95 AUG -7 PM 3: 44

August 3, 1995

FINAL REPORT
for
SOIL OVEREXCAVATION AND
SUBSURFACE ASSESSMENT, NO. 2868
at
The Former Charles Lowe Facility
1400 Park Avenue
Emeryville, CA

Submitted by: AQUA SCIENCE ENGINEERS, INC. 2411 Old Crow Canyon Road, #4 San Ramon, CA 94583 (510) 820-9391



# 1.0 INTRODUCTION

This report documents the methods and findings of Aqua Science Engineer's, Inc. (ASE) overexcavation activities and limited soil and groundwater investigation at the former Charles Lowe facility located at 1400 Park Avenue in Emeryville, California (Figure 1). The field activities were conducted to address the concerns raised by Mr. Brian Oliva of the Alameda County Health Care Services Agency (ACHCSA) as detailed in his inspection report dated April 8, 1995 (Appendix A).

ASE was contracted to perform the overexcavation and assessment activities by the Thomas A. Short Company (TASCO) who recently purchased the assets of the Charles Lowe Company. The subsurface soil and groundwater issues still remain the property of the Charles Lowe Company.

#### 2.0 SITE HISTORY

The current property and building owner is Emeryville Properties of San Francisco, CA. The Charles Lowe Company occupied the property since the late 1970s, operating a machine shop that repaired, serviced and overhauled pumps, turbines, compressors, valves and the like.

Six (6) groundwater monitoring wells have been installed at the site by others to investigate for the presence of metals and volatile organic compounds (VOCs).

# 3.0 SCOPE OF WORK (SOW)

Based on the site history, the requirements as stated in the ACHCSA letter, and the site walk with TASCO and Charles Lowe Company representatives, ASE's SOW was as follows:

- 1. Prepare a site-specific health and safety plan.
- 2. Inspect the below-grade concrete areas for any discernable failures or cracks after areas have been thoroughly cleaned of residual debris and properly disposed of (Figure 2).
- 3. Excavate the accessible soil from below and around the floor of the former truck dock. Excavation boundaries were limited horizontally by the walls and foundation of the truck dock, and vertically by groundwater.

- 4. Using a vacuum truck service, evacuate groundwater from the excavation pit, as necessary, to allow for removal of additional contaminated soil.
- 5. Stockpile all overexcavated soil on plastic in the rear of the property.
- 6. Sample the native soil within the excavation pit. Samples were collected and chemically analyzed for all of the following: total extractable petroleum hydrocarbons (TEPH) as diesel and honing oil by EPA Method 3550/8015, oil and grease by EPA Method 5520 E & F, volatile organic compounds (VOCs) by EPA Method 8010, and CAM 17 metals by EPA Method 6000 series.
- 7. Sample the groundwater. Grab groundwater samples were collected and chemically analyzed for all of the following: TEPH as diesel and honing oil by EPA Method 3550/8015, oil and grease by EPA Method 5520 E & F, volatile organic compounds (VOCs) by EPA Method 8010, and CAM 17 metals by EPA Method 6000 series. Metals samples were filtered by the laboratory prior to analyses.
- 8. Sample the overburden/stockpiled soil. A composited sample was collected and chemically analyzed for all of the following: TPH-G and BTEX by EPA Method 5030/8015-8020, TEPH as diesel and honing oil by EPA Method 3550/8015, volatile organic compounds (VOCs) by EPA Method 8010, oil and grease by EPA Method 5520 E & F, semi-VOCs by EPA Method 8270, reactivity, corrosivity and ignitability (RCI), and for the LUFT five metals cadmium, chromium, lead, nickel and zinc by EPA Method 6000 series.
- 9. Manifest and dispose of all evacuated groundwater at a licensed recycling facility.
- 10. Backfill and compact the excavation with clean, imported, highly-compactable, sub-base granular fill.
- 11. Profile contaminated/stockpiled soil for acceptance into landfill facility.
- 12. Offhaul contaminated soil to appropriate landfill.
- 13. Resurface the excavation with concrete. Resurface the below-grade concrete areas with concrete.

14. Prepare a summary report detailing the methods and findings of the project.

# 4.0 PRE-EXCAVATION ACTIVITIES

# Workplan and Health and Safety Plan

Prior to any field work, ASE prepared a workplan detailing the proposed scope of work at the subject site. Included in the workplan was a detailed health and safety plan identifying any and all potential hazards at the site. The workplan was submitted to and approved by Mr. Brian Oliva of the ACHCSA.

#### 5.0 EXCAVATION ACTIVITIES

Project personnel at the site included David Allen and Steve Labar of ASE, Ms. Gwen Telligen representing the property owner, and Mr. Brian Oliva of the ACHCSA. Charles Lowe Company and TASCO representatives periodically visited the site.

On June 21, 1995, ASE mobilized to the site with a backhoe and operator to conduct overexcavation activities of the honing-process area (Figure 2). The honing process area took place in one of the buildings several truck bays. To gain access to the underlying soil beneath the truck bay floor, a breaker was used to destroy then remove the 6-8 inch thick concrete and rebar floor. The concrete was later hauled to Specialty Crushing Company in Emeryville where it was recycled.

Using the backhoe, obviously contaminated soil (odorous and heavily stained) was removed from the excavation to a depth of 9-feet below ground surface. The odorous and stained soil was found from just below the concrete floor to the total depth excavated; the same depth of groundwater, 9.0-feet. The excavation limits were 15-feet by 15-feet which is the area of the truck bay. Excavated soil was removed from the pit, loaded onto a dump truck, transported to the rear of the property and then stockpiled and covered with plastic.

Several times during the excavation activities, pooled groundwater was removed from the excavation by Waste Oil Recovery Services (WORS), a local vacuum truck service. All totaled, WORS removed 275 gallons of groundwater from the excavation. The water was later disposed of at a local recycling facility. A copy of the manifest is attached in Appendix A.

A total of 75 yards of contaminated soil was removed from the excavation. It appeared that stained and odorous soils no longer existed at depths below the static groundwater depth of 9.0-feet (see photographs 1 & 2). However, the sidewalls of the excavation still appeared to contain elevated levels of petroleum hydrocarbons based on visual inspection. Due to the proximity of the street, building and walls of the truck bay, the sidewalls could not be further overexcavated.

# 6.0 SAMPLE COLLECTION AND ANALYSES

Excavation Sidewall Soil Samples

After all the accessible, contaminated soil had been removed from the excavation, ASE collected soil samples from the sidewalls and bottom of the excavation. For a description and location of soil samples collected, see Table One and Figure 3.

All four sidewall soil samples were collected at a depth of 6-feet bgs. The 6-foot depth was selected because it best represented the soil contamination that could not be removed due to the proximity of the street, building and walls of the truck bay. The sidewall soil samples consisted of dark-gray to black, damp, silty clay.

**Excavation Bottom Soil Samples** 

Bottom of excavation soil samples were collected at a depth of 10-feet bgs, after the pooled groundwater had been evacuated. The 10-foot depth was selected because it best represented the non-contaminated soil below the former honing area. It appeared that soil contamination did not exist below the groundwater depth of 9-feet bgs. The bottom of excavation soil samples collected at 10-feet bgs consisted of light brown, saturated to wet silty sand.

Stockpiled/Contaminated Soil Samples

A four-point composite soil sample was collected from the stockpiled/contaminated soil. From four different locations on the pile, a discrete sample was collected. Upon receipt by the laboratory, the four samples were composited into one prior to analyses.

The afore-mentioned soil samples were collected then placed into a 6ounce, pre-cleaned, glass sample jar supplied by the analytical laboratory. Each sample was sealed with a plastic threaded cap, discretely labeled, placed in a plastic bag and stored on wet ice in a cooler for delivery to a CAL-EPA certified laboratory for chemical analysis under proper chain of custody procedures. ASE also collected duplicates of each soil sample for Ms. Telligen.

Soil Analyses

Soil samples were analyzed at American Environmental Network of Pleasant Hill, CA (DOHS No. 1172) for all of the following: total extractable petroleum hydrocarbons (TEPH) as diesel and honing oil by EPA Method 3550/8015, oil and grease by EPA Method 5520 E & F, volatile organic compounds (VOCs) by EPA Method 8010, and CAM 17 metals by EPA Method 6000 series.

# Grab Groundwater Sample

After allowing groundwater to recharge back into the excavation, ASE collected a grab groundwater sample. For a description and location of the water samples collected, see Table One and Figure 3. The groundwater was collected in 40-ml glass volatile organic analysis (VOA) vials, 1-liter amber glass bottles, and plastic bottles supplied by the laboratory. The samples were labeled and stored on wet ice for transport to the analytical laboratory under proper chain of custody procedures. ASE also collected duplicates of the water sample for Ms. Telligen.

Water Analyses

The grab groundwater samples were analyzed at American Environmental Network of Pleasant Hill, CA (DOHS No. 1172) for all of the following: TEPH as diesel and honing oil by EPA Method 3550/8015, oil and grease by EPA Method 5520 E & F, volatile organic compounds (VOCs) by EPA Method 8010, and CAM 17 metals by EPA Method 6000 series. Metals samples were filtered by the laboratory prior to analyses.

Analytical results for the soil and groundwater samples are tabulated in Table Two thru Table Six. Copies of the certified analytical reports are attached in Appendix B.

#### 7.0 BACKFILLING AND RESURFACING

On June 21 and July 13, 1995, imported backfill material was placed into the truck-bay excavation and compacted. Backfill material consisted of 118 tons of highly-compactable, sub-base, granular fill. The fill material was placed into the excavation in lifts and compacted. See Appendix C for a copy of the backfill tonnage. Upon completion of backfilling activities, the excavation was resurfaced with 6-8 inches of rebar-reinforced concrete.

ASE inspected the below-grade concrete areas for any discernable failures or cracks after they had been thoroughly cleaned of residual debris. All of the below-grade concrete areas appeared to in reasonably good shape without any obvious holes, cracks or integrity failures. ASE did not see any reason to warrant the need for subsurface sampling below any of the below-grade concrete areas. Therefore, each of the below-grade concrete areas were filled completely with wire-mesh and/or rebar-reinforced concrete to the surface of the existing concrete floor.

#### 8.0 OFFHAUL OF CONTAMINATED SOIL

Based on the analytical results of the stockpiled soil, ASE profiled the material into the Forward, Inc. landfill in Manteca, CA. The elevated concentrations of petroleum hydrocarbons require disposal of the stockpiled material at a Class II facility, which Forward's Manteca site is. On July 13, 1995, 112.36 tons of contaminated soil was transported to the Forward, Inc. landfill in Manteca, CA where it was disposed. See Appendix D for copies of the Acceptance Letter and manifests.

#### 9.0 CONCLUSIONS

112.36 tons of extractable range-petroleum hydrocarbons were excavated, then disposed of off-site, from the former honing area at the Charles Lowe facility in Emeryville, CA.

Elevated concentrations of extractable range-petroleum hydrocarbons and hydrocarbon oil & grease (as high as 870 parts per million (ppm) and 1400 ppm respectively) still remain in the sidewalls of the excavation. Further excavation and removal of these areas is not warranted due to the relation of the truck-bay walls, the street and the sidewalk.

Groundwater within the excavation contains elevated concentrations of extractable range-petroleum hydrocarbons (as high as 7,000 ppb total), hydrocarbon oil & grease (as high as 10,000 ppb), and volatile organic compounds (as high as 100 ppb trichloroethene). Since there were no VOCs detected in any soil samples collected from within the excavation and there is known groundwater VOC contamination from neighboring sites, it is believed that the trichloroethene and other VOCs found in the excavation pit water are the result of neighboring properties.

None of the excavation soil samples contained concentrations of CAM 17 metals above the TTLC for each metal.

# 10.0 RECOMMENDATIONS

Since all accessible contaminated soil within the honing process area has been removed from the site, ASE recommends no further soil excavation activities.

Due to the elevated concentrations of extractable-range petroleum hydrocarbons, oil & grease, and VOCs detected in the excavation pit water, the ACHCSA will most likely require the installation of a groundwater monitoring well downgradient of the former honing process area. ASE would propose to the ACHCSA that only one well be installed and that analyses be limited to only the oil range hydrocarbons found within the excavation. ASE would be able to use gradient information from the 6 existing monitoring wells to insure the proper placement of any additional wells.

Aqua Science Engineers appreciates the opportunity to assist TASCO and the Charles Lowe Company with their environmental needs. Should you have any questions or comments, please feel free to call us at (510) 820-9391.

No. REA-06211 Expires: <u>6</u> · 96

Respectfully submitted,

AQUA SCIENCE ENGINEERS, INC.

David Allen, R.E.A. Project Manager

Attachments: Figures 1, 2 & 3

Tables One thru Six Appendix A-D Photographs 1 & 2

cc: Mr. Thomas D. LaFlamme, TASCO President

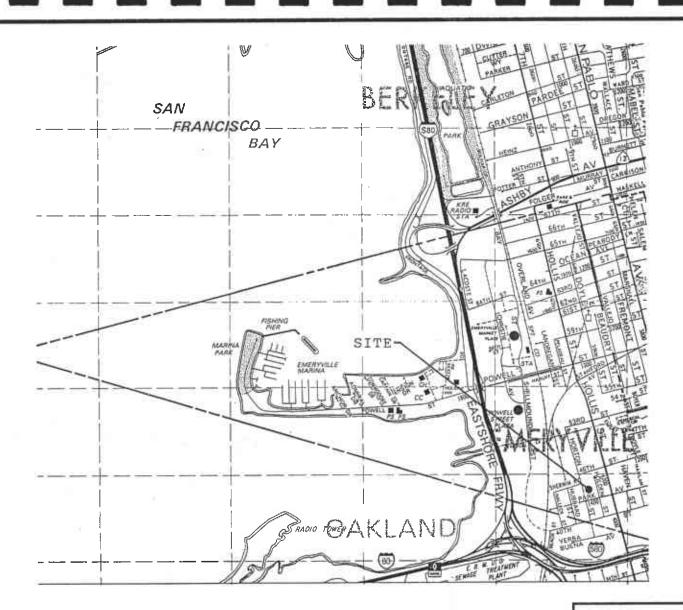
Mr. Steve Slade, Former Charles Lowe Company President

Mr. Brian Oliva, ACHCSA

Ms. Gwen Telligen, Environmental Oversight for Property Owner

Ms. Kari Erickson, Attorney for TASCO

1400 Park Avenue, Emeryville





# LOCATION MAP

Former Charles Lowe Facility 1400 Park Avenue Emeryville, California

Aqua Science Engineers

Figure 1

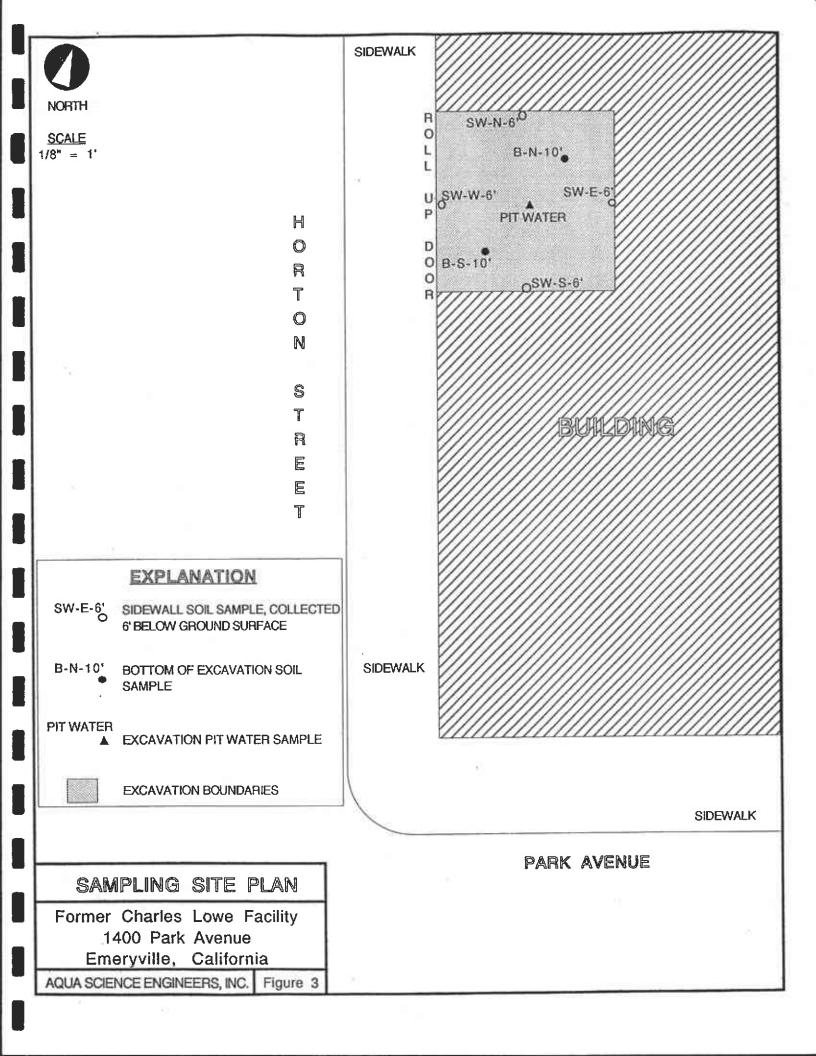


TABLE ONE
SAMPLE LOCATIONS - EXCAVATION PIT and STOCKPILE

Sample Identification	Location	<u>Depth</u>
(BGS)		
SW-N-6'	Northern Sidewall	6'
SW-S-6'	Southern Sidewall	6'
SW-W-6'	Western Sidewall	6'
SW-E-6'	Eastern Sidewall	6'
B-N-10'	Northern Bottom	10'
B-S-10'	Southern Bottom	10'
STKP	Stockpiled Soil	
PIT WATER	Groundwater within Excavation	10'

# TABLE TWO SOIL AND WATER SAMPLE RESULTS TOTAL EXTRACTABLE HYDROCARBONS All Results

Sample Id.	Mineral Spirit/ Kerosene Range Hydrocarbons (C8-C14)	Diesel Range Hydrocarbons (C14-C22)	Light Oil Range Hydrocarbons (C22-C32)	Motor Oil/ Asphalt Range Hydrocarbons (C32-C44)	Total Hydrocarbons
	*****	*****	*****	) <del>-</del>	
<u>SOIL</u>			_		
SW-N-6'	320	370	140	40	
SW-S-6'	540	140	62	14	
SW-W-6'	100	180	120	30	430
SW-E-6'	92	340	150	40	
B-N-10'	<10	<10	<10	<10	<b>SIO</b>
B-S-10'	<10	<10	<10	<10	<10
STKP	890	390	200	<50	
WATER					
PIT WATER	1.6	3.0	2.0	0.4	7.0
EPA METHOD	3550/ 8015	3550/ 8015	3550/ 8015	3550/ 8015	3550/ 8015

# TABLE THREE SOIL SAMPLE RESULTS OIL & GREASE AND VOCs

# All Results in Parts Per Million

Sample Id.	Total Oil & Grease	Hydrocarbon Oil & Grease	All VOCs
	******		
<b>SOIL</b>	100	-	
SW-N-6'	970	850	< 0.005-0.02
SW-S-6'	1100	890	< 0.005-0.02
SW-W-6'	970	810	< 0.005-0.02
SW-E-6'	1600	1400	< 0.005-0.02
B-N-10'	20	20	< 0.005-0.02
B-S-10'	20	20	< 0.005-0.02
STKP	1900	1900	<0.005-0.02
EPA METHOD	5520E	5520E&F	8010

# TABLE FOUR WATER SAMPLE RESULTS OIL & GREASE AND VOCs

# All Results in Parts Per Billion

Sample Id.	Total Oil & Grease	Hydrocarbon Oil & Grease	A11 VOCs
WATER	******	******	Control in
PIT WATER	11,000	cis trans T	2-Dichloroben 1,2-Dichloroethene @ s-1,2-Dichloroethene @ etrachloroethene @ 19.0 Trichloroethene Vinyl Chloride All Others @ <2
EPA METHOD	5520C	5520C&F	8010

# TABLE FIVE SOIL AND WATER SAMPLE RESULTS CAM 17 METALS

# All Results in Parts Per Million

CCR 17				
Metal	SW-W-6'	SW-E-6'	B-N-10'	PIT WATER
Silver	< 0.1	< 0.1	< 0.1	< 0.005
Arsenic	1	2.9	17	0.002
Barium	180	160	90	0.10
Beryllium	0.6	0.5	0.4	< 0.002
Cadmium	<0.2	< 0.2	< 0.2	< 0.005
Cobalt	7.9	6.5	11	< 0.005
Chromium	36	34	34	< 0.01
Copper	16	16	18	< 0.01
Mercury	<0.006	<0.006	< 0.006	< 0.0002
Molybdenum	<0.2	<0.2	0.2	< 0.01
Nickel	31	29	40	0.02
lead	6	6	6	< 0.04
Antimony	<1	<1	<1	< 0.02
Selenium	<Î	<1	<1	< 0.004
Thallium	3	4	4	< 0.05
Vanadium	28	26	39	< 0.005
Zinc	32	31	38	0.03
LINO	52	, , , , , , , , , , , , , , , , , , ,		
EPA	6000/	6000/	6000/	6000/
LIA	7000	7000	7000	7000
	1000	7000		

# TABLE SIX STOCKPILED SOIL SAMPLE RESULTS All Results in Parts Per Million

# TPH GASOLINE, BTEX

Sample Id.	TPH Gasoline	Benzene	Toluene	Ethyl Benzene	Total Xylenes
STKP	25	<0.005	<0.005	<0.005	<0.005
EPA METHOD	5030/ 8015	8020	8020	8020	8020

# FIVE METALS

Sample Id.	Cadmium	Chromium	Lead	Nickel	Zinc
STKP	<0.2	41	12	54	39
EPA METHOD	6010	6010	6010	6010	6010

# SEMI-VOLATILE ORGANIC COMPOUNDS

		A11
Sample		Other
Id.	Bis-Phthalate	SVOCs
		*****
STKP	2.4	< 0.33-1.6

#### See Instructions on back of page 6.

Department of Toxic Substances Control

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WASTE MANIFEST	918113191090512	anifest Document No.	, , ,	Information in the shaded areas is not required by Federal law.
3. Generator's Name and Mailing Address HINRLE	S LOWE OUN DARK AVE DILLE CALMERA	y)Ang x 94608	on Marileo) Decoment)	93730466
5. Transporter 1 Company Name  WASTE OIL PECCVERY	CA LOOO 13	759Z	nte Transportate (D.) In pager > Phone	43164 510 533 (1) 50
Transporter 2 Company Name     Designated Facility Name and Site Address	8. US EPA ID Number	1 1 1 E sure	ie Prajeportero ID insparte (1 Phone	
ALVISO INDEPENDENT OF 5002 ARCHER STREET ALVISO, CA 95002	10. US EPA 10 Number - P.O. P. C.X 124 CALLICAD D41	ACCOUNT.	nte raci fly(110)	4111111 82622719
11. US DOT Description (including Proper Shipping Name, Ho		12. Containers	13. Total	14. Unit   14. Unit
· WEDOIL NON RUPA		No. Type	Quantity	Wt/Vol 1 Waste Nontan
WASTE, LIGHTED ==	1,000	DOUTE	00275	G NAME ECA
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P#10				
d.	19	1.7	E 1535 F	Stole EPA/Other
I. Additional Description for Materials Unled Above  I.A. ) WASTE OIL AND W	ATER	A. Ha	adioq Godes for Worle	a Hided Algovi (2)
15. Special Handling Instructions and Additional Information WEAR PERSONAL PROTE 24 HOUR FAUREROFA				
ERG#27				
16. GENERATOR'S CERTIFICATION: I hereby declare that it packed, marked, and labeled, and are in all respects in p. If I am a large quantity generator, I certify that I have economically practicable and that I have selected the prothered to human health and the environment; OR, if I an waste management method that is available to me and the	a program in place to reduce the va orticable method of treatment, storage or a small quantity cenerator. I have a	lumii and toxicity of w	aste generated to the	utional government regulations.  degree I have determined to be minimizes the present and future
Printed/Typed Name DAVID ALLEN Accord for This U/c 17. Transporter 1 Acknowledgement of Receipt of Materials	wa Colle	0 al	20	06 7 1 9°
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IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802: WITHIN CALIFORNIA, CALL 1-800-852-7550

# APPENDIX B

Certified Analytical Report for Soil and Groundwater Samples

# American Environmental Network

# Certificate of Analysis

DOHS Certification: 1172

AIHA Accreditation: 11134

PAGE 1

AQUA SCIENCE ENGINEERS, INC 2411 OLD CROW CANYON RD. #4 SAN RAMON, CA 94583

ATTN: DAVID ALLEN CLIENT PROJ. ID: 2868

CLIENT PROJ. NAME: TASCO-LOWE

REPORT DATE: 07/07/95

DATE(S) SAMPLED: 06/21/95

DATE RECEIVED: 06/22/95

AEN WORK ORDER: 9506303

#### PROJECT SUMMARY:

On June 22, 1995, this laboratory received 9 (8 soil and 1 water) sample(s).

Client requested eight samples be analyzed for organic and inorganic parameters; one sample was placed on hold. Portion for reactivity was subcontracted to a DOHS certified laboratory; subcontract report will be forwarded at a later date. Results of analysis are summarized on the following pages. Please see quality control report for a summary of QC data pertaining to this project.

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

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

\_arry/Klein

Laboratory Director

PAGE 2

Total

# AQUA SCIENCE ENGINEERS, INC.

9506303 AEN JOB NO: DATE SAMPLED: 06/21/95 DATE RECEIVED: 06/22/95 CLIENT PROJ. ID: 2868

Purgeable Hydrocarbons

Client Sample Id	AEN Lab Id	Hydrocarbons as Gasoline (mg/kg)	Oil & Grease (mg/kg)	Hydrocarbons (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)
SW-N-6'	01		970	850				
SM-2-6.	02		1,100	890				
SM-M-6.	03		970	810				
SM-E-6,	04		1,600	1,400				
B-N-10°	06		20	20		•••		
B-S-10*	07		20	20	•••		,= <del>-</del>	
STKP	8Ô	25	1,900	1,900	ND	ND	ND	ND
Reporting	Limit:	1	10	10	0.005	0,005	0.005	0.02
Client Sample Id	AEN Lab Id	Purgeable Hydrocarbons as Gasoline (ug/L)	Dil & Grease (ug/L)	Hydrocarbons (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)
PITWATER	09	***	11,000	10,000			***	
Reporting	Limīt:		500	500				
EPA Method	:	5030 GCFID	5520C	5520F	8020	8020	8020	8020
Date Extra	cted:	NA	06/26/95 06/29/95 (08) 06/28/95 (09)	06/26/95 06/29/95 (08) 06/28/95 (09)	NA	АИ	NA	NA
Date Analy	zed:	06/26/95	06/27/95 06/29/95 (08) 06/28/95 (09)	06/28/95 06/29/95 (08) 06/28/95 (09)	06/26/95	06/26/95	06/26/95	06/26/95

Reporting limits were elevated for gasoline/BTEX due to high levels of non-target compounds; sample was run at a dilution. NA = Not Applicable ND = Not Detected

# AQUA SCIENCE ENGINEERS, INC.

AEN JOB NO: 9506303 DATE SAMPLED: 06/21/95 DATE RECEIVED: 06/22/95 CLIENT PROJ. ID: 2868

Client Sample Id.	AEN Lab Id.	Mineral Spirit/ Kerosene Range Hydrocarbons C8 - C14 (mg/kg)	Diesel Range Hydrocarbons C14 - C22 (mg/kg)	Light Oil Range Hydrocarbons C22 - C32 (mg/kg)	Motor Oil/ Asphalt Range Hydrocarbons C32 - C44 (mg/kg)	Total (mg/kg)
SW-N-6'	01	320	370	140	40	870
SW-S-6'	02	540	140	62	14	750
SW-W-6'	03	100	180	120	30	430
SW-E-6'	04	92	340	150	40	620
B-N-10'	06	ND	ND	ND	ND	ND
B-S-10'	07	ND	ND	ND	ND	ND
STKP	08	890 (10)	390 (10)	200 (50)	ND (50)	1500
Reporting L (unless o		1 oted by parentheses)	1	1	5	

EPA Method: EPA 3550 GCFID

Client Sample Id.	AEN Lab Id.	Mineral Spirit/ Kerosene Range Hydrocarbons C8 - C14 (ug/L)	Diesel Range Hydrocarbons C14 - C22 (ug/L)	Light Oil Range Hydrocarbons C22 - C32 (ug/L)	Motor Dil/ Asphalt Range Hydrocarbons C32 - C44 (ug/L)	Total (ug/L)
PITWATER	09	1,600	3,000	2,000	400	7,000
Reporting L	imit:	0.05	0.05	0.2	0.2	

EPA Method: EPA 3510 GCFID

Date Extracted: 06/23/95

06/29/95 (02)

Date Analyzed: 06/26-27/95 07/01/95 (02)

ND = Not Detected

# AQUA SCIENCE ENGINEERS, INC

SAMPLE ID: SW-N-6' AEN LAB NO: 9506303-01 AEN WORK ORDER: 9506303 CLIENT PROJ. ID: 2868

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
EPA 8010 - Soil matrix E	PA 8010				
Bromodichloromethane	75-27-4	ND	0.005	mg/kg	06/27/95
Bromoform	75-25-2	ND	0.005	mg/kg	06/27/9
Bromomethane	74-83-9	ND	0.02	mg/kg	06/27/9
Carbon Tetrachloride	56-23-5	ND	0.005	mg/kg	06/27/9
Chlorobenzene	108-90-7	ND	0.005	mg/kg	06/27/9
Chloroethane	75-00-3	ND	0.02	mg/kg	06/27/9
2-Chloroethyl Vinyl Ether	110-75-8	ND	0.005	mg/kg	06/27/9
Chloroform	67-66-3	ND	0.005	mg/kg	06/27/9
Chloromethane	74-87-3	ND	0.02	mg/kg	06/27/9
Dibromochloromethane	124-48-1	ND	0.005	mg/kg	06/27/9
1,2-Dichlorobenzene	95-50 <b>-</b> 1	ND	0.005	mg/kg	06/27/9
1,3-Dichlorobenzene	541-73-1	ND	0.005	mg/kg	06/27/9
1.4-Dichlorobenzene	106-46-7	ND	0.005	mg/kg	06/27/9
Dichlorodifluoromethane	75-71-8	ND	0.02	mg/kg	06/27/9
1,1-Dichloroethane	75-34-3	ND	0.005	mg/kg	06/27/9
1,2-Dichloroethane	107-06-2	ND	0.005	mg/kg	06/27/9
1,1-Dichloroethene	75-35-4	ND	0.005	mg/kg	06/27/9
cis-1,2-Dichloroethene	156-59-2	ND	0.005	mg/kg	06/27/9
trans-1,2-Dichloroethene	156-60-5	ND	0.005	mg/kg	06/27/9
1,2-Dichloropropane	78-87-5	ND	0.005	mg/kg	06/27/9
cis-1,3-Dichloropropene	10061-01-5	ND	0.005	mg/kg	06/27/9
trans-1,3-Dichloropropene	10061-02-6	ND	0.005	mg/kg	06/27/9
Methylene Chloride	75-09-2	ND	0.02	mg/kg	06/27/9
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.005	mg/kg	06/27/9
Tetrachloroethene	127-18-4	ND	0.005	mg/kg	06/27/9
1,1,1-Trichloroethane	71-55-6	ND	0.005	mg/kg	06/27/9
1,1,2-Trichloroethane	79-00-5	ND	0.005	mg/kg	06/27/9
Trichloroethene	79-01-6	ND	0.005	mg/kg	06/27/9
Trichlorofluoromethane	75-69-4	ND	0.02	mg/kg	06/27/9
1,1,2Trichlorotrifluoroethane		ND	0.005	mg/kg	06/27/9
Vinyl Chloride	75-01-4	ND	0.02	mg/kg	06/27/

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

# AQUA SCIENCE ENGINEERS, INC

SAMPLE ID: SW-S-6' AEN LAB NO: 9506303-02 AEN WORK ORDER: 9506303 CLIENT PROJ. ID: 2868

DATE SAMPLED: 06/21/95 DATE RECEIVED: 06/22/95 REPORT DATE: 07/07/95

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
	DA 0010				
<del></del>	PA 8010	ND	0.005	mg/kg	06/27/95
Bromodichloromethane	75-27-4 75-25-2	ND ND	0.005	mg/kg	06/27/95
Bromoform		ND	0.003	mg/kg	06/27/95
Bromomethane	74-83-9	ND ND	0.005	mg/kg	06/27/95
Carbon Tetrachloride	56-23-5 108-90-7	ND ND	0.005	mg/kg	06/27/95
Chlorobenzene		ND ND	0.003	mg/kg	06/27/95
Chloroethane	75-00-3	טא ND	0.02	mg/kg	06/27/95
2-Chloroethyl Vinyl Ether	110-75-8		0.005	mg/kg	06/27/95
Chloroform	67-66-3	ND	0.003		06/27/95
Chloromethane	74-87-3	ND	0.02	mg/kg mg/kg	06/27/95
Dibromochloromethane	124-48-1	ND	0.005	mg/kg	06/27/95
1,2-Dichlorobenzene	95-50-1	ND	0.005	mg/kg	06/27/95
1,3-Dichlorobenzene	541-73-1	ND ND	0.005	mg/kg	06/27/95
1.4-Dichlorobenzene	106-46-7	ND ND	0.003	mg/kg	06/27/95
Dichlorodifluoromethane	75-71-8	ND	0.02	mg/kg	06/27/95
1,1-Dichloroethane	75-34-3	ND	0.005	mg/kg	06/27/95
1.2-Dichloroethane	107-06-2	ND ND	0.005	mg/kg	06/27/95
1,1-Dichloroethene	75-35-4	ND ND	0.005	mg/kg	06/27/95
cis-1,2-Dichloroethene	156-59-2	ND ND	0.005		06/27/95
trans-1,2-Dichloroethene	156-60-5		0.005	mg/kg	06/27/95
1,2-Dichloropropane	78-87-5	ND	0.005	mg/kg mg/kg	06/27/95
cis-1,3-Dichloropropene	10061-01-5	ND ND	0.005	mg/kg	06/27/95
trans-1,3-Dichloropropene	10061-02-6	ND ND	0.003		06/27/95
Methylene Chloride	75-09-2	ND ND	0.005	mg/kg mg/kg	06/27/95
1,1,2,2-Tetrachloroethane	79-34-5		0.005	mg/kg	06/27/95
Tetrachloroethene	127-18-4	ND ND	0.005		06/27/95
1,1,1-Trichloroethane	71-55-6	ND	0.005	mg/kg mg/kg	06/27/95
1,1,2-Trichloroethane	79-00-5	ND ND	0.005	mg/kg	06/27/99
Trichloroethene	79-01-6	ND ND	0.03	mg/kg	06/27/95
Trichlorofluoromethane	75-69-4	ND ND	0.02	mg/kg	06/27/99
1,1,2Trichlorotrifluoroethane Vinyl Chloride	75-01-4	ND ND	0.003	mg/kg	06/27/9

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

# AQUA SCIENCE ENGINEERS, INC

SAMPLE ID: SW-W-6' AEN LAB NO: 9506303-03 AEN WORK ORDER: 9506303 CLIENT PROJ. ID: 2868

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Digestion, Metals by GFAA	EPA 3050	-		Prep Date	06/22/95
#Digestion, Metals AA/ICP	EPA 3050	: -		Prep Date	06/22/95
CCR 17 Metals  Ag Silver  As Arsenic  Ba Barium  Be Beryllium  Cd Cadmium  Co Cobalt  Cr Chromium  Cu Copper  Hg Mercury  Mo Molybdenum  Ni Nickel  Pb Lead  Sb Antimony  Se Selenium  T1 Thallium  V Vanadium  Zn Zinc	EPA 6010 EPA 7060 EPA 6010	ND 1.0 * 180 * 0.6 * ND 7.9 * 36 * ND ND 31 * ND ND 31 * 28 * 32 *	1 0.1 0.2 0.2 0.5 0.06 0.2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	mg/kg	06/25/95 06/23/95 06/25/95 06/25/95 06/25/95 06/25/95 06/25/95 06/25/95 06/25/95 06/25/95 06/25/95 06/25/95 06/25/95
EPA 8010 - Soil matrix Bromodichloromethane Bromoform Bromomethane Carbon Tetrachloride Chlorobenzene Chloroethane 2-Chloroethyl Vinyl Ether Chloroform Chloromethane Dibromochloromethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene Dichlorodifluoromethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethene cis-1,2-Dichloroethene	EPA 8010 75-27-4 75-25-2 74-83-9 56-23-5 108-90-7 75-00-3 110-75-8 67-66-3 74-87-3 124-48-1 95-50-1 541-73-1 106-46-7 75-71-8 75-34-3 107-06-2 75-35-4 156-59-2	ND ND ND ND ND ND ND ND ND ND ND	0.005 0.005 0.005 0.005 0.005 0.005 0.005 0.005 0.005 0.005 0.005 0.005	mg/kg	06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95

# AQUA SCIENCE ENGINEERS, INC

SAMPLE ID: SW-W-6 AEN LAB NO: 9506303-03 AEN WORK ORDER: 9506303 CLIENT PROJ. ID: 2868 DATE SAMPLED: 06/21/95 DATE RECEIVED: 06/22/95 REPORT DATE: 07/07/95

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
trans-1,2-Dichloroethene 1,2-Dichloropropane cis-1,3-Dichloropropene trans-1,3-Dichloropropene Methylene Chloride 1,1,2,2-Tetrachloroethane Tetrachloroethene 1,1,1-Trichloroethane 1,1,2-Trichloroethane Trichloroethene Trichlorofluoromethane 1,1,2Trichlorotrifluoroethane	156-60-5 78-87-5 10061-01-5 10061-02-6 75-09-2 79-34-5 127-18-4 71-55-6 79-00-5 79-01-6 75-69-4	ND ND ND ND ND ND ND ND ND	0.005 0.005 0.005 0.005 0.005 0.005 0.005 0.005 0.005	mg/kg	06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95

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

# AQUA SCIENCE ENGINEERS, INC

SAMPLE ID: SW-E-6' AEN LAB NO: 9506303-04 AEN WORK ORDER: 9506303 CLIENT PROJ. ID: 2868

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Digestion, Metals by GFAA	EPA 3050	-		Prep Date	06/22/95
#Digestion, Metals AA/ICP	EPA 3050	. · · -		Prep Date	06/22/95
CCR 17 Metals Ag Silver As Arsenic Ba Barium Be Beryllium Cd Cadmium Co Cobalt Cr Chromium Cu Copper Hg Mercury Mo Molybdenum Ni Nickel Pb Lead Sb Antimony Se Selenium Tl Thallium V Vanadium Zn Zinc	EPA 6010 EPA 7060 EPA 6010	ND	1 0.1 0.2 0.2 0.5 0.5 0.06 0.2 1 1 1 1 0.5	mg/kg	06/25/95 06/23/95 06/25/95 06/25/95 06/25/95 06/25/95 06/25/95 06/25/95 06/25/95 06/25/95 06/25/95 06/25/95 06/25/95 06/25/95
EPA 8010 - Soil matrix Bromodichloromethane Bromoform Bromomethane Carbon Tetrachloride Chlorobenzene Chloroethane 2-Chloroethyl Vinyl Ether Chloroform Chloromethane Dibromochloromethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene Dichlorodifluoromethane 1,1-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,1-Dichloroethene cis-1,2-Dichloroethene	EPA 8010 75-27-4 75-25-2 74-83-9 56-23-5 108-90-7 75-00-3 110-75-8 67-66-3 74-87-3 124-48-1 95-50-1 541-73-1 106-46-7 75-71-8 75-34-3 107-06-2 75-35-4 156-59-2	ND ND ND ND ND ND ND ND ND ND ND ND	0.005 0.005 0.02 0.005 0.005 0.005 0.005 0.005 0.005 0.005 0.005 0.005 0.005	mg/kg	06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95

# AQUA SCIENCE ENGINEERS, INC

SAMPLE ID: SW-E-6' AEN LAB NO: 9506303-04 AEN WORK ORDER: 9506303 CLIENT PROJ. ID: 2868

DATE SAMPLED: 06/21/95 DATE RECEIVED: 06/22/95 REPORT DATE: 07/07/95

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Trichloroethene	156-60-5 78-87-5 10061-01-5 10061-02-6 75-09-2 79-34-5 127-18-4 71-55-6 79-00-5 79-01-6 75-69-4 76-13-1 75-01-4	ND ND ND ND ND ND ND ND ND	0.005 0.005 0.005 0.02 0.005 0.005 0.005 0.005 0.02	mg/kg	06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95

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

# AQUA SCIENCE ENGINEERS, INC

SAMPLE ID: B-N-10' AEN LAB NO: 9506303-06 AEN WORK ORDER: 9506303 CLIENT PROJ. ID: 2868

ANALYTE	METHOD/ CAS#		ORTING IMIT	UNITS	DATE ANALYZED
#Digestion, Metals by GFAA	EPA: 3050	-		Prep Date	06/22/95
#Digestion, Metals AA/ICP	EPA 3050	~		Prep Date	06/22/95
CCR 17 Metals Ag Silver As Arsenic Ba Barium Be Beryllium Cd Cadmium Co Cobalt Cr Chromium Cu Copper Hg Mercury Mo Molybdenum Ni Nickel Pb Lead Sb Antimony Se Selenium Tl Thallium V Vanadium Zn Zinc	EPA 6010 EPA 7060 EPA 6010	ND 17 * 90 * 0.4 * ND 11 * 34 * ND 0.2 * 40 * 6 * ND ND 4 * 39 * 38 *	0.1 0.5 1 0.1 0.2 0.2 0.5 0.5 0.06 0.2 1 1 1 0.5 1	mg/kg	06/25/95 06/23/95 06/25/95 06/25/95 06/25/95 06/25/95 06/25/95 06/25/95 06/25/95 06/25/95 06/25/95 06/25/95 06/25/95 06/25/95
EPA 8010 - Soil matrix Bromodichloromethane Bromoform Bromomethane Carbon Tetrachloride Chlorobenzene Chloroethane 2-Chloroethyl Vinyl Ether Chloroform Chloromethane Dibromochloromethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene Dichlorodifluoromethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethene cis-1,2-Dichloroethene	EPA 8010 75-27-4 75-25-2 74-83-9 56-23-5 108-90-7 75-00-3 110-75-8 67-66-3 74-87-3 124-48-1 95-50-1 541-73-1 106-46-7 75-71-8 75-34-3 107-06-2 75-35-4 156-59-2	ND ND ND ND ND ND ND ND ND ND	0.005 0.005 0.005 0.005 0.005 0.005 0.005 0.005 0.005 0.005 0.005 0.005 0.005	mg/kg	06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95

# AQUA SCIENCE ENGINEERS, INC

SAMPLE ID: B-N-10' AEN LAB NO: 9506303-06 AEN WORK ORDER: 9506303 CLIENT PROJ. ID: 2868

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
trans-1,2-Dichloroethene 1,2-Dichloropropane cis-1,3-Dichloropropene trans-1,3-Dichloropropene Methylene Chloride 1,1,2,2-Tetrachloroethane Tetrachloroethene 1,1,1-Trichloroethane 1,1,2-Trichloroethane Trichloroethene Trichloroethene Trichlorofluoromethane 1,1,2Trichlorotrifluoroethane Vinyl Chloride	156-60-5 78-87-5 10061-01-5 10061-02-6 75-09-2 79-34-5 127-18-4 71-55-6 79-00-5 79-01-6 75-69-4 76-13-1 75-01-4	ND ND ND ND ND ND ND ND ND ND	0.005 0.005 0.005 0.005 0.005 0.005 0.005 0.005 0.005 0.005	mg/kg	06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95

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

# AQUA SCIENCE ENGINEERS, INC

SAMPLE ID: B-S-10' AEN LAB NO: 9506303-07 AEN WORK ORDER: 9506303 CLIENT PROJ. ID: 2868

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Bromodichloromethane Bromoform Bromomethane Carbon Tetrachloride Chlorobenzene Chloroethane 2-Chloroethyl Vinyl Ether	A 8010 75-27-4 75-25-2 74-83-9 56-23-5 108-90-7 75-00-3 110-75-8 67-66-3 74-87-3 124-48-1 95-50-1 541-73-1 106-46-7 75-71-8 75-34-3 107-06-2 75-35-4 156-59-2 156-60-5 78-87-5 10061-01-5 10061-02-6 75-09-2 79-34-5 127-18-4 71-55-6 79-01-6 75-69-4 76-13-1 75-01-4		0.005 0.005 0.005 0.005 0.005 0.005 0.005 0.005 0.005 0.005 0.005 0.005 0.005 0.005 0.005 0.005 0.005 0.005 0.005 0.005	mg/kg mg/kkg mg/kkg mg/kkg mg/kkg mg/kkg mg/kkg mg/kkg mg/kkkg mg/kkkg mg/kkkg mg/kkkg mg/kg mg/kg mg	06/27/95 06/27/95

 $ND = Not detected at or above the reporting limit <math>\star = Value at or above reporting limit$ 

# AQUA SCIENCE ENGINEERS, INC

SAMPLE ID: STKP

AEN LAB NO: 9506303-08 AEN WORK ORDER: 9506303 CLIENT PROJ. ID: 2868

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Corrosivity in soil (pH)	EPA 9045	8.3		S.U.	06/26/95
Ignitability in solid	CFR40/261.21	NEGATIVE		@	06/28/95
	EPA 3050		·	Prep Date	06/22/95
Cadmium	EPA 6010	П	0.2	mg/kg	06/25/95
Chromium	EPA 6010	41	* 0.5	mg/kg	06/25/95
Lead	EPA 6010	12	* 1	mg/kg	06/25/95
Nickel	EPA 6010	54	* 1	mg/kg	06/25/95
Zinc	EPA 6010	39	* 1	mg/kg	06/25/95
#Extraction for BNAs	EPA 3550	-	•	Extrn Date	e 06/23/95
Semi-Volatile Organics Acenaphthene Acenaphthylene Anthracene Benzidine Benzoic Acid Benzo(a)anthracene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(g,h,i)perylene Benzo(a)pyrene Benzyl Alcohol Bis(2-chloroethoxy)methane Bis(2-chloroisopropyl) Ether Bis(2-chloroisopropyl) Ether Bis(2-ethylhexyl) Phthalate 4-Bromophenyl Phenyl Ether Butylbenzyl Phthalate 4-Chloroaniline 2-Chloronaphthalene 4-Chlorophenyl Phenyl Ether Chrysene Dibenzo(a,h)anthracene Dibenzofuran	117-81-7 101-55-3 85-68-7 106-47-8 91-58-7	ND N	0.33 0.33 0.33 1.6 1.6 0.33 0.33 0.33 0.33 0.33 0.33 0.33 0.	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	06/28/95 06/28/95

# AQUA SCIENCE ENGINEERS, INC

SAMPLE ID: STKP AEN LAB NO: 9506303-08 AEN WORK ORDER: 9506303 CLIENT PROJ. ID: 2868

**DATE SAMPLED: 06/21/95** DATE RECEIVED: 06/22/95

REPORT DATE: 07/07/95

NALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZE
Di-n-butyl Phthalate	84-74-2	ND	0.33	mg/kg	06/28/9
1.2-Dichlorobenzene	95-50-1	ND	0.33	mg/kg	06/28/9
1,3-Dichlorobenzene	541-73-1	ND	0.33	mg/kg	06/28/9
1,4-Dichlorobenzene	106-46-7	ND	0.33	mg∕kg	06/28/9
3,3'-Dichlorobenzidine	91-94-1	ND	0.66	mg/kg	06/28/9
Diethyl Phthalate	84-66-2	ND	0.33	mg/kg	06/28/9
Dimethyl Phthalate	131-11-3	ND	0.33	mg∕kg	06/28/9
2,4-Dinitrotoluene	121-14-2	ND	0.33	mg∕kg̃	06/28/9
2,6-Dinitrotoluene	606-20-2	ND	0.33	mg/kg	06/28/9
Di-n-octyl Phthalate	117-84-0	ND	0.133	πg/kg	06/28/9
Fluoranthene	206-44-0	ND	0.33	mg/kg	06/28/
Fluorene	86-73-7	ND	0.33	mg/kg	06/28/9
Hexachlorobenzene	118-74-1	ND	0.33	mg/kg	06/28/
Hexachlorobutadiene	87-68-3	ND	0.33	mg/kg	06/28/
Hexachlorocyclopentadiene	77-47-4	DN	0.33	mg/kg	06/28/
Hexachloroethane	67-72-1	ND	0.33	mg/kg	06/28/
Indeno(1,2,3-cd)pyrene	193-39-5	ND	0.33	mg/kg	06/28/
Isophorone	78-59-1	ND	0.33	mg/kg	06/28/
2-Methylnaphthalene	91-57-6	ND	0.33	mg/kg	06/28/
Naphthalene	91-20-3	ND	0.33	mg/kg	06/28/
2-Nitroaniline	88-74-4	ND	1.6	mg/kg	06/28/
3-Nitroaniline	99-09-2	ND	1.6	mǧ/kḡ	06/28/
4-Nitroaniline	100-01-6	ND	1.6	mg/kg	06/28/
Nitrobenzene	98-95-3	ND	0.33	mg/kg	06/28/
N-Nitrosodiphenylamine	86-30-6	ND	0.33	mg/kg	06/28/
N-Nitrosodi-n-propylamine	621-64-7	ND	0.33	mg/kg	06/28/
Phenanthrene	85-01-8	ND	0.33	mg/kg	06/28/
Pyrene	129-00-0	ND	0.33	mg/kg	06/28/
1,2,4-Trichlorobenzene	120-82-1	ND	0.33	mg/kg	06/28/
4-Chloro-3-methylphenol	59-50-7	ND	0.33	mg/kg	06/28/
2-Chlorophenol ''	95-57-8	ND	0.33	mg/kg	06/28/
2,4-Dichlorophenol	120-83-2	ND	0.33	mg/kg	06/28/
2,4-Dimethylphenol	105-67-9	ND	0.33	mg/kg	06/28/
4,6-Dinitro-2-methylphenol	534-52-1	ND	1.6	mg/kg	06/28/
2,4-Dinitrophenol	51-28-5	ND	1.6	mg/kg	06/28/
2-Methylphenol	95-48-7	ND	0.33	mg/kg	06/28/
4-Methylphenol	106-44-5	ND	0.33	mg/kg	06/28/
2-Nitrophenol	88-75-5	ND	0.33	mg/kg	06/28/
4-Nitrophenol	100-02-7	ND	1.6	mg/kg	06/28/
Pentachlorophenol	87-86-5	ND	1.6	mg/kg	06/28/
Pheno1	108-95-2	ND	0.33	mg/kg	06/28/
2.4,5-Trichlorophenol	95-95-4	ND	0.33	mg/kg	06/28/
2,4,6-Trichlorophenol	88-06-2	ND	0.33	mg/kg	06/28/

# AQUA SCIENCE ENGINEERS, INC

SAMPLE ID: STKP

AEN LAB NO: 9506303-08 AEN WORK ORDER: 9506303 CLIENT PROJ. ID: 2868

**DATE SAMPLED: 06/21/95** DATE RECEIVED: 06/22/95

**REPORT DATE:** 07/07/95

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
	1.0. (Mr. 1972) - (Mr. 1972)				
<b></b>	PA 8010				00/07/05
Bromodichloromethane	75-27-4	ND	0.005	mg/kg	06/27/95
Bromoform	75-25-2	, ND	0.005	mg/kg	06/27/95
Bromomethane	74-83-9	ND	0.02	mg/kg	06/27/95
Carbon Tetrachloride	56-23-5	ND	0.005	mg/kg	06/27/95
Chlorobenzene	108-90-7	ND	0.005	mg/kg	06/27/95
Chloroethane	75-00-3	ND	0.02	mg/kg	06/27/95
2-Chloroethyl Vinyl Ether	110-75-8	ND	0.005	mg/kg	06/27/95
Chloroform	67-66-3	ND	0.005	mg/kg	06/27/95
Chloromethane	74-87-3	ND	0.02	mg/kg	06/27/95
Dibromochloromethane	124-48-1	ND	0.005	mg/kg	06/27/95
1,2-Dichlorobenzene	95-50-1	ND	0.005	mg/kg	06/27/95
1,3-Dichlorobenzene	541-73-1	ND	0.005	mg/kg	06/27/95
1,4-Dichlorobenzene	106-46-7	ND	0.005	mg/kg	06/27/95
Dichlorodifluoromethane	75-71-8	ND	0.02	mg/kg	06/27/95
1,1-Dichloroethane	75-34-3	ND	0.005	mg/kg	06/27/95
1.2-Dichloroethane	107-06-2	ND	0.005	mg/kg	06/27/95
1,1-Dichloroethene	75-35-4	ND	0.005	mg/kg	06/27/95
cis-1,2-Dichloroethene	156-59-2	ND	0.005	mg/kg	06/27/95
trans-1,2-Dichloroethene	156-60-5	ND	0.005	mg/kg	06/27/95
1,2-Dichloropropane	78-87-5	, ND	0.005	mg/kg	06/27/95
cis-1,3-Dichloropropene	10061-01-5	ND	0.005	mg/kg	06/27/95
trans-1.3-Dichloropropene	10061-02-6	ND	0.005	mg/kg	06/27/95
Methylene Chloride	75-09-2	ND	0.02	mg/kg	06/27/95
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.005	mg/kg	06/27/95
Tetrachloroethene	127-18-4	ND	0.005	mg/kg	06/27/95
1,1,1-Trichloroethane	71-55-6	ND	0.005	mg/kg	06/27/95 06/27/95
1,1,2-Trichloroethane	79-00-5	ND	0.005	mg/kg	06/27/95
Trichloroethene	79-01-6	ND	0.005	mg/kg	06/27/95
Trichlorofluoromethane	75-69-4	ND	0.02	mg/kg	06/27/95
1.1.2Trichlorotrifluoroethane	/6-13-1	ND	0.005	mg/kg	06/27/95
Vinyl Chloride	75-01-4	ND	0.02	mg/kg	. 00/4//90

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

# AQUA SCIENCE ENGINEERS, INC

SAMPLE ID: PIT WATER AEN LAB NO: 9506303-09 AEN WORK ORDER: 9506303 CLIENT PROJ. ID: 2868

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Sample Filtration	0.45 um			Filtr Date	06/22/95
#Digestion, Metals by GFAA	EPA 3020	-		Prep Date	06/26/95
#Digestion, Metals ICP/AA	EPA 3010	-		Prep Date	06/27/95
CCR 17 Metals  Ag Silver  As Arsenic  Ba Barium  Be Beryllium  Cd Cadmium  Co Cobalt  Cr Chromium  Cu Copper  Hg Mercury  Mo Molybdenum  Ni Nickel  Pb Lead  Sb Antimony  Se Selenium  T1 Thallium  V Vanadium  Zn Zinc	EPA 6010 EPA 7060 EPA 6010	ND 0.002 * 0.10 * ND ND ND ND ND ND ND ND ND ND ND ND ND	0.01 0.002 0.005 0.005 0.01 0.01 0.002 0.01 0.01 0.04 0.02 0.004 0.05 0.005	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	06/28/95 06/28/95 06/28/95 06/28/95 06/28/95 06/28/95 06/28/95 06/28/95 06/28/95 06/28/95 06/28/95 06/28/95 06/28/95 06/28/95
EPA 8010 - Water matrix Bromodichloromethane Bromoform Bromomethane Carbon Tetrachloride Chlorobenzene Chloroethane 2-Chloroethyl Vinyl Ether Chloroform Chloromethane Dibromochloromethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene Dichlorodifluoromethane 1,1-Dichloroethane 1,2-Dichloroethane	EPA 8010 75-27-4 75-25-2 74-83-9 56-23-5 108-90-7 75-00-3 110-75-8 67-66-3 74-87-3 124-48-1 95-50-1 541-73-1 106-46-7 75-71-8 75-34-3 107-06-2	ND ND ND ND ND ND ND ND ND ND ND ND ND N	0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	06/29/95 06/29/95 06/29/95 06/29/95 06/29/95 06/29/95 06/29/95 06/29/95 06/29/95 06/29/95 06/29/95 06/29/95

# AQUA SCIENCE ENGINEERS, INC

SAMPLE ID: PIT WATER AEN LAB NO: 9506303-09 AEN WORK ORDER: 9506303 CLIENT PROJ. ID: 2868

DATE SAMPLED: 06/21/95 DATE RECEIVED: 06/22/95 REPORT DATE: 07/07/95

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
1.1-Dichloroethene cis-1.2-Dichloroethene trans-1.2-Dichloroethene 1.2-Dichloropropane cis-1,3-Dichloropropene trans-1,3-Dichloropropene Methylene Chloride 1.1.2.2-Tetrachloroethane Tetrachloroethene 1.1.1-Trichloroethane 1.1.2-Trichloroethane Trichloroethene Trichlorofluoromethane 1.1.2Trichlorotrifluoroethane Vinyl Chloride	75-35-4 156-59-2 156-60-5 78-87-5 10061-01-5 10061-02-6 75-09-2 79-34-5 127-18-4 71-55-6 79-00-5 79-01-6 75-69-4 76-13-1 75-01-4	3 ND ND ND ND 19 ND ND ND	* 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	06/29/95 06/29/95 06/29/95 06/29/95 06/29/95 06/29/95 06/29/95 06/29/95 06/29/95 06/29/95 06/29/95 06/29/95

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

### AEN (CALIFORNIA) QUALITY CONTROL REPORT

AEN JOB NUMBER: 9506303

CLIENT PROJECT ID: 2868

# Quality Control and Project Summary

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

#### <u>Definitions</u>

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

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

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

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

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

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

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

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

# QUALITY CONTROL DATA

METHOD: EPA 3510 GCFID

AEN JOB NO: 9506303 DATE EXTRACTED: 06/23/95

INSTRUMENT: C MATRIX: WATER

# Surrogate Standard Recovery Summary

Date Analyzed	Client Id.	Lab Id.	Percent Recovery n-Pentacosane
06/27/95	PITWATER	09	117
QC Limits:			59-118

DATE EXTRACTED: 06/22/95 DATE ANALYZED: 06/24/95 SAMPLE SPIKED: INSTRUMENT: C DI WATER

# Method Spike Recovery Summary

	0.41			QC Lim	QC Limits	
Analyte	Spike Added (mg/L)	Average Percent Recovery	RPD	Percent Recovery	RPD	
Diesel	1.82	90	2	65-103	12	

Daily method blanks for all associated analytical runs showed no contamination over the reporting limit.

METHOD: EPA 3550 GCFID

AEN JOB NO: 9506303

DATE(S) EXTRACTED: 06/23/95; 06/29/95

INSTRUMENT: C MATRIX: SOIL

#### Surrogate Standard Recovery Summary

			Percent Recovery
Date Analyzed	Client Id.	Lab Id.	n-Pentacosane
06/26/95 07/01/95	SW-N-6' SW-S-6'	01 02	99 100
06/26/95 06/26/95	SM-M-6, SM-E-6,	03 04	110 110 86
06/27/95 06/26/95 06/27/95	B-N-10' B-S-10' STKP	06 07 08	98 95 100
QC Limits:	Jim	00	45-110

DATE EXTRACTED: 06/23/95 DATE ANALYZED: 06/26/95 SAMPLE SPIKED: INSTRUMENT: C 9506303-07

#### Matrix Spike Recovery Summary

				QC Li	nits
Analyte	Spike Added (mg/kg)	Average Percent Recovery	RPD	Percent Recovery	RPD
Diesel	36.3	87	3	44-108	13

METHOD: SM 5520

AEN JOB NO: 9506303

DATE EXTRACTED: 06/26/95 DATE ANALYZED: 06/27/95 SAMPLE SPIKED: 9506265-13

INSTRUMENT: IR MATRIX: SOIL

#### Matrix Spike Recovery Summary

	6.41.			QC Lim	its
Analyte	Spike Added (mg/kg)	Average Percent Recovery	RPD	Percent Recovery	RPD
Oil	221	94	<1	61-127	14

DATE EXTRACTED: 06/26/95 DATE ANALYZED: 06/26/95

INSTRUMENT: IR MATRIX: WATER

#### Method Spike Recovery Summary

				QC Lim	its
Analyte	Spike Added (mg/L)	Average Percent Recovery	RPD	Percent Recovery	RPD
0il	6.6	94	2	80-109	5

METHOD: EPA 8010

AEN JOB NO: 9506303

INSTRUMENT: G MATRIX: WATER

#### Surrogate Standard Recovery Summary

			Percen	t Recovery
Date .Analyzed	Client Id.	Lab Id.	Bromochloro- methane	1-Bromo-3-chloro- propane
06/29/95	PITWATER	09	102	94
QC Limits:			70-130	70-130

DATE ANALYZED: SAMPLE SPIKED:

06/20/95 9506191-02

INSTRUMENT: G

9200191

#### Matrix Spike Recovery Summary

		_		QC Limit	is .
Analyte	Spike Added (ug/L)	Average Percent Recovery	RPD	Percent Recovery	RPD
1,1-Dichloroethene Trichloroethene Chlorobenzene	50 50 50	96 95 89	<1 4 <1	37-156 54-122 54-141	20 20 20

METHOD: EPA 8010

AEN JOB NO: 9506303

INSTRUMENT: MATRIX: SOIL

#### Surrogate Standard Recovery Summary

Date Analyzed	Client Id.	Lab Id.	Percen Bromochloro- methane	nt Recovery 1-Bromo-3-chloro- propane
06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95	SW-N-6' SW-S-6' SW-W-6' SW-E-6' B-N-10' B-S-10' STKP	01 02 03 04 06 07 08	78 73 78 82 76 80 82	91 89 86 99 85 90 88
QC Limits:			70-130	70-130

DATE ANALYZED: 06/28/95 SAMPLE SPIKED: INSTRUMENT: G 9506285-04

### Matrix Spike Recovery Summary

				QC Lim	nits
Analyte	Spike Added (ug/kg)	Average Percent Recovery	RPD	Percent Recovery	RPD
1,1-Dichloroethene Trichloroethene Chlorobenzene	50 50 50	84 109 97	1 3 4	37 - 156 54 - 122 54 - 141	20 20 20

METHOD: EPA 8020, 5030 GCFID

AEN JOB NO: 9506303

INSTRUMENT: E MATRIX: SOIL

#### Surrogate Standard Recovery Summary

Date Analyzed	Client Id.	Lab Id.	Percent Recovery Fluorobenzene
06/26/95	STKP	08	108
QC Limits:			92-110

DATE ANALYZED:

06/26/95 9506234-14

SAMPLE SPIKED: INSTRUMENT: E

#### Matrix Spike Recovery Summary

				QC Limi	ts
Analyte	Spike Added (ug/kg)	Average Percent Recovery	RPD	Percent Recovery	RPD
Benzene Toluene	36.8 101.2	103 101	4 3	79-113 84-110	26 20
Hydrocarbons as Gasoline	1000	90	1	60-126	20

METHOD: EPA 8270

AEN JOB NO: 9506303

DATE EXTRACTED: 06/23/95

INSTRUMENT: 11 MATRIX: SOIL

#### Surrogate Standard Recovery Summary

			Percent Recovery					
Date Analyzed	Client Id.	Lab Id.	Nitro- benzene-d <sub>s</sub>	2-Fluoro- biphenyl	Terphenyl- d <sub>14</sub>	Phenot-d <sub>5</sub>	2-Fluoro- phenol	2,4,6-Tribromo- phenol
06/28/95	STKP	08	67	69	63	55	67	122
QC Limits:			23-120	30-115	18-137	24-113	25-121	19-122

DATE EXTRACTED: 06/19/95 DATE ANALYZED: 06/20/95 SAMPLE SPIKED: 9506151-01

INSTRUMENT: 11

#### Matrix Spike Recovery Summary

				QC Limits		
Analyte	Spike Added (ug/kg)	Average Percent Recovery	RPD	Percent Recovery	RPD	
Phenol	3630	52	14	39-102	36	
2-Chlorophenol 1,4-Dichlorobenzene	3470 3430	73 61	12 12	20-123 20-108	37 14	
N-Nitrosodi-n-propylamine	3500	63	<1 <1	0-156	41	
1,2,4-Trichlorobenzene	3450	69	10	31-101	33	
4-Chloro-3-methylphenol	3380	89	4	37-136	38	
Acenaphthene	3330	81	11	48-115	18	
4-Nitrophenol	3560	90	15	18-131	35	
2,4-Dinitrotoluene	3480	60 85	8 12	34-101 0-140	33 30	
Pentachlorophenol Pyrene	3450 3580	65 73	12 24	26-148	24	

AEN JOB NO: 9506303 SAMPLE SPIKED: DI WATER DATE(S) ANALYZED: 06/26-28/95 MATRIX: WATER

#### Method Spike Recovery Summary

		Spike	Average		QC Limits				
Analyte	Inst./ Added		Percent Recovery	RPD	Percent Recovery	RPD			
Ag, Silver	ICP/6010	0.025	88	4	80-119	10			
As, Arsenic	4000/7060	0.04	115	5	84-118	12			
Ba, Barium	ICP/6010	1.0	110	2	93-112	5			
Cd, Cadmium	ICP/6010	0.05	100	6	90-113	9			
Cr, Chromium	ICP/6010	0.10	109	1	87-117	7			
Cu, Copper	ICP/6010	0.13	108	3	83-114	5			
Hg, Mercury	Hg/7470	2.0 ug/L	104	<1	91-117	7			
Ni, Nickel	ICP/6010	0.25	108	2	91-113	5			
Pb, Lead	ICP/6010	0.50	107	3	94-115	6			
Se, Selenium	4000/7740	0.08	95	5	80-114	14			
Zn, Zinc	ICP/6010	0.25	106	2	92-113	5			

AEN JOB NO: 9506303

SAMPLE SPIKED: SAND DATE(S) ANALYZED: 06/23-25/95

MATRIX: SOIL

#### Method Spike Recovery Summary

		Spike	Average		QC Limits				
Analyte	Inst./ Method	Inst./ Added Percent		RPD	Percent Recovery	RPD			
Ag, Silver	ICP/6010	10	86	1	33- 95	5			
As, Arsenic	4000/7060	10	116	4	76-128	15			
Ba, Barium	ICP/6010	100	98	1	91-107	5			
Cd, Cadmium	ICP/6010	10	98	2	87-108	5			
Cr. Chromium	ICP/6010	50	98	1	88-110	5			
Cu, Copper	ICP/6010	50	100	1	91-108	5			
Hg, Mercury	Hg/7471	0.4	107	3	80-117	5			
Ni, Nickel	ICP/6010	50	101	1	88-109	5			
Pb, Lead	ICP/6010	50	101	1	88-110	5			
Se, Selenium	4000/7740	20	95	2	70-125	14			
Zn, Zinc	ICP/6010	50	95	1	85-105	5 ,			



680 Chesapeake Drive 404 N. Wiget Lane 819 Striker Avenue, Suite 8 Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834 (415) 364-9600 (510) 988-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

American Environmental Net. 3440 Vincent Road Pleasant Hill, CA 94523 Client Proj. ID: 9506303 Sample Descript: STKP Sampled: 06/21/95 Received: 06/23/95

Attention: Denise Harrington

Matrix: SOLID Analysis Method: Comb Lab Number: 9506F62-01

Analyzed: 06/26/95 Reported: 07/05/95

QC Batch Number: IN062695084600A

#### Reactivity

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
Reactivity: Sulfide Cyanide Reaction with Water	13 0.50	N.D. N.D. N.D.

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

SEQUOTA ANALYTICAL - ELAP #1210

Mark Cargasacchi Project Manager

Page:



680 Chesapeake Drive 404 N. Wiget Lane 819 Striker Avenue, Suite 8 Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834

(415) 364-9600 (510) 988-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

American Environmental Network

3440 Vincent Road

Pleasant Hill, CA 94523

Client Project ID:

Matrix:

9506303 Solid

Attention: Denise Harrington

Work Order #:

9506F62 -01

Reported:

Jul 5, 1995

#### **QUALITY CONTROL DATA REPORT**

Analyte:	Reactive Cyanide	Reactive Sulfide	
QC Batch#: Analy. Method:	IN062695084600A SW-846	IN062695084600A SW-846	
Prep. Method:	N/A	N/A	,
Analyst:	A. Pina	K. Newberry	
MS/MSD #:	-		
Sample Conc.:	•	-	
Prepared Date:	-	•	
Analyzed Date:	•	•	
Instrument I.D.#:	-	•	
Conc. Spiked:	-	•	
Result:	_	_	
MS % Recovery:	-		
Dup. Result:	• ,	-	
MSD % Recov.:	-	-	
RPD:	•	-	
RPD Limit:	•	-	

LCS #:	LCS062695	LCS062695
Prepared Date:	6/26/95	6/26/95
Analyzed Date:	6/26/95	6/26/95
Instrument I.D.#:	Manual	Manual

Conc. Spiked:	0.20 mg/L	10 mg/l
LCS Result:	0.069	9.8
LCS % Recov.:	34	98

MS/MSD LCS Control Limits	6.5-40	80-120		

SEQUOIA ANALYTICAL

Mark J. Cargasacchi Project Manager Please Note:

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

\*\* MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

9506F62.AAA <1>

Aqua Science Engineers, Inc. 2411 Old Crow Canyon Road, #4, San Ramon, CA 94583

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# Chain of Custody

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	Changes to on 6/23/9	o Coc 5 - B	per c	liest 1	FAX	ASOLANE 5030/8015)	TPH-GASOLINE/BTEX (EPA 5030/8015-80	TPH- <del>DEESEL</del> , Ex <i>teac</i> i (EPA 3510/8015)	PURGABLE AROMATICS (EPA 602/0020)	PURCABLE HALOCARBONS (EPA 601(8010)) ALLIA	VOLATILE ORGANICS DS# (EPA 624/8240)	BASE/NUETRALS, (EPA 625/6270)	OIL & GREASE (EPA 5520 E&F	LUFT METALS (5) (EPA 6010+7000)	TITLE 22 (CAM 17) (EPA 6010+7000)	TCLP ( EPA 1311/1310)	STLC. CAM WET (FPA 1311/1310)	REACTI VI TY CORROSI VI TY I GRU TABILLITY	170	יאונגפרי איזונגפרי	FILTER 4 PRESERVE PLASTIC BOTH	
	SAMPLE ID.	DATE	TIME	MATRIX	NO. OF SAMPLES	TPH-(	TPH-(	TPH-4 (EPA	PURG)	PURG)	WOLAY (EPA	ਮੁਤਤ ) 'ਤੁਤਵਰ)	OIL (EPA	LUFT (EPA	TITE (EPA	TCLP (EPA	STLC:	REAC CORR(	827	からなり	77.C 27.63	
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)2A	Sw-5-61	1	15:25	SOIL	ı			X		X		ļ	X		<u> </u>	DSH-	NO CA	14-17 pes	chiert	1/23		
3A	Sw-W-6'		15:30	SOIL.	(			Χ		X		<u> </u>	X		X		ļ	<u> </u>				
MA	SW-E-6'		5:20	Soll	1			X		X	ļ		X		X							
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юΑ	B-N-10'		15:35	SOIL	1			X		X		ļ	X		X			ļ				
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### APPENDIX C

Certified Report for Imported Backfill Material AND SONS, INC.

P.O. Box 1194 • Pleasanton, CA 94566 • 846-7124

July 19, 1995

Aqua Science Engineers, Inc. 2411 Old Crow Canyon Rd. #4 San Ramon, CA 94583

Attn: Dave Allen

Dear Dave:

At your request, our trucking company imported material to 1400 Park Avenue in Emeryville at the corner of Park and Horton.

On 6/21/95 the total import to that job site was 48.36 tons of sub base (product code 401). On 7/13/95 we imported a total of 69.84 tons of sub base (product code 401).

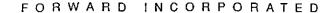
Sincerely,

T. E. O'Connor & Sons

Chris Lewis

### APPENDIX D

Acceptance Letter
Manifests and Weight Tags
for
Forward Landfill, Inc.





P.O. BOX 6336 STOCKTON, CA 95206 (209) 466-4482 FAX (209) 465-0631

July 18, 1995

Aqua Science Engineers, Inc. 2411 Old Crow Canyon Road, #4 San Ramon, California 94583

Attention: Dave Allen

RE:

FORWARD, INC. Approval No. CMM-4369

Contaminated Soil

1400 Park Avenue, Emeryville, California

Dear Mr. Allen:

FORWARD, INC. is pleased to confirm the disposal of 112.36 tons of soil as referenced above. The material was received at our Manteca, California facility for disposal on July 13, 1995. The waste was placed in a Class II waste management unit.

Approval for this material was based on the information provided in the waste profile and associated materials submitted by Aqua Science Engineers, Inc., dated July 7, 1995 on behalf of the Charles Lowe Company. Acceptance of the waste is subject to the "Terms and Conditions" agreed to and signed by Charles Lowe Company (whoever signed waste profile form) in the waste profile.

Thank you for the opportunity to be of service. Should you have any questions regarding this matter, please do not hesitate to contact myself or Fay Williams at (209) 466-4482.

Sincerely,

FORWARD, INC.

Corrina M. Mathews Account Manager

orina M. Mathews/xw

/frw



> 004369 AQUA SCIENCE ENGINEERS DAVE ALLEN 2411 OLD CROW CANYON ROAD- #4 SAN RAMON, CA 94583

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07/	13/95		16:05				

VEHICLE	ROLL OFF
T.E.O. J12	

REFERENCE ORIGIN

CMM-4369 CHARLES LOWE CO.

Manual Gross Weight Manual Tare Weight Net Weight 73520 LB 31060 LB

LB

42460

Inbound - Charge ticket

21.23

Class II Soil by Ton per ton

QTY DESCRIPTION

Trailer # CHARLES LOWE CO.

P.O. # NONE Manifest # 44027

Schedule 24 hours in advance directly with the landfill.

Call (209)982-4298 to schedule.

Drive Safely!!

SIGNATURE X \_\_\_\_\_

**NET AMOUNT** 

TENDERED

CHANGE





004369 AQUA SCIENCE ENGINEERS DAVE ALLEN 2411 OLD CROW CANYON ROAD- #4 SAN RAMON, CA 94583

Call (209)982-4298 to schedule.

Drive Safely!!

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	ass II Soil by Ton per ton	ALL CONTRACTOR OF THE PARTY OF
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P.O. #	NONE	TENDERED
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004369 AQUA SCIENCE ENGINEERS DAVE ALLEN 2411 OLD CROW CANYON ROAD- #4 SAN RAMON, CA 94583

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> 004369 AQUA SCIENCE ENGINEERS DAVE ALLEN 2411 OLD CROW CANYON ROAD- #4 SAN RAMON, CA 94583

15.19 | Class II Soil by Ton per ton

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T.E.O. #9		CMM-4	369	CHARLES LO	OWE CO.
Manual Gross Weight	61420	LB	Int	oound - Charg	ge ticket
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Net Weight	30380	LB			

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			,
Manifest #	44030		NET AMOUNT

Generator CHARLES LOWE CO.

P.O. # NONE

Schedule 24 hours in advance directly with the landfill. Call (209)982-4298 to schedule. Drive Safely!!

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AQUA SCIENCE ENGINEERS
DAVE ALLEN
2411 OLD CROW CANYON ROAD- #4
SAN RAMON, CA 94583

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Manual Gross Weight Manual Tare Weight	66080 31060		Inb	ound - Ch	arge t	icket	
Net Weight	35020						•

17.51 | Class II Soil by Ton per ton

Manifest # 44031

Generator CHARLES LOWE CO.

P.O. # NONE

Schedule 24 hours in advance directly with the landfill. Call (209)982-4298 to schedule. Drive Safely!!

**NET AMOUNT** 

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AQUA SCIENCE ENGINEERS
DAVE ALLEN
2411 OLD CROW CANYON ROAD- #4
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19.60	Class II Soil by Ton			s of the second		AND SERVICE SERVICES

Manifest # 44032

Generator CHARLES LOWE CO.

P.O. # NONE

Schedule 24 hours in advance directly with the landfill. Call (209)982-4298 to schedule. Drive Safely!!

**NET AMOUNT** 

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JOB ACCEPTANCE NO.

NO	N-HAZAF	RDÖÜS	WASTE	MANIFE	EST
	ASTE TREAT				

CONFRATOR COMPLES LOVE COMPLAY (CLC) MAILING ADDRESS 1400 Park Avenue	REQUIRED PERSONAL PROTECTIVE EQUIPMENT    X GLOVES
6 Emeruville (14 941608) Emeruville (14 941608) Entone 610-656-9376	SPECIAL HANDLING PROCEDURES:  11840 LB 31020 LB 15740 LB
STACLE SIGNATURE OF AUTHORIZED AGENT IN CLC 7-13-95	14920 LB 3:37P 7-13-95 73520 LB T6
SLUDGE    SLUDGE   NON-FRIABLE ASBESTOS   WOOD   CONSTRUCTION SOIL   ASH   OTHER	FORWARD INC. LANDFILL 9999 SOUTH AUSTIN ROAD MANTECA, CALIFORNIA 95336
Charles Lawe Company 1400 Park Avenue Envery VIIIE, (1) A 94608	(209) 982-4298 PHONE (209) 982-1009 FAX
NAME T.E. O'CONDOR + SONS HADDRESS P.O. POX 1194 HE GIT (STATE 219)	inotes: /2
PASOMOO CA 9U560 PHONE PHONE SIGNATURE OF AUTHORIZED AGENT ORIDRIVER LIDATE	ENDIDUMP FRANSFER E CRONLEOFE(S) CELAFBED VAN DRÛMS
FORWARD INC. LANDFILL	GUBIC YARDS
Forward shall have no obligation to accept the waste if weather or other conditions impair the safe and effective disposal of the waste or if the waste impairs the safe and effective operation of the Landfill. Forward shall use reasonable efforts to promptly notify Disposer of its inability to accept the waste for any reason. If Forward's refusal to accept the waste is based on weather or other site conditions, Forward shall notify the Disposer when site conditions are expected to change such that Forward will be able to accept the waste.  REMARKS	DISPOSAL METHOD: (10 BE COMPLETED BY FORWARD)    DISPOSE   BIO   AERATE STORPLE OTHER)
conditions are expected to change such that Forward will be able to accept the waste.  REMARKS  FACILITY FICKET NUMBER	SLUDGE  NON-FRIABLE ASBESTOS
SCNAME OF AUTHORIZED CENT DATE	☐ WOOD ☐ ASH ☐ OTHER

SCHEDULING MUST BE MADE PRIOR TO 4:00 P.M. THE DAY PRIOR TO EXPECTED ARRIVAL • ANY UNSCHEDULED LOADS ARE SUBJECT TO REFUSAL UPON ARRIVAL. ONGOING DAILY DELIVERIES MUST BE SCHEDULED WITH THE LANDFILL THE DAY BEFORE. TO SCHEDULE CALL (209) 982-4298

JOB ACCEPTANCE NO.

 NON-HAZARDOUS WASTE MANIFEST	
WASTE TREATMENT AND DISPOSAL FACILITY	

and the contract of the contra	
GENERATOR  (LAG CRESTLAUR COMPENY (CLC)  WAILING ADDRESS	REQUIRED PERSONAL PROFESTIVE EQUIPMENT GLOVES GOGGLES RESPIRATOR HARD HAT TY-VEK OTHER
1400 Pork Axiove	SPECIAL HANDLING PROCEDURES:
5 Emeryalle CA 94608	NOTE OUTS TO
A PRIONE	31880 LB
510.665-9375	18000 LB
TO STOLE STORE	17620 LB 3:35P 7-13-95
# SIEXATURE OF AUTHORIZED AGENT / TITLE DAILE	80540 LB TS 3-10462
* Penallelo Agent for CLC 7.13-95	
	RECEIVING FACILITY
☐ SLUDGE ☐ TREATMENT SOIL ☐ NON-FRIABLE ASBESTOS	FORWARD INC. LANDFILL
O DISPOSAL SOIL WOOD	9999 SOUTH AUSTIN ROAD
CONSTRUCTION SOIL ASH	
	MANTECA, CALIFORNIA 95336
GENERATING FACILITY.	(209) 982-4298 PHONE
Charles Lave Company	(209) 982-1009 FAX
1400 Part Averile	(200) 302 1000 1700
EMENIATIF CA 91118	
TE O'COOPOR + SOOS	NOTES TRUCKNUMBER
HADDRESS	
DO BOX 1190	MT 1
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Bair saile zie Deasanton (IA 945th) Bereone	END DUMP BOTTOM DUMP TRANSFER &
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Bair saile zie Deasanton (IA 945th) Bereone	
SGIV SIATE ZIF DECISIONE SEREGINE SOID 246-7 NY	
SITY STATE ZIF  DECLE CONTROL OF AUTOMATER  SIGNATURE OF AUTOMIZED AGENT OF DRIVER:  DATE:  **  **  **  **  **  **  **  **  **	
FORWARD INC. LANDFILL	COLL-OFF(S) FLAHBED VAN DRUMS **
FORWARD INC. LANDFILL Forward shall have no obligation to accept the waste if weather or other	GUBIC YARDS
FORWARD INC. LANDFILL Forward shall have no obligation to accept the waste if weather or other	GUEIC YARDS
FORWARD INC. LANDFILL Forward shall have no obligation to accept the waste if weather or other	ROLL-OFF(S): FLAT-BED: VAN DRUMS  GUEIC YARDS  DISPOSAL METFIOD: (TO BE COMPLETED BY FORWARD)
FORWARD INC. LANDFILL Forward shall have no obligation to accept the waste if weather or other	ROLL-OFF(S) ELALBED VAN DRUMS  BUBIC YARDS  DISPOSAL METHOD (TO BE COMPLETED BY FORWARD)  DISPOSE BIO AFRAGE STOCKFUE OFF-ERF
FORWARD INC. LANDFILL  Forward shall have no obligation to accept the waste if weather or other conditions impair the safe and effective disposal of the waste or if the waste impairs the safe and effective operation of the Landfill. Forward shall use reasonable effects to promptly notify Disposer of its inability to accept the waste for any reason. If Forward's refusal to accept the waste is based on weather or other site conditions, Forward shall notify the Disposer when site conditions are expected to change such that Forward will be able to accept the waste.	ROLL-OFF(S) FLALBED VAN DRUMS  BUBIC YARDS  DISPOSAL METHOD (TO BE COMPLETED BY FORWAFD)  DISPOSE BIO AFRAGE SICCRELE OFF-ERT
FORWARD INC. LANDFILL  Forward shall have no obligation to accept the waste if weather or other conditions impair the safe and effective disposal of the waste or if the waste impairs the safe and effective operation of the Landfill. Forward shall use reasonable efforts to promptly notify Disposer of its inability to accept the waste for any reason. If Forward's refusal to accept the waste is based on weather or other site conditions, Forward shall notify the Disposer when site conditions are expected to change such that Forward will be able to accept the waste.  REMARKS	ROLL-OFF(S) ELALBED VAN DRUMS  BUBIC YARDS  DISPOSAL METHOD (TO BE COMPLETED BY FORWARD)  DISPOSE BIO AFRAGE STOCKFUE OFF-ERF
FORWARD INC. LANDFILL  Forward shall have no obligation to accept the waste if weather or other conditions impair the safe and effective disposal of the waste or if the waste impairs the safe and effective operation of the Landfill. Forward shall use reasonable efforts to promptly notify Disposer of its inability to accept the waste for any reason. If Forward's refusal to accept the waste is based on weather or other site conditions, Forward shall notify the Disposer when site conditions are expected to change such that Forward will be able to accept the waste.  REMARKS	ROLL-OFF(S): FLALEDED VAN DRUMS  GUEIC YARDS  DISPOSAL METAGO (TO BE COMPLETED BY FORWARD)  DISPOSE BIO ABRAIL STORICE OFF ERF.  SOIL  NON-FRIABLE
FORWARD INC. LANDFILL  Forward shall have no obligation to accept the waste if weather or other conditions impair the safe and effective disposal of the waste or if the waste impairs the safe and effective operation of the Landfill. Forward shall use reasonable efforts to promptly notify Disposer of its inability to accept the waste for any reason. If Forward's refusal to accept the waste is based on weather or other site conditions, Forward shall notify the Disposer when site conditions are expected to change such that Forward will be able to accept the waste.  REMARKS	ROLL OFFIS) FLALED VAN DRUMS  BUBIC YARDS  DISPOSAL METHOD (FO BE COMPLETED BY FORWARD)  DISPOSE BIO ABRAYS STOCKES OFFICER  SUDGE  NON-FRIABLE ASBESTOS  WOOD
FORWARD INC. LANDFILL  Forward shall have no obligation to accept the waste if weather or other conditions impair the safe and effective disposal of the waste or if the waste impairs the safe and effective operation of the Landfill. Forward shall use reasonable efforts to promptly notify Disposer of its inability to accept the waste for any reason. If Forward's refusal to accept the waste is based on weather or other site conditions, Forward shall notify the Disposer when site conditions are expected to change such that Forward will be able to accept the waste.  REMARKS	ROLL-OFF(S) FLATEBED VAN DRUMS  CUBIC YARDS  DISPOSAL METACO (TO BE COMPLETED BY FORWARD)  DISPOSE BIO AFRATE STORING ON-ERT

SCHEDULING MUST BE MADE PRIOR TO 4:00 P.M. THE DAY PRIOR TO EXPECTED ARRIVAL • ANY UNSCHEDULED LOADS ARE SUBJECT TO REFUSAL UPON ARRIVAL ONGOING DAILY DELIVERIES MUST BE SCHEDULED WITH THE LANDFILL THE DAY BEFORE. TO SCHEDULE CALL (209) 982-4298

# FORWARD

JOB ACCEPTANCE'NO

NON-HAZARDOUS WASTE MANIFEST WASTE TREATMENT AND DISPOSAL FACILITY

GENERATOR  (I MACACS (AUX COMPANY (CLC))  WALLING ADDRESS  1400 PACK PURDUC	BEQUIRED PERSONAL PROTECTIVE EQUIPMENT    X GLOVES
OF SAME 20 SAME SAME 20 SHOWE	SPECIAL HANDLING PROCEDURES:  v 11950 LB  24700 LB  9460 LB
SIO. 1645-9375  CONTACT PERSON  SHOUS SIO. OF  SIGNATURE OF AUTHORIZED AGENT / TITLE   DATE	11260 LB 11840 LB 11200 LB 5300 LB 57120 LB T6 4360 LB
*/ few/ Celler Agent for CLC 7-13-95	10:52A 7-13-95
SLUDGE  TREATMENT SOIL  NON-FRIABLE ASBESTOS	FORWARD INC. LANDFILL
O DISPOSAL SOIL	9999 SOUTH AUSTIN ROAD MANTECA, CALIFORNIA 95336
GENERATING FACILITY  CHARLES CALLE CONFUNY  1400 Park AL	(209) 982-4298 PHONE (209) 982-1009 FAX
PAMER O'CONPOX + SOOS	S-MOLES: SERVINIMBER -
ADDRESS  PO POX 1194  ESCIPY STATE 2P  DE PIEQ SANTON CA 94566	ENDEDUMP BOTTOMIDUMP TRANSFER
SIGNATURE OF AUTHORIZED AGENT OF DRIVER DATE:	IROLLEOFF(S) FLAT-BED VAN DERUMS DE
FORWARD INC. LANDFILL	CUBIC YARDS
Forward shall have no obligation to accept the waste if weather or other conditions impair the safe and effective disposal of the waste or if the waste impairs the safe and effective operation of the Landfill. Forward shall use reasonable efforts to promptly notify Disposer of its inability to accept the waste for any reason. If Forward's refusal to accept the waste is based on	EDISPOSALEMETHOD: (TO BE COMPLETED BY FORWARD)  DISPOSE BIO APPARE SIGNALE OTHER
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EXCITI A 10 KEL WITN BEB	□ NON-FRIABLE ASBESTOS □ WOOD
E C 2 2 13-95	☐ ASH ☐ OTHER

SCHEDULING MUST BE MADE PRIOR TO 4:00 P.M. THE DAY PRIOR TO EXPECTED ARRIVAL. ANY UNSCHEDULED LOADS ARE SUBJECT TO REFUSAL UPON ARRIVAL. ONGOING DAILY DELIVERIES MUST BE SCHEDULED WITH THE LANDFILL THE DAY BEFORE. TO SCHEDULE CALL (209) 982-4298

### NON-HAZARDOUS WASTE MANIFEST F@RWARD WASTE TREATMENT AND DISPOSAL FACILITY JOB ACCEPTANCE NO. QUIREDIRERSONAL PROTECTIVE EQUIPMEN GLOVES GOGGLES RESPIRATOR: 10S/auc Canadil TY-VEK OTHER SPECIAL HANDLING PROCEDURES: 23200 LB 10120 LB 11340 LB 13600 LB 12520 LB 10:23A 7-13-95 61420 LB T& 31040 LB: SLUDGE FORWARD INC. LANDFILL NON-FRIABLE ASBESTOS TREATMENT SOIL DISPOSAL SOIL WOOD: 9999 SOUTH AUSTIN ROAD CONSTRUCTION SOIL ASH MANTECA, CALIFORNIA 95336 **OTHER** (209) 982-4298 PHONE (209) 982-1009 FAX HUETLE END DUMP FORWARD INC. LANDI Forward shall have no obligation to accept the waste if weather or other conditions impair the safe and effective disposal of the waste or if the waste impairs the safe and effective operation of the Landfill. Forward shall use

Forward shall have no obligation to accept the waste if weather or other conditions impair the safe and effective disposal of the waste or if the waste impairs the safe and effective operation of the Landfill. Forward shall use reasonable efforts to promptly notify Disposer of its inability to accept the waste for any reason. If Forward's refusal to accept the waste is based on weather or other site conditions, Forward shall notify the Disposer when site conditions are expected to change such that Forward will be able to accept the waste.

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SCHEDULING MUST BE MADE PRIOR TO 4:00 P.M. THE DAY PRIOR TO EXPECTED ARRIVAL • ANY UNSCHEDULED LOADS ARE SUBJECT TO REFUSAL UPON ARRIVAL. ONGOING DAILY DELIVERIES MUST BE SCHEDULED WITH THE LANDFILL THE DAY BEFORE TO SCHEDULE CALL (209) 982-4298

## FORWARD

JOB ACCEPTANCE NO.

NON-HAZARDOUS WASTE MANIFEST WASTE TREATMENT AND DISPOSAL FACILITY

The second of th	[H1][G] \$25000 T
GENERATOR  Uncres / Oux Company (Cic)  MAILING ADDRESS	REQUIRED PERSONAL PROTECTIVE EQUIPMENT    XGLOVES
GET V STATE ZIP  CONTROL CH CLC  PHONE  SIGNATURE OF AUTHORIZED AGENT / TITLE  MASTE TYPE  SIGNATURE  SLUDGE  NON-FRIABLE ASBESTOS  DISPOSAL SOIL  CONSTRUCTION SOIL  OTHER	SPECIAL HANDLING PROCEDURES:
GENERATING FACILITY CHARLES LOUX COMPANY 1400 Park ALENUE EXTROLUMING OF GUILLOS	(209) 982-4298 PHONE (209) 982-1009 FAX
NAME T.E. O. CONTRICT ADDRESS	END DUMP BOTTOM DUMPS TRANSFER
* John OBryan 7-13-95	ROLL-OFF(S) FLATBED VAN BURUMS
FORWARD INC. LANDFILL Forward shall have no obligation to accept the waste if weather or other	CUBIC YARDS
conditions impair the safe and effective disposal of the waste or if the waste impairs the safe and effective operation of the Landfill. Forward shall use reasonable efforts to promptly notify Disposer of its inability to accept the waste for any reason. If Forward's refusal to accept the waste is based on weather or other site conditions, Forward shall notify the Disposer when site—	DISPOSAL METHOD: TO BE COMPLETED BY FORWARD)  DISPOSE BIO FAERATE STOCKFILE OTHER
conditions are expected to change such that Forward will be able to accept the waste.  REMARKS	☐ SLUDGE
FAGILITY TICKET NUMBER	☐ ASBESTOS ☐ ☐ WOOD
SIGNATURE OF AUTHORIZED AGENT	□ ASH
* 1/1/2/5	OTHER

SCHEDULING MUST BE MADE PRIOR TO 4:00 P.M. THE DAY PRIOR TO EXPECTED ARRIVAL • ANY UNSCHEDULED LOADS ARE SUBJECT TO REFUSAL UPON ARRIVAL ONGOING DAILY DELIVERIES MUST BE SCHEDULED WITH THE LANDFILL THE DAY BEFORE. TO SCHEDULE CALL (209) 982-4298

## **EQRWARD**

JOB ACCEPTANCE NO.

NON-HAZARDOUS WASTE MANIFEST
WASTE TREATMENT AND DISPOSAL FACILITY

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GENERATOR UMAJENG ADDRESS  MAJENG ADDRESS	REQUIRED PERSONAL PROTECTIVE EQUIPMENT    GRAND HAT
EDERINA GA GULOS PRIONE	SPECIAL HANDLING PROCEDURES: 12160 LB 12160 LB 14480 LB 9380 LB
EGIO-165-9375 Eginagi person GHAR SIACIE	14180 LB 12280 LB 12:33P 7-13-95 5140 LB 70160 LB T6
# SIGNATURE OF AUTHORIZED AGENT/ATTILE DATES	4160 LB 95 12:50P 7-13-95
WASTETARE	REGELVING(FACILITY
☐ SLUDGE ☐ SLUDGE ☐ NON-FRIABLE ASBESTO ☐ WOOD ☐ WOOD	FORWARD INC. LANDFILL 9999 SOUTH AUSTIN ROAD
CONSTRUCTION SOIL ASH	MANTECA, CALIFORNIA 95336
GENERATING FACILITY WAS COMPANY	(209) 982-4298 PHONE
EnryWilk Of 4411	(209) 982-1009 FAX
NAME T. E. D'CONNOC + SODS	NOTES: A STRUCK NUMBER
DALESS CONTROL OF THE	
PLECE OFFICE OFF	*** END DUMP **** BOTTOM DUMP **** TRANSFER **
+ 11 + 7	ROLL-OFF(S) - FLAT-BED VAN DRUMS
	CUBIC YARDS
FORWARD INC. LANDFILL  Forward shall have no obligation to accept the waste if weather or	
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weather or other site conditions, Forward shall notify the Disposer when conditions are expected to change such that Forward will be able to at the waste.	
	□ NON-FRIABLE ASBESTOS
FACILITY-TICKET-NUMBER  SIGNATURE OF AUTHORIZED AGENT  DATE:	□ wood
	☐ ASH
	<u>`</u> □ OTHER

SCHEDULING MUST BE MADE PRIOR TO 4:00 P.M. THE DAY PRIOR TO EXPECTED ARRIVAL • ANY UNSCHEDULED LOADS ARE SUBJECT TO REFUSAL UPON ARRIVAL. ONGOING DAILY DELIVERIES MUST BE SCHEDULED WITH THE LANDFILL THE DAY BEFORE. TO SCHEDULE CALL (209) 982-4298