I C A T E O F A N A L Y S I S

LABORATORY NO.: 90801
CLIENT: Decon Environmental Services
CLIENT JOB NO.: NA

DATE RECEIVED:05/02/90
DATE REPORTED:05/04/90

ANALYSIS FOR TOTAL NICKEL
by SW-846 Method 7520

LAB #	Sample Identification	Concentration(mg/L) Total Nickel
1	p4056- pb;DUBLIN, MULTILAYER	15

mg/L - parts per million (ppm)

Method Detection Limit for Nickel in Water: 0.5 mg/L

QAQC Summary: MS/MSD Average Recovery : 101%
Duplicate RPD : 20

Richard Srna, Ph.D.

Laboratory Manager

SUPERIOR ANALYTICAL LABORATORY, INC.
1555 BURKE, UNIT I • SAN FRANCISCO, CA 94124 • PHONE (415) 647-2081

CERTIFICATE OF ANALYSIS

LABORATORY NO.: 80922
CLIENT: Decon Environmental Services
CLIENT JOB NO.: DUBLIN MULT.

DATE RECEIVED:05/29/90
DATE REPORTED:05/30/90

ANALYSIS FOR TOTAL NICKEL
by SW-846 Method 7520

LAB #	Sample Identification	Concentration(mg/L) Total Nickel
1	707	1.2

mg/L - parts per million (ppm)

Method Detection Limit for Nickel in Water: 0.5 mg/L

QAQC Summary: MS/MSD Average Recovery : 98%
Duplicate RPD : 1

Richard Srna, Ph.D.
Laboratory Manager

Chain of Custody Record

80922

Project No. _____

Project Name Dublin Multilayer

Samplers Peter Schoen / Bruce Jacobs

P.O. No. _____

Superior Analytical Laboratory
825 Arnold Dr. Bay 2
Martinez, CA 94553
(415) 229-1512

Sample Number	Date	Time	Location	Matrix	Number of Containers	Sample Preservation	TPH as Gasoline	BTXE	TPH as Diesel	Oil & Grease	8010	8240	Nickel		
717	5-26-90		Baker Tank	Water									✓		24hr Rush

Relinquished By (Signature)	Date/Time	Received By (Signature)	Date/Time	REMARKS:
1. Bruce Jacobs	5-29-90	1.		
2.		2.		
3.		3.		
4.		4. Dawn Rode	5-29-90 1010	

Sampler Copy

CHAIN OF CUSTODY

WESTERN GEOLOGIC RESOURCES, INC.
2169 E. Francisco Boulevard, Suite B
San Rafael, California 94901
415/457-7595 Fax: 415/457-8521

General Remarks

Laboratory: BROWN + CALD WELL
Log No.: [illegible]
Address: 1255 POWELL ST, EMERYVILLE, CA, 94608
Project No.: 26-273.01
Project Name: DUBLIN MULTILAYER
Project Mgr / Contact: ED BUSKIRK / STEVE WILLIAMS
Sampler(s): MARK FRYE

Lab Sample Number	Date Sampled	Sample Type See expl 1	Container Type See expl 2	Preservative	Sample Description	Number of Containers	TOTAL	Cr, Pb, Ni, Cr+HEX. Cr	CAM METALS + Cu, HEX. Cr	EPA 8240	EPA 8270	PH		Turn Around Required See expl 3	Remarks
	3.27.90	SO	GLASS JAR	ICED	S1	2	X							N	IF TOTALS
					S2										EXCEED STLC
					S3										FOR ANY GIVEN
					S4			3							METAL, PLEASE
					S5	4		X	X	X	X				RUN WET TEST FOR
												THAT METAL			AS WELL.

Sample Relinquished By	Date / Time	Received By	Date / Time
Mark Frye (WGR)	3.27.90 11:40	[signature]	[illegible]

Explanation

1 SO--Soil NA--Nonaqueous GW--Groundwater SL--Sludge PE--Petroleum VP--Vapor AQ--Aqueous DT--Other

2 T--Brass Tube P--Plastic Bottle V--VOA Bottle B--Bag G--Glass Bottle OT--Other

3 N--Normal (2wks) W--1 Wk R--24 hr Rush H--Hold

White / Project File Canary / Sampler

ATTACHMENT III-C

Analytical Report

LOG NO: E90-03-859

Received: 27 MAR 90
Reported: 18 APR 90

Mr. Ed Buskirk
Western Geologic Resources, Inc.
2169 East Francisco, Suite B
San Rafael, California 94901

Project: 26-273.01

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, SOIL SAMPLES	DATE SAMPLED
03-859-1	S1	27 MAR 90
03-859-2	S2	27 MAR 90
03-859-3	S3	27 MAR 90
03-859-4	S4	27 MAR 90
03-859-5	S6	27 MAR 90

PARAMETER	03-859-1	03-859-2	03-859-3	03-859-4	03-859-5
Fourteen CAM Metals by ICAP					
Silver, mg/kg	---	---	---	---	<0.4
Barium, mg/kg	---	---	---	---	190
Beryllium, mg/kg	---	---	---	---	<0.2
Cadmium, mg/kg	---	---	---	---	4.5
Cobalt, mg/kg	---	---	---	---	11
Chromium, mg/kg	---	---	---	---	680
Copper, mg/kg	---	---	---	---	270
Molybdenum, mg/kg	---	---	---	---	<2
Nickel, mg/kg	---	---	---	---	52
Lead, mg/kg	---	---	---	---	<6
Antimony, mg/kg	---	---	---	---	5.2
Thallium, mg/kg	---	---	---	---	<4
Vanadium, mg/kg	---	---	---	---	54
Zinc, mg/kg	---	---	---	---	66
Arsenic, mg/kg	---	---	---	---	3.4
Mercury, mg/kg	---	---	---	---	<0.001
Selenium, mg/kg	---	---	---	---	<0.4
Nitric Acid Digestion, Date	---	---	---	---	04.06.90
Chromium, Hexavalent, mg/kg	<5	<5	<5	<5	<5
pH, Units	---	---	---	---	7.0
Cyanide, mg/kg	---	---	---	---	1.4
Chromium, mg/kg	46	250	79	59	---

1255 Powell Street
Emeryville, CA 94608

415/428-2300
Fax: 415/547-3643

BCA *B C Analytical*

Analytical Report

LOG NO: E90-03-859

Received: 27 MAR 90
Reported: 18 APR 90

Mr. Ed Buskirk
Western Geologic Resources, Inc.
2169 East Francisco, Suite B
San Rafael, California 94901

Project: 26-273.01

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, SOIL SAMPLES	DATE SAMPLED
03-859-1	S1	27 MAR 90
03-859-2	S2	27 MAR 90
03-859-3	S3	27 MAR 90
03-859-4	S4	27 MAR 90
03-859-5	S6	27 MAR 90

PARAMETER	03-859-1	03-859-2	03-859-3	03-859-4	03-859-5
B/N,A Ext.Pri.Poll. (EPA-8270)					
Date Analyzed	---	---	---	---	04.05.90
Date Extracted	---	---	---	---	04.04.90
Dilution Factor, Times	---	---	---	---	1
1,2,4-Trichlorobenzene, mg/kg	---	---	---	---	<0.03
1,2-Dichlorobenzene, mg/kg	---	---	---	---	<0.03
1,2-Diphenylhydrazine, mg/kg	---	---	---	---	<0.03
1,3-Dichlorobenzene, mg/kg	---	---	---	---	<0.03
1,4-Dichlorobenzene, mg/kg	---	---	---	---	<0.03
2,4,5-Trichlorophenol, mg/kg	---	---	---	---	<0.03
2,4,6-Trichlorophenol, mg/kg	---	---	---	---	<0.03
2,4-Dichlorophenol, mg/kg	---	---	---	---	<0.03
2,4-Dimethylphenol, mg/kg	---	---	---	---	<0.03
2,4-Dinitrophenol, mg/kg	---	---	---	---	<0.3
2,4-Dinitrotoluene, mg/kg	---	---	---	---	<0.03
2,6-Dinitrotoluene, mg/kg	---	---	---	---	<0.03
2-Chloronaphthalene, mg/kg	---	---	---	---	<0.03
2-Chlorophenol, mg/kg	---	---	---	---	<0.03
2-Methyl-4,6-dinitrophenol, mg/kg	---	---	---	---	<0.03
2-Methylnaphthalene, mg/kg	---	---	---	---	<0.03
2-Methylphenol, mg/kg	---	---	---	---	<0.03
2-Nitroaniline, mg/kg	---	---	---	---	<0.2
2-Nitrophenol, mg/kg	---	---	---	---	<0.03

Analytical Report

LOG NO: E90-03-859

Received: 27 MAR 90
Reported: 18 APR 90

Mr. Ed Buskirk
Western Geologic Resources, Inc.
2169 East Francisco, Suite B
San Rafael, California 94901

Project: 26-273.01

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, SOIL SAMPLES	DATE SAMPLED
03-859-1	S1	27 MAR 90
03-859-2	S2	27 MAR 90
03-859-3	S3	27 MAR 90
03-859-4	S4	27 MAR 90
03-859-5	S6	27 MAR 90

PARAMETER	03-859-1	03-859-2	03-859-3	03-859-4	03-859-5
3,3'-Dichlorobenzidine, mg/kg	---	---	---	---	<0.03
3-Nitroaniline, mg/kg	---	---	---	---	<0.2
4-Bromophenylphenylether, mg/kg	---	---	---	---	<0.03
4-Chloro-3-methylphenol, mg/kg	---	---	---	---	<0.03
4-Chloroaniline, mg/kg	---	---	---	---	<0.2
4-Chlorophenylphenylether, mg/kg	---	---	---	---	<0.03
4-Methylphenol, mg/kg	---	---	---	---	<0.03
4-Nitroaniline, mg/kg	---	---	---	---	<0.2
4-Nitrophenol, mg/kg	---	---	---	---	<0.7
Acenaphthene, mg/kg	---	---	---	---	<0.03
Acenaphthylene, mg/kg	---	---	---	---	<0.03
Aniline, mg/kg	---	---	---	---	<0.03
Anthracene, mg/kg	---	---	---	---	<0.03
Benzidine, mg/kg	---	---	---	---	<1
Benzo(a)anthracene, mg/kg	---	---	---	---	<0.03
Benzo(a)pyrene, mg/kg	---	---	---	---	<0.03
Benzo(b)fluoranthene, mg/kg	---	---	---	---	<0.03
Benzo(g,h,i)perylene, mg/kg	---	---	---	---	<0.03
Benzo(k)fluoranthene, mg/kg	---	---	---	---	<0.03
Benzyl alcohol, mg/kg	---	---	---	---	<0.2
Benzoic acid, mg/kg	---	---	---	---	<0.2
Butylbenzylphthalate, mg/kg	---	---	---	---	<0.03
Chrysene, mg/kg	---	---	---	---	<0.03

1255 Powell Street
Emeryville, CA 94608

415/428-2300
Fax: 415/547-3643

BCA *B C Analytical*

Analytical Report

LOG NO: E90-03-859

Received: 27 MAR 90
Reported: 18 APR 90

Mr. Ed Buskirk
Western Geologic Resources, Inc.
2169 East Francisco, Suite B
San Rafael, California 94901

Project: 26-273.01

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, SOIL SAMPLES	DATE SAMPLED
03-859-1	S1	27 MAR 90
03-859-2	S2	27 MAR 90
03-859-3	S3	27 MAR 90
03-859-4	S4	27 MAR 90
03-859-5	S6	27 MAR 90

PARAMETER	03-859-1	03-859-2	03-859-3	03-859-4	03-859-5
Di-n-octylphthalate, mg/kg	---	---	---	---	<0.03
Dibenzo(a,h)anthracene, mg/kg	---	---	---	---	<0.03
Dibenzofuran, mg/kg	---	---	---	---	<0.03
Dibutylphthalate, mg/kg	---	---	---	---	<0.03
Diethylphthalate, mg/kg	---	---	---	---	<0.03
Dimethylphthalate, mg/kg	---	---	---	---	<0.03
Fluoranthene, mg/kg	---	---	---	---	<0.03
Fluorene, mg/kg	---	---	---	---	<0.03
Hexachlorobenzene, mg/kg	---	---	---	---	<0.03
Hexachlorobutadiene, mg/kg	---	---	---	---	<0.03
Hexachlorocyclopentadiene, mg/kg	---	---	---	---	<0.03
Hexachloroethane, mg/kg	---	---	---	---	<0.03
Indeno(1,2,3-c,d)pyrene, mg/kg	---	---	---	---	<0.03
Isophorone, mg/kg	---	---	---	---	<0.03
N-Nitrosodimethylamine, mg/kg	---	---	---	---	<0.03
N-Nitrosodiphenylamine, mg/kg	---	---	---	---	<0.03
N-Nitrosodi-n-propylamine, mg/kg	---	---	---	---	<0.03
Nitrobenzene, mg/kg	---	---	---	---	<0.03
Naphthalene, mg/kg	---	---	---	---	<0.03
Phenanthrene, mg/kg	---	---	---	---	<0.03
Phenol, mg/kg	---	---	---	---	<0.03
Pentachlorophenol, mg/kg	---	---	---	---	<0.03
Pyrene, mg/kg	---	---	---	---	<0.03

Analytical Report

LOG NO: E90-03-859

Received: 27 MAR 90
Reported: 18 APR 90

Mr. Ed Buskirk
Western Geologic Resources, Inc.
2169 East Francisco, Suite B
San Rafael, California 94901

Project: 26-273.01

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, SOIL SAMPLES	DATE SAMPLED
03-859-1	S1	27 MAR 90
03-859-2	S2	27 MAR 90
03-859-3	S3	27 MAR 90
03-859-4	S4	27 MAR 90
03-859-5	S6	27 MAR 90

PARAMETER	03-859-1	03-859-2	03-859-3	03-859-4	03-859-5
Bis(2-chloroethoxy)methane, mg/kg	---	---	---	---	<0.03
Bis(2-chloroethyl)ether, mg/kg	---	---	---	---	<0.03
Bis(2-chloroisopropyl)ether, mg/kg	---	---	---	---	<0.03
Bis(2-ethylhexyl)phthalate, mg/kg	---	---	---	---	<3
Semi-Quantified Results **					
C8-C35 Hydrocarbon Matrix, mg/kg	---	---	---	---	100
Molecular Sulfur, mg/kg	---	---	---	---	1

** Quantification based upon comparison of total ion count of the compound with that of the nearest internal standard.

1255 Powell Street
Emeryville, CA 94608

415/428-2300
Fax: 415/547-3643

BCA B C Analytical

Analytical Report

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Mr. Ed Buskirk
Western Geologic Resources, Inc.
2169 East Francisco, Suite B
San Rafael, California 94901

Project: 26-273.01

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, SOIL SAMPLES	DATE SAMPLED
03-859-1	S1	27 MAR 90
03-859-2	S2	27 MAR 90
03-859-3	S3	27 MAR 90
03-859-4	S4	27 MAR 90
03-859-5	S6	27 MAR 90

PARAMETER	03-859-1	03-859-2	03-859-3	03-859-4	03-859-5
Purgeable Priority Pollutants					
Date Extracted	---	---	---	---	04.06.90
1,1,1-Trichloroethane, mg/kg	---	---	---	---	<0.2
1,1,2,2-Tetrachloroethane, mg/kg	---	---	---	---	<0.2
1,1,2-Trichloroethane, mg/kg	---	---	---	---	<0.2
1,1-Dichloroethane, mg/kg	---	---	---	---	<0.2
1,1-Dichloroethene, mg/kg	---	---	---	---	<0.2
1,2-Dichloroethane, mg/kg	---	---	---	---	<0.2
1,2-Dichloropropane, mg/kg	---	---	---	---	<0.2
1,3-Dichloropropene, mg/kg	---	---	---	---	<0.2
2-Chloroethylvinylether, mg/kg	---	---	---	---	<0.2
2-Hexanone, mg/kg	---	---	---	---	<2
Acetone, mg/kg	---	---	---	---	<2
Acrolein, mg/kg	---	---	---	---	<2
Acrylonitrile, mg/kg	---	---	---	---	<2
Bromodichloromethane, mg/kg	---	---	---	---	<0.2
Bromomethane, mg/kg	---	---	---	---	<0.2
Benzene, mg/kg	---	---	---	---	<0.2
Bromoform, mg/kg	---	---	---	---	<0.2
Chlorobenzene, mg/kg	---	---	---	---	<0.2
Carbon Tetrachloride, mg/kg	---	---	---	---	<0.2
Chloroethane, mg/kg	---	---	---	---	<0.2
Chloroform, mg/kg	---	---	---	---	<0.2

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Emeryville, CA 94608

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Fax: 415/547-3643

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Analytical Report

LOG NO: E90-03-859

Received: 27 MAR 90
Reported: 18 APR 90

Mr. Ed Buskirk
Western Geologic Resources, Inc.
2169 East Francisco, Suite B
San Rafael, California 94901

Project: 26-273.01

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, SOIL SAMPLES	DATE SAMPLED
03-859-1	S1	27 MAR 90
03-859-2	S2	27 MAR 90
03-859-3	S3	27 MAR 90
03-859-4	S4	27 MAR 90
03-859-5	S6	27 MAR 90

PARAMETER	03-859-1	03-859-2	03-859-3	03-859-4	03-859-5
Chloromethane, mg/kg	---	---	---	---	<0.2
Carbon Disulfide, mg/kg	---	---	---	---	<0.2
Dibromochloromethane, mg/kg	---	---	---	---	<0.2
Ethylbenzene, mg/kg	---	---	---	---	<0.2
Freon 113, mg/kg	---	---	---	---	0.4
Methyl ethyl ketone, mg/kg	---	---	---	---	<2
Methyl isobutyl ketone, mg/kg	---	---	---	---	<2
Methylene chloride, mg/kg	---	---	---	---	0.6
Styrene, mg/kg	---	---	---	---	<0.2
Trichloroethene, mg/kg	---	---	---	---	2.9
Trichlorofluoromethane, mg/kg	---	---	---	---	<0.2
Toluene, mg/kg	---	---	---	---	<0.2
Tetrachloroethene, mg/kg	---	---	---	---	0.3
Vinyl acetate, mg/kg	---	---	---	---	<0.2
Vinyl chloride, mg/kg	---	---	---	---	<0.2
Total Xylene Isomers, mg/kg	---	---	---	---	0.2
cis-1,2-Dichloroethene, mg/kg	---	---	---	---	0.3
trans-1,2-Dichloroethene, mg/kg	---	---	---	---	<0.2
trans-1,3-Dichloropropene, mg/kg	---	---	---	---	<0.2

Sim D. Lessley, Ph.D., Laboratory Director

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Project: 26-273.01

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, SOIL SAMPLES	DATE SAMPLED
03-859-1	S1	27 MAR 90
03-859-2	S2	27 MAR 90
03-859-3	S3	27 MAR 90
03-859-4	S4	27 MAR 90
03-859-5	S6	27 MAR 90

PARAMETER	03-859-1	03-859-2	03-859-3	03-859-4	03-859-5
Chloromethane, mg/kg	---	---	---	---	<0.2
Carbon Disulfide, mg/kg	---	---	---	---	<0.2
Dibromochloromethane, mg/kg	---	---	---	---	<0.2
Ethylbenzene, mg/kg	---	---	---	---	<0.2
Freon 113, mg/kg	---	---	---	---	0.4
Methyl ethyl ketone, mg/kg	---	---	---	---	<2
Methyl isobutyl ketone, mg/kg	---	---	---	---	<2
Methylene chloride, mg/kg	---	---	---	---	0.6
Styrene, mg/kg	---	---	---	---	<0.2
Trichloroethene, mg/kg	---	---	---	---	2.9
Trichlorofluoromethane, mg/kg	---	---	---	---	<0.2
Toluene, mg/kg	---	---	---	---	<0.2
Tetrachloroethene, mg/kg	---	---	---	---	0.3
Vinyl acetate, mg/kg	---	---	---	---	<0.2
Vinyl chloride, mg/kg	---	---	---	---	<0.2
Total Xylene Isomers, mg/kg	---	---	---	---	0.2
cis-1,2-Dichloroethene, mg/kg	---	---	---	---	0.3
trans-1,2-Dichloroethene, mg/kg	---	---	---	---	<0.2
trans-1,3-Dichloropropene, mg/kg	---	---	---	---	<0.2

Sim D. Lessley, Ph.D., Laboratory Director

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Sampler Copy

CHAIN OF CUSTODY

WESTERN GEOLOGIC RESOURCES, INC.
2169 E. Francisco Boulevard, Suite B
San Rafael, California 94901
415/457-7595 Fax: 415/457-8521

General Remarks

Laboratory: BROWN + CALD WELL
Log No.: EH-93-0159

Address: 1255 POWELL ST, EMERYVILLE, CA, 94608

Project No.	Project Name	Project Mgr / Contact
26-273.01	DUBLIN MULTI LAYER	ED BUSKIRK / STEVE WILLIAMS

Sampler(s): MARK FRYE

Lab Sample Number	Date Sampled	Sample Type See expl 1	Container Type See expl 2	Preservative	Sample Description	Number of Containers	Analyses Requested: TOTAL Cr, Pb, Ni, Cr + Ni Cr	CAM METALS + CN, HEX. Cr	EPA 8260	EPA 8270	PH		Turn Around Required See expl 3	Remarks
	3.27.90	SO	GLASS JAR	ICED	S1	2	X						N	IF TOTALS
	↓	↓	↓	↓	S2	↓	↓						↓	EXCEED STLC
					S3									FOR ANY GIVEN
					S4									METAL, PLEASE
					S5	4		X	X	X	X			RUN WET TEST FOR
												THAT METAL		AS WELL.

Sample Relinquished By	Date / Time	Received By	Date / Time
Mark Frye (WGR)	3.27.90 11:46		

Explanation

1 SO--Soil, NA--Nonaqueous, GW--Groundwater, SL--Sludge, PE--Petroleum, VP--Vapor, AQ--Aqueous, OT--Other

2 T--Brass Tube, P--Plastic Bottle, V--VOA Bottle, B--Bag, G--Glass Bottle, OT--Other

3 N--Normal (2wks), W--1 Wk, R--24 hr Rush, H--Hold

Analytical Report

LOG NO: E90-04-437

Received: 17 APR 90
Reported: 04 MAY 90

Mr. Mark Frye
Western Geologic Resources, Inc.
2169 East Francisco, Suite B
San Rafael, California 94901

Project: 26-273.01

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, CALIF WASTE EXTRACT SAMPLES	DATE SAMPLED
04-437-1	S3 (Relog of 9003859-3)	27 MAR 90
04-437-2	S6 (Relog of 9003859-5)	27 MAR 90

PARAMETER	04-437-1	04-437-2
Chromium, mg/L	---	11
Copper, mg/L	31	1.1
Lead, mg/L	17	---
CAM WET Extraction, Date	04.25.90	04.25.90

Sim D. Lessley, Ph.D., Laboratory Director

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Analytical Report

LOG NO: E90-05-565

Received: 17 MAY 90
Reported: 21 MAY 90

Mr. Steve Williams
Western Geologic Resources, Inc.
2169 East Francisco, Suite B
San Rafael, California 94901

Project: 26-273-01

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, SOIL SAMPLES	DATE SAMPLED
05-565-1	B1-A,B,C,D,E Composite	17 MAY 90
05-565-2	B3-A,B,C,D,E Composite	17 MAY 90
05-565-3	T-1 A,B,C Composite	17 MAY 90
05-565-4	S-1 A,B Composite	17 MAY 90
05-565-5	S-1 AW,BW Composite	17 MAY 90

PARAMETER	05-565-1	05-565-2	05-565-3	05-565-4	05-565-5
Chromium, mg/kg	---	---	41	---	---
Copper, mg/kg	26	22	50	---	---
Lead, mg/kg	---	<6	<6	---	---
Nickel, mg/kg	---	---	30	---	---
Nitric Acid Digestion, Date	05.17.90	05.17.90	05.17.90	---	---

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BCA B C A

ATTACHMENT
III-D

Analytical Report

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REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, SOIL SAMPLES	DATE SAMPLED
05-565-1	B1-A,B,C,D,E Composite	17 MAY 90
05-565-2	B3-A,B,C,D,E Composite	17 MAY 90
05-565-3	T-1 A,B,C Composite	17 MAY 90
05-565-4	S-1 A,B Composite	17 MAY 90
05-565-5	S-1 AW,BW Composite	17 MAY 90

PARAMETER	05-565-1	05-565-2	05-565-3	05-565-4	05-565-5
B/N,A Ext.Pri.Poll. (EPA-8270)					
Date Analyzed	---	---	---	05.18.90	05.18.90
Date Extracted	---	---	---	05.18.90	05.18.90
Dilution Factor, Times	---	---	---	1	1
1,2,4-Trichlorobenzene, mg/kg	---	---	---	<0.03	<0.03
1,2-Dichlorobenzene, mg/kg	---	---	---	<0.03	<0.03
1,2-Diphenylhydrazine, mg/kg	---	---	---	<0.03	<0.03
1,3-Dichlorobenzene, mg/kg	---	---	---	<0.03	<0.03
1,4-Dichlorobenzene, mg/kg	---	---	---	<0.03	<0.03
2,4,5-Trichlorophenol, mg/kg	---	---	---	<0.03	<0.03
2,4,6-Trichlorophenol, mg/kg	---	---	---	<0.03	<0.03
2,4-Dichlorophenol, mg/kg	---	---	---	<0.03	<0.03
2,4-Dimethylphenol, mg/kg	---	---	---	<0.03	<0.03
2,4-Dinitrophenol, mg/kg	---	---	---	<0.3	<0.3
2,4-Dinitrotoluene, mg/kg	---	---	---	<0.03	<0.03
2,6-Dinitrotoluene, mg/kg	---	---	---	<0.03	<0.03
2-Chloronaphthalene, mg/kg	---	---	---	<0.03	<0.03
2-Chlorophenol, mg/kg	---	---	---	<0.03	<0.03
2-Methyl-4,6-dinitrophenol, mg/kg	---	---	---	<0.03	<0.03
2-Methylnaphthalene, mg/kg	---	---	---	<0.03	<0.03
2-Methylphenol, mg/kg	---	---	---	<0.03	<0.03
2-Nitroaniline, mg/kg	---	---	---	<0.2	<0.2
2-Nitrophenol, mg/kg	---	---	---	<0.03	<0.03

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REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, SOIL SAMPLES	DATE SAMPLED
05-565-1	B1-A,B,C,D,E Composite	17 MAY 90
05-565-2	B3-A,B,C,D,E Composite	17 MAY 90
05-565-3	T-1 A,B,C Composite	17 MAY 90
05-565-4	S-1 A,B Composite	17 MAY 90
05-565-5	S-1 AW,BW Composite	17 MAY 90

PARAMETER	05-565-1	05-565-2	05-565-3	05-565-4	05-565-5
3,3'-Dichlorobenzidine, mg/kg	---	---	---	<0.03	<0.03
3-Nitroaniline, mg/kg	---	---	---	<0.2	<0.2
4-Bromophenylphenylether, mg/kg	---	---	---	<0.03	<0.03
4-Chloro-3-methylphenol, mg/kg	---	---	---	<0.03	<0.03
4-Chloroaniline, mg/kg	---	---	---	<0.2	<0.2
4-Chlorophenylphenylether, mg/kg	---	---	---	<0.03	<0.03
4-Methylphenol, mg/kg	---	---	---	<0.03	<0.03
4-Nitroaniline, mg/kg	---	---	---	<0.2	<0.2
4-Nitrophenol, mg/kg	---	---	---	<0.7	<0.7
Acenaphthene, mg/kg	---	---	---	<0.03	<0.03
Acenaphthylene, mg/kg	---	---	---	<0.03	<0.03
Aniline, mg/kg	---	---	---	<0.03	<0.03
Anthracene, mg/kg	---	---	---	<0.03	<0.03
Benzidine, mg/kg	---	---	---	<1	<1
Benzo(a)anthracene, mg/kg	---	---	---	<0.03	<0.03
Benzo(a)pyrene, mg/kg	---	---	---	<0.03	<0.03
Benzo(b)fluoranthene, mg/kg	---	---	---	<0.03	<0.03
Benzo(g,h,i)perylene, mg/kg	---	---	---	<0.03	<0.03
Benzo(k)fluoranthene, mg/kg	---	---	---	<0.03	<0.03
Benzyl alcohol, mg/kg	---	---	---	<0.2	<0.2
Benzoic acid, mg/kg	---	---	---	<0.2	<0.2
Butylbenzylphthalate, mg/kg	---	---	---	<0.03	<0.03
Chrysene, mg/kg	---	---	---	<0.03	<0.03

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Reported: 21 MAY 90

Mr. Steve Williams
Western Geologic Resources, Inc.
2169 East Francisco, Suite B
San Rafael, California 94901

Project: 26-273-01

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, SOIL SAMPLES	DATE SAMPLED
05-565-1	B1-A,B,C,D,E Composite	17 MAY 90
05-565-2	B3-A,B,C,D,E Composite	17 MAY 90
05-565-3	T-1 A,B,C Composite	17 MAY 90
05-565-4	S-1 A,B Composite	17 MAY 90
05-565-5	S-1 AW,BW Composite	17 MAY 90

PARAMETER	05-565-1	05-565-2	05-565-3	05-565-4	05-565-5
Di-n-octylphthalate, mg/kg	---	---	---	<0.03	<0.03
Dibenzo(a,h)anthracene, mg/kg	---	---	---	<0.03	<0.03
Dibenzofuran, mg/kg	---	---	---	<0.03	<0.03
Dibutylphthalate, mg/kg	---	---	---	<0.03	<0.03
Diethylphthalate, mg/kg	---	---	---	<0.03	<0.03
Dimethylphthalate, mg/kg	---	---	---	<0.03	<0.03
Fluoranthene, mg/kg	---	---	---	<0.03	<0.03
Fluorene, mg/kg	---	---	---	<0.03	<0.03
Hexachlorobenzene, mg/kg	---	---	---	<0.03	<0.03
Hexachlorobutadiene, mg/kg	---	---	---	<0.03	<0.03
Hexachlorocyclopentadiene, mg/kg	---	---	---	<0.03	<0.03
Hexachloroethane, mg/kg	---	---	---	<0.03	<0.03
Indeno(1,2,3-c,d)pyrene, mg/kg	---	---	---	<0.03	<0.03
Isophorone, mg/kg	---	---	---	<0.03	<0.03
N-Nitrosodimethylamine, mg/kg	---	---	---	<0.03	<0.03
N-Nitrosodiphenylamine, mg/kg	---	---	---	<0.03	<0.03
N-Nitrosodi-n-propylamine, mg/kg	---	---	---	<0.03	<0.03
Nitrobenzene, mg/kg	---	---	---	<0.03	<0.03
Naphthalene, mg/kg	---	---	---	<0.03	<0.03
Phenanthrene, mg/kg	---	---	---	<0.03	<0.03
Phenol, mg/kg	---	---	---	<0.03	<0.03
Pentachlorophenol, mg/kg	---	---	---	<0.03	<0.03
Pyrene, mg/kg	---	---	---	<0.03	<0.03

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Analytical Report

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Western Geologic Resources, Inc.
2169 East Francisco, Suite B
San Rafael, California 94901

Project: 26-273-01

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, SOIL SAMPLES	DATE SAMPLED
05-565-1	B1-A,B,C,D,E Composite	17 MAY 90
05-565-2	B3-A,B,C,D,E Composite	17 MAY 90
05-565-3	T-1 A,B,C Composite	17 MAY 90
05-565-4	S-1 A,B Composite	17 MAY 90
05-565-5	S-1 AW,BW Composite	17 MAY 90

PARAMETER	05-565-1	05-565-2	05-565-3	05-565-4	05-565-5
Bis(2-chloroethoxy)methane, mg/kg	---	---	---	<0.03	<0.03
Bis(2-chloroethyl)ether, mg/kg	---	---	---	<0.03	<0.03
Bis(2-chloroisopropyl)ether, mg/kg	---	---	---	<0.03	<0.03
Bis(2-ethylhexyl)phthalate, mg/kg	---	---	---	<3	<3

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LOG NO	SAMPLE DESCRIPTION, SOIL SAMPLES	DATE SAMPLED
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05-565-2	B3-A,B,C,D,E Composite	17 MAY 90
05-565-3	T-1 A,B,C Composite	17 MAY 90
05-565-4	S-1 A,B Composite	17 MAY 90
05-565-5	S-1 AW,BW Composite	17 MAY 90

PARAMETER	05-565-1	05-565-2	05-565-3	05-565-4	05-565-5
Vol.Pri.Poll. (EPA-8240)					
Date Analyzed	---	---	---	05.18.90	05.19.90
Date Extracted	---	---	---	05.17.90	05.17.90
Dilution Factor, Times	---	---	---	1	1
1,1,1-Trichloroethane, mg/kg	---	---	---	<0.2	<0.2
1,1,2,2-Tetrachloroethane, mg/kg	---	---	---	<0.2	<0.2
1,1,2-Trichloroethane, mg/kg	---	---	---	<0.2	<0.2
1,1-Dichloroethane, mg/kg	---	---	---	<0.2	<0.2
1,1-Dichloroethene, mg/kg	---	---	---	<0.2	<0.2
1,2-Dichloroethane, mg/kg	---	---	---	<0.2	<0.2
1,2-Dichlorobenzene, mg/kg	---	---	---	<0.2	<0.2
1,2-Dichloropropane, mg/kg	---	---	---	<0.2	<0.2
1,3-Dichlorobenzene, mg/kg	---	---	---	<0.2	<0.2
1,3-Dichloropropene, mg/kg	---	---	---	<0.2	<0.2
1,4-Dichlorobenzene, mg/kg	---	---	---	<0.2	<0.2
2-Chloroethylvinylether, mg/kg	---	---	---	<0.2	<0.2
2-Hexanone, mg/kg	---	---	---	<0.2	<0.2
4-Methyl-2-Pentanone, mg/kg	---	---	---	<0.2	<0.2
Acetone, mg/kg	---	---	---	<5	<5
Acrolein, mg/kg	---	---	---	<5	<5
Acrylonitrile, mg/kg	---	---	---	<2	<2
Bromodichloromethane, mg/kg	---	---	---	<0.2	<0.2
Bromomethane, mg/kg	---	---	---	<0.2	<0.2

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LOG NO	SAMPLE DESCRIPTION, SOIL SAMPLES	DATE SAMPLED
05-565-1	B1-A,B,C,D,E Composite	17 MAY 90
05-565-2	B3-A,B,C,D,E Composite	17 MAY 90
05-565-3	T-1 A,B,C Composite	17 MAY 90
05-565-4	S-1 A,B Composite	17 MAY 90
05-565-5	S-1 AW,BW Composite	17 MAY 90

PARAMETER	05-565-1	05-565-2	05-565-3	05-565-4	05-565-5
Benzene, mg/kg	---	---	---	<0.2	<0.2
Bromoform, mg/kg	---	---	---	<0.2	<0.2
Chlorobenzene, mg/kg	---	---	---	<0.2	<0.2
Carbon Tetrachloride, mg/kg	---	---	---	<0.2	<0.2
Chloroethane, mg/kg	---	---	---	<0.2	<0.2
Chloroform, mg/kg	---	---	---	<0.2	<0.2
Chloromethane, mg/kg	---	---	---	<0.2	<0.2
Carbon Disulfide, mg/kg	---	---	---	<0.2	<0.2
Dibromochloromethane, mg/kg	---	---	---	<0.2	<0.2
Ethylbenzene, mg/kg	---	---	---	<0.2	<0.2
Freon 113, mg/kg	---	---	---	<2	<2
Methyl ethyl ketone, mg/kg	---	---	---	<0.2	<0.2
Methylene chloride, mg/kg	---	---	---	<0.2	<0.2
Styrene, mg/kg	---	---	---	36	0.3
Trichloroethene, mg/kg	---	---	---	<0.2	<0.2
Trichlorofluoromethane, mg/kg	---	---	---	<0.2	<0.2
Toluene, mg/kg	---	---	---	1.3	<0.2
Tetrachloroethene, mg/kg	---	---	---	<0.2	<0.2
Vinyl acetate, mg/kg	---	---	---	<0.2	<0.2
Vinyl chloride, mg/kg	---	---	---	<0.2	<0.2
Total Xylene Isomers, mg/kg	---	---	---	3.0	0.2
cis-1,2-Dichloroethene, mg/kg	---	---	---	<0.2	<0.2
trans-1,2-Dichloroethene, mg/kg	---	---	---		

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Analytical Report

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REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, SOIL SAMPLES	DATE SAMPLED
05-565-1	B1-A,B,C,D,E Composite	17 MAY 90
05-565-2	B3-A,B,C,D,E Composite	17 MAY 90
05-565-3	T-1 A,B,C Composite	17 MAY 90
05-565-4	S-1 A,B Composite	17 MAY 90
05-565-5	S-1 AW,BW Composite	17 MAY 90

PARAMETER	05-565-1	05-565-2	05-565-3	05-565-4	05-565-5
trans-1,3-Dichloropropene, mg/kg	---	---	---	<0.2	<0.2

Sim D. Lessley, Ph.D., Laboratory Director

1255 Powell Street
Emeryville, CA 94608

415/428-2300
Fax: 415/547-3643

BCA B C Analytical

Analytical Report

LOG NO: E90-05-771

Received: 25 MAY 90
Reported: 30 MAY 90

Mr. Randy Smith
Western Geologic Resources, Inc.
2169 East Francisco, Suite B
San Rafael, California 94901

Project: 26-273-01

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, SOIL SAMPLES	DATE SAMPLED
05-771-1	B1-A,B,C,D,E,	17 MAY 90
05-771-2	B3-A,B,C,D,E	17 MAY 90
05-771-3	T-1 A,B,C	17 MAY 90
05-771-4	S-1 A,B	17 MAY 90
05-771-5	S-1 AW,BW	17 MAY 90

PARAMETER	05-771-1	05-771-2	05-771-3	05-771-4	05-771-5
pH, Units	8.2	8.2	8.2	7.9	7.5

Sim D. Lessley, Ph.D., Laboratory Director

1255 Powell Street
Emeryville, CA 94608

415/428-2300
Fax: 415/547-3643

BCA *B C Analytical*

DECON ENVIRONMENTAL INC. — CHAIN OF CUSTODY RECORD

PROJECT NO.	PROJECT NAME	INDUSTRIAL HYGIENE SAMPLE
225	DUBLIN MULTILAYER	Y / 06

SAMPLERS: (Signature) Peter Schoen (Printed) PETER SCHOEN

FIELD SAMPLE NUMBER	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	SOLUBLE NICKEL STLC - Ni	SOLUBLE CHROMIUM STLC - Cr	PARAMETERS						REMARKS
55-225-823-1	8/23/90	9100		X	HEAP OF STABILIZED SOIL	1	X	X							72 hour turnaround

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Peter Schoen	8/23/90 11:00				
(Printed name) & Company: PETER SCHOEN / DECON		(Printed name) & Company	(Printed name) & Company		(Printed name) & Company

Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks
		Kristin K Gaines	8/23/90 1100	
(Printed name) & Company		(Printed name) & Company: Kristin K Gaines / Superior Lab		

Distribution: Original Plus One Accompanies Shipment (white and yellow); Copy to Coordinator Field Files (pink).

ATTACHMENT III-E

WET EXTRACT REPORT

Kennedy/Jenks/Chilton, Laboratory Division
303 Second Street, Tenth Floor North
San Francisco, CA 94107
415-362-6065

Received	08/23/90
Reported	08/28/90

For: DECON Environmental Services
Attention: Peter Schoen
Address: 26102 Eden Landing Road, Suite 4
Hayward, CA 94545

Quality Control Page

Source:	Decon Marketing
Lab. No.:	905350
Sample I.D.:	SS-225-823-1
Matrix:	Stabilized Soil
Depth:	--
Date Collected:	08/23/90
Time Collected:	0900
Collected by:	DECON
Date Extracted:	08/25 - 27/90
Date Analyzed:	08/25 - 26/90
Analytical Method:	Calif. Admin. Code Title 22, Paragraph 66700

Contaminant	Units	Replicate	Concentration in extract	Det. Lim.
Chromium(Cr)	mg/L	0.60 0.61	Spike Recovery 93%	<0.1
Nickel(Ni)	mg/L	0.91 0.61	Spike Recovery 88%	<0.1

Final pH of extract was 5.9

Comments: Analysis by atomic absorption spectrophotometry. Results reported in milligrams per liter.

Reference: "Test Methods for Evaluating Solid Waste – Physical/Chemical Methods," SW-846, 1984 and 1986, U.S. EPA, and "California Administrative Code Title 22, Div. 4, Chapter 30, Minimum Standards for Management of Hazardous and Extremely Hazardous Wastes", 1985.

Analyst Tracy Kirkpatrick Manager Everett Smith

WET EXTRACT REPORT

Kennedy/Jenks/Chilton, Laboratory Division
303 Second Street, Tenth Floor North
San Francisco, CA 94107
415-362-6065

Received	--
Reported	08/28/90

For: DECON Environmental Services
Attention: Peter Schoen
Address: 26102 Eden Landing Road, Suite 4
Hayward, CA 94545

Quality Control Page

Source:	--
Lab. No.:	Method Control
Sample I.D.:	Citrate Buffer
Matrix:	Water
Depth:	--
Date Collected:	--
Time Collected:	--
Collected by:	K/J/C
Date Extracted:	--
Date Analyzed:	08/25 - 26/90
Analytical Method:	Calif. Admin. Code Title 22, Paragraph 66700

Contaminant	Units	Concentration in extract	Det. Lim.
Chromium(Cr)	mg/L	0.60	<0.1
Nickel(Ni)	mg/L	0.76	<0.1

Final pH of control was 5.4

Comments: Analysis by atomic absorption spectrophotometry. Results reported in milligrams per liter.

Reference: "Test Methods for Evaluating Solid Waste - Physical/Chemical Methods," SW-846, 1984 and 1986, U.S. EPA, and "California Administrative Code Title 22, Div. 4, Chapter 30, Minimum Standards for Management of Hazardous and Extremely Hazardous Wastes", 1985.

Analyst Tracy Kirkpatrick Manager Scott Smith

WET EXTRACT REPORT

Kennedy/Jenks/Chilton, Laboratory Division
303 Second Street, Tenth Floor North
San Francisco, CA 94107
415-362-6065

1

For: DECON Environmental Services
Attention: Peter Schoen
Address: 26102 Eden Landing Road, Suite 4
Hayward, CA 94545

Received	--
Reported	08/28/90

Quality Control Page

Source:	--
Lab. No.:	Method Blank
Sample I.D.:	Reagent Water
Matrix:	Water
Depth:	--
Date Collected:	--
Time Collected:	--
Collected by:	K/F/C
Date Extracted:	--
Date Analyzed:	08/25 - 26/90
Analytical Method:	Calif. Admin. Code Title 22, Paragraph 66700

Contaminant	Units	Concentration in extract	Det. Lim.
Chromium(Cr)	mg/L	<0.01	0.01
Nickel(Ni)	mg/L	<0.01	0.01

Comments: Analysis by atomic absorption spectrophotometry. Results reported in milligrams per liter.

Reference: "Test Methods for Evaluating Solid Waste - Physical/Chemical Methods," SW-846, 1984 and 1986, U.S. EPA, and "California Administrative Code Title 22, Div. 4, Chapter 30, Minimum Standards for Management of Hazardous and Extremely Hazardous Wastes", 1985.

Analyst Tracy Kirkpatrick Manager Linnett Smith

SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

DECON Environmental Services	Client Project ID:	225 / Dublin Multilayer	Sampled:	Aug 28, 1990
26102 Eden Landing Road, Suite 4	Sample Descript:	Solid, SS-225-828-1	Received:	Aug 29, 1990
Hayward, CA 94545			Extracted:	Aug 30, 1990
Attention: Chris Kwoka	Lab Number:	008-4888	Analyzed:	Aug 31, 1990
			Reported:	Sep 4, 1990

LABORATORY ANALYSIS - E.P. TOXICITY EXTRACTION

Analyte	Detection Limit mg/L	Sample Result mg/L
Nickel	0.050	0.18
Hexavalent Chromium	0.0050	0.025

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

Cynthia H. Camba
Project Manager

84888.DEC <1>

IV. FIELD LOGS, NOTES AND SAMPLING INFORMATION

ATTACHMENTS

IV-A. Wipe Sample Report/Method, Blaine Tech Services (03/08/90)

IV-B. Soil Sampling/IM-TECH Process, Decon Environmental information sheet

IV-C. Soil Sampling Field Report, Western Geologic Resources (03-27-90)

IV-D. Hydroblast Field Report, Delta Technical report(03-02-90 through 03-07-90)

BLAINE
TECH SERVICES INC.

1370 TULLY RD., SUITE 505
SAN JOSE, CA 95122
(408) 995-5535

March 29, 1990

Dublin Multi-Layer
6341 Scarlett Court
Dublin, CA 94568

Attn: Steve Williams

SITE:
6341 Scarlett Court
Dublin, California

PROJECT:
Wipe Sampling

SAMPLED ON:
March 8, 1990

SAMPLING REPORT 900308-K-1

Blaine Tech Services, Inc. performs specialized environmental sampling and documentation as an independent third party. In order to avoid compromising the objectivity necessary for the proper and disinterested performance of this work, Blaine Tech Services, Inc. does not participate in the interpretation of analytical results or become involved with the marketing or installation of remedial systems. The interpretation of results should be performed by representatives of interested regulatory agencies and/or those professionals who are engaged as paid consultants in the business of providing opinions and proposals for further investigation or clean-up activities.

This report describes environmental sampling and documentation performed by our firm on this project. In addition to the Sampling Report text itself, supporting documents are provided as attachments. These include the chain of custody and the certified analytical laboratory report. All these documents should be kept together and preserved as a file of interrelated records which, together, comprise the documentation of the work performed at the site.

ATTACHMENT
IV-A

Background

Dublin Multi-Layer is a firm that does some metal plating. Following a fire in their plating building, the building was demolished except for the concrete floor. The concrete floor has stains from the plating operation and was sand blasted and acid etched to remove the contaminants. Mr. Steve Williams of Dublin Multi-Layer contacted Blaine Tech Services, Inc. office personnel in order to obtain a wipe sample of the concrete floor after it was etched.

Scope of Requested Services

In accordance with your request, field personnel would be dispatched to the site to collect wipe samples from the concrete floor of the demolished plating building. We would arrange for the proper analyses of the samples and maintain adequate documentation resulting in the issuance of a formal Sampling Report.

Execution of the Work

Personnel were dispatched from our office and arrived at Dublin Multi-Layer on Thursday, March 8, 1990. Our personnel met with Mr. John Crain of Dublin Multi-Layer and Mr. Steve Williams his project manager. Mr. Williams instructed our personnel to collect a total of eight wipe samples from the concrete floor.

Four sets of 100 square centimeter sampling grids were mapped out on the concrete floor. Each set consisted of two adjacent grids. Within each grid, one wipe sample was obtained. One sample was submitted to the laboratory to be analyzed for metals. The other sample was obtained as a duplicate and submitted to the laboratory with instructions to be placed the hold and analyzed only if the adjacent grid sample showed values greater than ten times the STLC.

The location of individual sampling points is shown on the diagram on page three. Additional information on the exact method of sample collection will be found in the SAMPLING METHODOLOGY section of this report.

After completion of the field work, the samples were delivered to Sequoia Analytical Laboratory in Redwood City, California. Sequoia Analytical Laboratory is a California Department of Health Services certified Hazardous Materials Testing Laboratory and is listed as DOHS HMTL #145.

SAMPLING METHODOLOGIES USED ON THIS PROJECT

Wipe Sample: Each wipe sample is taken from the inside of a standardized sampling area which is usually a square or rectangle "grid" that contains 100 square centimeters. The method used to collect the sample involves using only one side of a filter paper "wipe" which is manually moved back and forth across the interior of the box. The wipe preparation is specific to the analysis that will be performed on the resulting sample. For example,

a wipe that is going to be used to collect material that will be analyzed for metals and pH would be prepared with deionized water. A sample that is to be analyzed for total oil and grease would be prepared with freon.

In the work performed on this project, each sample that was analyzed for metals consisted of four sampling grids that were sampled with four wipes. The wipes were specially prepared. One wipe was used to obtain surface residue from one of four 100 square centimeter sampling grids which were adjacent to each other. The grid was wiped using one side of the wipe and then placed then in a plastic bag. A duplicate sample was obtained from each of the four sampling grids in the same manner as the initial samples.

Sample Designations

All sample containers are identified with both a sampling event number and a discrete sample identification number. Please note that the sampling event number is the number that appears on our chain of custody. It is roughly equivalent to a job number, but applies only to work done on a particular day of the year rather than spanning several days as jobs and projects often do. This is followed by the sample I.D. number which is usually a simple number such as #1, #2, #3.

Chain of Custody

Samples are continuously maintained in either a chilled ice chest, refrigerator, or freezer from the time of collection until acceptance by the State certified Hazardous Materials Testing Laboratory selected to perform the analytical procedures. If the samples are taken charge of by a different party (such as another person from our office, a courier, etc.) prior to being delivered to the laboratory, appropriate release and acceptance records are made on the chain of custody (time, date, and signature of person releasing the samples followed by the time, date and signature of the person accepting custody of the samples).

Laboratory Identification Numbers

Following receipt of the samples and completion of the Chain of Custody form, the laboratory then assigns their own identification numbers to the samples. Different laboratories use different numbering systems and, according to their own internal conventions, may or may not assign sequential numbers to samples which are placed on temporary "hold", pending the results of other analyses. Laboratory identification numbers (if assigned and available) are included on the DIAGRAM page, and will be found on the certified analytical report by the analytical laboratory.

Certified Analytical Report

The certified analytical report generated by the laboratory is the official document in which they issue their findings. The certified analytical report is included as an attachment at the close of this report.

Please call if we can be of any further assistance.

Richard C. Blaine

RCB/dmp

attachments: chain of custody
certified analytical report

DECON
ENVIRONMENTAL SERVICES, INC.

DECON Soil & Water Sampling Protocols

Surface Soil Sampling

The methods described in this section are used when collecting soil or sediment samples in the uppermost 2 feet. Surface soil samples for chemical or physical analysis are collected using a soil sampling hammer with a 2 inch diameter, 6 inch long brass liner tube. The sampler is driven into the top 6 to 24 inches of soil and then removed and disassembled to permit the retrieval of the soil sample. The ends of the tube are covered with aluminum foil and then capped. The tube is labelled and immediately placed into a pre-cooled ice chest chilled to less than 4 degrees Centigrade. Labels contain the following information: site name, date and time sampled, sample identification, and analysis to be performed on the sample. The samples are transported under chain of custody to a state certified laboratory. The laboratory analyzes soil samples within the prescribed holding time, storing them at temperatures below 4 degrees Centigrade at all times.

DECON uses new sterile brass tubes for sampling. Between each sample collected, the sampling hammer is cleaned with trisodium phosphate (TSP) and rinsed with distilled, deionized water.

Water Sampling

Samples from open surface water will be collected by direct submergence of the sample bottle. The sample bottle is capped with a Teflon lined lid and then wiped dry with a rag and immediately labelled with the following information: site name, date and time sampled, sample identification, and analysis to be performed on the sample. When a sample is suspected to contain volatile constituents, the sample should immediately be placed into an ice chest pre-cooled to 4 degrees Centigrade. Preservative are not added to any sample unless instructed. Under no circumstances are sealed sample containers opened by anyone other than the laboratory personnel who perform the requested analyses.

Water samples are not held for more than 14 days prior to analysis and are kept at 4 degrees Centigrade at all times.

To document and track samples from time of collection, a signed chain of custody record is completed by the sampler and accompanies the samples through the laboratory sample acceptance. The completed chain of custody is included with the analytical report from the laboratory.

DECON's Stabilization Process

DECON provided all labor, materials, and equipment to stabilize the contaminated soil using the IM-TECH process. This section describes the process, processing equipment and operation.

The IM-TECH stabilization process was developed and patented by Mr. Ray Funderburk, the president and founder of IM-TECH (formerly Hazcon, Inc.). It has been evaluated and approved by the EPA under their Superfund Innovative Technology Evaluation (SITE) program.

The IM-TECH (or Hazcon) process was designed to stabilize heavy metals in a wide variety of matrices, including refinery sludges and contaminated soil containing high levels of organic compounds. As shown in Table 1, this process has been proven effective for stabilization of many different heavy metals, PNA's, VOC's and other organic compounds.

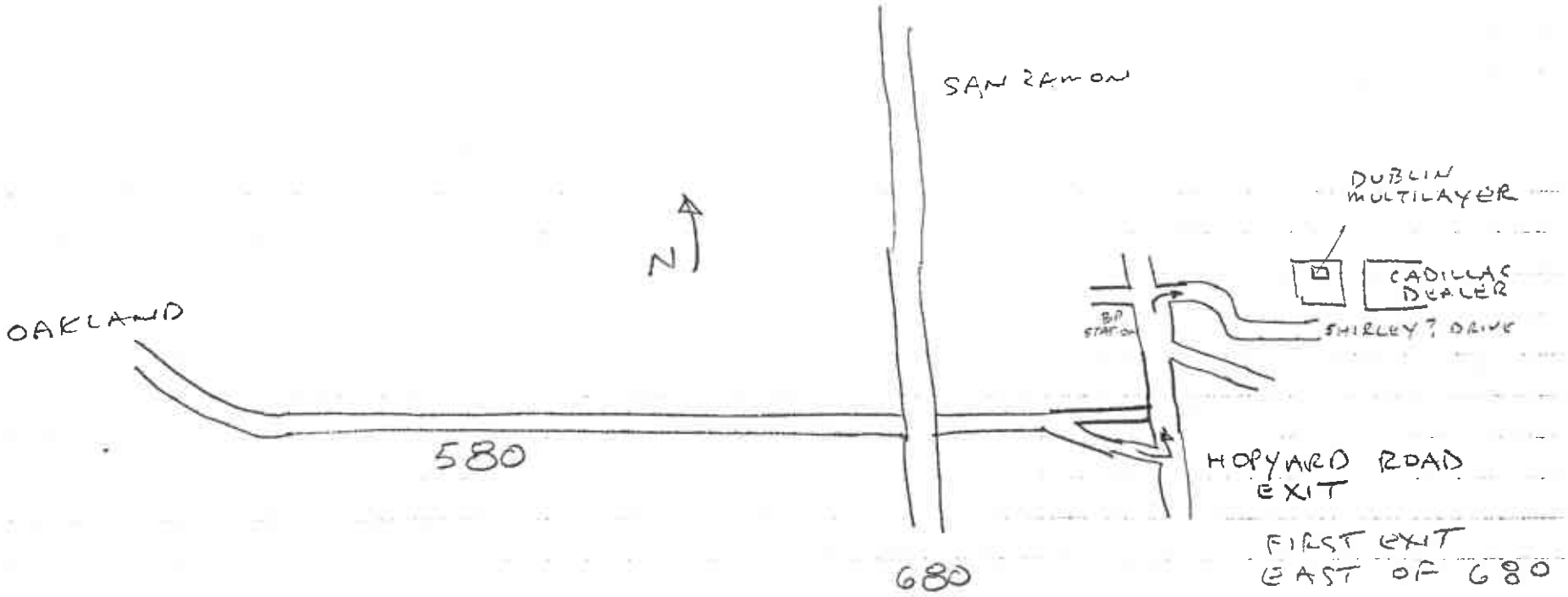
Process Chemistry

The IM-TECH process is based on chemical fixation of heavy metals and oxidation of organic compounds using the proprietary chemical formulation called Chloranan. In addition, the process uses pozzolanic materials (cement, lime, kiln dust, or fly ash) to stabilize the treated waste material. The resulting product has leachabilities that are below established standards when analyzed by TCLP and Cal WET methods.

Chloranan catalyzes a number of chemical and physical changes to the waste material which reduce the leachability of both organic and inorganic compounds present. Chloranan contains a polymer-based component which acts to prevent the normal inhibition that organic compounds effect in the presence of cement to retard its hydration. The morphology of the cement crystals is altered by Chloranan, turning these into flat, thick platelets with five time the surface area of normal cement crystals. The additional surface area provides more sites for chemical bonding of the insoluble metal hydroxide compounds and residual organic compounds, which are then microencapsulated by subsequent crystal growth.

Processing Equipment

The stabilization process was performed with a portable concrete mixer having a capacity of 1/3 cubic yard. Batches were processed by adding the contaminated soil and Portland cement, mixing briefly, then adding chloranan and water, and mixing for 10 to 15 minutes. Upon completion of the mixing cycle, the treated soil was discharged onto a concrete pad lined with 6-mil visqueen and allowed to cure. Once curing was complete, samples of the treated soil were collected and analyzed for copper, nickel, lead, and zinc.


SAN RAMON
N
DUBLIN MULTILAYER
CADILLAC DEALER
BP STATION
SHIRLEY 7 DRIVE
OAKLAND
580
680
HOPYARD ROAD EXIT
FIRST EXIT EAST OF 680

DAILY FIELD REPORT

Project No.	Project Name	By	To	Date
26-273.01	DUBLIN MULTI LAYER	MARK FLYE	EB/SWILLIAMS	3.27.90

Main Activity: SOIL SAMPLING

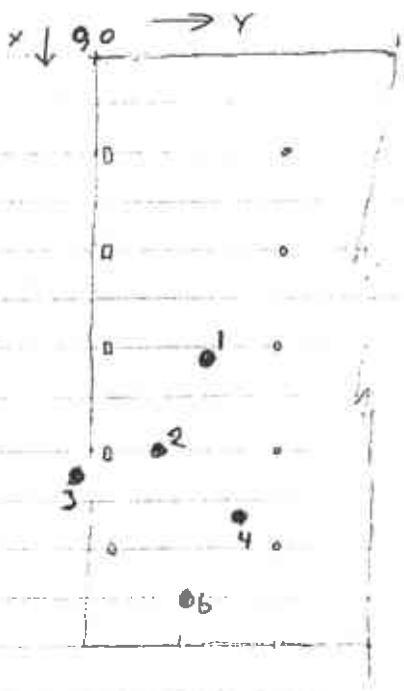
Vehicle Type	Odometer IN	Odometer OUT	Total Mileage
☐ Rent ☐ WGR ☑ Personal	24815	24749	66

Time — Description

07:45 Depart ☑ Home ☐ Office ☐ Hotel

08:25 Arrive at Job Site

STEVE WILLIAMS ON SITE TO SUPERVISE SAMPLES. WORK CREWS TAKING DOWN SIDING AND CLEANING UP SITE.



SAMPLE #	X	Y	DEPTH
S1	64.5'	25'	1.0'
S2	79.5'	19'	1.0'
S3	85.5'	-1'	1.0'
S4	94'	36.5	1.0'
S6	117	15	3.0'

COLLECTED SAMPLES WITH THE 3" HAND AUGER FOR S-1, 2, 3, 4 AUGERED DOWN THROUGH 4" CORE TO ~1' BELOW CONCRETE FLOOR. SAMPLES CONSISTED OF A DARK, LT. BROWN MIXTURE OF ~~SAND~~ GRAVEL AND CLAY BASE MATERIAL. BORING #5 ABANDONED BECAUSE OF UNDERGROUND PIPE. FOR SAMPLE S6 AUGERED DOWN AT AN ANGLE FROM THE SIDE OF THE SUMP TO A POINT BELOW THE BOTTOM EDGE OF THE SUMP, ~DEPTH = 3'. SAMPLE CONSISTED OF A DAMP, DARK GREY CLAY THAT HAD A SLIGHT ODOR. ALL SAMPLES COLLECTED INTO 1 PINT GLASS JARS W/TEFLON LIDS.

10:15 Depart Job Site

12:15 Arrive ☑ Home ☐ Office ☐ Hotel

AFTER PREVIOUS TO CAULKING AND DROPPING SAMPLES OFF AT B+L.

TO BE DONE

WEEK OF

PICK UP PO from John Crain 3/20/90 EB

Job #26-273.01

SAUL

Analytic Info

BC Labs
1255 Powell St. contact: Chih San Ho
X Doyle 428-2300
Emeryville

Picking up 2 cases of 1 pint glass w/ teflon lined lids.

Under the [redacted] Sump

Analyses:
- Metals Scan (ICAP)

total Sb, As, Ba, Be, Cd, Cr, Co, Cu, Pb, Hg, Mo, Ni, Se, Ag, Tl, U, Zn, Cy
- + Ch, + Hex Chrome.
- EPA 8240
- EPA 8270
- pH.

5 other Boring Locations

Analyses:
total Cu, Pb, Ni, Cr + Hex Cr

Instruct Lab to analyze for total metals. Compare total levels to the STLC. If any total metals have a concentration above the STLC, run them for Soluable metals. If total metals exceed TTLC call Standard 10 day turn around | WGR (Ed Buskirk) immediately.
Direct Report to Steve Williams / Ed Buskirk.

TO BE DONE

STEVE WILLIAMS (CAL) 408. 234. 9803

WEEK OF

EB
3/20/90

Sampling Info

Samples to be hand packed from bucket auger into glass jars.

5 borings done already have concrete cored. Need to sample below the level of present boring with hand augering. Decon between holes.

Sixth boring is done diagonally under the sump at the facility. Same boring technique as above.

Site Safety.
- Level D equipment including Hard Hat.
- Use Nitrile gloves to sample.
- Use Goggles
- No resp, dust protection necessary.

Facility:
Dublin Multi Layer
6341 Scarlett Ct.
X Hopyard
Dublin, CA

⇒ take 580 E. to Hopyard
Go North, take a right (East) onto Frontage Rd. Burned out metal building. Caddy dealership is too far.

Contact:
John Crain
829-1956

Meet Steve Williams and John Crain onsite at 2:30 pm

CUSTOMER	ADDRESS
MULTI LAYER	DUBLIN

UNIT SERVICED: 4000 TO 6000 SQ. FT FLOOR HYDROBLAST PAVEMENT

DATE: 3-2-90

PERSON	START	FINISHED	HOURS	CHEMICALS	EQUIPMENT
C. MARTINEZ	7 AM	6 PM	10½		016 H.P. PUMP
					R-2 PICKUP
P. TORRES	7 AM	6 PM	10½		WILDEN PUMP
					HOSE SET-UP
D. JIMENEZ	7 AM	6 PM	10½		H.P. HOSE
				DISPOSAL BY:	

TIME	DETAILS	TEMP	CONC.	FERRIC	TOTAL IRON
7 AM	LEAVE SHOP				
8 AM	ARRIVE AT JOB SITE CONTACT STEVE WILLIAMS, START TO REVIEW JOB				
8 45	START TO BUILT CONTAINMENT WALL				
10 AM	START SETUP				
10 45	SETUP COMPLETE, REVIEW SAFETY CHECK LIST WITH CREW				
11 AM	START TO HYDROBLAST CONCRET PAVEMENT				
12 NOON	CONTINUE TO HYDROBLAST				
12 30	" " "				
1 PM	STOP BLASTING CHEMICAL STAINS ARE NOT COMING OFF. STEVE WILLIAM INSPECTED FLOOR. WAS TOLD TO GO AHEAD AND MIX 10% NITRIC, AND WORK NITRIC INTO STAIN LET SOAK FOR ONE HOUR				
1 30	ALL STAINS ARE SOAKING IN 10% NITRIC				
2 PM	STAND BY WHILE NITRIC SOAK IN				
2 30	START TO HYDROBLAST AGIAN				
3 PM	CONTINUE TO HYDROBLAST				
30	" " "				
4 PM	" " "				
4 30	PAVEMENT IS CLEAN, THERE STILL SOME CHEMICAL STAINS ON PAVEMENT, START TO SECURE JIS TILL MONDAY SO STEVE WILLIAM CAN INSPECT				
5 PM	LEAVE MULTI LAYER				
6 PM	ARRIVE AT SHOP				

PAGE | SERVICE NUMBER | SIGNATURE: Lee A. Martinez

ATTACHMENT
IV-D

DELTA TECH SERVICE, INC.

(415) 228-7557 • Martinez, CA

SERVICE LOG

CUSTOMER	ADDRESS
MULTI LAYER, DUBLIN CA.	DUBLIN CA.

UNIT SERVICED: 4000 TO 6000 SQ FT HYDROBLAST

DATE: 3-5-90

PERSON	START	FINISHED	HOURS	CHEMICALS	EQUIPMENT
L. MARTINEZ	7:30 AM	6 PM	10½		PICKUP
					H.P. PUMP
D. JIMENEZ	7:30 AM	6 PM	10½		COMPRESSOR
					HOSE SETUP
C. PELIZZARI	7:30 AM	6 PM	10½		WINDOW PUMP
					H.P. HOSE SETUP
				DISPOSAL BY:	

TIME	DETAILS	TEMP	CONC.	FERRIC	TOTAL IRON
7:30 AM	LEAVE SHOP				
8:30	ARRIVE AT MULTI LAYER, REVIEW JOB WITH CREW, AND START SETUP				
9 AM	INSPECT PAVEMENT AND ADD NITRIC ACID TO CHEMICAL STAINS AND LET SOAK				
9:30	STEVE WILLIAMS ARRIVED REVIEW PROGRESS. STEVE DECIDED TO SAND BLAST PAVEMENT, WAS INSTRUCTED TO HYDROBLAST 4 MACHINES THAT ARE CONTAMINATED				
10 AM	START TO CLEAN MACHINE				
10 PM	CONTINUE TO CLEAN MACHINES				
11 AM	" " " "				
11:30	" " " "				
12 NOON	" " " "				
12 PM	" " " "				
	3 OF THE MACHINES ARE DONE ADD NITRIC TO PAVEMENT TO REMOVE CHEMICAL STAIN CAUSED BY MACHINES LET SOAK				
1 PM	STAND BY				
2 PM	START TO HYDROBLAST PAVEMENT				
3 PM	START TO HYDROBLAST LAST MACHINE				
3:30	JOB IS DONE BREAK DOWN				
4 PM	LEAVE MULTI LAYER				
4:15	O16 BROKE DOWN CALL SHOP				
4:25	CALL ROY GLEN REVIEW PROBLEM WITH O16				
4:30	WENT TO AUTO PART STORE TO BUY PART				
5 PM	TRUCK IS FIXED PROCEED TO SHOP				
6 PM	ARRIVE AT SHOP				

PAGE | SERVICE NUMBER | SIGNATURE: Lee A. Martinez

DELTA TECH SERVICE, INC.

(415) 228-7557 • Martinez, CA

SERVICE LOG

CUSTOMER	ADDRESS
MULTI LAYER	DUBLIN CA.

UNIT SERVICED: SAND BLAST PAVEMENT

DATE: 3-7-90

PERSON	START	FINISHED	HOURS	CHEMICALS	EQUIPMENT
L. MARTINEZ	7AM	2PM	7	1 TON SAND	PICK-UP - P-21
D. JIMENEZ	7AM	2PM	7		COMPRESSOR - 017
C. PELIZZARI	7AM	2PM	7		HOSE SETUP
					SAND BLAST EQUIPMT.
				DISPOSAL BY:	

TIME	DETAILS	TEMP	CONC.	FERRIC	TOTAL IRON
7 AM	LEAVE SHOP				
8 AM	ARRIVE AT JOB SITE MULTI LAYER, DUBLIN				
	START SETUP				
8:30	START TO SAND BLAST				
9 AM	CONTINUE TO SAND BLAST				
10 AM	" " " "				
11 AM	" " " "				
12 NOON	" " " "				
12:15	DONE WITH JOB START BREAK DOWN.				
12:45	BREAK DOWN COMPLETE				
1 PM	LEAVE JOB SITE				
2 PM	ARRIVE AT SHOP				

PAGE | SERVICE NUMBER | SIGNATURE: Lee A. Martinez

V. TRAINING CERTIFICATES

ATTACHMENTS

V-A. Training Certificates - CKC, Inc. (9 pages)

V-B. Training Certificates - Decon Environmental (12 pages)

V-C. Training Certificates - Delta Techinical (3 pages)

CERTIFICATE OF TRAINING
OSHA-SARA

Eliezer Rodriguez

has met the initial 40 hr. training requirements

under OSHA Standard, 29CFR 1910.120, Hazardous Waste Operations

and Emergency Response

Acknowledgement

March 11, 1988
Date

Occupational Health and Safety Group, Inc.

ATTACHMENT
V-A

CERTIFICATE OF TRAINING

OSHA-SARA

Doug Portney

has met the initial 40 hr. training requirements under

OSHA Standard, 29CFR 1910.120, Hazardous Waste Operations

and Emergency Response

[signature]
Acknowledgement

SEPT. 24, 1988
Date

CERTIFICATE OF TRAINING

OSHA-SARA

Doug Portney

has met the 8 hour Supervisory training requirements
under OSHA Standard, 29CFR 1910.120, Hazardous Waste Operations
and Emergency Response

Acknowledgement

September 27, 1988
Date

Occupational Health and Safety Group, Inc.

CERTIFICATE OF TRAINING

OSHA-SARA

Jon A. Cook

has met the initial 40 hr. training requirements under

OSHA Standard, 29CFR 1910.120, Hazardous Waste Operations

and Emergency Response

Acknowledgement

January 26, 1989

Date

Occupational Health and Safety Group, Inc.

CERTIFICATE OF TRAINING
OSHA-SARA

Gilbert Claassen

has met the initial 40 hr. training requirements

under OSHA Standard, 29CFR 1910.120, Hazardous Waste Operations

and Emergency Response

Acknowledgement

March 11, 1989
Date

Occupational Health and Safety Group, Inc.

CERTIFICATE OF TRAINING

OSHA-SARA

Robert Hiebner

has met the initial 40 hr. training requirements under

OSHA Standard, 29CFR 1910.120, Hazardous Waste Operations

and Emergency Response

Acknowledgement

November 10, 1988

Date

Occupational Health and Safety Group, Inc.

NES

CERTIFICATE OF TRAINING

PRESENTED TO

STEPHEN R. MUELLER

FOR HAVING SUCCESSFULLY COMPLETED

A TRAINING COURSE IN

40-Hour Hazardous Waste Operations Training

PRESENTED BY

NETWORK ENVIRONMENTAL SYSTEMS, INC.

Bruce Lazarus CIH

NES Coordinating Trainer

January 15-19, 1990

Date

Jerri Silva

NES

CERTIFICATE OF TRAINING

PRESENTED TO

RANDY REDBERG

FOR HAVING SUCCESSFULLY COMPLETED

A TRAINING COURSE IN

40-Hour Hazardous Waste Operations Training

PRESENTED BY

NETWORK ENVIRONMENTAL SYSTEMS, INC.

Bruce Laycraw CIH

NES Coordinating Trainer

January 15-19, 1990

Date

Geri Silva

NES

CERTIFICATE OF TRAINING

PRESENTED TO

MIKE GOODWIN

FOR HAVING SUCCESSFULLY COMPLETED

A TRAINING COURSE IN

OSHA 40-Hour Hazardous Waste Operations

PRESENTED BY

NETWORK ENVIRONMENTAL SYSTEMS, INC.

Bruce Jayaraman CIH
NES Coordinating Trainer

October 16-20, 1989
Date

Jerri Silva
NES Trainer

Safety Management Group

is proud to award this

Certificate of Proficiency

to

Paul Van Hoosen

who has completed the required course work
and manipulative skills to qualify as an

40 Hour Hazardous Waste Training

June 22, 1990
Date

Robt Piper
Robert Piper, President
Safety Management Group, Inc.

ATTACHMENT
V-B

Safety Management Group

is proud to award this

Certificate of Proficiency

to

Petri Toivonen

who has completed the required course work
and manipulative skills to qualify as an

40 Hour Hazardous Waste Training

June 22, 1990
Date

Robt Piper
Robert Piper, President
Safety Management Group, Inc.

Safety Management Group

is proud to award this

Certificate of Proficiency

to

Peter Schoen

who has completed the required course work
and manipulative skills to qualify as an

40 Hour Hazardous Waste Training

4-20-90
Date

Robert Piper
Robert Piper, President
Safety Management Group, Inc.

Certificate of Attendance

This certifies that

Jane Reuter

has completed forty hours of

Hazardous Waste Site Operations Training
in accordance with 29 CFR 1910.120

February 14, 15, 16, 17 of 1990

Pleasanton, California

Presented by:
Environmental & Safety Resources

LEAD INSTRUCTOR: JOEL WONG, CIH, CSP

Safety Management Group

is proud to award this

Certificate of Proficiency

to

Manuel Petterle

who has completed the required course work
and manipulative skills to qualify as an

40 Hour Hazardous Waste Training

April 20, 1990
Date

Robt Piper
Robert Piper, President
Safety Management Group, Inc.

Safety Management Group

is proud to award this

Certificate of Proficiency

to

Brian Orr

who has completed the required course work
and manipulative skills to qualify as an

40 Hour Hazardous Waste Training

4-20-90
Date

Robert H Piper
Robert Piper, President
Safety Management Group, Inc.

Safety Management Group

is proud to award this

Certificate of Proficiency

to

Zanehart K. Numazu

who has completed the required course work
and manipulative skills to qualify as an

40 Hour Hazardous Waste Training

4-20-90
Date

Robert Piper
Robert Piper, President
Safety Management Group, Inc.

Safety Management Group

is proud to award this

Certificate of Proficiency

to

Tom McCarthy

who has completed the required course work
and manipulative skills to qualify as an

40 Hour Hazardous Waste Training

June 22, 1990
Date

Robt Piper
Robert Piper, President
Safety Management Group, Inc.

Safety Management Group

is proud to award this

Certificate of Proficiency

to

Gene Gibson

who has completed the required course work
and manipulative skills to qualify as an

40 Hour Hazardous Waste Training

4-20-90
Date

Robert Piper
Robert Piper, President
Safety Management Group, Inc.

Safety Management Group

is proud to award this

Certificate of Proficiency

to

Robert J. Graze, Sr.

who has completed the required course work
and manipulative skills to qualify as an

40 Hour Hazardous Waste Training

4-20-90
Date

Robert Piper
Robert Piper, President
Safety Management Group, Inc.

Certificate of Award

THIS CERTIFIES THAT

1121

CHARLES GASTON JR.

successfully completed the initial 40 hour requirements
listed under OSHA Regulation 29 CFR 1910.120
Hazardous Waste Operations and Emergency Response

this sixteenth day of November 1989

Provided by: Geo Line Safety Services
1940 The Alameda
San Jose, CA 95126-1428

Geo Line
Safety
Services

Jay Jamali
Training Center Dean

Safety Management Group

is proud to award this

Certificate of Proficiency

to

Sean T. Delaney

who has completed the required course work
and manipulative skills to qualify as an

40 Hour Hazardous Waste Training

4-20-90
Date

Robert Piper
Robert Piper, President
Safety Management Group, Inc.

CERTIFICATE OF TRAINING
OSHA - SARA

LUIS MARTINEZ

Has Met The 8 Hour Refresher Training Requirements Under OSHA Standard, 29 CFR 1910.120 Hazardous Waste Operations And Emergency Response

ACKNOWLEDGEMENT
Occupational Health & Safety Group, Inc

FEBRUARY 13, 1990
DATE

ATTACHMENT
V-C

CERTIFICATE OF TRAINING
OSHA - SARA

THOMAS HERNANDEZ Jr.

Has Met The INITIAL 40 HR. TRAINING Requirements Under OSHA Standard, 29 CFR 1910.120 Hazardous Waste Operations And Emergency Response

ACKNOWLEDGEMENT
Occupational Health & Safety Group, Inc

JANUARY 13, 1990
DATE

CERTIFICATE OF TRAINING
OSHA - SARA

PETE TORREZ

Has Met The INITIAL 40 HR. TRAINING Requirements Under OSHA Standard, 29 CFR 1910.120 Hazardous Waste Operations And Emergency Response

ACKNOWLEDGEMENT
Occupational Health & Safety Group, Inc

JANUARY 13,1990
DATE

VI. LICENSES AND PERMITS

ATTACHMENTS

VI-A. Dublin San Ramon Services District - Revised Wastewater Discharge

VI-B. CKC, Inc - Contractor's License and Hazardous Substances Certification

Additional permit requirements for
Dublin Multilayer during the batch
discharge phase of the fire clean-up
operation: February 26 to March 23, 1990.

---

1. All permit limitations stated in the current discharge permit (#3672-101) as well as all applicable limits and conditions for discharge stated in the District Code shall be followed at all times.

2. The District shall be notified immediately of any change in operation, a spill, leak, or other problem which may, in any way, affect the collection system or sewage treatment plant. The number is 846-4565 and the telephone is manned 24 hours per day.

3. Discharge of batch loads to the sewer is permitted only after laboratory testing is completed and results are submitted to the District for approval from a State of California certified laboratory. Permission to dump each load shall be obtained from the District staff prior to commencing.

4. Split samples shall be collected and documented by District staff on initial and follow-up samples prior to sending those samples to an outside laboratory for testing.

5. The District shall be notified at least two hours before each batch discharge is to take place. No discharge shall be allowed until an inspection of the site and pumping operation is completed by District staff.

6. Batch discharges shall be allowed in increments not to exceed 6,000 gallons per day. Discharge of the batch shall be spread over the course of an 6 hour day (minimum), or at a rate of 1,000 gallons per hour or 20 gallons per minute.

7. The District will grab a sample of the discharge effluent 4 to 6 hours into (or sometime past the mid-point of) the pumping operation.

8. At a minimum, metals to be tested for and reported to the District will include: Copper, Chromium, Lead, Nickel, and Zinc. In addition, all batches shall be tested for Cyanide.

2-28-90

John Crane — Date
Dublin Multilayer

Betty Schan FOR BRUCE JACOBSEN 2/28/90

Bruce Jacobsen — Date
Decon Environmental Services

ATTACHMENT
VI-A

DUBLIN SAN RAMON SERVICES DISTRICT
PRETREATMENT PROGRAM
WASTEWATER DISCHARGE PERMIT

3672-101

IN ACCORDANCE WITH ALL TERMS AND CONDITIONS OF THE:

__X__ D.S.R.S.D.CODE (CHAPTER 7 ARTICLE 3)

_____ CITY OF PLEASANTON CODE (CHAPTER 8 ARTICLES 5 & 7)

AND ALSO WITH ANY APPLICABLE PROVISION OF FEDERAL OR STATE LAWS OR REGULATIONS;

PERMISSION IS HEREBY GRANTED TO:

Dublin Multilayer, Inc.
Name of Company

6341 Scarlett Court, Dublin, CA 94568
Mailing Address

CLASSIFIED BY S.I.C. NO. 3672 (printed circuit boards)

FOR THE CONTRIBUTION OF treated process wastewater INTO THE DSRSD SEWER LINES AT:

6341 Scarlett Court, Dublin, CA
Address of Discharger

EFFECTIVE: 1 October 1989
EXPIRES ON: 30 September 1991

John Chan
PRINT NAME OF PERMITTEE

DISTRICT ENGINEER

SIGNATURE OF PERMITTEE

LIMITATIONS ON WASTEWATER STRENGTH			
METALS	LOCAL MAX MG/L	FEDERAL MAX Mg/L	FEDERAL AVG Mg/L*
ARSENIC (As)	1.0	NA	NA
CADMIUM (Cd)	1.0	1.20	.70
CHROMIUM (Cr)	5.0	NA	NA
COPPER (Cu)	10.0	NA	NA
LEAD (Pb)	2.0	.60	.40
MERCURY (Hg)	0.5	NA	NA
NICKEL (Ni)	5.0	NA	NA
SILVER (Ag)	2.0	NA	NA
ZINC (Zn)	10.0	NA	NA

OTHER LIMITED CONSTITUENTS			
CYANIDE (Total)	1.0	5.00	2.70
PHENOLS	5.0	NA	NA
FLUORIDE	5.0	NA	NA
P.C.B.'s	0.01	NA	NA
T.I.C.H.	0.02	NA	NA
TOTAL TOXIC ORGANICS	NA	4.57	NA
OIL & GREASE	200	NA	NA
TEMPERATURE	150 Degrees Fahrenheit		
pH	11.0 Max	6.0 Min	

* Average is the average of 4 consecutive samples

BIMONTHLY DEMAND LIMITS		
BIOCHEMICAL OXYGEN DEMAND	N.D.	Pounds per Day
SUSPENDED SOLIDS	N.D.	Pounds per Day
FLOW	N.D.	Million Gallons/Day

CKC INCORPORATED

▲ Environmental Services
▲ Hazardous Waste Transportation
▲ Hazardous Materials Management
▲ General Engineering Construction

CONTRACTORS STATE LICENSE BOARD

Building Quality

ISSUED 07-06-88

No. 534002

This license is the property of the Registrar of Contractors, is not transferable, and shall be returned to the Registrar upon demand when suspended, revoked, or invalidated for any reason. It becomes void if not renewed.

Contractor's License

Pursuant to the provisions of Chapter 9 of Division 3 of the Business and Professions Code and the Rules and Regulations of the Contractors State License Board, the Registrar of Contractors does hereby issue this license to:

C K C INC CALIF CORP

to engage in the business or act in the capacity of a contractor in the following classification(s):

A GENERAL ENGINEERING CONTRACTOR

WITNESS *my hand and seal this* 13TH *day of* JULY 1988.

Registrar of Contractors

Signature of Licensee

Signature of person who qualified on behalf of the licensee

STATE AND CONSUMER SERVICES AGENCY
DEPARTMENT OF CONSUMER AFFAIRS

ATTACHMENT
VI-8

P.O. Box 2327 ▲ Paso Robles, CA 93447 ▲ (408) 627-2595 ▲ (805) 239-1060
FAX (408) 627-2584

CKC INCORPORATED

▲ Environmental Services
▲ Hazardous Waste Transportation
▲ Hazardous Materials Management
▲ General Engineering Construction

STATE OF CALIFORNIA
STATE AND CONSUMER SERVICES AGENCY
DEPARTMENT OF
Consumer Affairs

CONTRACTORS STATE LICENSE BOARD

Building Quality

HAZARDOUS SUBSTANCES REMOVAL AND REMEDIAL ACTIONS CERTIFICATION

Pursuant to the provisions of Section 7058.7 of the Business and Professions Code, the Registrar of Contractors does hereby certify that the following qualifying person has successfully completed the hazardous substances removal and remedial actions examination.

Qualifier: KARL F. WITTSTROM

License No.: 534002

Namestyle: C K C INC A CALIF CORP

DEPARTMENT OF CONSUMER AFFAIRS
REGISTRAR OF CONTRACTORS
STATE OF CALIFORNIA

WITNESS *my hand and official seal this*
27 *day of* OCTOBER, 1988

Registrar of Contractors

13L-36 (1/88)

This certification is the property of the Registrar of Contractors, is not transferable, and shall be returned to the Registrar upon demand when suspended, revoked, or invalidated for any reason.

P.O. Box 2327 ▲ Paso Robles, CA 93447 ▲ (408) 627-2595 ▲ (805) 239-1060
FAX (408) 627-2584

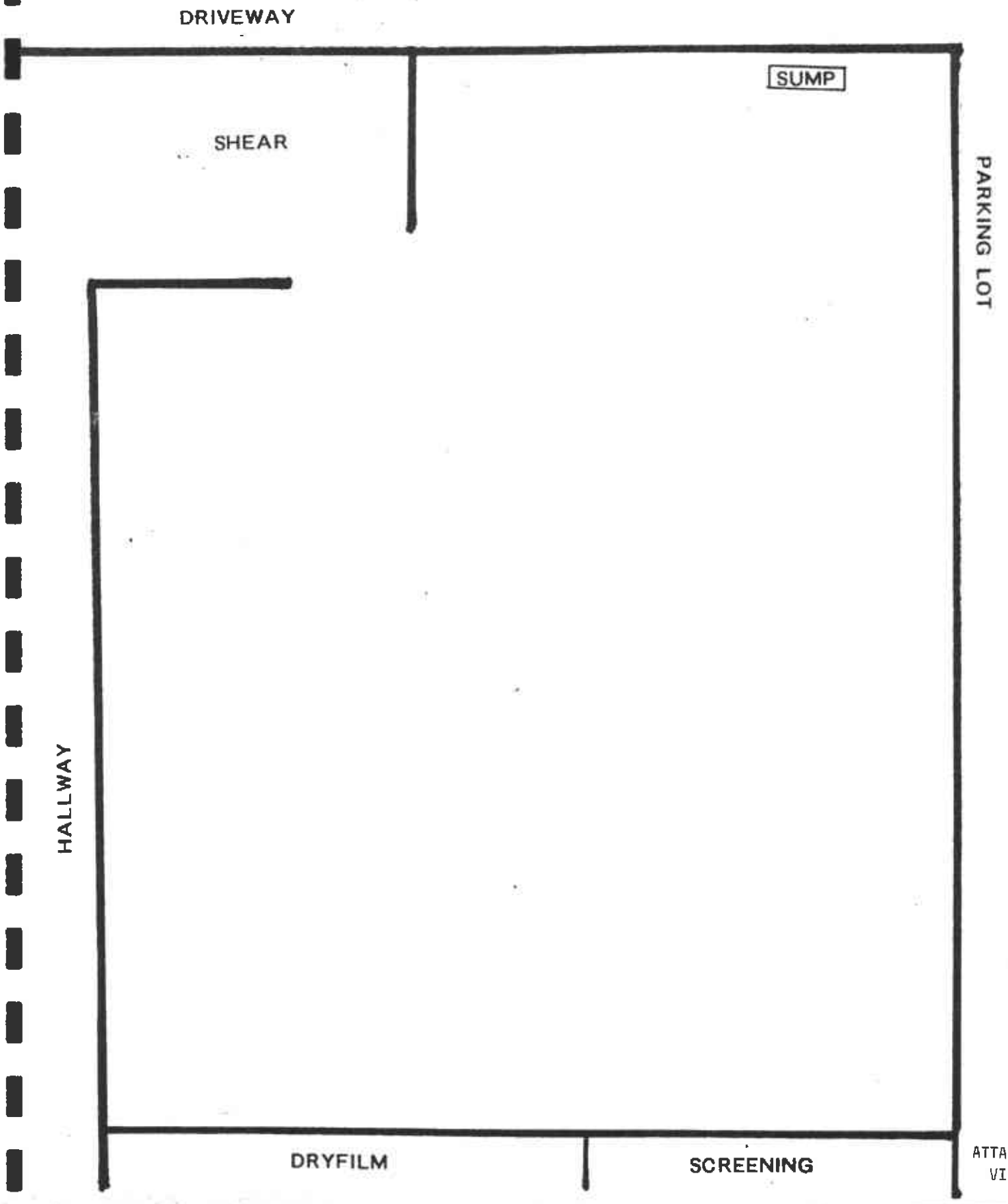
DUBLIN MULTILAYER INC

FIGURE A2

PLATING ROOM
"WET FLOOR"

< NORTH

SCALE: 1" = 7.4'



ATTACHMENT
VII-A2

DUBLIN MULTILAYER INC

FIGURE B

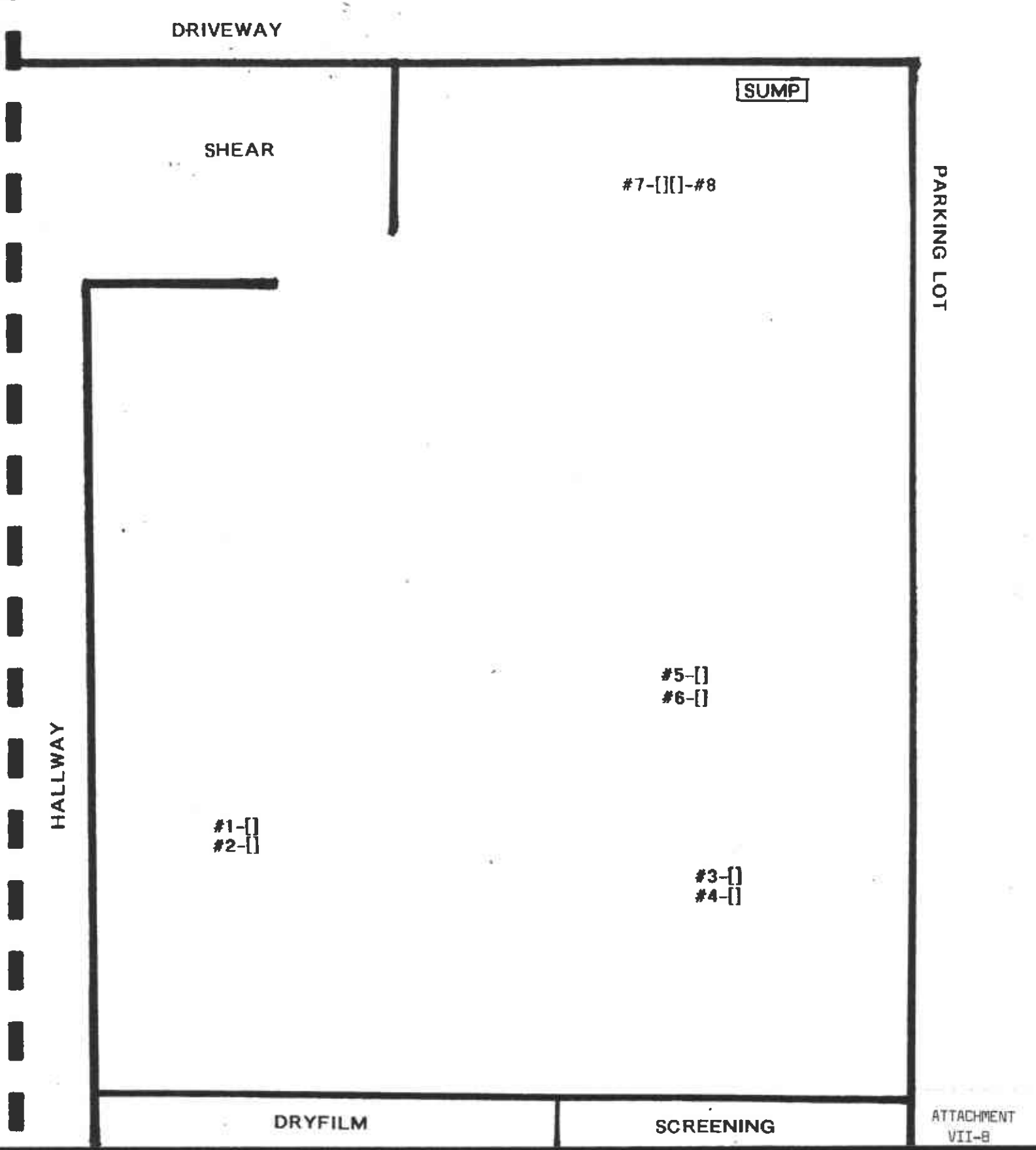
PLATING ROOM "WET FLOOR"

BLAINE TECH SERVICES 3/8/90

< NORTH

SCALE: 1" = 7.4'

WIPE SAMPLES



ATTACHMENT VII-B

DUBLIN MULTILAYER INC

FIGURE B

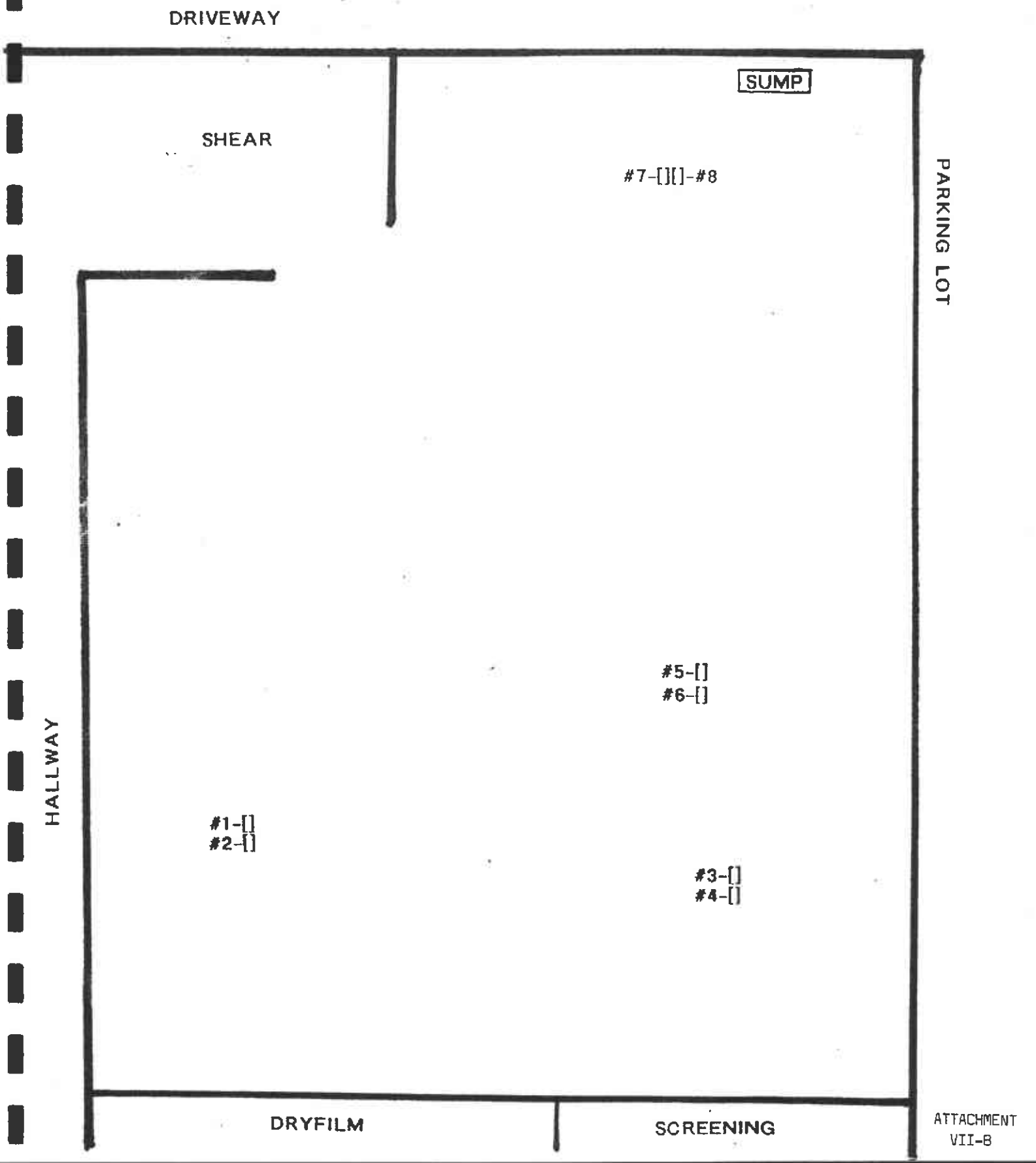
PLATING ROOM "WET FLOOR"

BLAINE TECH SERVICES 3/8/90

< NORTH

SCALE: 1" = 7.4'

WIPE SAMPLES



ATTACHMENT VII-B

DUBLIN MULTILAYER INC

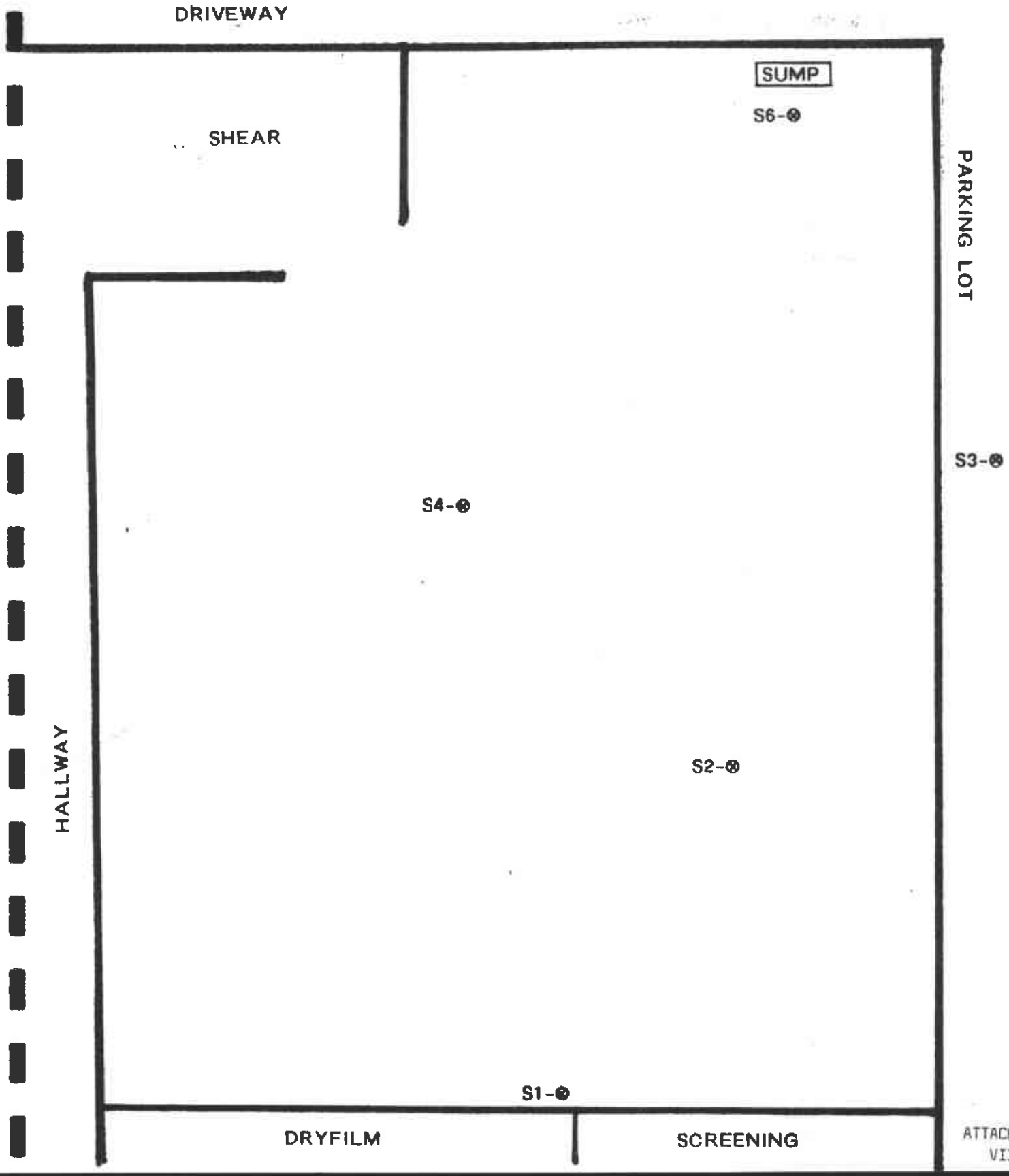
PLATING ROOM "WET FLOOR"

FIGURE C

WGR 3/27/90

NORTH

SCALE: 1" = 7.4'



ATTACHMENT VII-C

DUBLIN MULTILAYER INC

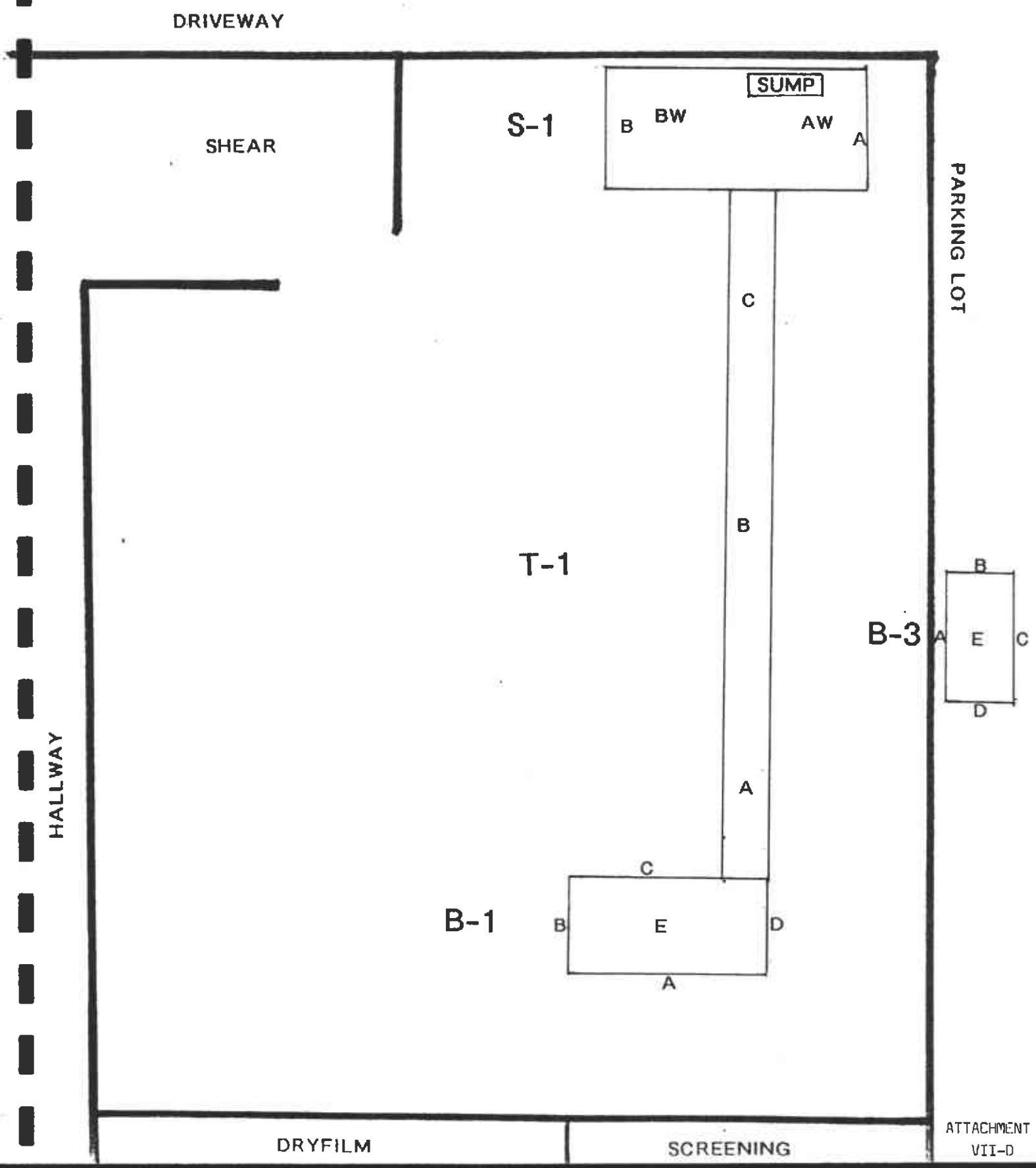
FIGURE D

PLATING ROOM
"WET FLOOR"

< NORTH

SCALE: 1" = 7.4'

WGR 5/17/90



ATTACHMENT VII-D

VII. FIGURES

FIGURE

VII-A1. Dublin Multilayer - plant/room layout (not to scale)

VII-A2. Dublin Multilayer - "wet floor"

VII-B. Dublin Multilayer - Blaine Tech (03/08/90) wipe sample locations

VII-C. Dublin Multilayer - Western Geologic Resources (03/27/90) core hole locations

VII-D. Dublin Multilayer - Western Geologic Resources (05/17/90) core hole locations