

December 22, 1998

REPORT of
of
SOIL AND GROUNDWATER ASSESSMENT
ASE JOB NO. 3411
at
Hutch's Carwash
17945 Hesperian Boulevard
San Lorenzo, California

Submitted by:
AQUA SCIENCE ENGINEERS, INC.
208 West El Pintado Road
Danville, CA 94526
(925) 820-9391

TABLE OF CONTENTS

SECTI	ON	PAGE
1.0	INTRODUCTION	1
2.0	SCOPE OF WORK	1
3.0	DRILL SOIL BORINGS AND COLLECT SAMPLES	2
4.0	ANALYTICAL RESULTS FOR SOIL	3
5.0	ANALYTICAL RESULTS FOR GROUNDWATER	3
6.0	CONCLUSIONS AND RECOMMENDATIONS	3
7.0	REPORT LIMITATIONS	4
LIST_O	TABLES	
TABLE 1	ANALYTICAL RESULTS FOR SOIL	
TABLE 2	ANALYTICAL RESULTS FOR GROUNDWATER	
LIST O	FEIGURES	
FIGURE	1 SITE LOCATION MAP	
FIGURE	2 SOIL BORING LOCATION MAP	
LIST O	APPENDICES	
APPEND	X A DRILLING PERMIT	
APPEND	XB BORING LOGS	
APPEND	X C ANALYTICAL REPORTS AND CHAIN OF CUS FOR SOIL AND GROUNDWATER SAMPLES	TODY FORMS

1.0 INTRODUCTION

This report presents the methods and findings of Aqua Science Engineers, Inc. (ASE)'s soil and groundwater assessment for Hutch's Carwash located at 17945 Hesperian Boulevard in San Lorenzo, California (Figure 1). The proposed site assessment activities were initiated by Mr. Kirk Hutchison, owner of the property, in order to obtain permission for closure of the underground fuel storage tanks (USTs) located at the site. Hutch's Carwash is seeking closure of the three USTs at the site; however, they plan to use the USTs as part of a water reclamation system for the carwash operation at the site rather than use the USTs to store gasoline.

2.0 SCOPE OF WORK (SOW)

The scope of work for this assessment was discussed between Mr. Robert Weston and Mr. Scott Seery of the Alameda County Health Care Services Agency (ACHCSA) and Mr. David Allen of ASE. The SOW was as follows:

- 1) Obtain a drilling permit from the Alameda County Public Works Agency (ACPWA).
- 2) Drill six (6) soil borings at the site to 15-feet below ground surface (bgs) using a Geoprobe or similar type of drill rig. The 15-foot depth correlates to a depth of 2 to 3 feet below the bottom of the deepest UST. Collect soil samples from the borings for analysis.
- 3) Drill two (2) soil borings to 4-feet bgs adjacent to the former dispensers. Collect soil samples from the borings for analysis.
- 4) If groundwater is encountered in the 15-foot deep borings, collect a groundwater sample from each boring. If the borings are dry at a depth of 15-feet bgs, and there is no indication of contamination based on odors, staining or organic vapor meter (OVM) readings, no groundwater samples will be required. If the borings are dry and there is evidence of contamination at a depth of 15-feet, drilling will continue to groundwater and groundwater samples will be collected for analysis.
- At a minimum, one soil sample from each boring will be analyzed at a CAL-EPA certified analytical laboratory for total petroleum hydrocarbons as gasoline (TPH-G) by modified EPA Method 5030/8015, benzene, toluene, ethylbenzene and total xylenes (collectively known as BTEX) by EPA Method 8020, methyl tertiary

butyl ether (MTBE) by EPA Method 8020, and total lead by EPA Method 6010.

- 6) If collected, groundwater samples will be analyzed for TPH-G by modified EPA Method 5030/8015 and BTEX and MTBE by EPA Method 8020.
- 7) Backfill each boring with neat cement.
- 8) Prepare a report presenting the methods and findings of this assessment.

3.0 DRILL SOIL BORINGS AND COLLECT SAMPLES

Prior to drilling, ASE obtained a drilling permit from the Alameda County Public Works Agency (ACPWA). A copy of this permit is presented in Appendix A.

On December 1, 1998, Gregg Drilling of Benicia, California drilled eight soil borings at the site using a Geoprobe hydraulic sampling rig (Figure 2). Borings BH-A and BH-B were located near the former fuel dispensers. The remaining borings were located in areas surrounding the USTs. The drilling was directed by ASE senior geologist Robert E. Kitay, R.G.

Undisturbed soil samples were collected continuously as drilling progressed for lithologic and hydrogeologic description and for possible chemical analysis. The samples were collected by driving a sampler lined with acetate tubes using hydraulic direct push methods. Selective soil samples were immediately trimmed, sealed with Teflon tape, plastic end caps and duct tape, labeled, sealed in plastic bags and stored on ice for transport to Chromalab, Inc. of Pleasanton, California (ELAP #1094) under chain of custody. Soil from the remaining tubes was described by the site geologist using the Unified Soil Classification System and was screened for volatile compounds using an OVM. The soil was screened by emptying soil from one of the sample tubes into a plastic bag. The bag was then sealed and placed in the sun for approximately 10 minutes. volatile compounds were allowed to volatilize, the OVM measured the vapor in the bag through a small hole punched in the bag. OVM readings are used as a screening tool only, since the procedures are not as rigorous as those used in the laboratory.

Groundwater samples were removed from borings BH-C through BH-H with pre-cleaned stainless steel bailers. The groundwater samples were

contained in 40-ml volatile organic analysis (VOA) vials without headspace and preserved with hydrochloric acid. The samples were labeled, placed in protective foam sleeves, and stored on ice for transport to Chromalab under chain of custody. A sheen was present on the surface of groundwater in boring BH-D. Hydrocarbon odors were present in groundwater samples collected from several of the borings.

Drilling equipment was cleaned with a TSP solution between sampling intervals and between borings to prevent potential cross-contamination.

Sediments encountered during drilling generally consisted of clayey silt from beneath the concrete or asphalt surface to approximately 10-feet below ground surface (bgs) and silty sand from approximately 10-feet bgs to the total depth explored of 20-feet bgs. Groundwater was encountered at approximately 16-feet bgs in most of the borings. Boring logs are presented as Appendix B.

4.0 ANALYTICAL RESULTS FOR SOIL

Soil samples collected from 4.0-feet bgs in borings BH-A and BH-B, 15.5-feet bgs in borings BH-C, BH-D, BH-E, BH-F and BH-G, and 11.5-feet bgs in boring BH-H were analyzed by Chromalab for TPH-G by modified EPA Method 5030/8015 and BTEX and MTBE by EPA Method 8020. The analytical results are tabulated in Table One, and the certified analytical report and chain of custody forms are included in Appendix C. The soil samples collected from borings BH-A through BH-F were also analyzed for total lead. No lead was detected in any of the soil samples analyzed.

5.0 ANALYTICAL RESULTS FOR GROUNDWATER

The groundwater samples were analyzed by Chromalab for TPH-G by modified EPA Method 5030/8015 and BTEX and MTBE by EPA Method 8020. The analytical results are tabulated in Table Two, and the certified analytical report and chain of custody forms are included in Appendix C.

6.0 CONCLUSIONS AND RECOMMENDATIONS

Relatively low hydrocarbon concentrations were detected in soil samples collected from the site. None of the concentrations exceeded the United States Environmental Protection Agency (USEPA) Region IX preliminary remediation goals (PRGs) for residential soil. Since hydrocarbon staining and odors were present in shallow soil in several of the boring well above the bottom of the USTs, it appears that the source of these low

White

hydrocarbon concentrations may have been the result of overfilling rather than leakage from the USTs. For this reason, it is ASE's opinion that the USTs should be allowed to remain in place for use in the water recycling system for the car wash operation.

Up to 290 parts per billion (ppb) benzene, 620 ppb toluene, 3,000 ppb ethylbenzene, 7,100 ppb total xylenes and 4,400 ppb MTBE were detected in groundwater samples collected from the borings. Since these concentrations exceed California Department of Toxic Substances Control (DTSC) maximum contaminant levels (MCLs) for drinking water, regulatory agencies often require further assessment at sites with similar concentrations.

A copy of this report should be sent to the following regulatory agencies for their review:

Mr. Robert Weston Alameda County Health Care Services Agency 1311 Harbor Bay Parkway, Suite 250 Alameda, CA 94502

Mr. Chuck Headlee California Regional Water Quality Control Board San Francisco Bay Region 1515 Clay Street, Suite 1400 Oakland, CA 94612

7.0 REPORT LIMITATIONS

The results of this assessment represent conditions at the time of the soil and groundwater sampling, at the specific locations where the samples were collected, and for the specific parameters analyzed by the laboratory.

This report does not fully characterize the site for contamination resulting from unknown sources or for parameters not analyzed by the laboratory. All of the laboratory work cited in this report was prepared under the direction of an independent CAL-EPA certified laboratory. The independent laboratory is solely responsible for the contents and conclusions of the chemical analysis data.

-4-

Aqua Science Engineers appreciates the opportunity provide environmental consulting services for this project. Should you have any questions or comments, please feel free to call us at (925) 820-9391.

Respectfully submitted,

AQUA SCIENCE ENGINEERS, INC.

Robert E. Kitay, R.G., R.E.A.

Senior Geologist

Attachments: Figures 1 and 2

Appendices A through C

Hutch's Carwash Report - December 1998

-5-

TABLE ONE

Hutch's Carwash, 17945 Hesperian Boulevard, San Lorenzo, CA Summary of Chemical Analysis of **Soil** Samples

TPH-G, Benzene, Toluene, Ethylbenzene, Total Xylenes, and MTBE All results are in **parts per million**

TPH	and the second		ETHYL+	FETOTAL	
GAS	BENZENE	TOLUENE	BENZENE	XYLENES	MTBE
< 1.0	< 0.005	< 0.005	< 0.005	< 0.005	0.091
< 1.0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
< 10	< 0.62	< 0.62	< 0.62	< 0.62	3.0
<10	< 0.62	< 0.62	< 0.62	< 0.62	1.3
1.7	< 0.005	< 0.005	0.011	0.028	0.26
<10	< 0.62	< 0.62	< 0.62	< 0.62	0.97
< 1.0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
< 10	< 0.62	< 0.62	< 0.62	< 0.62	< 0.62
8015M	8020	8020	8020	8020	8020
	<1.0 <1.0 <10 <10 1.7 <10 <1.0 <10	GAS BENZENE <1.0	GAS BENZENE TOLUENE <1.0	GAS BENZENE TOLUENE BENZENE <1.0	GAS BENZENE TOLUENE BENZENE XYLENES <1.0

NOTES:

Detectable concentrations are in bold.

Non-detectable concentrations are noted by the less than sign (<) followed by the laboratory detection limit.

TABLE TWO

Hutch's Carwash, 17945 Hesperian Boulevard, San Lorenzo, CA Summary of Chemical Analysis of **Grab Groundwater** Samples TPH-G, Benzene, Toluene, Ethylbenzene, Total Xylenes, and MTBE All results are in **parts per billion**

			ETHYL-	TOTAL	
GAS	BENZENE	TOLUENE	BENZENE	XYLENES	MTBE
< 10,000*	110	260	1,500	2.700	4,400
<5,000*	59	120	210		4,200
< 25,000*	290	620	3,000		< 2,500
1,100	42	< 10	< 10		880
55	< 0.5	0.64	0.63	+	18
1,900	15	< 10	< 10	< 10	3,400
8015M	8020	8020	8020	8020	8020
A BRICK COLLINSON PLANTING PARTY.	<pre><10,000* <5,000* <25,000* 1,100 55 1,900</pre>	GAS BENZENE < 10,000*	<10,000*	GAS BENZENE TOLUENE BENZENE <10,000* 110 260 1,500 <5,000* 59 120 210 <25,000* 290 620 3,000 1,100 42 <10 <10 55 <0.5 0.64 0.63 1,900 15 <10 <10	GAS BENZENE TOLUENE BENZENE XYLENES <10,000* 110 260 1,500 2,700 <5,000* 59 120 210 230 <25,000* 290 620 3,000 7,100 1,100 42 <10 <10 <10 55 <0.5 0.64 0.63 1.9 1,900 15 <10 <10 <10 <10

<u>NOTES:</u>

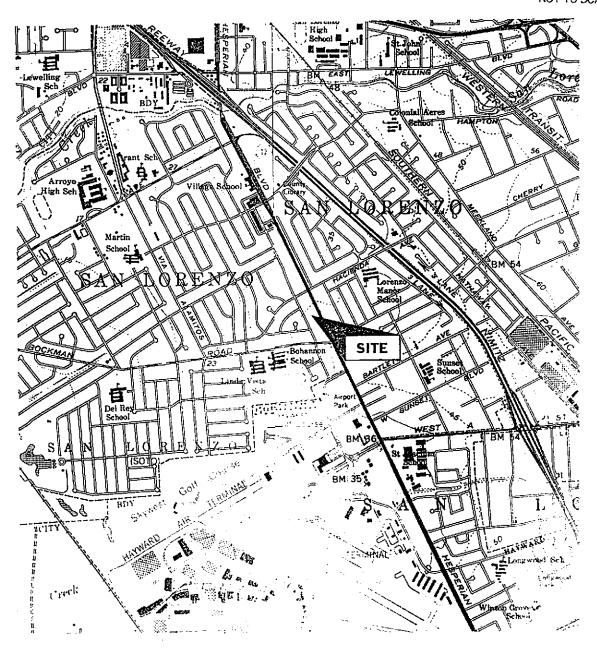
Detectable concentrations are in bold.

Non-detectable concentrations are noted by the less than sign (<) followed by the laboratory detection limit.

* The analytical results for these samples indicate that the hydrocarbons found in the Gasoline Range are uncharacteristic of the Gasoline Profile. If quantified using the Gasoline Response Factor, the concentrations would equal 65,000, 39,000, and 200,000 ug/L for BH-C, BH-D, and BH-E, respectively.



NORTH NOT TO SCALE

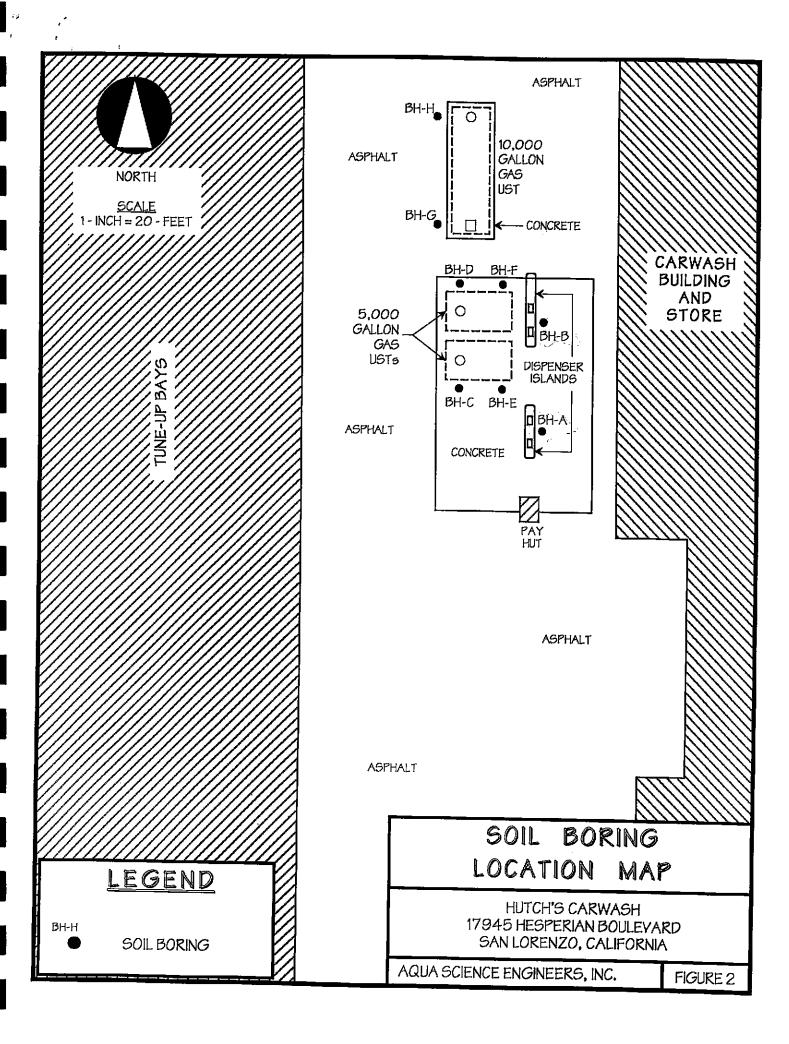


LOCATION MAP

Hu**tch's Carw**ash 17945 **Hesperian** Boulevard S**an Lorenzo,** California

AQUA SCIENCE ENGINEERS, INC.

Figure 1



APPENDIX A

Drilling Permit

DCT 07 1990 18:18 FR ALA CO PUB WK H20 REE

516 TC 919258374865

53.23.4



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION

951 TURNER COURT. SUITE 360. HAYWARD, CA 94548-2681

PHONE (\$10) \$70-3575 ANDREAS GODFREY FAX (\$10) \$70-5252

(\$10) \$70-5145 ALVIN KAN

DRILLING PERMIT APPLICATION

for applicant to complete		•
	. FO	r office use
LOCATION OF PROJECT Hutch's Compash	PERMIT NUMBER_	98WR485
17945 Hasperlan Blud.	WELL NUMBER	7001-453
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CONTRACTOR Source Tr. CCE	· ra	CMIT CONDITIONS
NEW		-
CLIENT	Crised Fermi	Requirements Apply
Name Haldel & Carrier	(A) GENERAL	
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City San Locustin Con 21 97541		
A BOT I O A See		
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Altri Robert Kitay Fat 925-027-105-	14000411903 61	AME: Well Heller Daniel
City Down William Propose Poly Phone 225 - 930-935		
City Danville, LA 219 27524		TICKETH
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DRILLIR'S LICENSE NO. 6-57 485165 (Grass)	gerklij pare yal	with temperated sunlings or heavy
100 (Graze)		
WELL PROJECTS	In treat of known	of suspected contamination, tenned
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ESTIMATED COMPLETION DATE 12-1-98	/ \	
1.78	APPROVED -	11/16/9
l terrine come to come		
I kersby agree to comply with all requirements of this permit and Alamana County Ordinance No. 73-68.		
Committee of the Careas		
APPLICANT'S P 1 1		
MIGNATURE ROLL OF KIT		
APPLICANT'S Robert C. Kitay DATE 11-13-98		

** TOTAL PAGE.82 **

APPENDIX B

Boring Logs

SOIL BORING LOG AND COM	PLETION DETA	ILS	Boring BH-A
Project Name: Hutch's Carwash	Project Location	on: 17945 Hesperi	an Blvd., San Lorenzo, CA Page 1 of 1
Driller: Gregg Drilling	Type of Rig: G	ieoprobe	Size of Drill: 2.0" Diameter Direct Push
Logged By: Robert E. Kitay, R.G.	Date Drilled:	December 1, 1998	Checked By: Robert E. Kitay, R.G.
WATER AND WELL DATA		Total Depth of We	ell Completed: NA
Depth of Water First Encountered: N	ot encountered	Well Screen Type	and Diameter: NA
Static Depth of Water in Boring: Uni	nown	Well Screen Slot	Size: NA
Total Depth of Boring: 4.5		Type and Size of	Soil Sampler: 2.0° I.D. Macrocore Sampler
	K SAMPLE DATA	Feet	DESCRIPTION OF LITHOLOGY
Depth in Fe DNIBOR Plater Level	OVM (ppmv) Graphic Log	.⊑ standa	rd classification, texture, relative moisture, , stiffness, odor-staining, USCS designation.
Class "H" Portland Cement	0	85% silt; = estimated	T (ML); yellow brown; medium stiff; damp; 10% clay; 5% fine sand; low plasticity; low K; no odor n below 2.5' End of boring at 4.5'
30			AOIIA COICNIAE ENAME
			aqua science engineers, inc.

Project Name: Hutch's Carwash Project Location: 17945 Hesperian Blvd., San Lorenzo, CA Page 1 of 1 Driller: Gregg Drilling Type of Rig: Geoprobe Size of Drill: 2.0" Diameter Direct Push Logged By: Robert E. Kitay, R.G. Date Drilled: December 1, 1998 Checked By: Robert E. Kitay, R.G. WATER AND WELL DATA Depth of Water First Encountered: Not encountered Well Screen Type and Diameter: NA Well Screen Siot Size: NA Total Depth of Boring: 4.5' Type and Size of Soil Sampler: 2.0" I.D. Macrocore Sampler BORING DETAIL BORING	SOIL BORING I	LOG AND	N DETA	ILS				Boring B	H-B		
Logged By: Robert E. Kitay, R.G. WATER AND WELL DATA Depth of Water First Encountered: Not encountered Static Depth of Boring: 4.5' Total Depth of Boring: 4.5' Total Depth of Boring: 4.5' Total Depth of Boring: 4.5' Type and Size of Soil Sampler: 2.0" I.D. Macrocore Sampler BORING DETAIL BORING D	Project Name: H	lutch's Carw	vash	Projec	ct Locatio	n: 179	945 Hesperia	n Blvd.,	San Lorer	izo, CA	Page 1 of 1
Total Depth of Water First Encountered: Not encountered Well Screen Type and Diameter: NA Well Screen Slot Size: NA Total Depth of Boring: 4.5' Type and Size of Soil Sampler: 2.0° I.D. Macrocore Sampler DESCRIPTION OF LITHOLOGY standard classification, texture, relative moisture density, stiffness, odor-staining, USCS designation O Concrete Clayey SILT (ML); yellow brown; medium stiff; damp; 85% silt; 10% clay; 5% fine sand; low plasticity; low estimated K; no odor End of boring at 4.5'	Driller: Gregg Dr	rilling		Туре	of Rig: G	eoprol	oe .	Size of	Drill: 2.0	* Diameter	Direct Push
Depth of Water First Encountered: Not encountered Well Screen Type and Diameter: NA Static Depth of Water in Boring: Unknown Total Depth of Boring: 4.5' Type and Size of Soil Sampler: 2.0" I.D. Macrocore Sampler DESCRIPTION OF LITHOLOGY standard classification, texture, relative moisture density, stiffness, odor-staining, USCS designation O Concrete Clayey SILT (ML); yellow brown; medium stiff; damp; 85% silt; 10% clay; 5% fine sand; low plasticity; low estimated K; no odor End of boring at 4.5'	Logged By: Robe	ert E. Kitay, F	R.G.	Date	Drilled:	Decer	nber 1, 1998		Checked E	By: Robert	E. Kitay, R.G.
Static Depth of Water in Boring: Unknown Total Depth of Boring: 4.5' Type and Size of Soil Sampler: 2.0" I.D. Macrocore Sampler SOIL/ROCK SAMPLE DATA BORING BORING DETAIL DESCRIPTION OF LITHOLOGY standard classification, texture, relative moisture density, stiffness, odor-staining, USCS designation Concrete Clayey SILT (ML); yellow brown; medium stiff; damp; 85% silt; 10% clay; 5% fine sand; low plasticity; low estimated K; no odor End of boring at 4.5'	WATER AND WE	ELL DATA				Total	Depth of We	II Compl	leted: NA		
Total Depth of Boring: 4.5' Type and Size of Soll Sampler: 2.0° I.D. Macrocore Sampler DESCRIPTION OF LITHOLOGY standard classification, texture, relative moisture density, stiffness, cdor-staining, USCS designation O Concrete Clayey SILT (ML); yellow brown; medium stiff; damp; 85% silt; 10% clay; 5% fine sand; low plasticity; low estimated K; no odor End of boring at 4.5'	Depth of Water Fir	irst Encounte	ered: No	t encou	intered	Well	Screen Type	and Dia	ameter: NA	١	
BORING DETAIL SOIL/ROCK SAMPLE DATA DESCRIPTION OF LITHOLOGY standard classification, texture, relative moisture density, stiffness, odor-staining, USCS designation Concrete Clayey SiLT (ML); yellow brown; medium stiff; damp; 85% silt; 10% clay; 5% fine sand; low plasticity; low estimated K; no odor End of boring at 4.5'	Static Depth of Wa	ater in Borin	ng: Unkn	own		Well	Screen Slot S	Size: N	Α		
BORING DETAIL BORING							and Size of	Soil Sai	mpler: 2.0"	I.D. Macro	ocore Sampler
BORING DETAIL THE DETAIL THE DETAIL THE DETAIL THE	Feet			SAMP	LE DATA	Feet		DESC	RIPTION O	FLITHOLO	DGY
Concrete Clayey SILT (ML); yellow brown; medium stiff; damp; 85% silt; 10% clay; 5% fine sand; low plasticity; low estimated K; no odor End of boring at 4.5'	토 BORING 토 DETAIL	Descripti	Nater Lev	OVM (ppmv)	Graphic Log	Depth in	standar density,	d class stiffnes	ification, t ss, odor-st	exture, re aining, US	lative moisture, CS designation.
-15 -15 -20 -20 -20 -25 -25 -30 -30 AQUA SCIENCE ENGINEERS, INC.	-10 -15 -20 -25	Class "H" Portland Cernent		0		- 15 - 10 - 15 - 20 - 25	Clayey SIL 85% silt; 1 estimated K	0% clay	y; 5% fine lor	sand; low	plasticity; low

41			- ···			<u> </u>	
SOIL BORING LOG A	ND COMP	LETIO	N DETA	ILS		Boring B	H-C
Project Name: Hutch's (arwash	Proje	ct Locatio	n: 179	45 Hesperian Blvd., San Lo	enzo, CA	Page 1 of 1
Driller: Gregg Drilling		Туре	of Rig: G	eoprol	e Size of Drill: 2	.0" Diamete	r Direct Push
Logged By: Robert E. Kit	ay, R.G.	Date	Drilled: I	Decem	ber 1, 1998 Checker	By: Robert	E. Kitay, R.G.
WATER AND WELL DA	TA			Total	Depth of Well Completed: N	Α	
Depth of Water First Enc	ountered: 18	5.5'		Well	Screen Type and Diameter:	NA	
Static Depth of Water in E	Boring: Unkn	nwo	·	Well	Screen Slot Size: NA		
Total Depth of Boring: 20			-	Туре	and Size of Soil Sampler: 2.	0° I.D. Macr	ocore Sampler
Feet	SOIL/ROCK	SAMP	LE DATA	eet	DESCRIPTION	OF LITHOL	OGY
I⊑ I BORING I 💥	vai	Ŝ	hic E	Depth in Feet	standard classification		
Descrip	Interval Water Level	OVM (ppmv)	Graphic Log	Dept	density, stiffness, odor-	staining, US	SCS designation
	 						
Class "H" Portland Cement				- 0	Concrete Clayey SILT (ML); yellow I	orown; medi	um stiff; damp
_ - မို				_	85% silt; 10% clay; 5% fill low estimated K; slight hyd	ne sand; lov Irocarbon oc	v plasticity; lor
ıtlan		79		_			
- 5 - 4				- 5			
- ss				-			
S S	⊠ l			-			
-10 -		46	576565654 (c.), c., o. (100,011) delige	dium dense;	damp; 90%		
-				-	fine sand; 10% silt; non-pla slight hydrocarbon odor	astic; mediui	m estimated h
				1 1			
- 15	Ţ	260		- 15	moderate hydrocarbon odo	r at 15'	
-	\bowtie			1	wet at 15.5'		
				- -			
-20	MI			-20			
-				-	End of bor	ng at 20'	
				-			
				- -25			
- -			.	-			
-				-			
- -30			<u></u>	- -30			

SOIL BORING LOG AND COM	IPLETION DETA	lils	Boring BH-D						
Project Name: Hutch's Carwash	Project Locati	on: 17945 Hesperian Blvd., San Lo	renzo, CA Page 1 of 1						
Driller: Gregg Drilling	Type of Rig: 0	Geoprobe Size of Drill: 2	2.0" Diameter Direct Push						
Logged By: Robert E. Kitay, R.G.	Date Drilled:	December 1, 1998 Checke	d By: Robert E. Kitay, R.G.						
WATER AND WELL DATA		Total Depth of Well Completed: N	A						
Depth of Water First Encountered:	16'	Well Screen Type and Diameter:	NA						
Static Depth of Water in Boring: Un	known	Well Screen Slot Size: NA							
Total Depth of Boring: 20'		Type and Size of Soil Sampler: 2	0" I.D. Macrocore Sampler						
1,01	CK SAMPLE DATA	DESCRIPTION	OF LITHOLOGY						
Depth in Fe DNING Description Interval	OVM (ppmv) Graphic Log	standard classification	texture, relative moisture, staining, USCS designation.						
		Concrete							
Class "H" Portland Cement	70	·	dium dense; damp; 90% astic; medium estimated K;						
aqua science engineers, inc.									

Project Name: Hutch's Carwash Project Location: 17945 Heaperian Bivd., San Lorenzo, CA Page 1 of 1 Driller: Grogg Drilling Type of Rig: Geoprobe Size of Drill: 2.0° Diameter Direct Push Logged By: Robert E. Kitay, R.G. Date Drilled: December 1, 1998 Checked By: Robert E. Kitay, R.G. WATER AND WELL DATA Depth of Water First Encountered: 15' Total Depth of Well Completed: NA Well Screen Type and Diameter: NA Static Depth of Water in Boring: Unknown Well Screen Slot Size: NA Total Depth of Boring: 20' Type and Size of Soil Sampler: 2.0° I.D. Macrocore Sampler DESCRIPTION OF LITHOLOGY standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation. DETAIL BORNAG DETAIL Jan Soil Sampler: 2.0° I.D. Macrocore Sampler DESCRIPTION OF LITHOLOGY standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation. Clayery: ISS, salt; tows day; 5% fine sand; low plasticity; low estimated K; slight hydrocarbon odor Sity SAND (SP); cilve brown; medium dense; damp; 80% fine sand; 10% slit; non-plastic; medium estiff; damp; 85% slit; someorate hydrocarbon odor Strong hydrocarbon odor End of boring at 20' End of boring at 20'	SOIL BORING LOG AND COM	PLETION DETA	AILS	Boring BH-E
Driller: Gregg Drilling Logged By: Robert E. Kitay, R.G. Dato Drilled: December 1, 1998 Checked By: Robert E. Kitay, R.G. WATER AND WELL DATA Depth of Water First Encountered: 16' Static Depth of Water in Boring: Unknown Total Depth of Boring: 20' BORING BERING BERI	Project Name: Hutch's Carwash	Project Locati	on: 17945 Hesperia	n Blvd., San Lorenzo, CA Page 1 of 1
WATER AND WELL DATA Depth of Water First Encountered: 16' Static Depth of Water in Boring: Unknown Total Depth of Boring: 20' Type and Size of Soil Sampler: 2.0' I.D. Macrocore Sampler BORANS BERNS DETAIL BORANS DETAIL Concrete Clayey SILT (ML); dark yellow brown; medium einft; damp; 85% silt; 10% clay; 5% fine sand; low plasticity; low estimated K; siight hydrocarbon odor Strong hydrocarbon cdor Strong hydrocarbon cdor End of boring at 20' End of boring at 20'	Driller: Gregg Drilling	Type of Rig: 0	deoprobe	
Depth of Water First Encountered: 16' Static Depth of Water in Boring; Unknown Total Depth of Boring; 20' Type and Size Stot Size: NA Type and Size of Soil Sampler: 2.0' I.D. Macrocore Sampler Type and Size of Soil Sampler: 2.0' I.D. Macrocore Sampler DESCRIPTION OF LITHOLOGY standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation. DETAIL DESCRIPTION OF LITHOLOGY standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation. Concrete Clayey SILT (ML); dark yellow brown; medium stiff; damy, 85% slit; 10% olay; 5% fine aand; low plasticity; low estimated K; slight hydrocarbon odor Silty SAND (SP); olive brown; medium dense; damp; 90% fine sand; 10% slit; non-plastic; medium estimated K; moderate hydrocarbon odor strong hydrocarbon odor End of boring at 20'	Logged By: Robert E. Kitay, R.G.	Date Drilled:	December 1, 1998	Checked By: Robert E. Kitay, R.G.
Static Depth of Water in Boring; Unknown Total Depth of Boring; 20' Type and Size of Soil Sampler: 2.0" I.D. Macrocore Sampler DESCRIPTION OF LITHOLOGY standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation. DESCRIPTION OF LITHOLOGY standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation. Concrete Clayey SiLT (ML); dark yellow brown; medium stiff; damy, 85% stilt; 10% clay; 5% fine aend; low plasticity; low estimated K; silght hydrocarbon odor Silty SAND (SP); clive brown; medium dense; damp; 90% fine send; 10% silt; non-plastic; medium estimated K; moderate hydrocarbon odor strong hydrocarbon odor End of boring at 20'	WATER AND WELL DATA		Total Depth of We	il Completed: NA
Total Depth of Boring: 20" Type and Size of Soil Sampler: 2.0" I.D. Macrocore Sampler DESCRIPTION OF LITHOLOGY standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation. Concrete Clayer SILT (ML); dark yellow brown; medium stiff; damp; 85% silt; 10% clay; 5% fine sand; low plasticity; low estimated K; slight hydrocarbon odor Silty SAND (SP); olive brown; medium dense; damp; 90% fine sand; 10% silt; non-plastic; medium estimated K; moderate hydrocarbon odor Strong hydrocarbon odor at 15 End of boring at 20' End of boring at 20'	Depth of Water First Encountered:	16'	Well Screen Type	and Diameter: NA
BORING DETAIL Concrete Clayey SILT (ML); dark yellow brown; medium stiff; damp; self-with self-yellow brown; medium dense; damp; solf-with self-with self-yellow brown; medium dense; damp; solf-with self-with se	Static Depth of Water in Boring: Un	known	Well Screen Slot S	Size: NA
BORING DETAIL BORING				Soil Sampler: 2.0" I.D. Macrocore Sampler
Concrete Clayey SILT (ML); dark yellow brown; medium stiff; damp; 85% silt; 10% clay; 5% fine sand; low plasticity; low estimated K; slight hydrocarbon odor Silty SAND (SP); olive brown; medium dense; damp; 90% fine sand; 10% silt; non-plastic; medium estimated K; moderate hydrocarbon odor strong hydrocarbon odor wet at 18' End of boring at 20'		CK SAMPLE DATA	Feet	DESCRIPTION OF LITHOLOGY
Clayey SiLT (ML); dark yellow brown; medium stiff; damp; 85% slit; 10% clay; 5% fine sand; low plasticity; low estimated K; slight hydrocarbon odor 207 31 207 31 31 31 31 31 31 31 31 31 3	Depth in Descriptic Descriptic Mater Lew	OVM (ppmv) Graphic Log	standard density,	d classification, texture, relative moisture, stiffness, odor-staining, USCS designation.
	Class "H" Portland Cemer	207	Clayey SIL'damp; 85% plasticity; lo	(SP); olive brown; medium dense; damp; and; 10% silt; non-plastic; medium coarbon odor
aqua science engineers. Inc.	-30			AQUA SCIENCE ENGINEERS. INC.

SOIL BORING LOG AND COMPLETION DETAILS Boring BH-F									
	PLETION DETA	ILS Boring	BH-F						
Project Name: Hutch's Carwash	Project Location	n: 17945 Hesperian Blvd., San Lorenzo, CA	Page 1 of 1						
Driller: Gregg Drilling	Type of Rig: G	eoprobe Size of Drill: 2.0" Diamet	er Direct Push						
Logged By: Robert E. Kitay, R.G.	Date Drilled: I	December 1, 1998 Checked By: Robe	rt E. Kitay, R.G.						
WATER AND WELL DATA		Total Depth of Well Completed: NA							
Depth of Water First Encountered: 1	6'	Well Screen Type and Diameter: NA							
Static Depth of Water in Boring: Unk	nown	Well Screen Slot Size: NA							
Total Depth of Boring: 20'		Type and Size of Soil Sampler: 2.0" I.D. Mac	procore Sampler						
	K SAMPLE DATA	DESCRIPTION OF LITHO	LOGY						
Depth in Financial Description Interval	OVM (ppmv) Graphic Log	standard classification, texture, density, stiffness, odor-staining, L	relative moisture, ISCS designation.						
To Hand Cement C	0	Concrete Clayey SILT (ML); dark yellow brown damp; 85% silt; 10% clay; 5% fine saplasticity; low estimated K; no odor Silty SAND (SP); olive brown; medium 90% fine sand; 10% silt; non-plastic; estimated K; no hydrocarbon odor wet at 16' End of boring at 20'	dense: damo:						
		aqua science engi	neers, inc.						

Project Name: Hutch's Carwash Project Location: 17945 Hesperian Blvd., San Lorenzo, CA Page 1 of 1 Driller: Gregg Drilling Type of Rig: Geoprobe Size of Drill: 2.0" Diameter Direct Push Logged By: Robert E. Kitay, R.G. Date Drilled: December 1, 1998 Checked By: Robert E. Kitay, R.G. WATER AND WELL DATA Depth of Water First Encountered: 16' Well Screen Type and Diameter: NA Well Screen Siot Size: NA Total Depth of Boring: 20' Type and Size of Soil Sampler: 2.0" LD. Macrocore Sampler BDRING DETAIL BDRING DETAIL	SOIL BORING LOG AND COM	PLETION DETA	ILS	Boring BH-G
Logged By: Robert E. Kitay, R.G. WATER AND WELL DATA Depth of Water First Encountered: 16' Static Depth of Water in Boring: Unknown Total Depth of Boring: 20' BORING BORING DETAIL DETAIL DETAIL DETAIL DETAIL DESCRIPTION OF LITHOLOGY Standard classification, toxture, relative moisture, density, stiffness, odor-staining, USCS designation. Asphalt Clayey SILT (ML); yellow brown; medium stiff; damp; 80% sit; 20% clay; low plasticity; low estimated K; no odor Silty SAND (SP); cilve; medium dense; damp; 90% fine sand; 10% ellit; non-plastic; medium estimated K; no odor End of boring at 20' End of boring at 20' End of boring at 20'	Project Name: Hutch's Carwash	Project Location	n: 17945 Hesperian Blvd., S	an Lorenzo, CA Page 1 of 1
WATER AND WELL DATA Depth of Water First Encountered: 16' Static Depth of Water in Boring: Unknown Total Depth of Boring: 20' Type and Size of Soil Sampler: 2.0" I.D. Macrocore Sampler Type and Size of Soil Sampler: 2.0" I.D. Macrocore Sampler DESCRIPTION OF LITHCLOGY standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation. DESCRIPTION OF LITHCLOGY standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation. Asphalt Clayey Sil.T (ML); yellow brown; medium stiff; damp; 80% silt; 20% clay; low plasticity; low estimated K; no odor Silty SAND (SP); olive; medium dense; damp; 90% fine sand; 10% silt; non-plastic; medium estimated K; no odor End of boring at 20'	Driller: Gregg Drilling	Type of Rig: G	eoprobe Size of D	orill: 2.0" Diameter Direct Push
Depth of Water First Encountered: 16' Static Depth of Water in Boring: Unknown Total Depth of Boring: 20' Type and Size of Soil Sampler: 2.0' I.D. Macrocore Sampler Type and Size of Soil Sampler: 2.0' I.D. Macrocore Sampler DESCRIPTION OF LITHOLOGY standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation. DETAIL DETAIL SSOIL ROCK SAMPLE DATA DESCRIPTION OF LITHOLOGY standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation. Asphalt Clayey Sil.T (ML); yellow brown; medium stiff; damp; 80% silt; 20% clay; low plasticity; low estimated K; no odor Silty SAND (SP); olive; medium dense; damp; 90% fine sand; 10% silt; non-plastic; medium estimated K; no odor End of boring at 20'	Logged By: Robert E. Kitay, R.G.	Date Drilled:	December 1, 1998 C	hecked By: Robert E. Kitay, R.G.
Static Depth of Water in Boring: Unknown Total Depth of Boring: 20' Total Depth of Boring: 20' BORING DETAIL BORING DETAIL BORING DETAIL State of Solid Sampler: 2.0" I.D. Macrocore Sampler Solid Rock SAMPLE DATA DESCRIPTION OF LITHOLOGY standard classification, texture, relative moisture, density, stiffness, edor-staining, USCS designation. Asphalt Clayey SILT (ML); yellow brown; medium stiff; damp; 80% silt; 20% clay; low plasticity; low estimated K; no odor Silty SAND (SP); olive; medium dense; damp; 90% fine sand; 10% silt; non-plastic; medium estimated K; no odor End of boring at 20' End of boring at 20'	WATER AND WELL DATA		Total Depth of Well Complete	ed: NA
Total Depth of Boring: 20' Type and Size of Soil Sampler: 2.0" I.D. Macrocore Sampler DESCRIPTION OF LITHOLOGY standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation. DESCRIPTION OF LITHOLOGY standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation. Asphalt Clayey SILT (ML); yellow brown; medium stiff; damp; 80% silt; 20% clay; low plasticity; low estimated K; no odor Silty SAND (SP); olive; medium dense; damp; 90% fine sand; 10% silt; non-plastic; medium estimated K; no cdor End of boring at 20'	Depth of Water First Encountered: 1	6' 	Well Screen Type and Diam	eter: NA
BORING DETAIL THE BORING DETAIL	Static Depth of Water in Boring: Unk	nown	Well Screen Slot Size: NA	
DESCRIPTION OF LITHOLOGY standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation. Asphalt Clayey SILT (ML); yellow brown; medium stiff; damp; 80% silt; 20% clay; low plasticity; low estimated K; no odor Sility SAND (SP); olive; medium dense; damp; 90% fine sand; 10% silt; non-plastic; medium estimated K; no odor End of boring at 20'			Type and Size of Soil Samp	oler: 2.0" I.D. Macrocore Sampler
Asphalt Clayey SILT (ML); yellow brown; medium stiff; damp; 80% slit; 20% clay; low plasticity; low estimated K; no odor Slity SAND (SP); olive; medium dense; damp; 90% fine sand; 10% slit; non-plastic; medium estimated K; no odor End of boring at 20'		K SAMPLE DATA	DESCRI	PTION OF LITHOLOGY
Asphalt Clayey SILT (ML); yellow brown; medium stiff; damp; 80% slit; 20% clay; low plasticity; low estimated K; no odor Silty SAND (SP); olive; medium dense; damp; 90% fine sand; 10% slit; non-plastic; medium estimated K; no odor Silty SAND (SP); olive; medium dense; damp; 90% fine sand; 10% slit; non-plastic; medium estimated K; no odor End of boring at 20'	Depth in Interval Descripti BOUINOB	OVM (ppmv) Graphic Log	standard classific density, stiffness,	cation, texture, relative moisture, odor-staining, USCS designation.
-30 -30 AQUA SCIENCE ENGINEERS, INC.	Class "H" Portland Cement	0	Clayey SILT (ML); ye 80% silt; 20% clay; no odor Silty SAND (SP); olive fine sand; 10% silt; r K; no odor wet at 16' End of the sand of	e; medium dense; damp; 90% non-plastic; medium estimated of boring at 20'

Project Name: Hutch's Carwash Project Location: 17945 Hesperian Blvd., San Lorenzo, CA Page 1 of 1 Driller: Gragg Drilling Type of Rig: Geoprobe Size of Drill: 2.0° Diameter Direct Push Logged By: Robert E. Kitay, R.G. Date Drilled: December 1, 1998 Checked By: Robert E. Kitay, R.G. WATER AND WELL DATA Depth of Water First Encountered: 13.5' Static Depth of Water in Boring: Unknown Total Depth of Boring: 16' Type and Size of Soil Sampler: 2.0° I.D. Macrocore Sampler Total Depth of Boring: 16' Type and Size of Soil Sampler: 2.0° I.D. Macrocore Sampler DESCRIPTION OF LITHOLOGY standard classification, texture, relative moleture density, stiffness, odor-staining, USCS designation Asphalt Clayoy Sil.T. (ML); yellow brown; medium stiff; damp; 90% fine sand; 10% silt; non-plastic; medium dense; damp; 90% fine sand; 10% silt; non-plastic; medium estimated K; no odor 15 End of boring at 16'	SOL BORING LOG AN	ID COMP	LETIO	N DETA	ILS			Boring E	3H-H
Logged By: Robert E. Kitay, R.G. WATER AND WELL DATA Depth of Water First Encountered: 13.5' Static Depth of Water in Boring: Unknown Total Depth of Boring: 16' Total Depth of Boring: 16' BORING DETAIL DETAI	Project Name: Hutch's C	ct Locatio	n: 179	: 17945 Hesperian Bivd., San Lorenzo, CA Page 1 of			Page 1 of 1		
WATER AND WELL DATA Depth of Water First Encountered: 13.5' Static Depth of Water in Boring: Unknown Total Depth of Boring: 18' SOUND BORING OF DETAIL OF THE PROPERTY OF T	Driller: Gregg Drilling		Туре	of Rig: G	eoprot	e Si	ize of Drill: 2	2.0" Diamete	r Direct Push
Depth of Water First Encountered: 13.5' Static Depth of Water in Boring: Unknown Total Depth of Boring: 18' SOIL/ROCK SAMPLE DATA General Size of Soil Sampler: 2.0' I.D. Macrocore Sampler DESCRIPTION OF LITHOLOGY Standard classification, texture, relative moisture density, stiffness, odor-staining, USCS designation odor 10 Asphalt Clayey SILT (ML); yellow brown; medium stiff; damp; 80% slit; 20% clay; low plasticity; low estimated K; no odor wet at 13.5' End of boring at 16'	Logged By: Robert E. Kita	y, R.G.	Date	Drilled: [Decem	ber 1, 1998	Checke	d By: Robert	E. Kitay, R.G.
Static Depth of Water in Boring: Unknown Total Depth of Boring: 16' Total Depth of Boring: 16' SOIL/ROCK SAMPLE DATA BORNA DETAIL DETAIL DETAIL O Asphalt Clayey SILT (ML); yellow brown; medium stiff; damp; 80% slit; 20% clay; low plasticity; low estimated K; no odor SIty SAND (SP): olive; medium dense; damp; 90% fine sand; 10% slit; non-plastic; medium estimated K; no odor Well Screen Slot Size: NA Type and Size of Soil Sampler: 2.0* LD. Macrocore Sampler DESCRIPTION OF LITHOLOGY standard classification, texture, relative molature density, stiffness, odor-staining, USCS designation Asphalt Clayey SILT (ML); yellow brown; medium stiff; damp; 80% slit; 20% clay; low plasticity; low estimated K; no odor Silty SAND (SP): olive; medium dense; damp; 90% fine sand; 10% slit; non-plastic; medium estimated K; no odor wet at 13.5' End of boring at 16'					Total	Depth of Well C	Completed: N	A	
Total Depth of Boring: 16' Type and Size of Soil Sampler: 2.0' I.D. Macrocore Sampler DESCRIPTION OF LITHOLOGY Standard classification, texture, relative moisture density, stiffness, odor-staining, USCS designation O Asphalt Clayey SiLT (ML); yellow brown; medium stiff; damp; 80% sitt; 20% clay; low plasticity; low estimated K; no odor Sility SAND (SP); olive; medium dense; damp; 90% fine sand; 10% silt; non-plastic; medium estimated K; no odor wet at 13.5' End of boring at 16'	Depth of Water First Enco	untered: 13	3.5' ———		Well	Screen Type ar	nd Diameter:	NA	
Solition State of Sta	Static Depth of Water in Bo	oring: Unkn	own ———	-	Well	Screen Slot Siz	ze: NA		
DESCRIPTION OF LITHOLOGY Standard classification, texture, relative moisture density, stiffness, odor-staining, USCS designation Asphalt Clayey SILT (ML); yellow brown; medium stiff; damp; 80% silt; 20% clay; low plasticity; low estimated K; no odor wet at 13.5' End of boring at 16'		COIL /DOC!	(04147)	U.S.D.A.T.A.	-	and Size of So	oil Sampler: 2	.0" I.D. Macr	ocore Sampler
Asphalt Clayer SILT (ML); yellow brown; medium stiff; damp; 80% silt; 20% clay; low plasticity; low estimated K; no odor Silty SAND (SP); olive; medium dense; damp; 90% fine sand; 10% silt; non-plastic; medium estimated K; no odor wet at 13.5' End of boring at 16'	1 M I I I		SAMP		Feet	1	DESCRIPTION	OF LITHOL	OGY
Asphalt Clayey SILT (ML); yellow brown; medium stiff; damp; 80% silt; 20% clay; low plasticity; low estimated K; no odor Sity SAND (SP); olive; medium dense; damp; 90% fine sand; 10% silt; non-plastic; medium estimated K; no odor Wet at 13.5' End of boring at 16'	Depth Trible Depth Fr	Interval fater Lev	(Amdd)	Graphic Log	Depth in	standard density, s	classification stiffness, odor	, texture, re- staining, US	elative moisture, SCS designation.
Clayey SILT (ML); yellow brown; medium stiff; damp; 80% sllt; 20% clay; low plasticity; low estimated K; no odor Silty SAND (SP); olive; medium dense; damp; 90% fine sand; 10% sllt; non-plastic; medium estimated K; no odor wet at 13.5' End of boring at 16'		→ <u>×</u>				_			
AQUA SCIENCE ENGINEERS, INC.	Class "H" Portland Cemer				- 5 - 10 - 15 - 20	Clayey SILT (80% silt; 20% no odor Silty SAND (Sfine sand; 10% K; no odor wet at 13.5)	SP); olive; me % silt; non-pl	dium dense; astic; mediun	damp; 90% m estimated

APPENDIX C

Analytical Report and Chain of Custody Forms For Soil and Groundwater Samples

Environmental Services (SDB)

December 8, 1998

Submission #: 9812022

AQUA SCIENCE ENGINEERS INC

Atten: Robert Kitay

Project: HUTCH'S CARWASH Received: December 1, 1998

re: 6 samples for Lead analysis.

Method: EPA 3050A/7420A

Matrix: SOIL

Extracted: December 3, 1998

Sampled: December 1, 1998 Run#: 16283 Analyzed: December 3, 1998

Spl# CLIENT SPL ID	LEAD (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
218637 BH-A 4.0'	N.D.	5.0	N.D.	98.0	1
<i>218638</i> BH-C 15.5'	N.D.	5.0	N.D.	98.0	ī
<i>218639</i> BH-B 4.0'	N.D.	5.0	N.D.	98.0	ī
<i>218640</i> BH-D 15.5'	N.D.	5.0	N.D.	98.0	1
218641 BH-E 15.5'	N.D.	5.0	N.D.	98.0	ī
218642 BH-F 15.5'	N.D.	5.0	N.D.	98.0	î

Ehristopher Arndt

Analyst

Operations Manager

Environmental Services (SDB)

December 9, 1998

Submission #: 9812022

AQUA SCIENCE ENGINEERS INC

Atten: Robert Kitay

Project: HUTCH'S CARWASH
Received: December 1, 1998

re: One sample for Gasoline BTEX MTBE analysis.

Method: SW846 8020A Nov 1990 / 8015Mod

Client Sample ID: BH-A 4.0'

*S*pl#: 218637

Matrix: SOIL

Sampled: December 1, 1998

Run#:16290

Analyzed: December 2, 1998

ANALYTE	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK DILUTION SPIKE FACTOR (%)
GASOLINE	N.D.	1.0	N.D. N.D.	110 1 110 1
MTBE BENZENE	0.091 N.D.	0.0050 0.0050	N.D.	102 1
TOLUENE	N.D.	0.0050	N.D.	100 1
ETHYL BENZENE XYLENES	N.D. N.D.	0.0050 0.0050	N.D. N.D.	99 1 97 1

Craig Huntzinger

Analyst

Michael Verona

Laboratory Operations Manager

Environmental Services (SDB)

December 8, 1998

Submission #: 9812022

AQUA SCIENCE ENGINEERS INC

Atten: Robert Kitay

Project: HUTCH'S CARWASH Received: December 1, 1998

re: One sample for Gasoline BTEX MTBE analysis.

Method: SW846 8020A Nov 1990 / 8015Mod

Client Sample ID: BH-B 4.0'

Spl#: 218639

Matrix: SOIL

Sampled: December 1, 1998

Run#:16290

Analyzed: December 2, 1998

	RESULT	REPORTING LIMIT	BLANK RESULT	BLANK SPIKE	DILUTION FACTOR
ANALYTE	(mg/Kg)	(mg/Kg)	(mg/Kg)	(%)	
GASOLINE	N.D.	1.0	N.D.	110	1
MTBE	N.D.	0.0050	N.D.	110	1
BENZENE	N.D.	0.0050	N.D.	102	1
TOLUENE	N.D.	0.0050	N.D.	100	1
ETHYL BENZENE	N.D.	0.0050	N.D.	99	1
XYLENES	N.D.	0.0050	N.D.	97	1

Craig Huntzinger

Analyst

Michael Verona

Laboratory Operations Manager

Environmental Services (SDB)

December 9, 1998

Submission #: 9812022

AQUA SCIENCE ENGINEERS INC

Atten: Robert Kitay

Project: HUTCH'S CARWASH Received: December 1, 1998

re: One sample for Gasoline BTEX MTBE analysis.

Method: SW846 8020A Nov 1990 / 8015Mod

Client Sample ID: BH-C 15.5'

Spl#: 218638 Sampled: December 1, 1998 Matrix: SOIL

Run#:16336

Analyzed: December 4, 1998

		REPORTING	BLANK	BLANK DILUTION
	RESULT	LIMIT	RESULT	SPIKE FACTOR
ANALYTE	(mg/Kg)	(mg/Kg)	(mg/Kg)	(%)
GASOLINE	N.D.	10	N.D.	95 1
MTBE .	3.0	0.62	N.D.	75 1
BENZENE	N.D.	0.62	N.D.	87 1
TOLUENE	N.D.	0.62	N.D.	87 1
ETHYL BENZENE	N.D.	,, 0.62	N.D.	88 1
XYLENES /7	N.D.	0.62	N.D.	89 1

. Vincent Vancil

Analyst

Environmental Services (SDB)

December 9, 1998

Submission #: 9812022

AQUA SCIENCE ENGINEERS INC

Atten: Robert Kitay

Project: HUTCH'S CARWASH Received: December 1, 1998

re: One sample for Gasoline BTEX MTBE analysis.

Method: SW846 8020A Nov 1990 / 8015Mod

Client Sample ID: BH-D 15.5'

Spl#: 218640

Matrix: SOIL

Sampled: December 1, 1998 Run#:16336

Analyzed: December 4, 1998

	RESULT	REPORTING LIMIT	BLANK RESULT	BLANK D SPIKE	FACTOR
ANALYTE	(mg/Kg)	(mg/Kg)	(mg/Kg)	(%)	
GASOLINE	N.D.	10	N.D.	95	1
MTBE	1.3	0.62	N.D.	75	1
BENZENE	N.D.	0.62	N.D.	87	1
TOLUENE	N.D.	0.62	N.D.	87	1
ETHYL BENZENE	N.D.	0.62	N.D.	88	1.
XYLENES	N.D.	0.62	N.D.	89	1

Vincent Vancil

Analyst

Environmental Services (SDB)

December 9, 1998

Submission #: 9812022

AQUA SCIENCE ENGINEERS INC

Atten: Robert Kitay

Project: HUTCH'S CARWASH Received: December 1, 1998

re: One sample for Gasoline BTEX MTBE analysis.

Method: SW846 8020A Nov 1990 / 8015Mod

Client Sample ID: BH-E 15.5'

Spl#: 218641

Matrix: SOIL

Sampled: December 1, 1998

Run#:16340

Analyzed: December 3, 1998

	RESULT	REPORTING LIMIT	BLANK RESULT	BLANK DILUTION SPIKE FACTOR
ANALYTE	(mg/Kg)	(mg/Kg)	(mg/Kg)	(%)
GASOLINE	1.7	1.1	N.D.	102 1
MTBE	0.26	0.0050	N.D.	95 1
BENZENE	N.D.	0.0050	N.D.	92 1
TOLUENE	N.D.	0.0050	N.D.	90 1
ETHYL BENZENE	0.011	0.0050	N.D.	90 1
XYLENES	0.028	0.0050	N.D.	89 1

Vincent Vancil

Analyst

Environmental Services (SDB)

December 9, 1998

Submission #: 9812022

AQUA SCIENCE ENGINEERS INC

Atten: Robert Kitay

Project: HUTCH'S CARWASH Received: December 1, 1998

re: One sample for Gasoline BTEX MTBE analysis.

Method: SW846 8020A Nov 1990 / 8015Mod

Client Sample ID: BH-F 15.5'

Spl#: 218642

Matrix: SOIL

Sampled: December 1, 1998

Run#:16336

Analyzed: December 4, 1998

	RESULT	REPORTING LIMIT	BLANK RESULT	BLANK DILUTION SPIKE FACTOR
ANALYTE	(mq/Kq)	(mg/Kg)	(mg/Kg)	(%)
GASOLINE	N.D.	10	N.D.	95 1
MTBE	0.97	0.62	N.D.	75 1
BENZENE	N.D.	0.62	N.D.	87 1
TOLUENE	N.D.	0.62	N.D.	87 1
ETHYL BENZENE	N.D.	0.62	N.D.	88 1
XYLENES	N.D.	0.62	N.D.	89 1

Vincent Vancil

Analyst

Environmental Services (SDB)

December 8, 1998

Submission #: 9812022

AQUA SCIENCE ENGINEERS INC

Atten: Robert Kitay

Project: HUTCH'S CARWASH Received: December 1, 1998

re: One sample for Gasoline BTEX MTBE analysis.

Method: SW846 8020A Nov 1990 / 8015Mod

Client Sample ID: BH-G 15.5'

Spl#: 218658

Matrix: SOIL

Sampled: December 1, 1998

Run#:16340

Analyzed: December 3, 1998

ANALYTE	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kq)	BLANK RESULT (mg/Kg)	BLANK DILUTION SPIKE FACTOR (%)
GASOLINE MTBE BENZENE TOLUENE ETHYL BENZENE XYLENES	N.D. N.D. N.D. N.D. N.D.	1.0 0.0050 0.0050 0.0050 0.0050 0.0050	N.D. N.D. N.D. N.D. N.D. N.D.	102 1 95 1 92 1 90 1 90 1 89 1

. Vincent Vancil

Analyst

Michael Verona

Operations Manager

Environmental Services (SDB)

December 9, 1998

Submission #: 9812022

AQUA SCIENCE ENGINEERS INC

Atten: Robert Kitay

Project: HUTCH'S CARWASH Received: December 1, 1998

re: One sample for Gasoline BTEX MTBE analysis.

Method: SW846 8020A Nov 1990 / 8015Mod

Client Sample ID: BH-H 11.5'

Spl#: 218659

Matrix: SOIL

Sampled: December 1, 1998 Run#:16336

Analyzed: December 4, 1998

	RESULT	REPORTING LIMIT	BLANK RESULT	BLANK DILUTION SPIKE FACTOR
ANALYTE	(mg/Kg)	(mq/Kq)	(mg/Kg)	(왕)
GASOLINE	N.D.	10	N.D.	95 1
MTBE	N.D.	0.62	N.D.	75 1
BENZENE	N.D.	0.62	N.D.	87 1
TOLUENE	N.D.	0.62	N.D.	87 1
ETHYL BENZENE	N.D.	0.62	N.D.	88 1
XYLENES	N.D.	0.62	N.D.	89 1

Vincent Vancil

Analyst

Environmental Services (SDB)

December 9, 1998

Submission #: 9812022

AQUA SCIENCE ENGINEERS INC

Atten: Robert Kitay

Project: HUTCH'S CARWASH Received: December 1, 1998

re: One sample for Gasoline BTEX MTBE analysis.

Method: SW846 8020A Nov 1990 / 8015Mod

Client Sample ID: BH-C WATER

Spl#: 218660 Matrix: WATER

Sampled: December 1, 1998 Run#:16370 Analyzed: December 3, 1998

ANALYTE	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE (%)	DILUTION FACTOR
GASOLINE	N.D.	10000	N.D.	96	200
MTBE	4400	1000	N.D.	82	200
BENZENE	110	100	N.D.	93	200
TOLUENE	260	100	N.D.	92	200
ETHYL BENZENE	1500	100	N.D.	93	200
XYLENES	2700	100	N.D.	87	200

Note: Hydrocarbon found in Gasoline Range is uncharacteristic of Gasoline

Profile. If quantified using Gasoline's response factor, concentration

would equal 65000 ug/L.

Vincent Vancil

Analyst

Environmental Services (SDB)

December 9, 1998

Submission #: 9812022

AQUA SCIENCE ENGINEERS INC

Atten: Robert Kitay

Project: HUTCH'S CARWASH Received: December 1, 1998

re: One sample for Gasoline BTEX MTBE analysis.

Method: SW846 8020A Nov 1990 / 8015Mod

Client Sample ID: BH-D WATER

Spl#: 218661

Matrix: WATER

Sampled: December 1, 1998

Run#:16370

Analyzed: December 3, 1998

	RESULT	REPORTING LIMIT	BLANK RESULT	BLANK SPIKE	DILUTION FACTOR
ANALYTE	(uq/L)	(ug/L)	(ug/L)	(%)	TACION
GASOLINE	N.D.	5000	N.D.	96	100
MTBE	4200	500	N.D.	82	100
BENZENE	59	50	N.D.	93	100
TOLUENE	120	50	N.D.	92	100
ETHYL BENZENE	210	. 50	N.D.	93	100
XYLENES	230	50	N.D.	87	100

Note: Hydrocarbon found in Gasoline Range is uncharacteristic of Gasoline Profile If quantified using Gasoline's response factor, concentration

would equal 39000ug/L.

Vincent Vancil

Analyst

Environmental Services (SDB)

December 9, 1998

Submission #: 9812022

AQUA SCIENCE ENGINEERS INC

Atten: Robert Kitay

Project: HUTCH'S CARWASH Received: December 1, 1998

re: One sample for Gasoline BTEX MTBE analysis.

Method: SW846 8020A Nov 1990 / 8015Mod

Client Sample ID: BH-E WATER

Spl#: 218662

Matrix: WATER

Sampled: December 1, 1998

Run#:16370

Analyzed: December 4, 1998

		REPORTING	BLANK	BLANK	DILUTION
	RESULT	LIMIT	RESULT	SPIKE	FACTOR
ANALYTE	(uq/L)	(ug/L)	(ug/L)	(%)	
GASOLINE	N.D.	25000	N.D.	96	500
MTBE	N.D.	2500	N.D.	82	500
BENZENE	290	250	N.D.	93	500
TOLUENE	620	250	N.D.	92	500
ETHYL BENZENE	3000	, 250	N.D.	93	500
XYLENES	7100	250	N.D.	87	500

Note: Hydrocarbon found in Gasoline Range is uncharacteristic of Gasoline Profile.If quantified using Gasoline's response factor, concentration

woold equal 200000ug/L.

Vincent Vancil

Analyst

Environmental Services (SDB)

December 9, 1998

Submission #: 9812022

AOUA SCIENCE ENGINEERS INC

Atten: Robert Kitay

Project: HUTCH'S CARWASH Received: December 1, 1998

re: One sample for Gasoline BTEX MTBE analysis.

Method: SW846 8020A Nov 1990 / 8015Mod

Client Sample ID: BH-F WATER

Spl#: 218663

Matrix: WATER

Sampled: December 1, 1998

Run#:16343

Analyzed: December 3, 1998

ANALYTE	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK DI SPIKE I (%)	LLUTION FACTOR
GASOLINE	1100	1000	N.D.	97	20
MTBE	880	100	N.D.	85	20
BENZENE	42	10	N.D.	95	20
TOLUENE	N.D.	10	N.D.	94	20
ETHYL BENZENE	N.D.	10	N.D.	95	20
XYLENES	N.D.	10	N.D.	89	20

Vincent Vancil

Analyst

Environmental Services (SDB)

December 9, 1998

Submission #: 9812022

AQUA SCIENCE ENGINEERS INC

Atten: Robert Kitay

Project: HUTCH'S CARWASH Received: December 1, 1998

re: One sample for Gasoline BTEX MTBE analysis.

Method: SW846 8020A Nov 1990 / 8015Mod

Client Sample ID: BH-G WATER

Spl#: 218664

Matrix: WATER

Sampled: December 1, 1998 Run#:16343

Analyzed: December 3, 1998

		REPORTING	BLANK	BLANK I	DILUTION
	RESULT	LIMIT	RESULT	SPIKE	FACTOR
ANALYTE	(ug/L)	(ug/L)	(ug/L)	(왕)	
GASOLINE	55	50	N.D.	97	1
MTBE	18	5.0	N.D.	85	1
BENZENE	N.D.	0.50	N.D.	95	1
TOLUENE	0.64	0.50	N.D.	94	1
ETHYL BENZENE	0.63	. 0.50	N.D.	95	1
XYLENES	1.9	0.50	N.D.	89	1.

Vincent Vancil

Analyst

Environmental Services (SDB)

December 9, 1998

Submission #: 9812022

AOUA SCIENCE ENGINEERS INC

Atten: Robert Kitay

Project: HUTCH'S CARWASH
Received: December 1, 1998

re: One sample for Gasoline BTEX MTBE analysis.

Method: SW846 8020A Nov 1990 / 8015Mod

Client Sample ID: BH-H WATER

Spl#: 218665

Matrix: WATER

Sampled: December 1, 1998

Run#:16343

Analyzed: December 3, 1998

	RESULT	REPORTING LIMIT	BLANK RESULT	BLANK DILU SPIKE FAC	
ANALYTE	(ug/L)	(ug/L)	(ug/L)	(%)	
GASOLINE	1900	1000	N.D.	97 20	
MTBE	3400	100	N.D.	85 20	
BENZENE	15	10	N.D.	95 20	
TOLUENE	N.D.	10	N.D.	94 20	
ETHYL BENZENE	N.D.	10	N.D.	95 20	
XYLENES	N.D.	10	N.D.	89 20	

Vincent Vancil

Analyst

1220 Quarry Lano • Pleasanton, Callfornia 94566-4756 510/494-1919 • Facsimila 510/494-1998

-1112072/218637-65

SUMM #: 9812822 REP: 98

12/88/98 -

CLIENT: ASE

DUE:

DATE 12-1-98 PAGE / OF 4

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ADDRESS 208 West El Pintado Road Danville, Ct 94526							PURCEABLE AROMATICS BTEX (EPA 8020)	PA 8015M)	ISM) Keerl, DM.O.	FURCEABLE BALOCARBONS (HVOCs) (EPA 2010)	GANICS 8260)	ES	ND GREASE	Q	EPA 8080) 8080)	\$080) \$270 \$310		. 23.	FALS 70/7471)		g	Chromium old time for H20)			CHTAINERS
Rabal C. Kilo Bample ID.	DATE	(125)	820	FAX 110.) - 485	10.5	TPH-(EPA 8015,8 Thank w/ 20-8TEX	PURCEABLE BTEX (EPA	TPH-Dissel (EP	TEH (EPA 8015M) Olement, Odiesel, OM.O.	FUNCTABLE :	VOLATILE ORGANICS	SEMIVOLATILES (EPA 8270)	TOTAL OIL AND ISM 5520 B+F. R	70H	O PESTICIDÉS(EPA 84 O POSTS (EPA 8080)	PNA's by CI 8270	O Spec. Cond.	LUFT METALS: Cd. Cr. Pb. Ni.	CAM 17 METALS (EPA 8010/7470/7471	TOTAL LEAD	DWET. (STLC)	O Recevalent Chr O pH (24 hr hold 1			NUMBER OF C
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BH-U 3-5		7.53												×											
BH~ 7.5°		7:56						+,						X					!						
BH-0 11.5°		8:01												×						-					
BH-C 15.5'		8:11				X														X					
BH-D 3-5'		8:39							- 					×											
BH-D 7.5'		8:12								<u> </u>				×						_	_	_ _			
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Environmental Services (SDB) (DOHS 1094)

1220 Quarry Lano • Pleasanton, California 94566-4756 510/484-1919 • Facshillo 510/484-1098

Chain of Custody

DATE 12-7-98 PAGE 2 OF 4

COMPANY Agus Schene Engineers Address 208 Wast El Pintado Rond Danville, CA 94518							50 E	SW)	DM.D.	ZBONS,	S		끯	AAA	G G	Háláir.						an for H2O)				5.5 S.	
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BH-E 11.5	9:	5/												X													
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BH-F 3.5) 10	. 25		_						·				×													
BH-F 7.5'	10	: 3/		_		l		l ——-				- 		×	 		 	<u> </u>									
BH-F 11-5	10	34		_	<u> </u>				- 			. .	ļ	X			<u> </u>			<u> </u>							
BH-F 15.5'	10	40				<u>×</u>														×							
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Report: Number 11 Level 2 11 Level 3 11 Level 4 11 Electronic Report								nece Z	NED D	۲ ع <u>ـ</u> ـــ		/	600		CENEL	DY			-	2	RECEIVED BY (LABOUATORY) 3						
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1220 Quarry Lane . Pleasanton, California 94566-4756 510/404-1919 • Facsimile 510/484-1098

Chain of Custody.

Environmental Services (SDB) (DOHS 1094)

DATE 12-1-98 PAGE 3 OF 4 analysis Hepoht ADDRESS 205 West El Pinterdo Rica. PURGEABLE AROMATICS BTEX (EPA 8020) GREASE E+F) VOCATILE ORGANICS CAM 17 METALS (EPA 6010/7470/7471) Dinville, UA 94526 TEH (EPA 8015M) TOTAL OIL AND (ISM 5520 B+F, E OWET. (STLC) OTCL? Cd. Cr. Pb. Ni. Z O Spec Coad. O TSS O TDS SAMPLETIS (SIGNATURE) 7 TOTAL LEAD (PHONE HO.) 古み × 11:35 × 12:00 12:03 12:10 \times 8:21 Water Hel 10.13 BAMPLE HECEIPT RELIROUISHED BY ... HEUROUISHED BY NELINGUISHED BY TOTAL NO. OF CONTAINERS 15:50 Hutch's Carwash (SICHATURE) HEAD BPACE (HIME) (SKUHATUHAC) parti TEMPENATURE PIVITED HAMEL PINITED HAMEL P.O. # CONFORMS TO RECORD COMPAIN OTHER *NECENED BY* **RECEIVED BY** *NECEIVED BY ILABORATORY* Report: 11 Routine 11 Level 2 ULevel 3 ULevel 4 U Electronic Report 600 SPECIAL INSTRUCTIONS/COMMENTS: (SYOMATURE) TIME (SKITIATUTE) (JAKIED HAME) (3MAH (13 HHP)) COMPANY

1220 Quarry Lane • Pleasanton, California 94566-4756 510/494-1919 • Facsimile 510/494-1096 Chain of Custody.

DATE 12-1-98 PAGE 4 OF 4

Environmental Services (SDB) (DOHS 1094)

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		(925)) 820 "	110ME 110.	PA 80	量原	Ŧ	A i	H E	46	38	불		Ä	<u>۲</u>	3 5	4 F	7. 10.7.	T _E	(21	15				
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	DATE	TIME	MATRIX	PRESERV	# 15 Kg	절등	🛱	皆引	題	Šξ	图画	<u> </u>		00	₹.	20	ਤੇ ਤੋਂ	₹ 🖺	; P					l	Ę
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\ <u></u>	COMLYNA							- 	MIPAPIN																