# INSTALLATION RESTORATION PROGRAM



AD-A277 740

FINAL

Site investigation Report

Volume 3

Appendices H Through M
November 1992

SELECTE DAPR 0 4 1994

161st AIR REFUELING GROUP ARIZONA AIR NATIONAL GUARD SKY HARBOR INTERNATIONAL AIRPORT PHOENIX, ARIZONA



Hazardous Waste Remedial Actions Program
Oak Ridge K-25 Site

Oak Ridge, Tennessee 37831-7606
Managed by MARTIN MARIETTA ENERGY SYSTEMS, INC.
For the U.S. DEPARTMENT OF ENERGY under contract DE-AC05-840R21400

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# FINAL SITE INVESTIGATION REPORT 161ST AIR REFUELING GROUP ARIZONA AIR NATIONAL GUARD SKY HARBOR INTERNATIONAL AIRPORT AND PAPAGO MILITARY RESERVATION PHOENIX, ARIZONA

VOLUME 3
APPENDICES
H THROUGH M

RECEIVED

Submitted To:

AIR NATIONAL GUARD READINESS CENTER ANDREWS AIR FORCE BASE, MARYLAND

Submitted By:

HAZARDOUS WASTE REMEDIAL ACTIONS PROGRAM
Oak Ridge K-25 Site
Oak Ridge, Tennessee 37831-7606
managed by
MARTIN MARIETTA ENERGY SYSTEMS, INC.
for the
U.S. DEPARTMENT OF ENERGY
under contract DE-AC05-840R21400

Prepared By:

IT CORPORATION
312 DIRECTORS DRIVE
KNOXVILLE, TENNESSEE 37923

Prepared For:

U.S. DEPARTMENT OF ENERGY CONTRACT DE-AC05-840R21400

**NOVEMBER 1992** 

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List of Appendice	98	ì
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# **Appendix**

#### Title

# **VOLUME 2**

- A Variance and Nonconformance Reports
- B Preliminary Review of Hydrogeologic Data for Facilities Adjacent to Sky Harbor Air National Guard Base
- C Geophysical Survey Report
- D SOV Survey Report
- E Soil Boring Logs
- F Piezometer and Monitoring Well Completion Diagrams
- G Piezometer and Monitoring Well Development Records

# **VOLUME 3**

- H Sample Collection Logs
   I Slug Tests and Analysis
   J Potentiometric Measurements
   K Results of Screening Analyses
   L Tabulation of Soil Analytical Results
- M Tabulation of Water Analytical Results

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# APPENDIX H SAMPLE COLLECTION LOGS



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- 1 A SAMPLE COLLECTION LOG IS TO BE COMPLETED FOR EACH SAMPLE.
- 2. ALWAYS COMPLETE BOTH SIDES, IF SECOND SIDE IS NOT USED, DRAW A LINE THROUGH IT AND MARK N/A FILL IN CONTROL BLOCK AND PREPARED BY.
- 3. ALL ENTRIES ON LOG ARE TO BE COMPLETED, IF NOT APPLICABLE MARK N/A
- 4 DATE, USE MONTH/DAY/YEAR; I.E., 10/30/85
- 5 TIME. USE 24-HOUR CLOCK: I.E., 1835 FOR 6:35 P M
- 6 PAGE. EACH SAMPLE TEAM SHOULD NUMBER PAGE \_\_\_\_\_\_ OF \_\_\_\_\_ FOR THE DAY'S ACTIVITIES FOR ALL SHEETS PREPARED ON A SINGLE DAY. I.E., IF THERE ARE A TOTAL OF 24 PAGES (INCLUDING FRONT AND BACK) NUMBER 1 OF 24. 2 OF 24. ETC.
- 7 SAMPLE LOCATION: USE BORING OR MONITORING WELL NUMBER. GRID LOCATION (TRANSECT), SAMPLING STATION 1 D. OR COORDINATE TO PHYSICAL FEATURES WITH DISTANCES. INCLUDE SKETCH IN COMMENT SECTION IF NECESSARY
- 8 SAMPLE TYPE: USE THE FOLLOWING SOIL. WATER (SURFACE OR GROUND). AIR (FILTERS, TUBES, AMBIENT, PERSONNEL), SLUDGE DRUM CONTENTS, OIL, VEGETATION: WIPE, SEDIMENT
- 9 COMPOSITE TYPE: I.E., 24-HOUR, LIST SAMPLE NUMBERS IN COMPOSITE, SPATIAL COMPOSITE
- 10 DEPTH OF SAMPLE: GIVE UNITS, WRITE OUT UNITS SUCH AS INCHES, FEET DON'T USE ' OR "
- 11 WEATHER APPROXIMATE TEMPERATURE, SUN AND MOISTURE CONDITIONS
- 12 CONTAINERS USED: LIST EACH CONTAINER TYPE AS NUMBER. VOLUME, MATERIAL (E.G., 2 IL GLASS, 4 40 ML GLASS VIAL, 1 400 ML PLASTIC, 1 3 INCH STEEL TUBE; 1 8 OZ. GLASS JAR).
- 13 AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL)



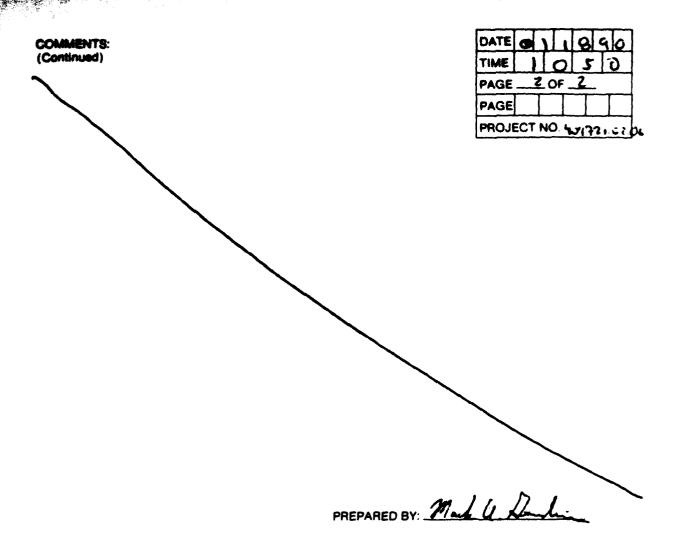
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- 11 WEATHER APPROXIMATE TEMPERATURE. SUN AND MOISTURE CONDITIONS
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- 13 AMOUNT COLLECTED VOLUME IN CONTAINERS (E.G. 1.2 FULL)



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- 2 ALWAYS COMPLETE BOTH SIDES IF SECOND SIDE IS NOT USED. DRAW A LINE THROUGH IT AND MARK N/A FILL IN CONTROL BLOCK AND PREPARED BY

PREPARED BY: Mack O. Sharling

- 3. ALL ENTRIES ON LOG ARE TO BE COMPLETED IF NOT APPLICABLE MARK N/A
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- 8 SAMPLE TYPE USE THE FOLLOWING SOIL WATER (SURFACE OR GROUND) AIR (FILTERS TUBES AMBIENT PERSONNEL) SLUDGE DRUM CONTENTS. OIL. VEGETATION. WIPE SEDIMENT
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- 12 CONTAINERS USED. LIST EACH CONTAINER TYPE AS NUMBER, VOLUME, MATERIAL (E.G., 2 IL GLASS 4 40 ML GLASS VIAL 1 400 ML PLASTIC, 1 3 INCH STEEL TUBE, 1 8 OZ. GLASS JAR)
- 13. AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL)



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- 8 SAMPLE TYPE: USE THE FOLLOWING SOIL. WATER (SURFACE OR GROUND). AIR (FILTERS, TUBES, AMBIENT, PERSONNEL). SLUDGE DRUM CONTENTS, OIL: VEGETATION: WIPE: SEDIMENT
- 9. COMPOSITE TYPE: I.E., 24-HOUR, LIST SAMPLE NUMBERS IN COMPOSITE. SPATIAL COMPOSITE
- 10 DEPTH OF SAMPLE: GIVE UNITS, WRITE OUT UNITS SUCH AS INCHES. FEET DON'T USE " OR "
- 11 WEATHER: APPROXIMATE TEMPERATURE, SUN AND MOISTURE CONDITIONS
- 12 CONTAINERS USED: LIST EACH CONTAINER TYPE AS NUMBER, VOLUME, MATERIAL (E.G., 2 IL GLASS, 4 40 ML GLASS VIAL, 1 400 ML PLASTIC; 1 3 INCH STEEL TUBE; 1 8 OZ. GLASS JAR).
- 13. AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL).



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PAGE OF 2				
PAGE				
PROJECT NO. 43131				

PROJECT NAME Sky HARRY ANG		
SAMPLE NO. SB1 - 05 - 35-40/01		
SAMPLE LOCATION Sol Bary 531-0	<u> </u>	
SAMPLE TYPE	CONTAINERS USED	AMOUNT COLLECTED
COMPOSITEYESNO	USED	COLLECTED
COMPOSITE TYPE	(2) 6-12m	
DEPTH OF SAMPLE 35-40 4.	BASS SLEENS	<u> </u>
WEATHER CLIMAN, BASKEY		

COMMENTS:

Sample OI Fox Hume LAB; OR not recound.

PREPARED BY: M.a. Halin

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PREPARED BY: M.A. Kalin

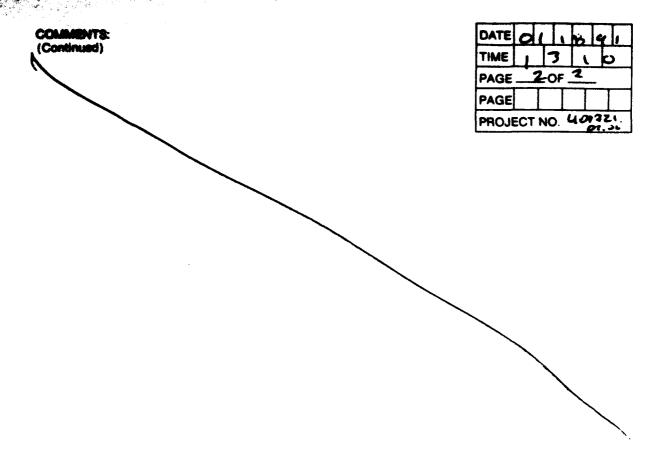
- 1 A SAMPLE COLLECTION LOG IS TO BE COMPLETED FOR EACH SAMPLE.
- 2. ALWAYS COMPLETE BOTH SIDES IF SECOND SIDE IS NOT USED. DRAW A LINE THROUGH IT AND MARK N/A FILL IN CONTROL BLOCK AND PREPARED BY
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- 5 TIME: USE 24-HOUR CLOCK, I.E., 1835 FOR 6:35 P M
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- 13 AMOUNT COLLECTED VOLUME IN CONTAINERS (E.G. 1/2 FULL).



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PROJECT NAME SET OF SAI HORRA	ANG.	
SAMPLE NO	~	
SAMPLE LOCATION Sol Boring S31  SAMPLE TYPE Sol NO	CONTAINERS USED	AMOUNT COLLECTED
COMPOSITE TYPE	(2) 6 ml	
DEPTH OF SAMPLE 40. 454	BAK, SIRENZ	
WEATHER CUAR, BASSEY		
COMMENTS:  Small O1 For Home lab j OZ No	or record.	

PREPARED BY: M.G. Barlin



- 1 A SAMPLE COLLECTION LOG IS TO BE COMPLETED FOR EACH SAMPLE
- 2 ALWAYS COMPLETE BOTH SIDES IF SECOND SIDE IS NOT USED. DRAW A LINE THROUGH IT AND MARK N/A. FILL IN CONTROL BLOCK AND PREPARED BY

PREPARED BY: Ma Relin

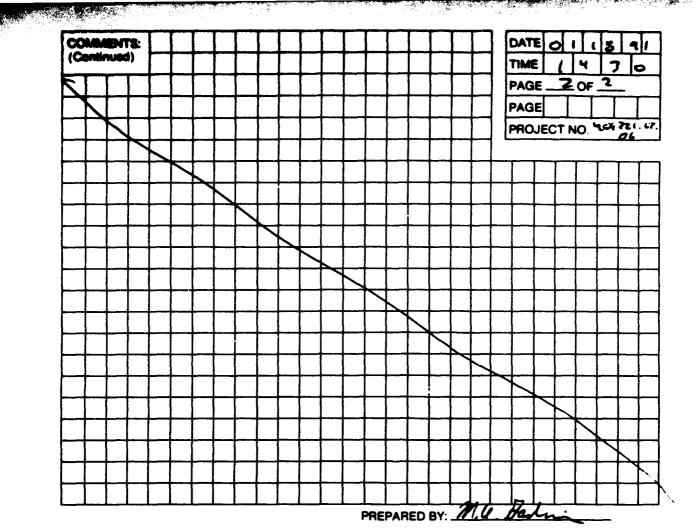
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DEPTH OF SAMPLE Y5-50 4.															S	u	w	\$		4			
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***	WEATHER CLARK, WARRY, LANDON																						
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PREPARED BY: M.G. Dalu-

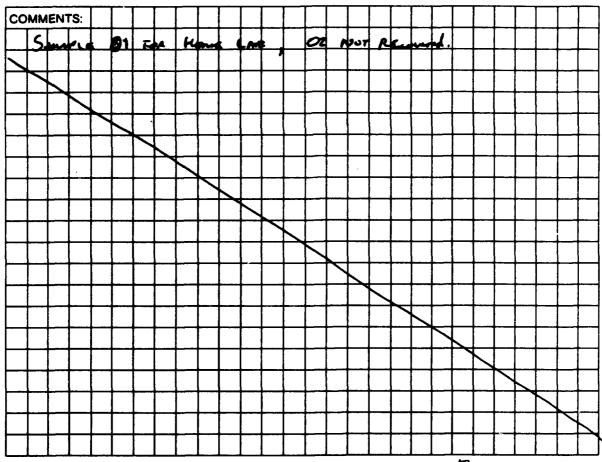


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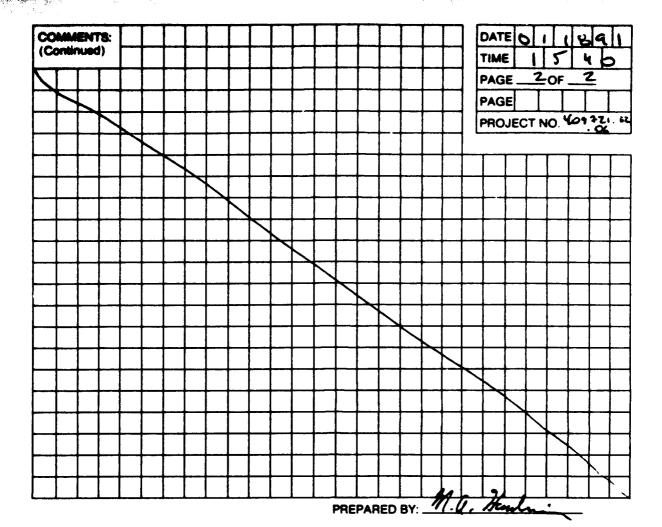


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SAMPLE NO	70/01		
SAMPLE LOCATION Son Brain	531-05		
SAMPLE TYPE		CONTAINERS USED	AMOUNT COLLECTED
COMPOSITEYESNO			
COMPOSITE TYPE	_	6" BLASS	·
DEPTH OF SAMPLE 65-70 4.	_	Success (2)	
WEATHER	-		



PREPARED BY: M.G. Taslin



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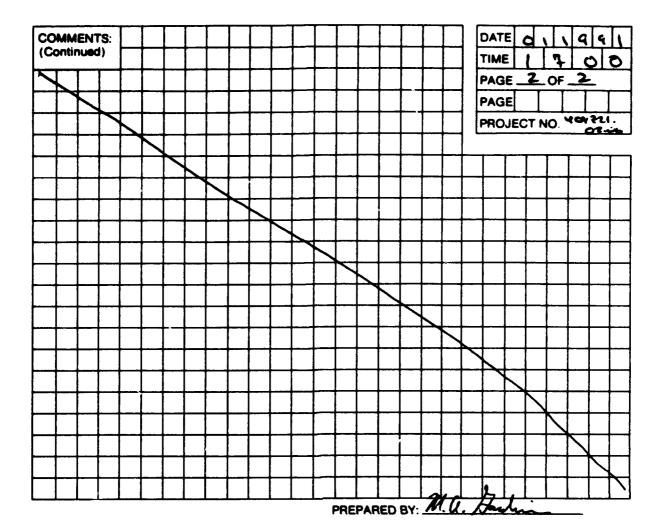
PREPARED BY: JTyburshi



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SAMPLE NO. SEE BELOW  SAMPLE LOCATION PARKS MINITED RECEIVED  SAMPLE TYPE SOLL CONTAINERS USED  COMPOSITE YES NO  COMPOSITE TYPE  DEPTH OF SAMPLE SEE BELOW  WEATHER CLAM, BALEST, WARM  COMMENTS:  SAMPLE 18 Time And DAY SAMPLE SEE CHANGE  PP-01 - 58 - 51 - 01 1135 500 at 50 - 51 G. Record From Creams  PP-02 - 54 - 55 - 01 0920 500 at 55 G. Record From Creams  PP-03 - 54 - 55 - 01 0920 500 at 55 G. Record From Creams  PP-04 - 57 - 57 - 55 - 01 0920 500 at 55 G. Record From Creams  PP-05 - 54 - 55 - 01 0920 500 at 55 G. Record From Creams			_	NAM																								
COMPOSITE YES NO  COMPOSITE TYPE  DEPTH OF SAMPLE  SEE BELL  COMMENTS:  COMMENTS:  SAMPLE SE STANDE  CONTAINERS USED  COLLECTED  COL																												
COMPOSITE YES NO  COMPOSITE TYPE  DEPTH OF SAMPLE SEE BELOW  WEATHER CLAME, BREST, WARM  COMMENTS:  SHAPPLE SE TIME ARE DESCRIPTION OF SAMPLE SEE CHANGE  PP-01-58-51-01 1135 500 501 54-554. Record fee Creater  PP-02-54-55-01 1320 501 54-554. Record fee Creater  PP-02-54-55-01 1320 501 54-554. Record fee Creater													4	2.	<u>-ca</u>	علاك	(Jot	1										
COMPOSITEYESNO  COMPOSITE TYPE													•				(				RS							
DEPTH OF SAMPLE SEE BELOW  WEATHER CLAME, BREET, WARM  COMMENTS:  SHOPE SE TIME AND LONG COMMENTS  PP-01 - 58-51-01 1135 500 59-51 6. Record From Cyclone  PP-02 - 54-55-01 1320 505 ML 54-55-0. Record From Cyclone	CO	MPC	SIT	Έ	_		YE	S	_	<u>/</u>	NO																	
COMMENTS:    Sumple #   Time   Payant   Day Sume   Contact     PP-01-58-51-01   1135   500ml   59-514.   Record fee Cyclone     PP-02-54-55-01   1320   501ml   54-554.   Record fee Cyclone	СО	MPC	SIT	ΈT	YPE	_							•				_5	<u> </u>	<u>ml</u>	C	استد	<u> </u>	ļ	<u>Sf</u>	2	B4,	<u> </u>	
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PP-02-54-55-01 1320 500ml 54-55-4. Record Fee Cycles	CC	MM	_	Ė	<u> </u>	_		<u> </u>	_	<u> </u>	ļ		<u> </u>				Ļ						_					
PP-02-54-55-01 1320 500 ml 54-55-A. Record Fee Cyclons	_	ļ.,					_	_	1	_			Ŀ	_			1	I					_			_	$\vdash\vdash$	$\square$
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PREPARED BY: Mak a. Janlin



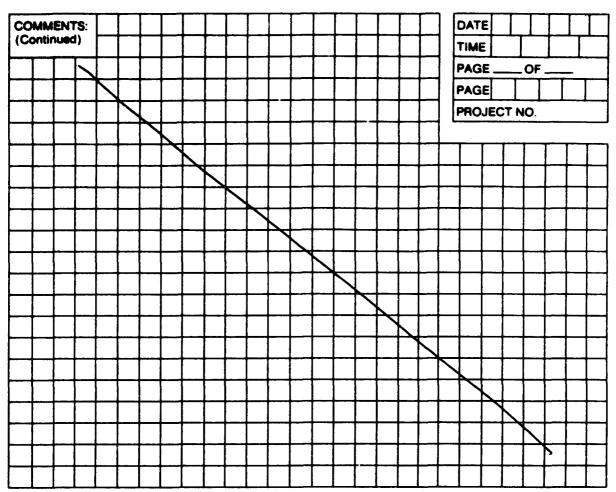
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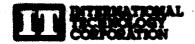
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PREPARED BY: Edward G. Rank .:



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- 1 A SAMPLE COLLECTION LOG IS TO BE COMPLETED FOR EACH SAMPLE.
- 2 ALWAYS COMPLETE BOTH SIDES. IF SECOND SIDE IS NOT USED, DRAW A LINE THROUGH IT AND MARK N/A. FILL IN CONTROL BLOCK AND PREPARED BY.
- 3. ALL ENTRIES ON LOG ARE TO BE COMPLETED, IF NOT APPLICABLE MARK N/A.
- 4 DATE: USE MONTH/DAY/YEAR; I.E., 10/30/85
- 5 TIME: USE 24-HOUR CLOCK; I.E., 1835 FOR 6:35 P M
- 6 PAGE. EACH SAMPLE TEAM SHOULD NUMBER PAGE \_\_\_\_\_\_ OF \_\_\_\_\_FOR THE DAY'S ACTIVITIES FOR ALL SHEETS PREPARED ON A SINGLE DAY. I E., IF THERE ARE A TOTAL OF 24 PAGES (INCLUDING FRONT AND BACK) NUMBER 1 OF 24, 2 OF 24, ETC.
- 7 SAMPLE LOCATION: USE BORING OR MONITORING WELL NUMBER, GRID LOCATION (TRANSECT), SAMPLING STATION I.D., OR COORDINATE TO PHYSICAL FEATURES WITH DISTANCES INCLUDE SKETCH IN COMMENT SECTION IF NECESSARY.
- 8 SAMPLE TYPE USE THE FOLLOWING SOM, WATER (SURFACE OR GROUND), AIR (FILTERS, TUBES, AMBIENT, PERSONNEL), SLUDGE, DRUM CONTENTS OIL, VEGETATION, WIPE SECREPT
- 9 COMPOSITE TYPE: I.E., 24-HOUR, LIST SAMPLE NUMBERS IN COMPOSITE, SPATIAL COMPOSITE.
- 10 DEPTH OF SAMPLE GIVE UNITS, WRITE OUT UNITS SUCH AS INCHES, FEET DON'T USE "OR "
- 11 WEATHER APPROXIMATE TEMPERATURE. SUN AND MOISTURE CONDITIONS
- 12 CONTAINERS USED LIST EACH CONTAINER TYPE AS NUMBER, VOLUME, MATERIAL (E.G., 2 IL GLASS; 4 40 ML GLASS VIAL, 1 400 ML PLASTIC, 1 3 INCH STEEL TUBE, 1 8 OZ. GLASS JAR)
- 13 AMOUNT COLLECTED VOLUME IN CONTAINERS (E.G. 1/2 FULL)



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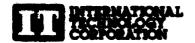
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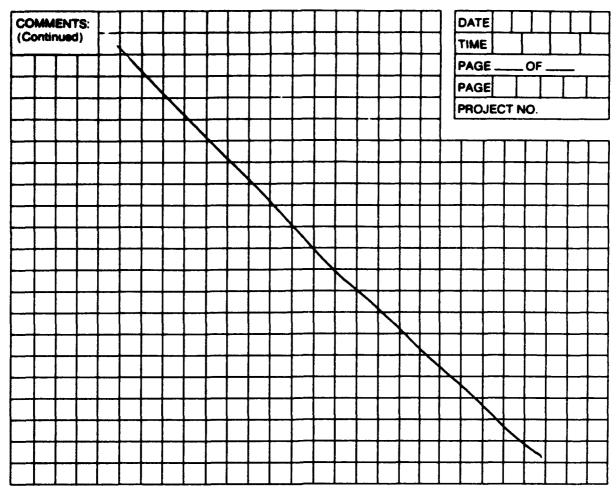
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- 9 COMPOSITE TYPE: I.E., 24-HOUR, LIST SAMPLE NUMBERS IN COMPOSITE, SPATIAL COMPOSITE.
- 10 DEPTH OF SAMPLE. GIVE UNITS, WRITE OUT UNITS SUCH AS INCHES, FEET DON'T USE "OR"
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- 12 CONTAINERS USED. LIST EACH CONTAINER TYPE AS NUMBER, VOLUME, MATERIAL (E.G., 2 IL GLASS, 4 40 ML GLASS VIAL, 1 400 ML PLASTIC, 1 3 INCH STEEL TUBE, 1 8 OZ. GLASS JAR)
- 13 AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL)



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- 9. COMPOSITE TYPE: I.E., 24-HOUR, LIST SAMPLE NUMBERS IN COMPOSITE. SPATIAL COMPOSITE.
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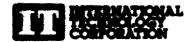
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PREPARED BY: J. Tyl.

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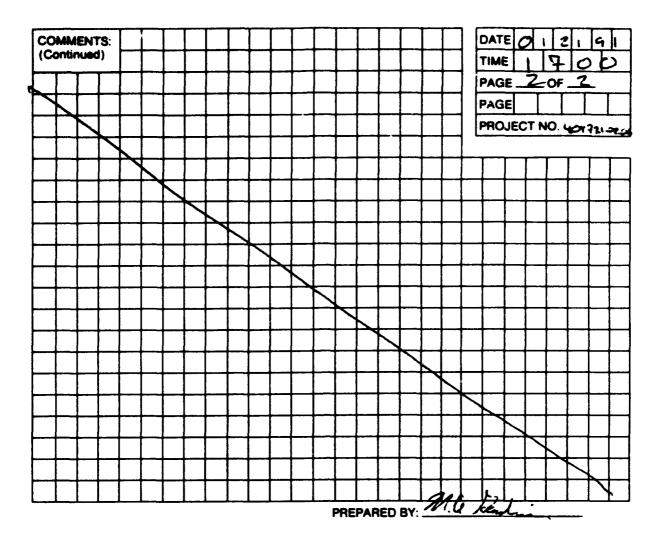
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- 9 COMPOSITE TYPE: I.E., 24-HOUR, LIST SAMPLE NUMBERS IN COMPOSITE, SPATIAL COMPOSITE.
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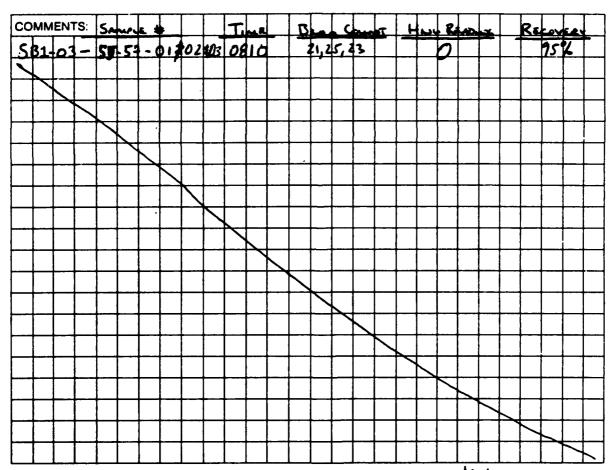


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- 5 TIME USE 24-HOUR CLOCK, I.E., 1835 FOR 6:35 P.M.
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- 13 AMOUNT COLLECTED VOLUME IN CONTAINERS (E.G. 1/2 FULL).

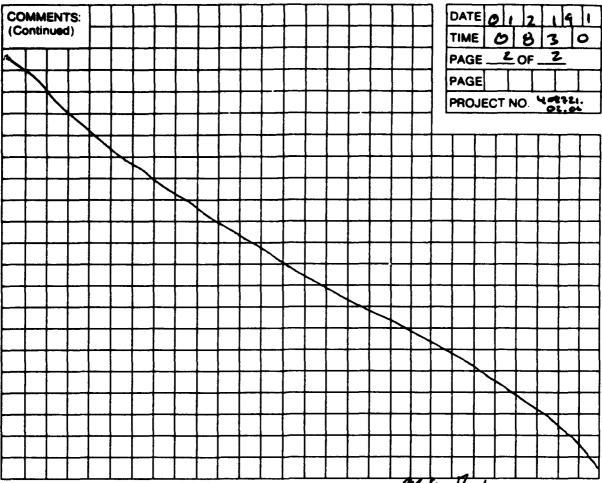


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PROJECT NAME SKY HARBOR ANG		
SAMPLE NO. Sac Balan		
SAMPLE LOCATION SOL BORING SB1-03		
SAMPLE TYPE Sole	CONTAINERS	AMOUNT
COMPOSITEYESNO	USED	COLLECTED
COMPOSITE TYPE	6" BEAST SLABOR	See Octavi
DEPTH OF SAMPLE SEE BELOW	W TEFLOW LINES	
WEATHER	Congs	



PREPARED BY: M. G. Julia



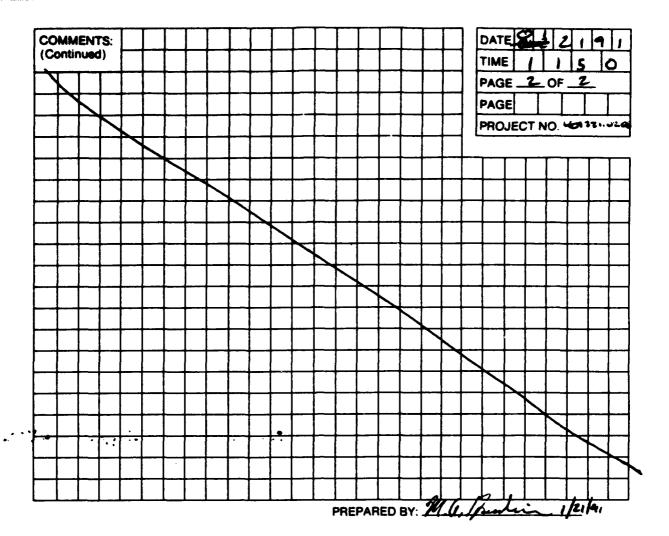
PREPARED BY: M.U. Handi

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SAMPLE LOCATION Son Boring	B1-04		
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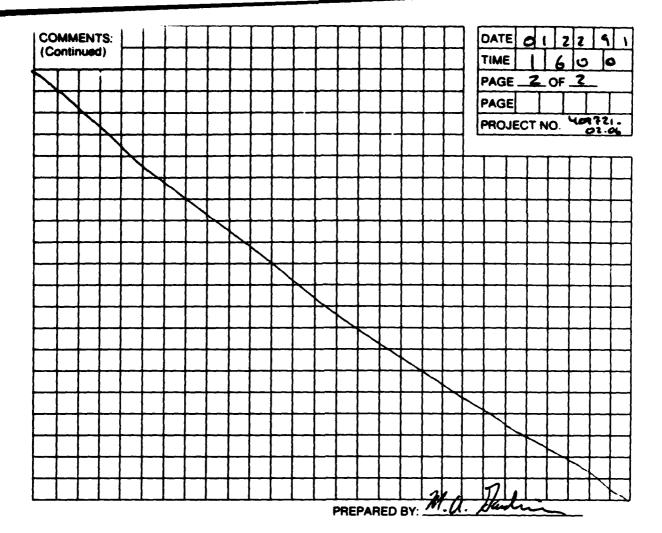
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SAMPLE NO. Sta Tisson		
SAMPLE LOCATION SITE Z SOL COLLE ST	2-04	
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WEATHER		-
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PREPARED BY: M. G. Davin

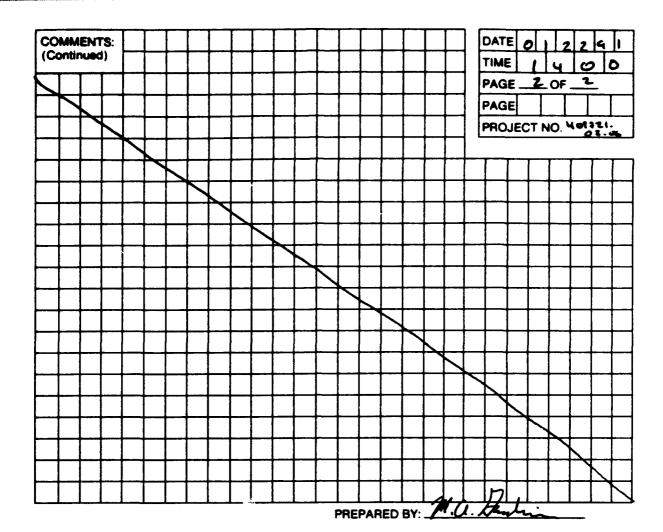


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	PROJECT NAME Ski Haron ANG		
	SAMPLE NO. STE BELOW		
	SAMPLE LOCATION SIRE 2 , Soil Bo	RIAN SB2-02	
	SAMPLE TYPE	CONTAINERS AMOUNT USED COLLECTED	
	COMPOSITEYESNO	GOLLEGIED	
	COMPOSITE TYPE	6- was Bass Sie Bass	
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	WEATHER CHAR, WARM, BRIEN	Longes Care	
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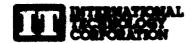
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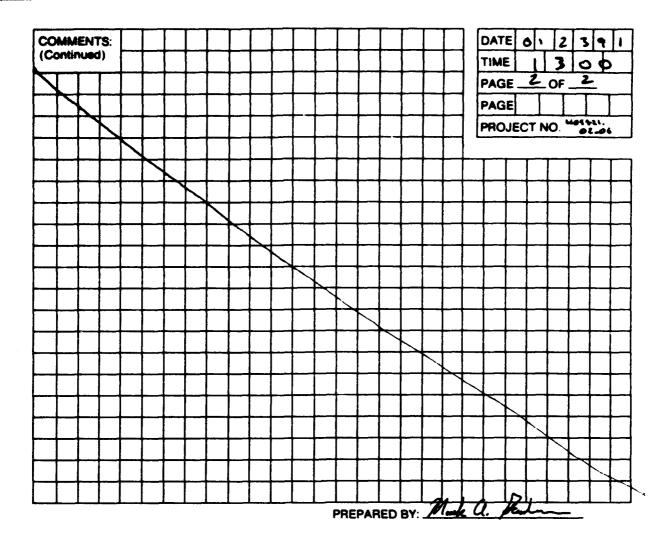
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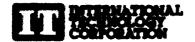
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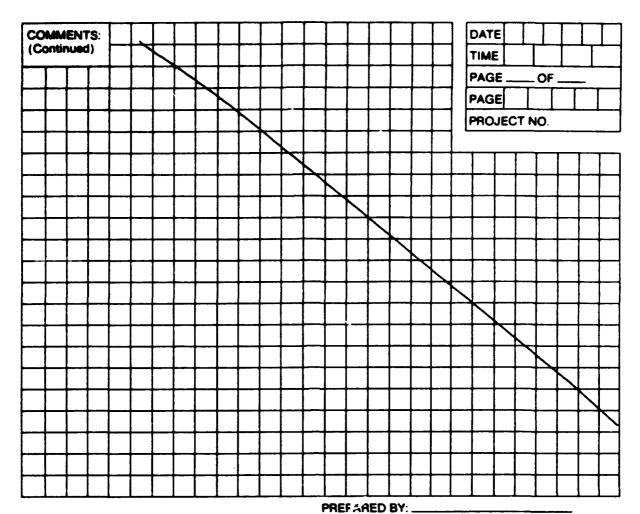
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- 5 TIME, USE 24-HOUR CLOCK, I.E., 1835 FOR 6:35 P M
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- 9 COMPOSITE TYPE: I.E., 24-HOUR, LIST SAMPLE NUMBERS IN COMPOSITE, SPATIAL COMPOSITE.
- 10 DEPTH OF SAMPLE. GIVE UNITS, WRITE OUT UNITS SUCH AS INCHES, FEET DON'T USE "OR"
- 11 WEATHER APPROXIMATE TEMPERATURE, SUN AND MOISTURE CONDITIONS
- 12. CONTAINERS USED LIST EACH CONTAINER TYPE AS NUMBER VOLUME, MATERIAL (E.G., 2 IL GLASS; 4 40 ML GLASS VIAL; 1 400 ML PLASTIC, 1 3 INCH STEEL TUBE, 1 8 OZ. GLASS JAR)
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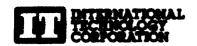
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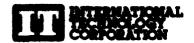
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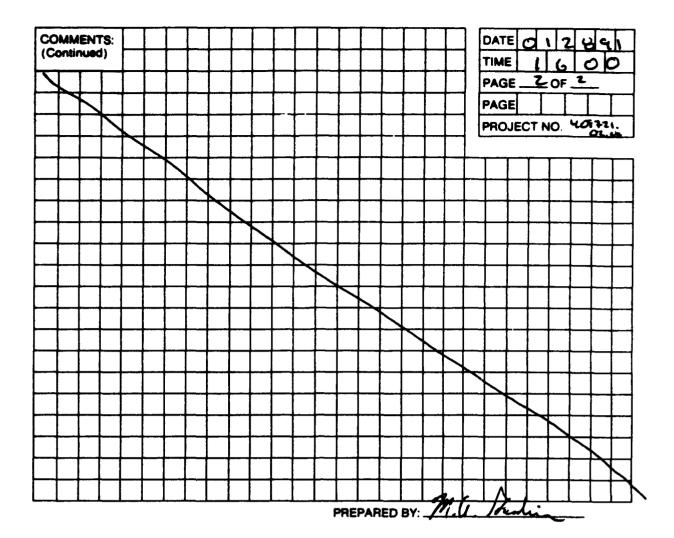
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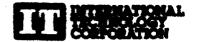
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PREPARED BY: M.L. Hade.



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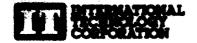
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- 1. A SAMPLE COLLECTION LOG IS TO BE COMPLETED FOR EACH SAMPLE.
- 2. ALWAYS COMPLETE BOTH SIDES, IF SECOND SIDE IS NATUSED, DRAW A LINE THROUGH IT AND MARK N/A. FILL IN CONTROL BLOCK AND PREPARED BY

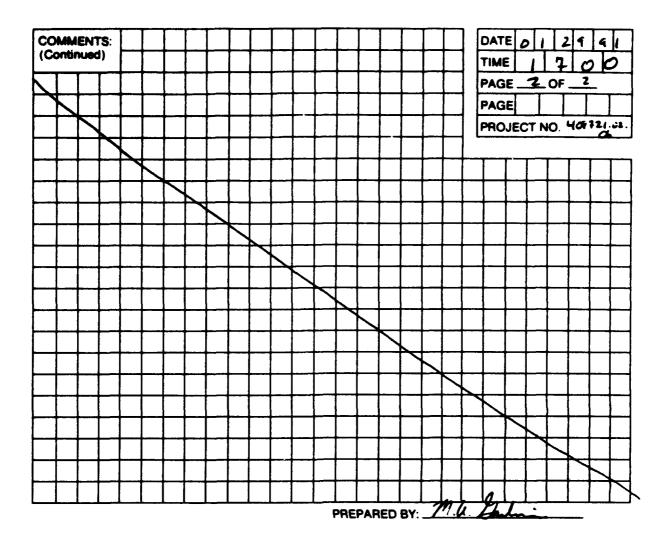
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- 3. ALL ENTRIES ON LOG ARE TO BE COMPLETED, IF NOT APPLICABLE MARK N/A.
- 4 DATE USE MONTH/DAY/YEAR: I.E., 10/30/85
- 5 TIME. USE 24-HOUR CLOCK: I.E., 1835 FOR 6:35 P.M.
- 6 PAGE EACH SAMPLE TEAM SHOULD NUMBER PAGE \_\_\_\_\_\_ OF \_\_\_\_\_ FOR THE DAY'S ACTIVITIES FOR ALL SHEETS PREPARED ON A SINGLE DAY I E. IF THERE ARE A TOTAL OF 24 PAGES (INCLUDING FRONT AND BACK) NUMBER 1 OF 24, 2 OF 24, ETC
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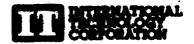


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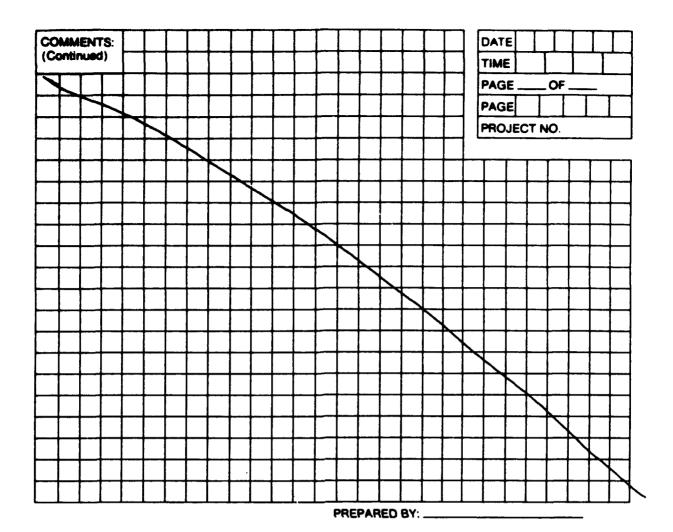


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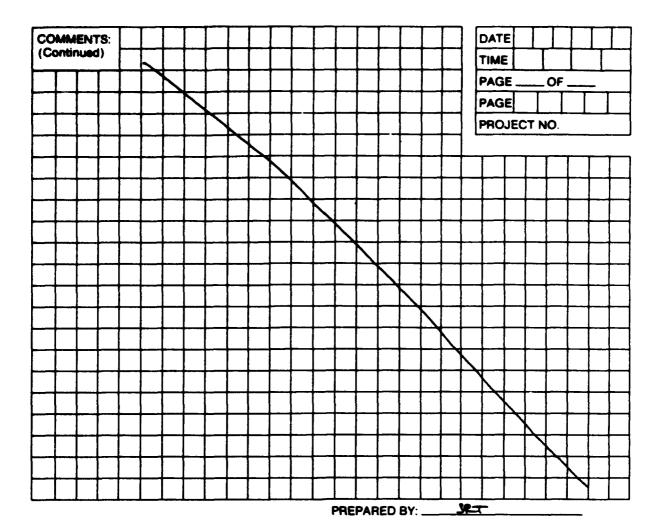
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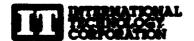
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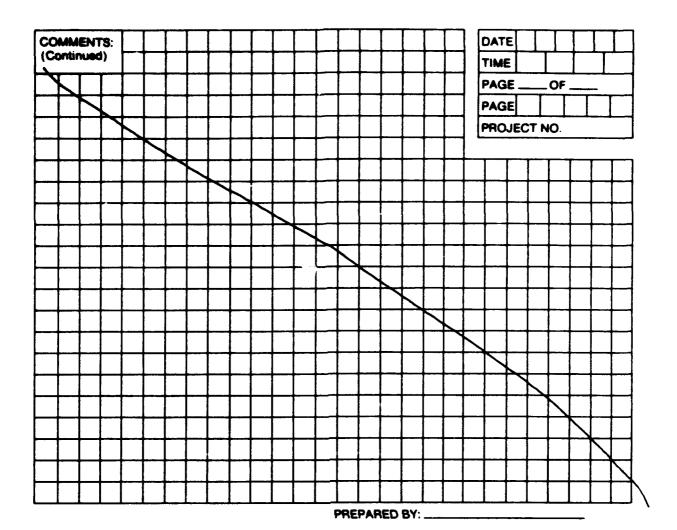
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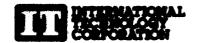
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PREPARED BY: M. W. Harling



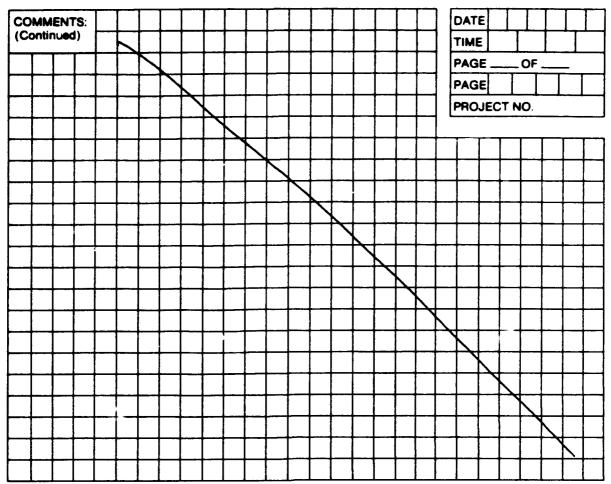
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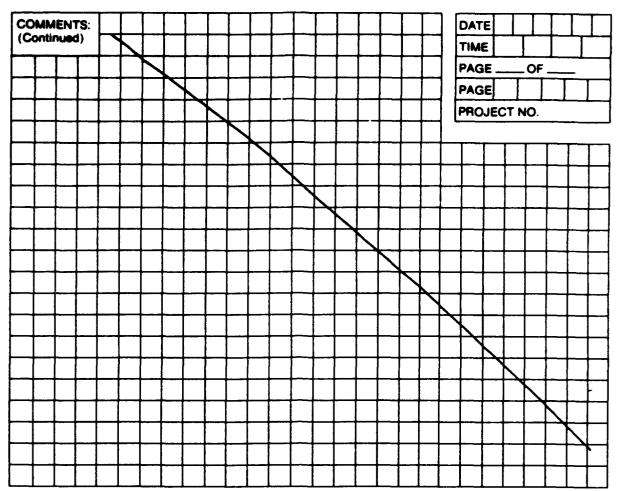
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PREPARED BY: J. Tyll.



PREPARED BY: \_\_\_\_\_

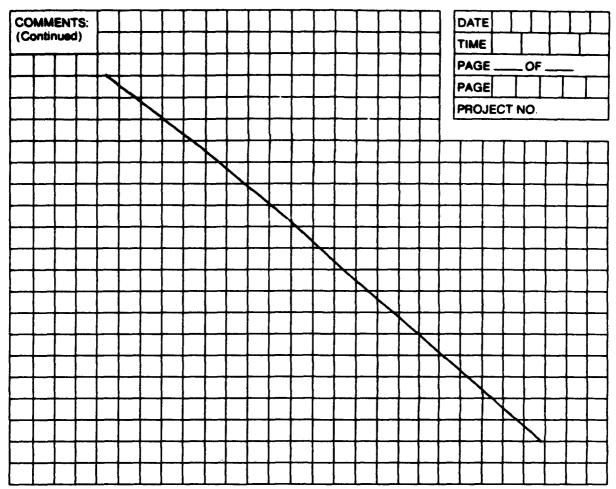
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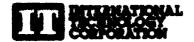
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PREPARED BY: J. Tyl-1.



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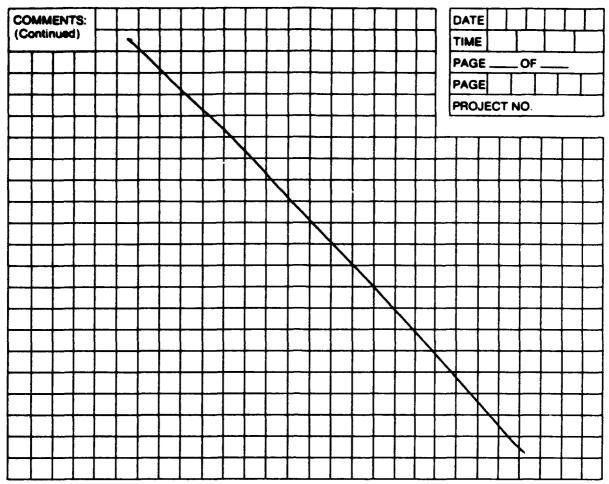
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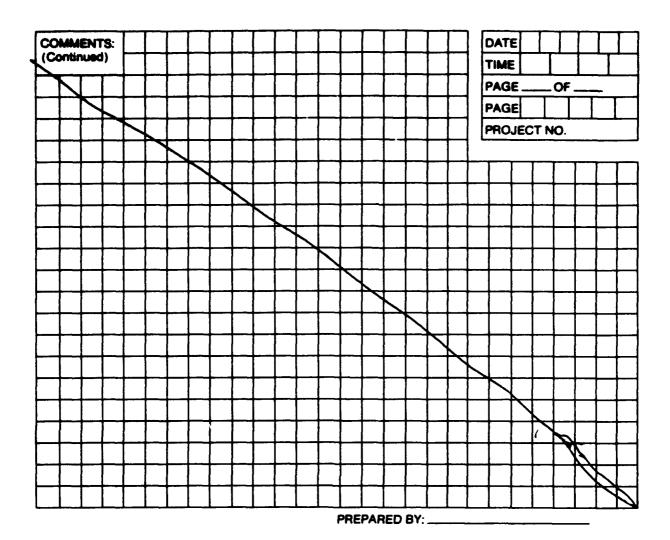
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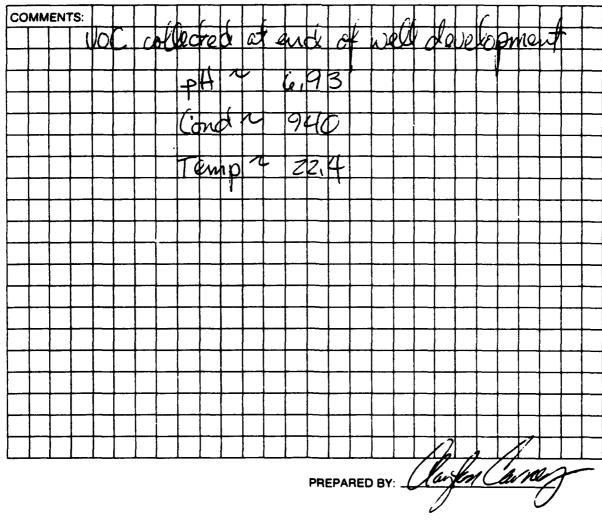
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- 6. PAGE. EACH SAMPLE TEAM SHOULD NUMBER PAGE \_\_\_\_\_\_OF \_\_\_\_\_FOR THE DAY'S ACTIVITIES FOR ALL SHEETS PREPARED ON A SINGLE DAY, I.E., IF THERE ARE A TOTAL OF 24 PAGES (INCLUDING FRONT AND BACK) NUMBER 1 OF 24, 2 OF 24, ETC.
- 7 SAMPLE LOCATION: USE BORING OR MONITORING WELL NUMBER, GRID LOCATION (TRANSECT), SAMPLING STATION LD., OR COORDINATE TO PHYSICAL FEATURES WITH DISTANCES. INCLUDE SKETCH IN COMMENT SECTION IF NECESSARY.
- 8 SAMPLE TYPE USE THE FOLLOWING SOIL; WATER (SURFACE OR GROUND); AIR (FILTERS, TUBES, AMBIENT, PERSONNEL), SLUDGE; DRUM CONTENTS, OIL, VEGETATION, WIPE, SEDIMENT
- 9 COMPOSITE TYPE: I.E., 24-HOUR, LIST SAMPLE NUMBERS IN COMPOSITE, SPATIAL COMPOSITE.
- 10 DEPTH OF SAMPLE: GIVE UNITS, WRITE OUT UNITS SUCH AS INCHES, FEET. DON'T USE "OR "
- 11 WEATHER: APPROXIMATE TEMPERATURE, SUN AND MOISTURE CONDITIONS.
- 12. CONTAINERS USED LIST EACH CONTAINER TYPE AS NUMBER, VOLUME, MATERIAL (E.G., 2 IL GLASS; 4 40 ML GLASS VIAL; 1 400 ML PLASTIC 1 3 INCH STEEL TUBE; 1 8 OZ. GLASS JAR).
- 13. AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL).



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PROJECT NAME Sky Howbor ANG	<u>a</u>	
SAMPLE NO. WV- PSI-1		
SAMPLE LOCATION PS 1		
SAMPLE TYPE Water	CONTAINERS USED	AMOUNT COLLECTED
COMPOSITE YESNO	- (- () () ()	
COMPOSITE TYPE Watev	2x40ml AG	80ml
DEPTH OF SAMPLE		
WEATHER 75°F, Clear		
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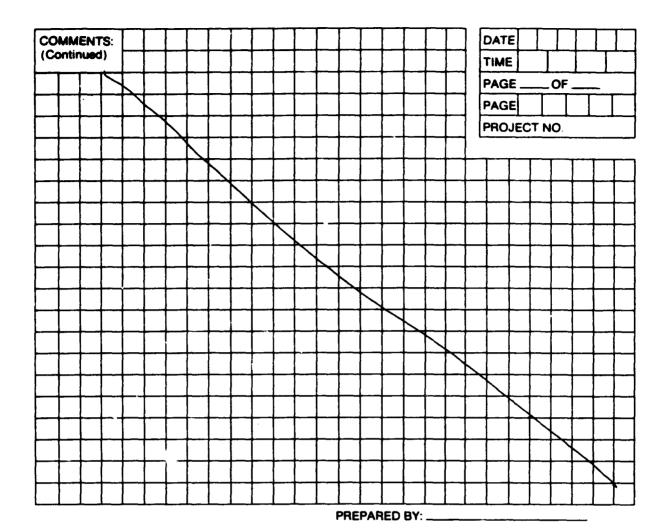
#### PREPARED BY: \_

- 1 A SAMPLE COLLECTION LOG IS TO BE COMPLETED FOR EACH SAMPLE
- 2. ALWAYS COMPLETE BOTH SIDES IF SECOND SIDE IS NOT USED. DRAW A LINE THROUGH IT AND MARK N/A. FILL IN CONTROL BLOCK AND PREPARED BY
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- 5 TIME: USE 24-HOUR CLOCK, I.E., 1835 FOR 6 35 P M
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- 11. WEATHER. APPROXIMATE TEMPERATURE, SUN AND MOISTURE CONDITIONS.
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- 13. AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL).



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PROJECT	NO. 4	1097	21

PROJECT NAME Sky Hav bov ANG SAMPLE NO. WWY-MW1-02-01 SAMPLE LOCATION MW1-02 SAMPLE TYPE Water											
	CONTAINERS USED	AMOUNT COLLECTED									
COMPOSITE TYPE Water	2 x 40 m   AG										
DEPTH OF SAMPLE NA WEATHER 17 F, Clan											
COMMENTS:											
WC collected at en	of wall	development									
pH ~ 6.8											
Conx 1 1070 u.5											
Temp ~ 25°C											
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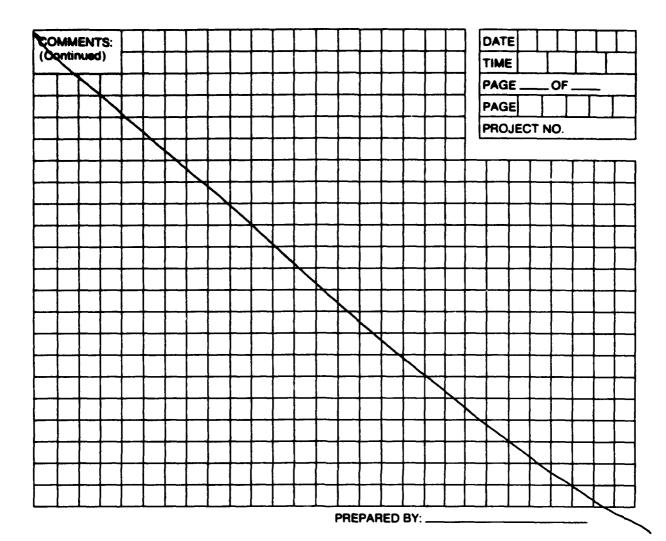
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PROJECT NAME SKY HARBOY ANSIG	
SAMPLE NO. QC-ERB	
SAMPLE LOCATION EQUIPMENT RINGE AT SET	-02
——————————————————————————————————————	ONTAINERS AMOUNT COLLECTED
COMPOSITEYESNO	
COMPOSITE TYPE NA See	e Below.
DEPTH OF SAMPLE	
WEATHER Sundy Linear Breeze	
COMMENTS:	
Educat Pensare of CA Studies	Ann Bays
Rose	
PR = U.ZZ	
Consultation = 40 million	
Tem = 24.2	<del></del>
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PREPARED BY: M.G. Danin

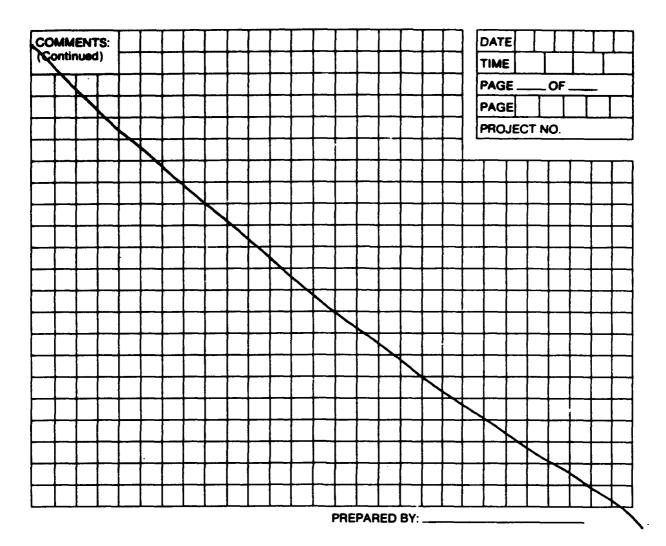


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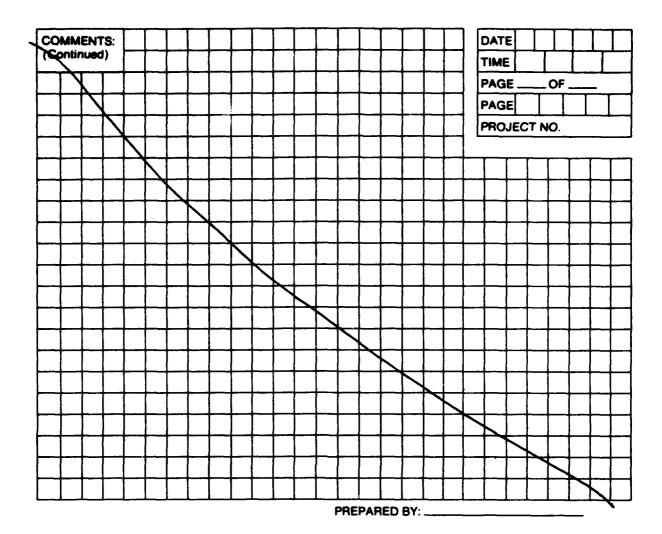
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PREPARED BY: Mach a. Handrin

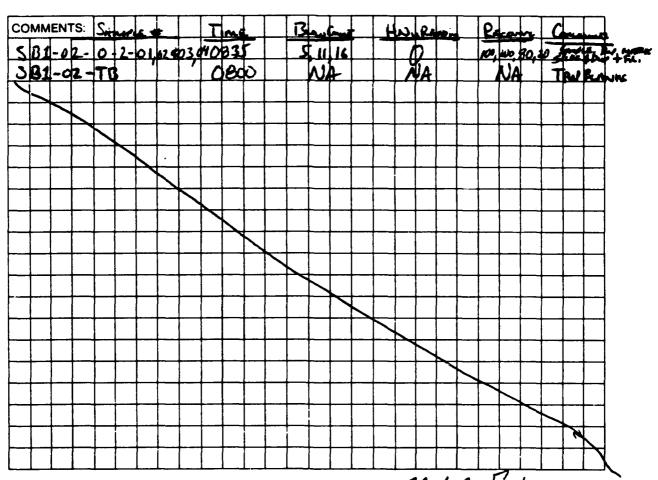


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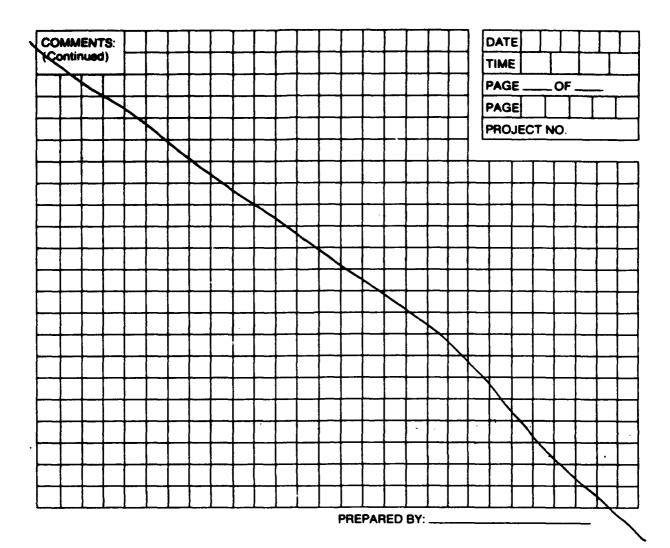


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PROJECT NAME Sky HARGE ANG	
SAMPLE NO. SER BELOW	
SAMPLE LOCATION SOLL BORING SEL	•02
SAMPLE TYPEYESNO	CONTAINERS AMOUNT COLLECTED
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DEPTH OF SAMPLE	w/ TERM - LINES
WEATHER	Coups



PREPARED BY: Made a. Balling



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- 9 COMPOSITE TYPE: I.E., 24-HOUR, LIST SAMPLE NUMBERS IN COMPOSITE, SPATIAL COMPOSITE.
- 10 DEPTH OF SAMPLE: GIVE UNITS, WRITE OUT UNITS SUCH AS INCHES, FEET DON'T USE ' OR ".
- 11 WEATHER: APPROXIMATE TEMPERATURE, SUN AND MOISTURE CONDITIONS
- 12 CONTAINERS USED: LIST EACH CONTAINER TYPE AS NUMBER, VOLUME, MATERIAL (E.G., 2 IL GLASS; 4 40 ML GLASS VIAL; 1 400 ML PLASTIC: 1 3 INCH STEEL TUBE; 1 8 OZ. GLASS JAR).
- 13. AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL).



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PROJECT NAME Sky Havby ANG SAMPLE NO. WY-MU3501-02 SAMPLE LOCATION MU3501 SAMPLE TYPE WATEV		
SAMPLE NO		
SAMPLE LOCATION		
SAMPLE TYPE Watev	CONTAINERS USED	AMOUNT COLLECTED
COMPOSITE TYPE Water		
COMPOSITE TYPE	2×40ml AG	30 ml
DEPTH OF SAMPLE		
DEPTH OF SAMPLE NA WEATHER Clear \$70°F		
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- 1 A SAMPLE COLLECTION LOG IS TO BE COMPLETED FOR EACH SAMPLE.
- 2. ALWAYS COMPLETE BOTH SIDES IF SECOND SIDE IS NOT USED, DRAW A LINE THROUGH IT AND MARK N/A FILL IN CONTROL BLOCK AND PREPARED BY.

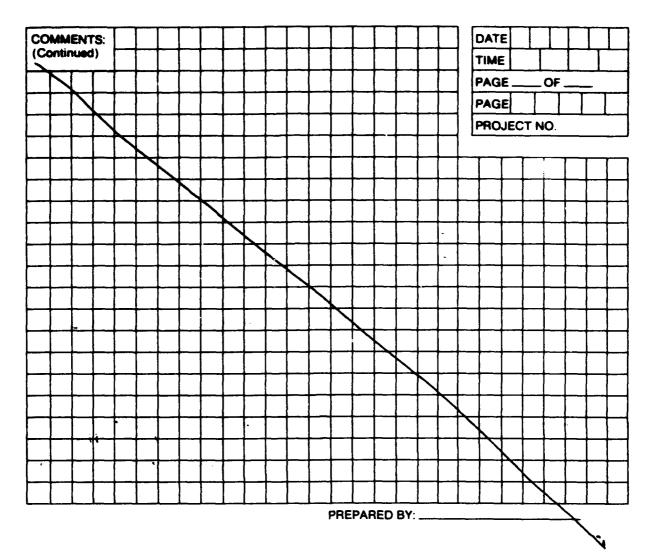
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- 3. ALL ENTRIES ON LOG ARE TO BE COMPLETED, IF NOT APPLICABLE MARK N/A
- 4 DATE: USE MONTH/DAY/YEAR: I.E., 10/30/85
- 5. TIME: USE 24-HOUR CLOCK: I E., 1835 FOR 6:35 P M
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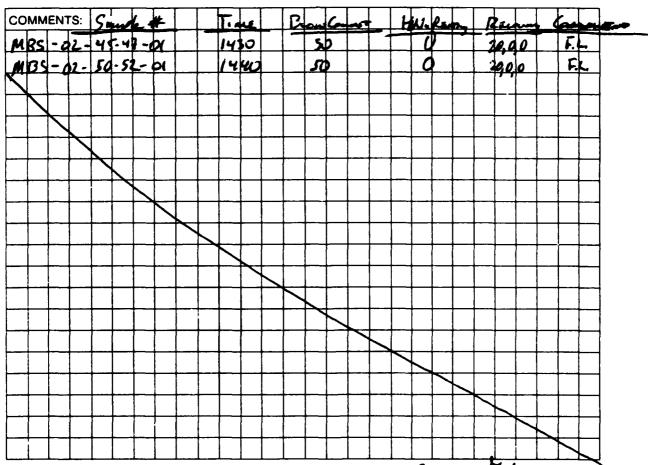


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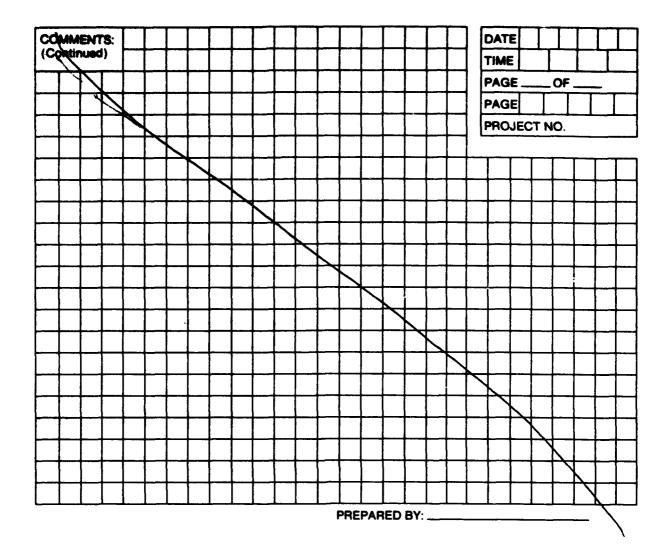


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SAMPLE NO. See Balone		
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SAMPLE TYPE Sal	CONTAINERS USED	AMOUNT COLLECTED
COMPOSITEYESNO	-	
COMPOSITE TYPE	6-wen Bares Seems	See Bolow
DEPTH OF SAMPLE See Bolow	WTERM- LINED CARS	
WEATHER Swag, warm, Beerry		



PREPARED BY: Mark Q. Halin

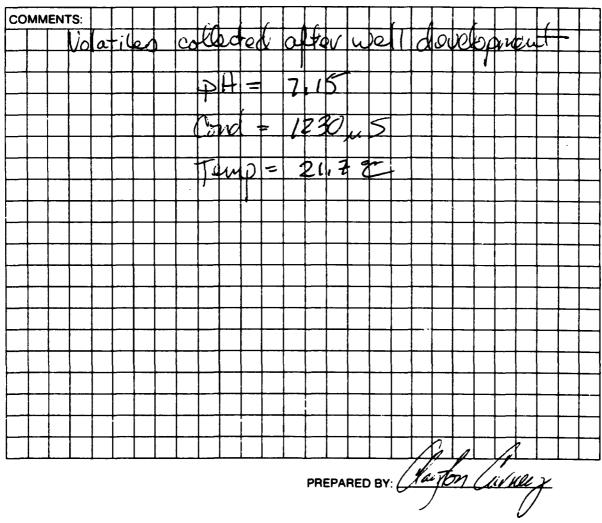


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SAMPLE NO. WU - MWS-03-01		
SAMPLE LOCATION MWS-03		
SAMPLE TYPE watel	CONTAINERS USED	AMOUNT COLLECTED
COMPOSITE X YES NO		
COMPOSITE TYPE water	2x40ml AG	80ml
DEPTH OF SAMPLE		
WEATHER Clean & 704		
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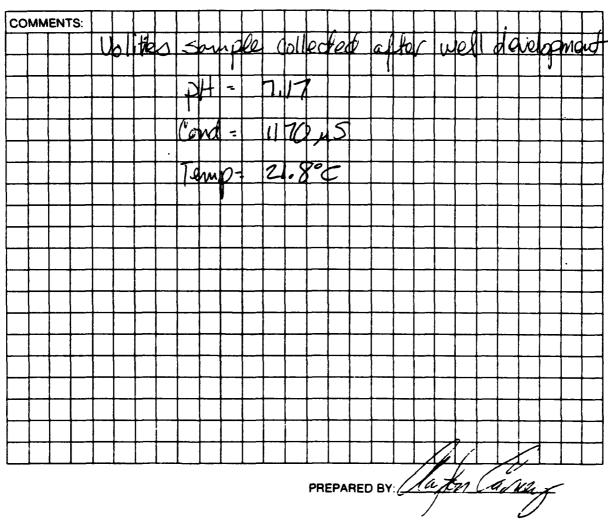
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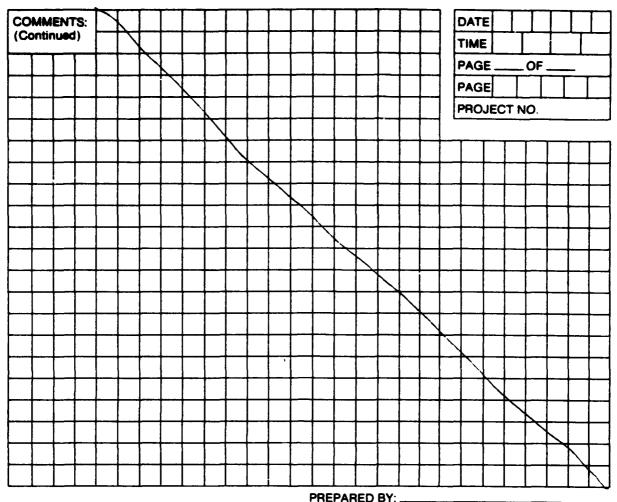
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SAMPLE NO. WV-SHR-2-D2		
SAMPLE LOCATION		
SAMPLE TYPE Water	CONTAINERS	AMOUNT
COMPOSITE YESNO	USED	COLLECTED
COMPOSITE TYPE water	2×40ml AG	80ml
DEPTH OF SAMPLENA		
WEATHER COM & 750F		





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- 5. TIME: USE 24-HOUR CLOCK: I.E., 1835 FOR 6:35 P M
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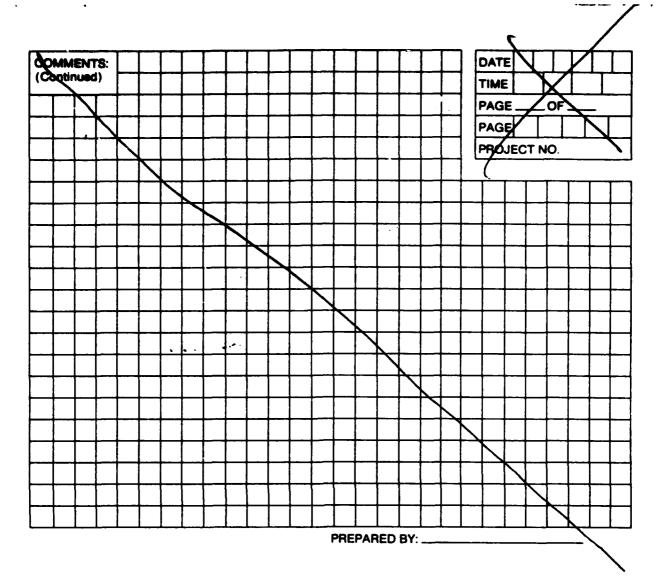
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PREPARED BY: M.U. Furling 2/2/41



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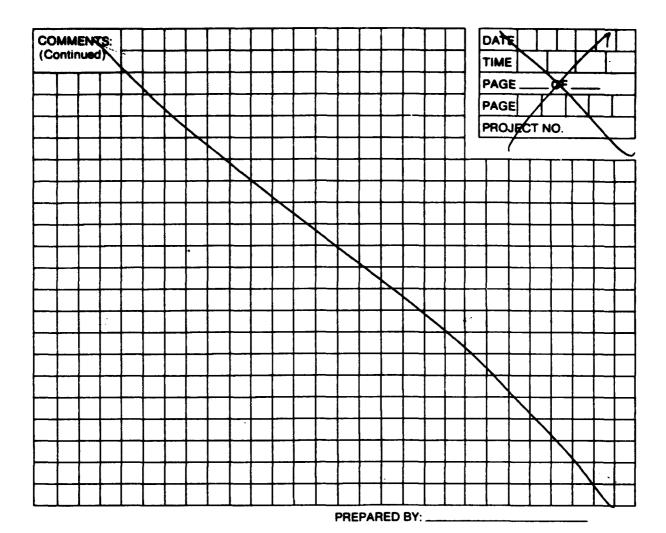
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- 7 SAMPLE LOCATION: USE BORING OR MONITORING WELL NUMBER, GRID LOCATION (TRANSECT), SAMPLING STATION I.D., OR COORDINATE TO PHYSICAL FEATURES WITH DISTANCES INCLUDE SKETCH IN COMMENT SECTION IF NECESSARY.
- 8. SAMPLE TYPE: USE THE FOLLOWING SOIL. WATER (SURFACE OR GROUND): AIR (FILTERS, TUBES, AMBIENT, PERSONNEL); SLUDGE; DRUM CONTENTS, OIL, VEGETATION, WIPE, SEDIMENT
- 9 COMPOSITE TYPE: I.E., 24-HOUR, LIST SAMPLE NUMBERS IN COMPOSITE, SPATIAL COMPOSITE.
- 10. DEPTH OF SAMPLE: GIVE UNITS, WRITE OUT UNITS SUCH AS INCHES, FEET DON'T USE " OR "
- 11. WEATHER: APPROXIMATE TEMPERATURE, SUN AND MOISTURE CONDITIONS.
- 12. CONTAINERS USED: LIST EACH CONTAINER TYPE AS NUMBER, VOLUME, MATERIAL (E.G., 2 IL GLASS; 4 40 ML GLASS VIAL; 1 400 ML PLASTIC. 1 3 INCH STEEL TUBE; 1 8 OZ. GLASS JAR).
- 13. AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL).



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- .1. A SAMPLE COLLECTION LOG IS TO BE COMPLETED FOR EACH SAMPLE.
- 2. ALWAYS COMPLETE BOTH SIDES. IF SECOND SIDE IS NOT USED. DRAW A LINE THROUGH IT AND MARK N/A FILL IN CONTROL BLOCK AND PREPARED BY.
- 3. ALL ENTRIES ON LOG ARE TO BE COMPLETED, IF NOT APPLICABLE MARK N/A.
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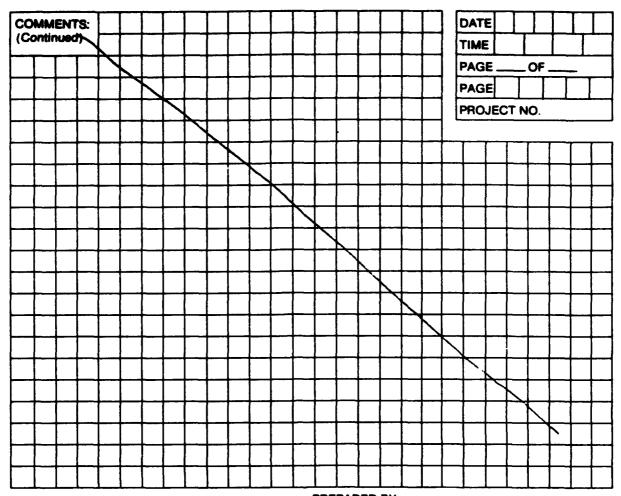
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PREPARED BY: J.Tyl.l.



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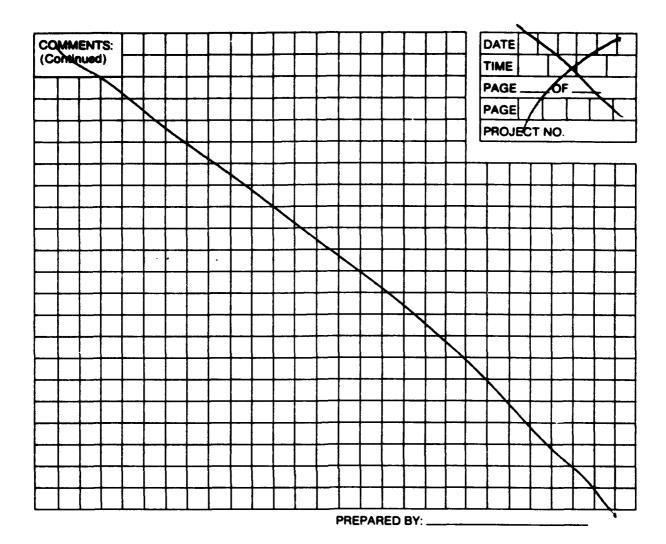
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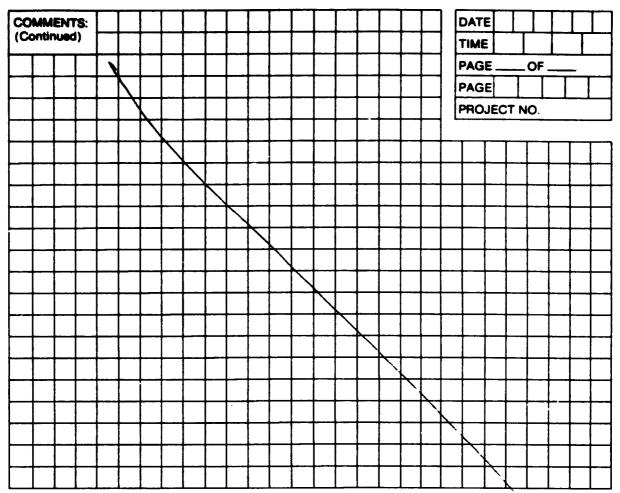
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- 13. AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL).



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PREPARED BY: Jayla



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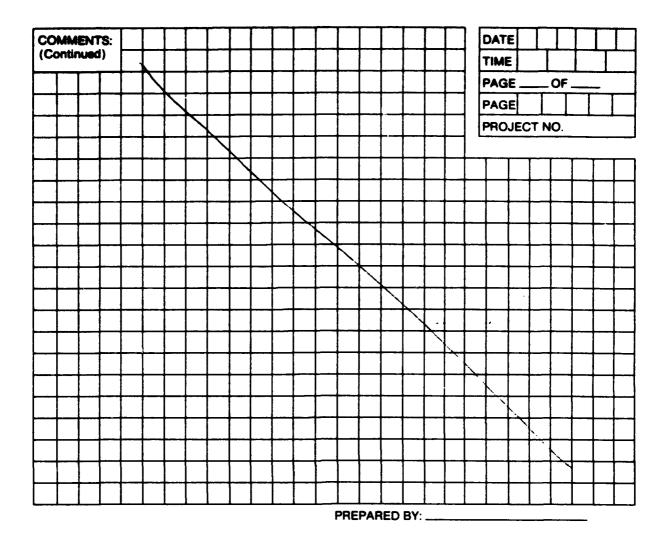
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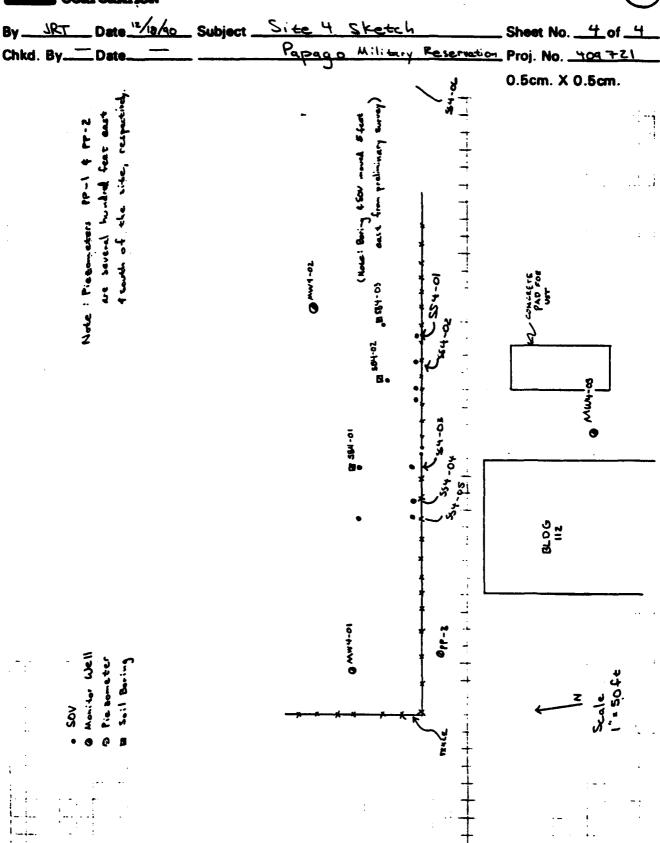
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PREPARED BY: J. Tyll.



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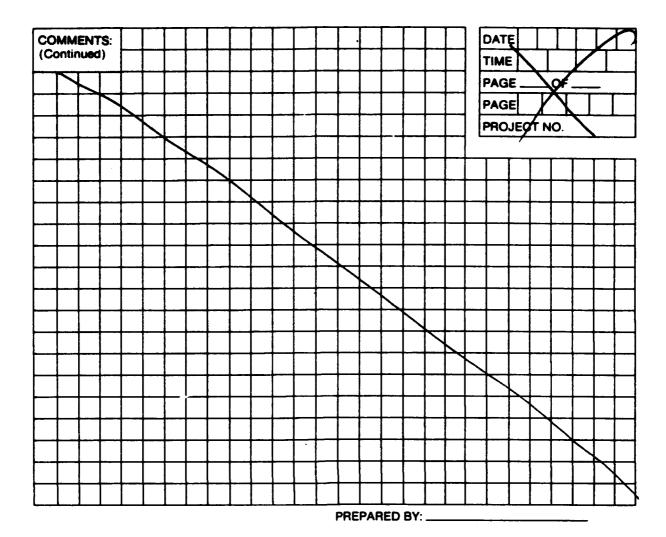
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PREPARED BY: M.U. Salin

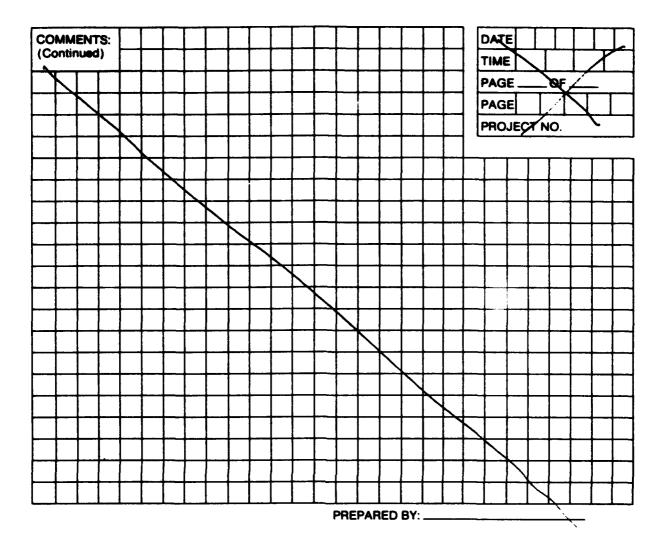


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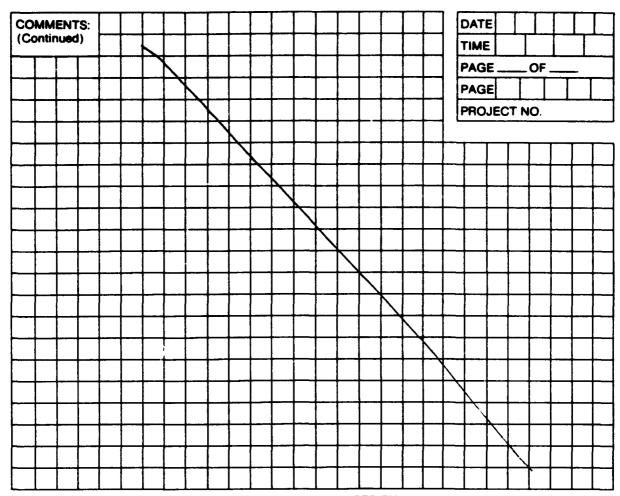
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- 13. AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL).



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- 1 A SAMPLE COLLECTION LOG IS TO BE COMPLETED FOR EACH SAMPLE.
- 2 ALWAYS COMPLETE BOTH SIDES. IF SECOND SIDE IS NOT USED, DRAW A LINE THROUGH IT AND MARK N/A. FILL IN CONTROL BLOCK AND PREPARED BY

PREPARED BY: \_\_

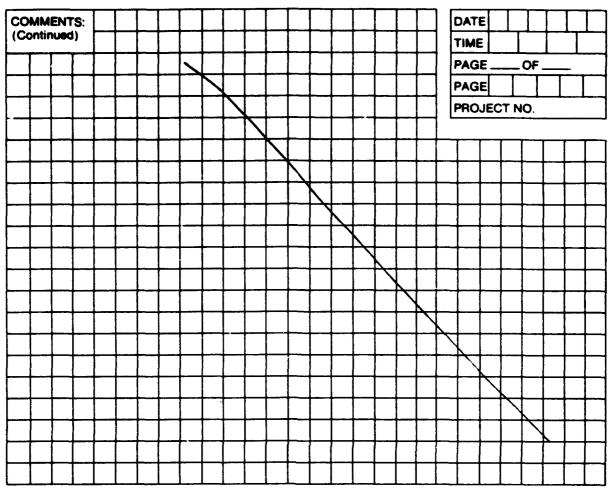
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PREPARED BY: 1.Tybeati



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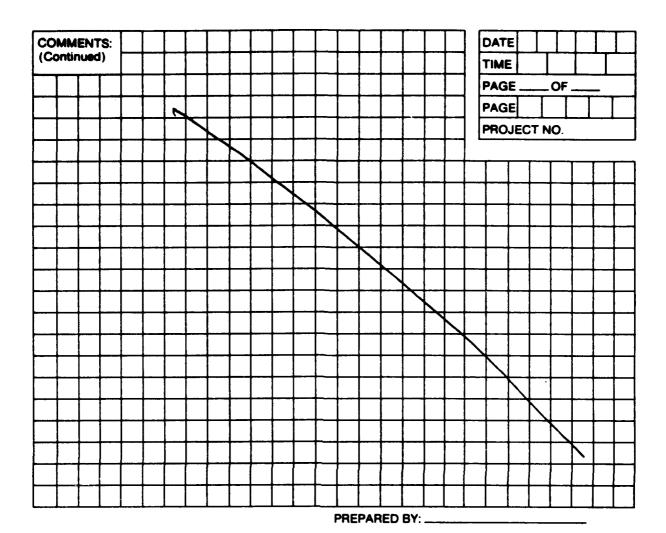
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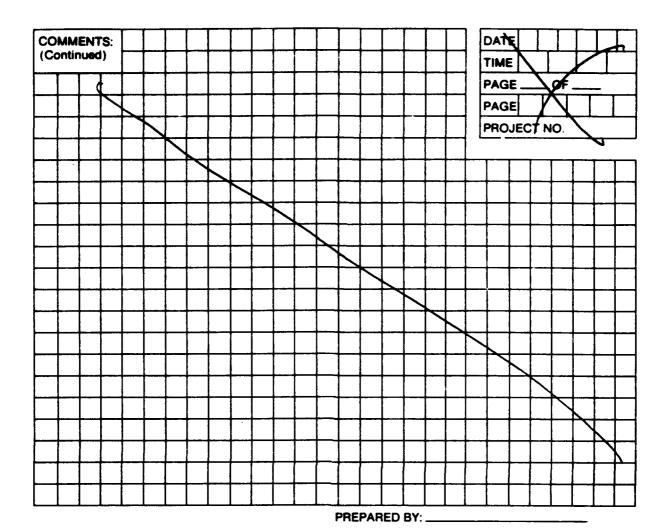
PREPARED BY: M. G. Hali

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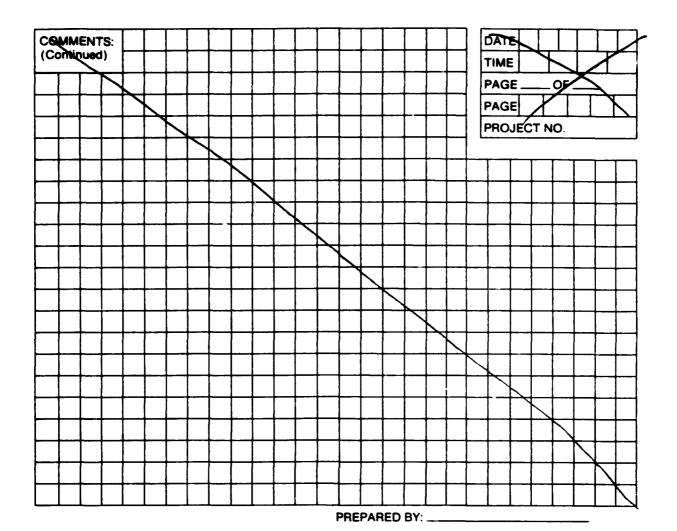


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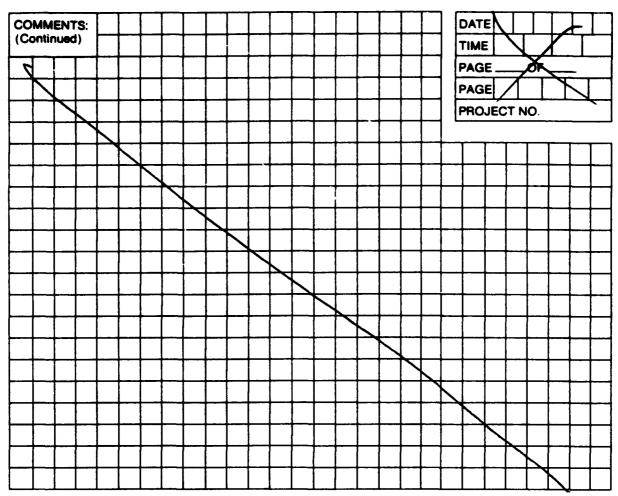
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PREPARED BY: Make Hadin



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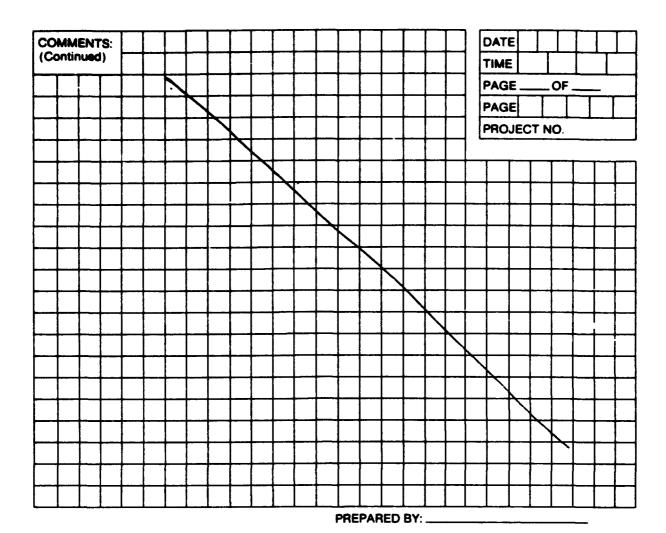


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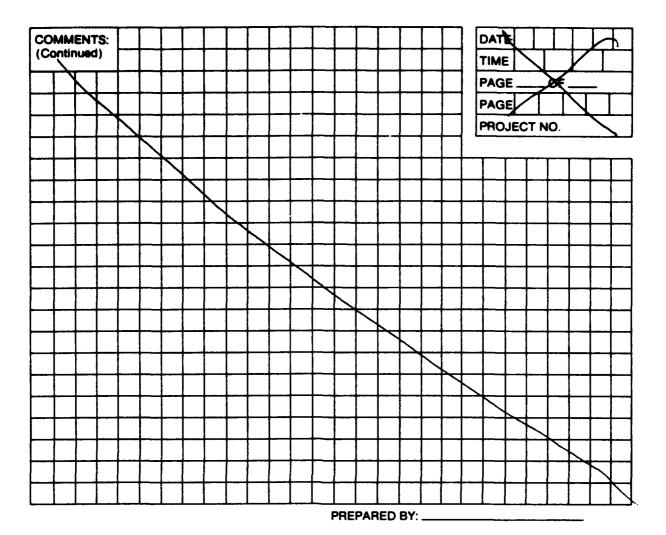
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PREPARED BY: Maha. Santin



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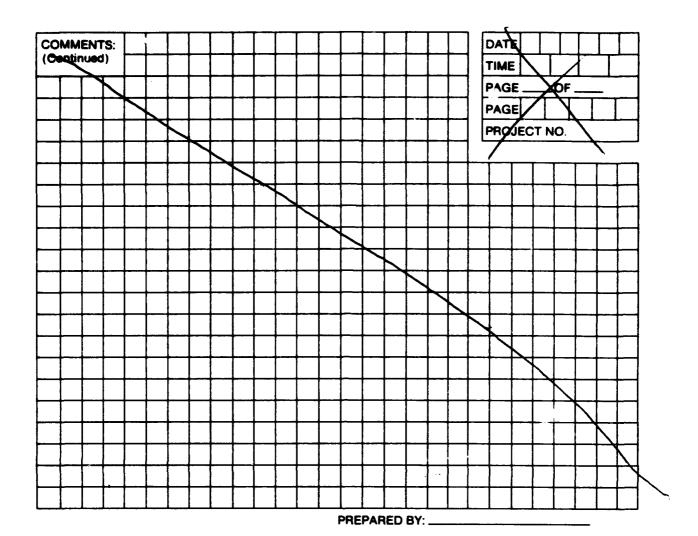
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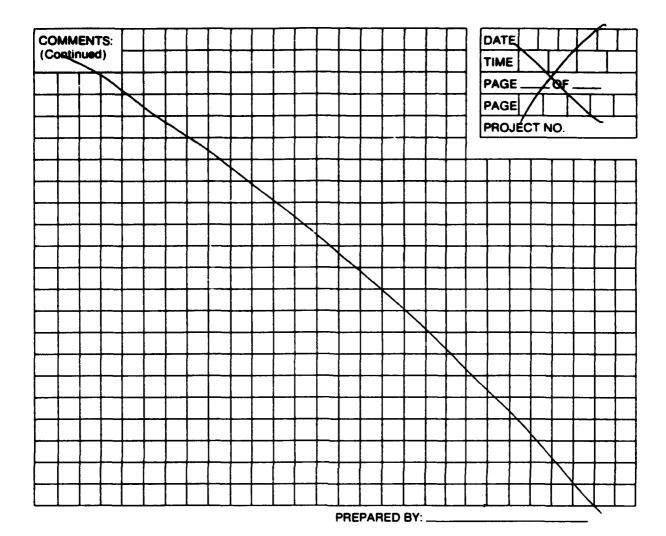


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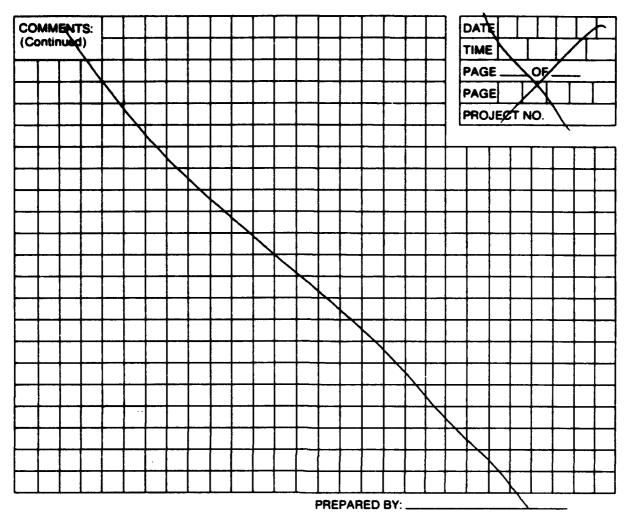
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- 9. COMPOSITE TYPE: I.E., 24-HOUR, LIST SAMPLE NUMBERS IN COMPOSITE, SPATIAL COMPOSITE.
- 10. DEPTH OF SAMPLE. GIVE UNITS. WRITE OUT UNITS SUCH AS INCHES, FEET DON'T USE "OR "
- 11. WEATHER: APPROXIMATE TEMPERATURE, SUN AND MOISTURE CONDITIONS.
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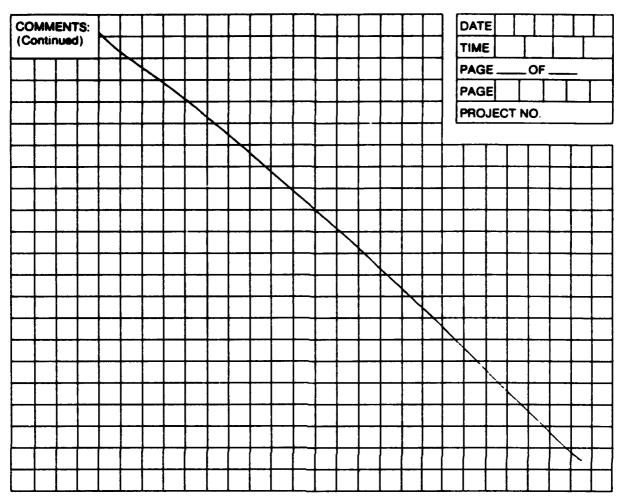
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PREPARED BY: J. Tyburski



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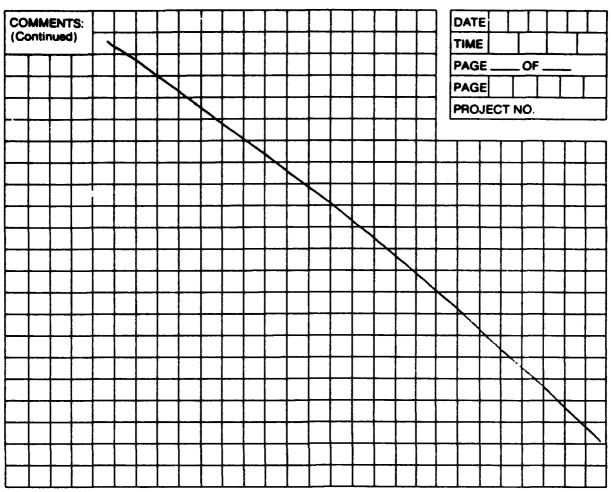
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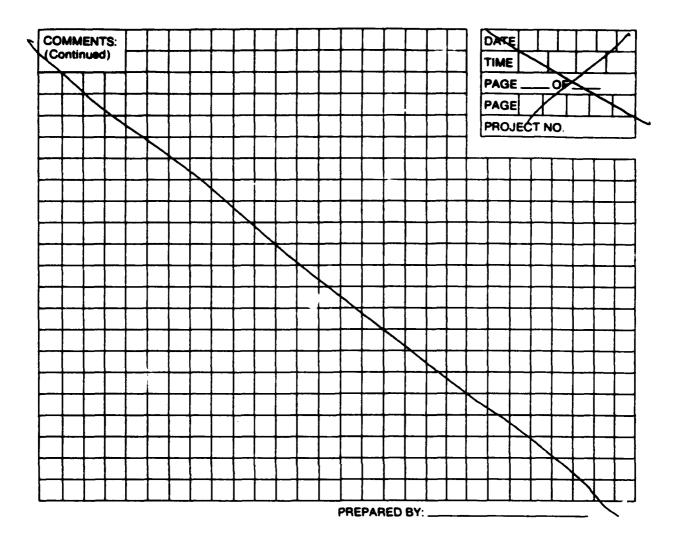
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- 8 SAMPLE TYPE USE THE FOLLOWING SOIL WATER (SURFACE OR GROUND) AIR (FILTERS, TUBES, AMBIENT, PERSONNEL); SLUDGE: DRUM CONTENTS OIL, VEGETATION, WIPE SEDIMENT
- 9 COMPOSITE TYPE: I.E., 24-HOUR, LIST SAMPLE NUMBERS IN COMPOSITE, SPATIAL COMPOSITE.
- 10 DEPTH OF SAMPLE, GIVE UNITS, WRITE OUT UNITS SUCH AS INCHES, FEET DON'T USE " OR "
- 11 WEATHER APPROXIMATE TEMPERATURE, SUN AND MOISTURE CONDITIONS
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- 13. AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL)



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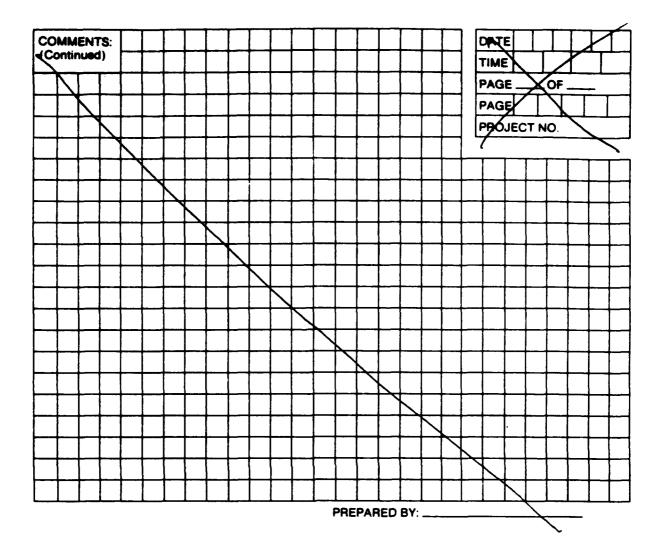
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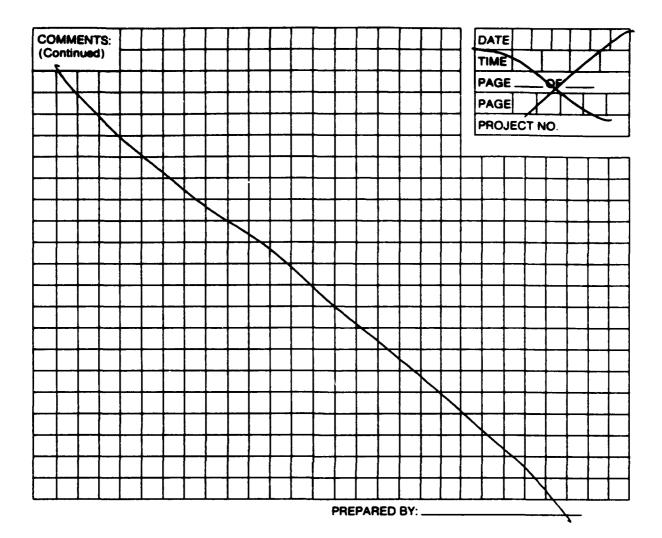


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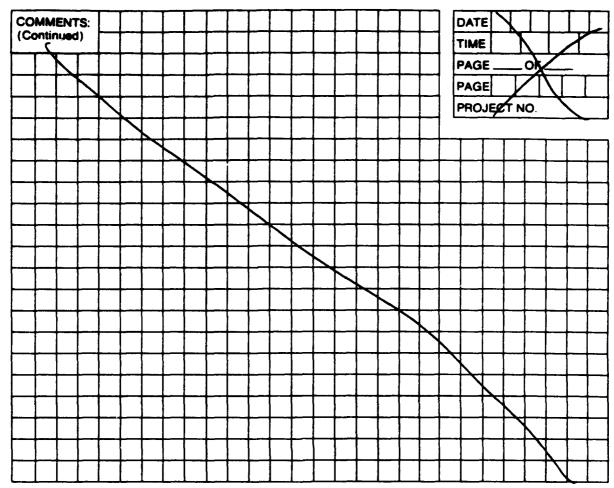


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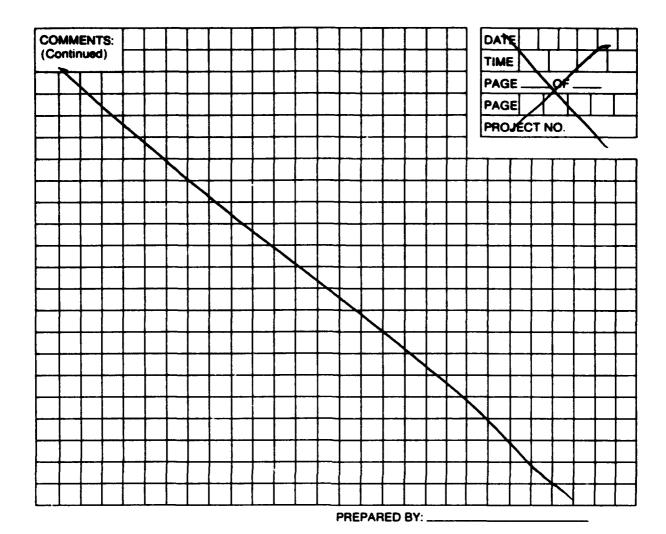
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PREPARED BY: M.G. Hali



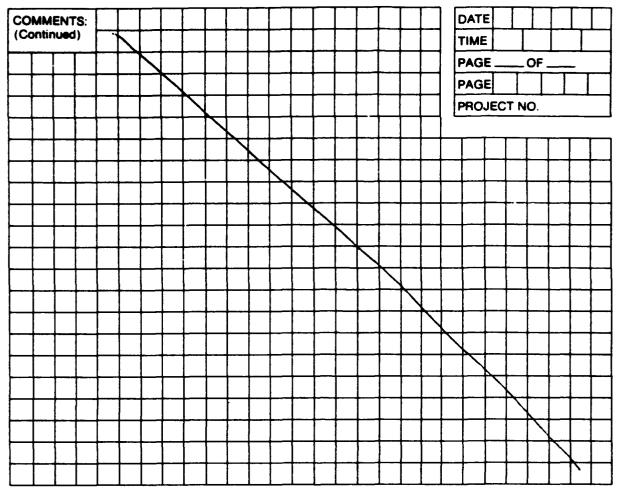
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PREPARED BY: Cindu Darr



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- 3. ALL ENTRIES ON LOG ARE TO BE COMPLETED, IF NOT APPLICABLE MARK N/A.
- 4 DATE, USE MONTH/DAY/YEAR; I.E., 10/30/85
- 5 TIME: USE 24-HOUR CLOCK: I.E., 1835 FOR 6 35 P M
- 6 PAGE: EACH SAMPLE TEAM SHOULD NUMBER PAGE \_\_\_\_\_ OF \_\_\_\_ FOR THE DAY'S ACTIVITIES FOR ALL SHEETS PREPARED ON A SINGLE DAY, I.E., IF THERE ARE A TOTAL OF 24 PAGES (INCLUDING FRONT AND BACK) NUMBER 1 OF 24 2 OF 24. ETC
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- 13. AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL).



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PREPARED BY: Tyburski

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PREPARED BY: Cinhi Darr

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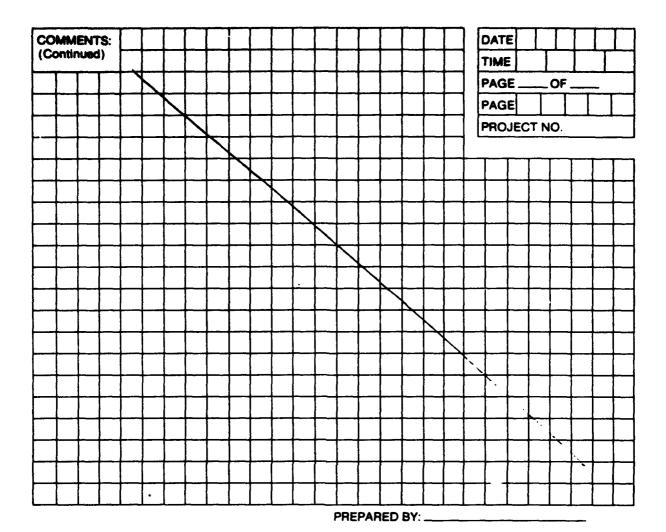
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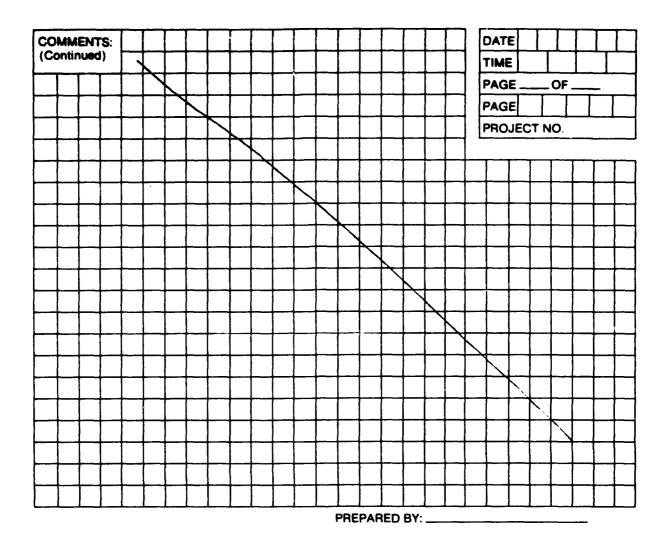
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PREPARED BY: C. Dair
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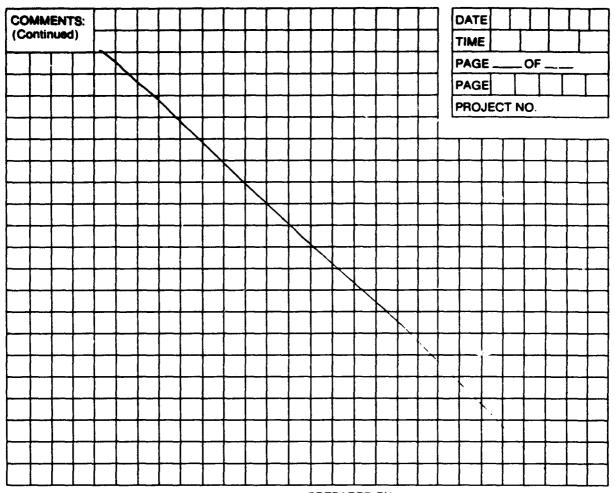
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- 5 TIME: USE 24-HOUR CLOCK; I.E., 1835 FOR 6 35 P M
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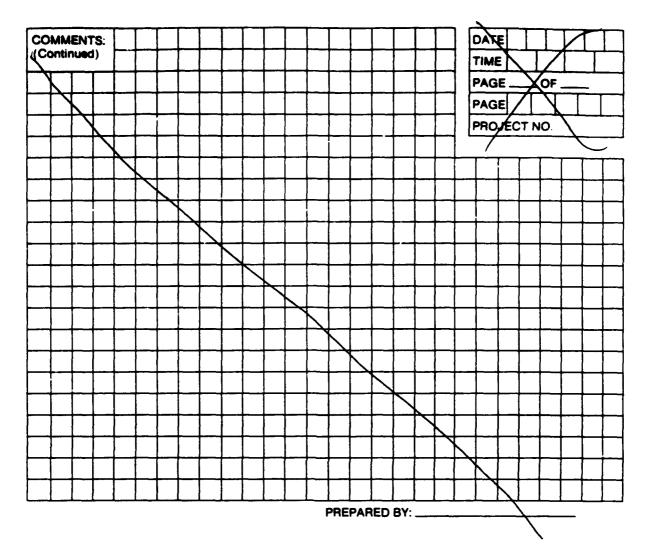
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PREPARED BY: M. a. Junh



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- 2. ALWAYS COMPLETE BOTH SIDES. IF SECOND SIDE IS NOT USED. DRAW A LINE THROUGH IT AND MARK N/A FILL IN CONTROL BLOCK AND PREPARED BY
- 3 ALL ENTRIES ON LOG ARE TO BE COMPLETED, IF NOT APPLICABLE MARK N/A
- 4 DATE, USE MONTH/DAY/YEAR; I E., 10/30/85
- 5 TIME: USE 24-HOUR CLOCK; I E., 1835 FOR 6:35 P.M.
- 6 PAGE: EACH SAMPLE TEAM SHOULD NUMBER PAGE \_\_\_\_\_\_ OF \_\_\_\_\_ FOR THE DAY'S ACTIVITIES FOR ALL SHEETS PREPARED ON A SINGLE DAY. I E.. IF THERE ARE A TOTAL OF 24 PAGES (INCLUDING FRONT AND BACK) NUMBER 1 OF 24, 2 OF 24, ETC.
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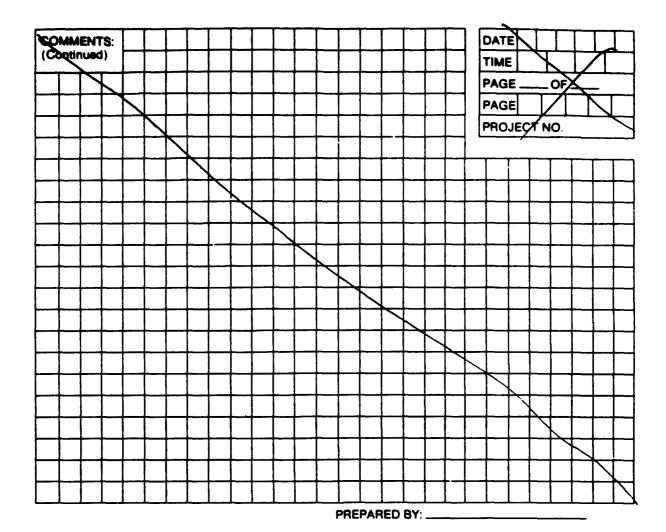
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PREPARED BY: M. U. Bulin



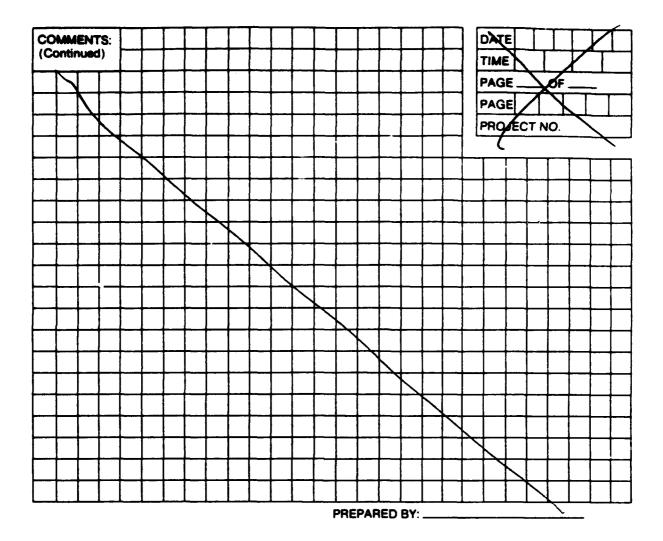
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PREPARED BY: M. Q. Raul



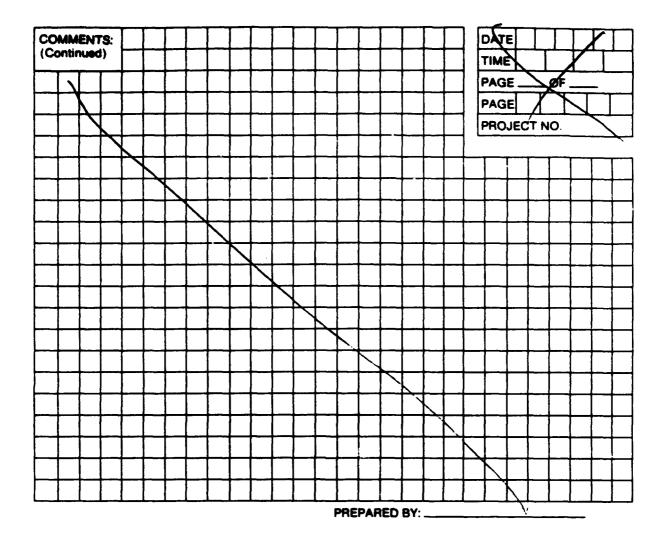
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PREPARED BY: M. U. Hanhi



- 1 A SAMPLE COLLECTION LOG IS TO BE COMPLETED FOR EACH SAMPLE.
- 2 ALWAYS COMPLETE BOTH SIDES. IF SECOND SIDE IS NOT USED, DRAW A LINE THROUGH IT AND MARK N/A. FILL IN CONTROL BLOCK AND PREPARED BY.
- 3. ALL ENTRIES ON LOG ARE TO BE COMPLETED, IF NOT APPLICABLE MARK N/A.
- 4 DATE: USE MONTH/DAY/YEAR; I.E., 10/30/85
- 5 TIME: USE 24-HOUR CLOCK: I.E., 1836 FOR 6:35 P.M.
- 7 SAMPLE LOCATION: USE BORING OR MONITORING WELL NUMBER, GRID LOCATION (TRANSECT), SAMPLING STATION I.D., OR COORDINATE TO PHYSICAL FEATURES WITH DISTANCES. INCLUDE SKETCH IN COMMENT SECTION IF NECESSARY.
- 8 SAMPLE TYPE: USE THE FOLLOWING SOIL: WATER (SURFACE OR GROUND), AIR (FILTERS, TUBES, AMBIENT, PERSONNEL); SLUDGE; DRUM CONTENTS; OIL; VEGETATION; WIPE: SEDIMENT.
- 9. COMPOSITE TYPE: I.E., 24-HOUR, LIST SAMPLE NUMBERS IN COMPOSITE, SPATIAL COMPOSITE.
- 10. DEPTH OF SAMPLE: GIVE UNITS, WRITE OUT UNITS SUCH AS INCHES, FEET DON'T USE 'OR ".
- 11 WEATHER: APPROXIMATE TEMPERATURE, SUN AND MOISTURE CONDITIONS.
- 12. CONTAINERS USED: LIST EACH CONTAINER TYPE AS NUMBER, VOLUME, MATERIAL (E.G., 2 IL GLASS; 4 40 ML GLASS VIAL; 1 400 ML PLASTIC; 1 3 INCH STEEL TUBE; 1 8 OZ. GLASS JAR).
- 13. AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL).



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PREPARED BY: \_\_\_\_\_

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PREPARED BY: \_\_

- 3. ALL ENTRIES ON LOG ARE TO BE COMPLETED, IF NOT APPLICABLE MARK N/A.
- 4 DATE USE MONTH/DAY/YEAR: I.E., 10/30/85
- 5 TIME USE 24-HOUR CLOCK; I.E., 1835 FOR 6:35 P.M.
- 6 PAGE EACH SAMPLE TEAM SHOULD NUMBER PAGE \_\_\_\_\_\_OF \_\_\_\_\_FOR THE DAY'S ACTIVITIES FOR ALL SHEETS PREPARED ON A SINGLE DAY 1 E., IF THERE ARE A TOTAL OF 24 PAGES (INCLUDING FRONT AND BACK) NUMBER 1 OF 24, 2 OF 24, ETC.
- 7 SAMPLE LOCATION: USE BORING OR MONITORING WELL NUMBER, GRID LOCATION (TRANSECT), SAMPLING STATION I.D., OR COORDINATE TO PHYSICAL FEATURES WITH DISTANCES, INCLUDE SKETCH IN COMMENT SECTION IF NECESSARY.
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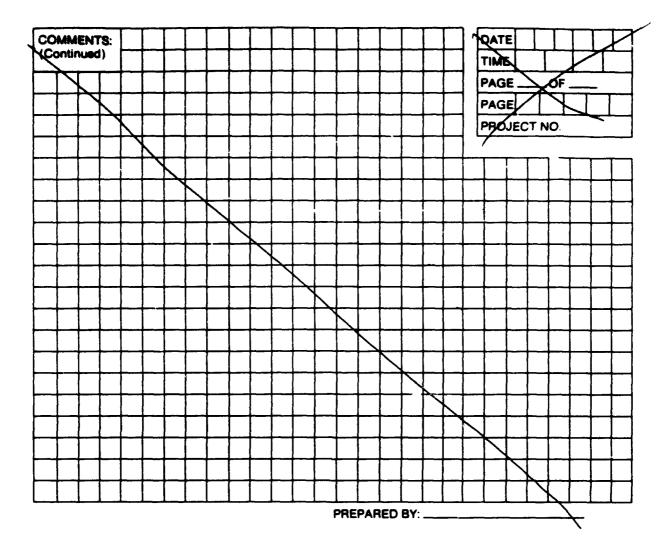


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PREPARED BY: M. U. Farli



## LEGEND

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SIGNATURE

## DATE 02 91 NO. SHEET | OF 1

7/2/9,

DATE:

## FIELD ACTIVITY DAILY LOG

BBO ISOT NAME (	PROJECT NO.								
PROJECT NAME SEY HARROR ANG	PROJECT NO. 409721.02.05								
FIELD ACTIVITY SUBJECTS PERSON SULLE TES	TO ON WELL ; CONTINUE CLUSIN, SITE OFFICE,								
DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:	·								
•	work. Review DATA LOSGER MANUM, PLEA								
FRUSHMA FOR SLUE TBOTS,									
OHS: PIER OF F. ROEN AT A	refort.								
0730: REVINIO EITE, LONG TO	Aug. Pear to DO TECS.								
17730: Bee of True	0930: Pick of Price. & Mobilize to Miss-01.								
0145: Set up AF MWS-01. 7									
	Usean Stat. I'm Istantiscent.								
1000: STHEE THEIS,									
	LOGGE SUCCEST MEAT ARRIVEY HE								
	PUTLEMENT IN THAT, LET ALL DATE IN								
RAM, Extremaous DATA	PRINTING EVEN MATRIC CLEARING NUMBER,								
Refine to office . Cot	en Streve Street it Knorvina. Swipe								
holen and cont	TO DAY - TIME 13 1 MODIEN.								
1700: Pich in Dans AT The	REE WELL SITE. RESILL TO OFFICE.								
1800: DELME SITE. STOP.	and the mental to alking,								
1800 DETAIT SITE. STOP.									
VISITORS ON SITE:	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.								
	OTHER G COINE ORDERS ARD MITORIANT DECISIONS.								
NA	NA								
WEATHER CONDITIONS:	IMPORTANT TELEPHONE CALLS:								
Sures Lever Been were Lear	4/4								
Surry, Lour Breck, very HOT, N 110°F	NA								
A 110°F									
IT PERSONNEL ON SITE Mass Gasain	James Bara								

REV.	DATE:	MAY	1990

	Sample ID No.: ptus-01-01
ONITORING WELL PURGING LOG	WELL NO : MWS-01
stallation: Sky Heegoe Anis Rese	Site: Dancerone Line
AZWRAP Contractor: (Teacherstan)	Project No.: 461921.02.05 End: (Date) 4/5/4/ (Time) 13.00
	End: (Date) 4/5/4/ (Time) (300
urged by: Gason Boyo Trisuccu	
	Well Csg ID: 2" 4 6" Other
Well Hdspace/Odor: L NAPL Chec	tk ( ( N ) - BNAPL Check (Y/N)-
Equipment Used To Measure Thickness and Sample Free Pr	roduct (Make, Model, etc)
SOLINET INTERPLE PASSE MODEL 17	<b>.1</b>
	Bottom of Screen Interval 50 /100
	orig DTW: 13.26 Final DTW 73.30
a maria di m	Sample and Volume:
33.79	
21. 4-2.40	
<b>2° -</b> 0.16	1
( = ) Wtr Col. Thick.: 26.52 (x) 4 - 0.65 Gais/ft (=) 50.6	. Gals/Csg Vol. (x)(3) Csg Vol. (=) <u>ISI. *</u> Total
6° - 1.47 9 % - 1.41	4 Gals.
<del>محقیہ کا</del>	5
Punge Method:	<u>ss</u> 🗆
Submersible Pump Dedicated Bladder Pump Bladder Pum	
	PVC 🗍
Peristaltic Pump Hand Pump Gas Lift/ Displac	ement Pump V Other
Purging Equipment (Make, Model, etc.) REMAINT 1800	
Purging Equipment (make, model, etc.) 156441877 (OCC	Purge Equipment Decon'd?
	. 2
Purge Wtr Containerized? (V) N) Avge Purge Rate:^ Weather:	<u>/                                    </u>
1010	wøo *r)
Vole Death Death of	ond. Turbidity
Time I Ti	nhos (NTa) Other Comment
1018 7 10 73 95 23.4 696 11	
1024 20   22.8 2.5 11	
	90 2.41
1057 80 23.1 7.20 11	triine to the second se
140	
	70 0.32
1131 140 \$\frac{12.9}{22.9} \frac{7.30}{23.0} \tag{1}	
1174 150 95 22.8 7.51 11	10 0.65
* All Depths in Feet Below Ref. Point on Weilhead - generally	
DTW = Depth To Water LNAPL/DNAPL = Light or Dense Non-/	

REV. DATE: MAY 1990

	Sample ID No.: MWS-01-01
TONITORING WELL SAMPLING LOG	WELL NO .: MLOS -OI
nstallation Cay House And L. Boss	Site: Backgoon 14000
MZWRAP Contractor: IT Consumers	Project No.: 409721.02.05
Sample Start: (Date) 1/2/10/19/1/(Time) 12/0	Sample End: (Date) 4/3/91 (Time) 1255
Sampled by: Green Boyo, Trause,	
Orig. SWL: 73.28 rt BTOC* Final SWL: 73.3 Screen Interval: 50 - 100 rt BTOC	
23.4 4.11 /180 50.3	Are parameters 20%  of purge values? (Y) N (Ercyr Tuasway)  Repurge Y (N)
	No. repurge volumes: NA
	IV. I Epa ye Volulies
Sampling Method: Submersible Pump Dedicated Bladder Pump Bladder Peristaltic Pump Hand Pump Gas Lift/ Sampling Equipment (Make Model, etc.)	PVC   Displacement Pump   Other
Sampling Equipment (Make, Model, etc.)	
Sample Equipment Decon'd? (2)/ N  If pump or discrete baller; Depth(s) where pump  Weather:	
Lab Analyses: (Circle)	
(SVOA) (METALS) PEST/PCBS	CATIONS ANIONS TDS
Others VINYL CHOROS NITENTE NO	TRITE, 10Pb.
Metals: (Circle) Filtered Unfiltered Both	
Field Dups.: Y/N Referee Dups.	: YAN
Comments:  Smyler colleged por 1255. Fro	The Annual Control The
The Contains HT 1635, PTC	Keep Metals Scies Windly
	<del> </del>
	· · · · · · · · · · · · · · · · · · ·
*BTOC = Below Top of Casing (or other measurement SWL = Static Water Level	nt reference point)
7116 768616 118181 FE1E1	

			<i></i>	'GURE	5-6	~		Sample	ID No.:	MUSTOL-OL	AY 19
ONITO	RING	WELL	PUR	GING L	.06			WELL N	).: m	WS-DI	
stallation	t <b>Si</b> ky	Barbo		Coordin	ites			Site:			
ZWRAP (				محی					oject N		05
rge Star				(Time)	TUSS	, P	urge End	: (Date)	4-13	-91 (Time)	
rqed by:	1400	REIT	Darr	- / Boy	Δ						
epth Mea	sureme	nt Ref. 1	Point# <u></u>	Top	<u> </u>	<u>. ( </u>	We	II Csg ID:	2 (	4 6 Other	
vell Hdsp	ace/Odo	r:	<b>JA</b>	`	LN	IAPL (	Check	(M/N)	DNA	PL Check (Y/	N)
quipment	. Used '	To Meas	sure Thi	ckness a	nd Sam	ple Fred	Produc	ct (Make, f	10del, e	tc)	
5	olins	<i>t</i> -	Inde	fare !	Probe	, P	redo/	21			
									4-4		10/
epth to	I MARY.	20	1							erval <u>śo' to //</u> 2 Final DTW: Noc	
			41					_			ART
NAPL/DN				4	LN	APL/DN/	APL Sa	imple and	Volun	ne:N^A	4-5
leasured	Well			_							
-) Orig	. DTW:		28,80	_							
			_	- 0.16					1		
= ) Wtr (	Col. Thi	k.: 30	10(X)	۳ <b>-</b> 0.65 <sub>6</sub>	ais/ft (	-) 59.	2 Gais	s/Csa Voi.	(x)	Sg Vol. (=) <u>177</u>	Tota
, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			6	- 1.4/	<b>4</b> .5/ ( (	/		or any vo	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	.39 VVI. (-)	Purg Gals
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urge Mel	hod-								55	П	
		De	dicated !	Bladder Pu	amp 🔲	Bladder	Pump [	Baller		Centrifugai Pum	
			•		_		_		PVC		
eristalti	c Dumn		land Puri		Gae I	ift / Die	nlaceme	ot 01 mo/	7	Other	
		_						nt Pump			~
rurging E	quipmer	it (make	, mode i,	etc.)	enn-e i	raum	O ISA	<u></u> Pun	ge Equip	ment Decon <sup>*</sup> d? (Y	)/ N
·											
orge Wt				N) Avg	je Purge	Rate: _	ــــــــــــــــــــــــــــــــــــــ	gpm	سری ,	Oc.	
veather:	<u></u>	ann,	-bull	<del>ንላ} -</del>					85	<b>-</b> F)	
Actual	Flanced	Vols.	Depth	Depth Of	Temp	- AL	Cond.	Turbidity			
Time	Elapsed Time	Purged (Gals)		Pump	(oC)	pH (s.a)	(umhos)	(NTa)	Other	Comment	
1035		100137	(ft)	Intake(ft)	-	13.37					
1346		20			22,6	4.40	1240	1.25			
1100		40					124D				
1110		60			122	6.65	1239	1.02			
		80			373	111	1)41	116			
1/20		100			23.7	122	10 U)	1,46			
					)> v	6.65	1210	190			
1/43		120			23.1	6.63	1240	1.40		h- ++	
1155		140			_					Consumor on totas	
1225		170			_		1260	_	<del></del>		
123/2		180			<b>\\</b> \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	16,74	1240	4.01			
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	the in Ea	AL BAIA	w Dat A	oint on We	Ilbana .		T	f Cacina iT	$\sim$		

	- REV. DATE: MAY 19
FIGURE 5-66	Sample ID No.:
MONITORING WELL SAMPLING LOG	WELL NO: MWS-01-14
Installation Sty Barbor Coordinates	Site: AN G Project No.: 40 9721
HAZWRAP Contractor: TT Corp Sample Start: (Date) 12-/5-9 (Time) (500) Sample Er	nd: (Date) 1-15-4) (Time) 1-30-
Sampled by: T. burski / Dorr / Bour	
Orig. SWL:	eters 20% values? YY N
No. repurge	volumes: NA
Sampling Method: Submersible Pump Dedicated Bladder Pump Bladder Pump  Peristaltic Pump Hand Pump Gas Lift/ Displacement Sampling Equipment (Make, Model, etc.)  Sample Equipment Decon'd? N  If pump or discrete bailer; Depth(s) where pump set:  Weather: Warm, Calm	PVC Dent Pump Details  ed for fulthing metals  st BTG
Lab Analyses: (Circle)  VOA SVOA METALS PEST/PCBS TPH)  Others:	CATIONS ANIONS TO
Metals: (Circle) Filtered Unfiltered Both  Field Dups.: Y/N Referee Dups.: Y/N  Comments:  Sample MWS-0) & + 1300 MS.	
*BTCC = Below Top of Casing (or other measurement reference   SWL = Static Water Level	point)

								Sample	ID No:	MUS-02-0	
ONITO	RING	WELL	PUR	GING L	06			WELL NO		7402-02-01	
rstal lation		+ Has		NE BA						ميده لاعب	
AZWRAP (				PANTAN	,			Pro	ject No.	401721-02.0	-
inge Start		4/1	2/91	(Time)	982	o Pi	rge End:	(Date)	4/RH	(Time) 10	40
urged by:	<u>GAN</u>	<u> </u>	Bors	/ Trans					<del></del>		
Depth Mea	sureme	nt Ref. I	oint# <u>;</u> _		<u>0.C.</u>		Wel	1 Csg ID:	2 6	D 6" Other	
well Hdsp	ace/Odd	r: 70	en with	MAM	LN	APL (	Theck	<b>(N M)</b>	-DNA	PL Sheck (Y/	<b>N</b>
quipment	Used '	To Meas	sure Thi	ckness a	nd Samp	ple Free	Produc	t (Make, N	lodel, et	c)	
		. rust	INTE	a force	Peaze	Mod	<u>er</u> 12	21			
				D	eoth to	Top an	d Botto	m of Scr	en inte	rval50/80C	,
epth to	LNAPL:	ND	·						. 🕳 🗀	2 Final DTW: 68	
NAPL/DN				0				mple and			
1easured	_						" L OO		Volum	· <u> </u>	
-) Orig		_	8,20	_							
- / Crig	. DI W.			<del>-</del> 2° - 0.16					1		
				-065			_		2	_	Total
- ) Wtr (	Col. Thi	ck.: <u>31.</u>	TO (X)	1.47	als/ft (	-) <u>60,  </u>	- Gais	Csg Vol.	(xi3)C	sg Vol. (=) <u>182</u>	- Purge
				4- 1.91					4 5		Gals.
Purge Mel			dicated	Bladder Pu	<b></b> □	Bladdec	ر مس ا	ا مدامه	S5	September 2	
JUDINEI SII	NE PUNI		uicat <del>e</del> u i	DIAUUEI PU		Diaudet.	Pulip _	Toailer [	J Tef PVC	Centrifugal Pum	
								_		L_J	
Peristalti	•		tand Pun					nt Pump 🚺	_	Other	
Purging E	quipmer	nt (Make	, Model,	etc.) _ <u>B</u> a	ととかり	180	<u>0</u>	Pur	ge Equip	ment Decon"d? 🛛	N C
<del></del>											
Purge Wti	Contai	nerized			_	Rate: _	~ 2	gpm		_	
weather.		<u>~~۲</u>	SP2	<del>(24 , H</del>	ot				•	PF)	
Actual	Elanced	Vols.	Depth	Depth Of	Temp	nu.	Cond.	Turbidity			
	Time	(Gals)	To Wtr	Pump  intake(ft)		(s.a)	( <u>umhos</u> )	Turbidity (NTa)	Other	Comment	
Time	Ь	10	68.20		22.1	6.89		2.36			
11111		20	<u> </u>	1	22.1	6.95		1.86			
0826			<del>}</del>		22.2	6.95	1220	1.12			
0826		40	ł	1 1		0.03	•				
0826 0872 0844						6.92	1270	1.10			
0826 0832 0855		60			22.4		1220	1.20			
0826 0832 0844 0855 6406		60 80			22.4 22.4	7.14	1220	1.02			
0826 0831 0844 0855 6406 0118		60 80 100			22.4 22.4 22.5	7.14	1220	1.02			
0826 0832 0844 0855 6406		60 80			22.4 22.4	7.14 7.21	1220 1220 1220	1.02			

22.5 7.32 1140 14.00

\*\* All Depths in Feet Below Ref. Point on Wellhead - generally Top of Casing (TOC)
DTW - Depth To Water LNAPL/DNAPL - Light or Dense Non-Apeous Phase Liquid

1040

REV. DATE: MAY 1990

	Sample ID No. 1841 at 102 at	1330
ANTADING WELL SAMBLING LOG	Sample ID No.: MUS-02-01 WELL NO.: MUS-02	
ONITORING WELL SAMPLING LOG		
stallation - F Converges Car Horace Anx	Project No.: 40782402.01	
AZWRAP Contractor: FT (attocation) ample Start: (Date) 4/12/4/ (Time) 10 (5 Samp	le End: (Date) 4/12/91 (Time) 10 40	
ampled by: Grania / Cono / Nauses	1110717	
orig. SWL: 69.20 ft BTOC# Final SWL: 69.18 ft. B	To:	
	100	
Screen Interval: 50 - 100 ft BTOC		
Temp pH Cond. Turbidity	rameters 20%	
22.5 7.32 /140 14.50 or D	rge values? O/N Ercor Tukai DIN	
Repurg	• Y/®	
No. rep	rge volumes: <u>NA</u>	
Paralia Makhad	es []	
Sampling Method: Submersible Pump Dedicated Bladder Pump Bladder Pum	Bailer W Ter To Centrifucal Pumpi	7
	PVC	
Peristaltic Pump 🔲 Hand Pump 🔲 Gas Lift/ Displac		
Sampling Equipment (Make, Model, etc.)		
Sample Equipment Decon'd? (2)/ N		
If pump or discrete bailer; Depth(s) where pump set:		BTO
Weather Surry Breeze LOF WARM	( N 25 °F)	
•		
Lab Analyses: (Circle)		
Lab Analyses: (Circle)		
(MA) (SVOA) (METALS PEST/PCBS (	TPH CATIONS ANIONS	TD:
Others Valle Course DE NITRATE / NITRATE,	70?6	
ANALY COURTS AND ANALYSIS OF THE COURT OF TH		
Metals: (Circle) Filtered Unfiltered Both		
Field Dups.: (N) Referee Dups.: Y	<b>(A)</b>	
JP - W - W 72	_	
Comments:  Source ALWS-02-01 AT 1030 to	ERZG THE	
AT 1130 Have.		
	<del></del>	
	<u> </u>	
*BTOC - Below Top of Casing (or other measurement refer	rence point)	
SWL - Static Water Level		

									٠.	REV. DATE:	MAY 1990
	. •							Sample	D No.:	LUS-03-01	
MONITO	RING	WELL	PUR	SING L	06			WELL NO		5-03	
Instal lation								Site: (	Back a	pu-d	
HAZWRAP (				antion.				Pro	ject No.	0, 154704	20,5
Purge Start			1/5/1	(Time)	ves	<u>&gt; P</u> (	inge End	(Date)	4/5/4	(Time)	1616
Purged by:	Ge.	<u>dinec</u>	/ Bayd	1 Tybe							<del></del>
Depth Mea	suremer	nt Ref. F	oint*_	<u>··</u>	<u>.8c.</u>	<u> </u>	Wel	1 Csg ID:	2 (4	6" Other_	
Well Hdsp	ace/Odo	r:	NP		LN	APL (	Check	(Y/N)	DNAF	AL Check ()	(/N)
Equipment	Used 1	To Meas	sure Thi	ckness ar	nd Samp	ple Free	Produc	t (Make, M	lode1, etc	:)	
		-		ח	epth to	T00 2	nd Botto	m of Scre	en inte	val 50/14	<u>~~~~</u>
Depth to	LNAPL:	v	2_	Ð					_	Final DTW	
LNAPL/DN	IAPL Th	ickness.	·	MO	LN	APL/ON/	NPL Sa	mple and	Volume	· NA	····
Measured	Weli	TD:	1.80	-							
( - ) Orig	. DTW:	7	4.75	_							
			2	7 - 0.16					1		
( = ) Wtr	Col. This	k: 28.	. <u>os (x</u> )4	r - 0.65 <sub>G:</sub>	als/ft (:	-) 53s	8 Gals	Csa Vol	(x)(3) (e	ج. (=) اون g	Total
			- 6	- 1.47 - 1.91		,		" Cog To	4	y voi. (−)	Purge Gals.
			۲ <u>×</u>	- 1.31					5		00.0.
Purge Me	thad								ss	7	
		o 🗌 De	dicated (	Bladder Pu	amp 🔲	Biadder	Pump [	Baller		Centrifugai P	ump[
		<del>_</del>							PVC		المسمية -
Peristalt	ic Dumn		Hand Pun	<sub>m</sub> []	Gae I	ift/Die	nlaceme	nt Pump [	┰ .	 Other	
Purging E		_		•	^	#t 1		_	_		W / * *
Purging E	:quipmer	IL (ITIZKE	, model,	e(C.)	-cure	<u> </u>	<u></u>	PUN	je Equipr	nent Decon*d?	Y/N
			. 🗥								
Purge Wt Weather:	r Contai	_	_	V) Avg	•	Rate: _		gpm	naz o	)e)	
1455			- 7 - 11-2	-71.00					-, <u>-</u> , -		
Actual	Elapsed	Vois.	Depth To Wtr	Depth Of Pump	Temp	рH	Cond.	Turbidity	<b>O</b>		
Time	Time	(Gais)	(ft)	Intake(ft)		(5.8)	(uiinos)	Turbidity (NTa)	Other	Comment	1
1459	4	10	71.75		23.1	7.04	1440	1.11			
1505		20		1	13.0		1510	1.05			
1516		40			23.(	7.07	1490	asy			
1522		60			23.1	1.05	1480	0.94			
1538	1	80		-	230	1.01	1440	0.81			_
1550		100			23.1	2.01	1490	64			_
1600		120			27.0		1510	673			7
		140	<u> </u>	V	230		1496	0.72			_
160	<del>                                     </del>		71.41		72.9	7.04		1.20		<del></del>	-
1416	1	1160	171.71	96.	1469	1404	DOP	שטייו			j

REV. DATE: MAY 1990 Sample ID No.: MWS-03-01 WELL NO : MUDS -03 MONITORING WELL SAMPLING LOG Project No.: installation: Sky Hacone ANK HAZWRAP Contractor: IT Cappacarum 1645 Sample End: (Date) 4/5/4/ (Time) Sample Start: (Date) 4/5/7, (Time) Sampled by: orig SWL: 71. 15 rt BTOC" Final SWL: 71.41 rt BTOC - 100\_rt btoc 50 Cond. Turbidity Temp Are parameters 20% 230 6.87 1410 of purge values? (1) N Excert Turousny Repurge Y/(N) No. repurge volumes: \_\_\_\_\_\_\_ Sampling Method:
Submersible Pump Dedicated Bladder Pump Bladder Pump Bailer Tef Centrifugal Pump Peristaltic Pump Hand Pump Gas Lift/ Displacement Pump Other\_ Sampling Equipment (Make, Model, etc.) \_\_\_ Sample Equipment Decon'd? (Y)/ N If pump or discrete baller; Depth(s) where pump set:\_\_\_\_\_ \_\_\_\_\_ft. BTOC Weather: Swary, RRARRY HOT (N95. OF) Lab Analyses: (Circle) METALS PEST/PCBS (SVOA) CATIONS ANIONS TDS NATRATE N. TRATE, VINNE CHURGOS Metals: (Circle) Filtered Unfiltered Both Field Dups.: YIND Referee Dups.: Y /6D Comments: Sunday MWS-03-01; 1645

"BTOC - Below Top of Casing (or other measurement reference point)

SWL - Static Water Level

										•	REV. DATE: N	
			•		: : <del>- : :</del>				Sample	ID No.:	MWS - 03 - 0	) A
	allation				GING L	06			WELL NO		ws-03	
	WRAP (		The r	ac Ar					Site: (	SACE A	was well	
	ge Start			T (pp.)	(Time)	1430	<b>5</b> PL	rge End:	(Date)	4/10/	: 409721.02 C	705
	ged by:			Boro						17.07	The contract of	,
De	pth Mea	suremer	nt Ref. i	Point#:_	7	.o.C	<b>.</b>	Wel	1 Csg ID:	2 (4	6° Other	
We	eli Hasp	ace/Odo	r:		_	LN			(Y/N)	مسع	_	/N) .
Eq	uipment	Used 1	To Meas	sure Thi	ckness ar	nd Samu	ole Free		t (Make, M	lodel et		
		_			Mince i				-			
											. /	
_			NO.			•			m of Scri			·
De	oth to	LNAPL:			, DI	eptn to I	DIANT: _		orig. DTW:	27.00	Final DTW:6	4. 14
-	IAPL/DN				<u> </u>	LN	APL/DN/	APL Sai	mple and	Volum	e: <u>NA</u>	
Me	easured	Well	TD:	9.80	_							
( -	-) Orig	DTW:		4.82	_							
					- 0.16					1		
( -	• ) Wtr (	ol. Thi	K. 29.		r - 0.65 <sub>G</sub>	ale/ft (	os 57.	3 Gale	/Cen Vol	(v)2)c	sg Vol. (=) <u>(구(.</u> 명	Total
•				6	- 14/	913/16(		Vals	iz CSg Voi.	WA DE	sg voi. (=)	— Purge Gals.
				4 <u>7</u>	<u>"- 1.91"</u>					5		0415.
De	ırge Met	had								==	<b>г</b>	
			. □oe	dicated i	Bladder Pi	$\Box_{aa}$	Riadder	Pumo [	]Bailer [	SS Tef	Centrifugal Pu	
					J. 5555.		J.5555.			PVC	Center mogali Po	
										,	<b>-</b>	
			_	Hand Pun					nt Pump [		Other	
Pt	urging E	quipmer	nt (Make	, Model,	etc.)	ENN LIT	- 120		—— Puri	ge Equip	ment Decon*d?	Ø N
_												
Pt	urge Wti	Contai	nerized	3 (A) 1	N) Avg	e Purge	Rate: _	~   '	<u>/zgom</u>	0-	_	
W	eather.		T	the L	Dfax.	<u> </u>				90	<sup>o</sup> F)	
1		Elecat	Vols.	Depth		7	<u></u>	Cond.	Turbidity			7
	Time	Elapsed Time				Temp (OC)	(S.a)	(umnos)	(NTa)	Other	Comment	1
	1436	6	(Gais)	(9) 69-82	ntake(ft) 95			1340				┥
	1442		20	NI-00	3			1340				┪
	1457				<del>                                     </del>			1350				-
7	1520		40			12.1			1.59			-
• 9			100		<del></del>	22.9		1350				4
	1525		82	-	<del> </del>	22.9	7.01	1350				4
}	1529		100		<del>}} -</del>	21.8	6.18	1340	1.54			-
	1554		120	<del></del>	┝┷	128	6.97					4
l	1607		140	<b></b>	<del>                                     </del>	22.6		1340	1.73		<b> </b>	4
1	1624		160	<del> </del>	L V	22.6	7.01	1350	1,40			4
	1305		167	69.77	95	22.5	6.94	1280	16.60		<u> </u>	1
								<u> </u>				
									Casing (T			_
D'	TW - De	oth To W	/ater	LNAPL/I	DNAPL - L	ight or [	Dense No	in-Apeou	s Phase Li	quid		

	- REV. DATE: MAY 1990
	Sample ID No.: MWS-03-01A
TONITORING WELL SAMPLING LOG	WELL NO: NWS-03
Installation JT Sur Horance ANG	Site: Back saging week
HAZWRAP Contractor: IT Convolution	Project No.: 409421.02.05
Sample Start: (Date) 4/10/4 (Time) 1645	Sample End: (Date) 4/10/91 (Time) 1705
Sampled by: GARDIII / BUND / TYZINSM	
Orig. SWL: 69-82 ft BTOC* Final SWL: 69.  Screen interval: FO - 100 ft BTO  Temp pH Cond. Turbidity  22.5 6.94 1290 16.60  Sampling Method:	
Peristaltic Pump	PVC   Other
If pump or discrete bailer; Depth(s) where pum  Weather: Swall BRAZES HOT	
Wanter Stands REBITAL LINT	( ~4 5 °F)
Megruel:	
weather.	
,	
Lab Analyses: (Circle)  (VOA) (SVOA) METALS PEST/PCB	
Lab Analyses: (Circle)	
Lab Analyses: (Circle)  VOA) SVOA METALS PEST/PCB  Others: VWYL CHARLE, N. TROPE/N. 19  Metals: (Circle) Filtered Unfiltered Bott	4 TOP b
Lab Analyses: (Circle)  VOA) SVOA METALS PEST/PCB  Others: VWTL CHUM, 75, N. TROPE/NIM  Metals: (Circle) Filtered Unfiltered Bott	4 TO P b
Lab Analyses: (Circle)  VOA) SVOA METALS PEST/PCBS  Others: VWTL CHUM, 75, N. TROPE/NIM  Metals: (Circle) Filtered Unfiltered Bott  Field Dups.: Y/B Referee Dup	TOPB
Lab Analyses: (Circle)  VOA) SVOA METALS PEST/PCB: Others: VWTL CHUM,72, N. TROPE/NIM Metals: (Circle) Filtered Unfiltered Bott Field Dups.: Y/B Referee Dup Comments:	7096 Os.: Y/80
Lab Analyses: (Circle)  VOA) SVOA METALS PEST/PCB:  Others: VWYL CHUMIPS, NITRATE/NIT  Metals: (Circle) Filtered Unfiltered Bott  Field Dups.: Y/D Referee Dup  Comments: SAMPLE: COLLEGE AT 170	7096 Os.: Y/80
Lab Analyses: (Circle)  VOA) SVOA METALS PEST/PCB:  Others: VWYL CHUMIPS, NITRAY NIN  Metals: (Circle) Filtered Unfiltered Bott  Field Dups.: Y/B Referee Dup  Comments:  Springs, Colleged AT 170  A Chioo Springs of Mussic 2 and 1.	O House, Mws-03-01A (Thus
Lab Analyses: (Circle)  VOA) SVOA METALS PEST/PCB:  Others: VWYL CHUMIPS, NITRAY NIN  Metals: (Circle) Filtered Unfiltered Bott  Field Dups.: Y/B Referee Dup  Comments:  Springs, Colleged AT 170  A Chioo Springs of Mussic 2 and 1.	1086 0s.: Y/80
Lab Analyses: (Circle)  VOA) SVOA METALS PEST/PCB:  Others: VWYL CHUMIPS, NITRAY NIN  Metals: (Circle) Filtered Unfiltered Bott  Field Dups.: Y/B Referee Dup  Comments:  Springs, Colleged AT 170  A Chioo Springs of Mussic 2 and 1.	O House, Mws-03-01A (Thus
Lab Analyses: (Circle)  VOA) SVOA METALS PEST/PCB:  Others: VWYL CHUMIPS, NITRAY NIN  Metals: (Circle) Filtered Unfiltered Bott  Field Dups.: Y/B Referee Dup  Comments:  Springs, Colleged AT 170  A Chioo Springs of Mussic 2 and 1.	MINE TOPE  DECEMBER MUS-03-01A (This is  AT This well AT 1715 Hours

RFV	DATE:	MAY	1000
PAL 1.	URIE.	1 100 1	

								Sample	ID No.:	MWS-04-01	
MONITO					06			WELL NO	.: M	115-OY	
Installation			See A					Site: 0	acres	me Wan	
HAZWRAP C Purge Start			191	(Time)	0845	Đị i	rae End	(Date) 4	Ject No.	: 407421.020	
Purged by:		ناخص		Trange					<i>,,,,,</i> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	( i iii ii ) ( )	255
Depth Meas Well Hdspa	suremer	ic Her. P	יייעקעיייעקעיייעקעיייעקעיייעקעייי	ul Hala	J			_	7 (		
Equipment							Check (		ANG-	PL Check (Y)	<del>'N')</del>
Equipment	_				_			•	logei, et	C)	
	<u></u>	~~~\ST	- lat		PARITE				-		
		417								rval <u>50/100</u>	
Depth to	LNAPL:	<u> </u>						•		Final DTW 7	1.02
LNAPL/DN				ND	LN	APL/DNA	PL Sar	nple and	Volum	e: NA	
Measured				_							
( - ) Orig.	DTW:	-7	1.05	_							
				- 0.16					1		T-4-1
( = ) Wtr (	Col. Thic	k.: <u>28.</u> :	<del>}}_</del> (x) <sup>4</sup>	- 0.65 G	als/ft (	<u>54.9</u>	S Gais	/Csg Vol.	(xXD)C	sg Vol. (=) <u>(64,8</u>	Total - Purge
			4 %	' - 1.47 ' - 1.91				-	4		Gals.
									5		
Purge Met				_			_	`	SS		
Submersit	ole Pump	) L Dec	dicated 6	Bladder Pu	mp 🔲	Bladder	Pump [_	Bailer [	_	Centrifugal Pur	mp 🔲
									PVC		
Peristalti	c Pump		tand Pur	æ 🔲 æ	Gas L	ift/ Dist	placemen	it Pump 🔽	3	Other	
Purging E	quipmer	it (Make	, Model,	etc.) <u> </u>	٠٠٠٤٦٦	180	<u> </u>	Pur	ge Equip	ment Decon*d? 💍	<b>9</b> /N
Purge Wtr				l) Avg	e Purge	Rate:	N 2	gpm		_	
Weather: <i>७</i> ८५५		- T-	Bess	* , <u>* 198</u>	T WA	<u>ea</u>	<del>-</del>	(	80	OF)	
	Elmond	Vols.	Depth	Depth Of	Torre	<b>6</b> 11	Cond.	Turbidity			1
Time	Time	Purged (Gals)	To Wtr	Pump Intake(ft)	Temp (OC)	pH (s.a)		(NTa)	Other	Comment	
0850	5		4.0	95			1250	4.63			1
0855		20		1	21.9	7.02		2.15			1
0907		40			22.1		1250	1.96			1
0913		60			22.1		1250	1.91			1
0918		80			22.3		1240	1.97			1
0939		100			21.2		1250	6.79			]
0450		126			22.3		1250	1.81			]
1001		140		V	22.5	7.16	1250	1.56			]
1013			71.02	95	22.5	7.10		1.63			
1050		160			22.9	703		35.1			]
											1
* All Dep											-
DTW - Der	pth To W	/ater	LNAPL/[	DNAPL - L	ight or [	Dense No	n-Apeou	s Phase Li	quid		

\*- REV. DATE: MAY 1990

	Sample ID No.: ALWS-04-01
ONITORING WELL SAMPLING LOG	WELL NO : ALUS - 04
istaliation: Ser House And	Site: Bace same wall
AZWRAP Contractor: IT Consormer	Project No.: 4079210205
	nole End: (Date) 4/11/21 (Time) 10.55
ampled by: Garain / Baro / TV3-Mass	
orig. SWL: 41.05 ft BTOC# Final SWL: 4.02 ft. Screen Interval: 50 - 100 ft BTOC	втос
Temp pH Cond. Turbidity 22.4 203 1190 35.1	parameters 20% purge values? (V) N Exopt Tura. or n
Repu	rge Y/60
No. re	epurge volumes: NA
Sampling Method: Submersible Pump Dedicated Bladder Pump Bladder P  Peristaltic Pump Hand Pump Gas Lift/ Displ  Sampling Equipment (Make, Model, etc.)  Sample Equipment Decon'd? N  If pump or discrete baller; Depth(s) where pump set:	PVC
Weather: Summy Babery Mothers  Lab Analyses: (Circle)  WAR SVOA METALS PEST/PCBS  Others: Vinit Change	( 80 °F)  (TPH) CATIONS ANIONS TOS
Metals: (Circle) Filtered Unfiltered Both Field Dups.: Y/N Referee Dups.:	Y (N)
Field Dups.: Y/N Referee Dups.:  Comments:	
Some MUS-04-01 Them &	T 1050 Hous
*BTOC - Below Top of Casing (or other measurement re	ference point)
SWL - Static Water Level	

DEV	DATE:	MAY	1000
ME V.	DATE.	LAN	1

IONITORING WELL PURG	ING LO				Sample		PS-2-01	
		G			WELL NO		-2	
					Site: (3.	<u> </u>	PIETONERA	
AZWRAP Contractor: IT Corre				Fort	Pro	Ject No.	409721.02.05	
	Time) 0 1	<b>↑</b> \$\$	<u> </u>	rge End:	(Date)	4/4/2/	(Time) 12	5
urged by: GARAGE / BOTTS / 1	YB.MS.							
Depth Measurement Ref. Point	7.0	<u>د</u> _		We1	1 Csg ID:	<b>O</b>	r 6° Other	
Well Hospace/Odor: 141 notes 150 le	SO-IM W	mL N	APL C	heck	(N ( <b>∑</b>	BNA	Pt Check (Y/	N)
Equipment Used To Measure Thick	kness and	Samp	le Free	Produc	t (Make, M	lodel, et	c)	
Socnet Ini	Reform	PAOR	ع الم	ما 1	24			
							(D-/02)	
Depth to LNAPL: NO	-						rval_ <u>50 - (00</u> _ Final_DTW:A	14
. 1 -					•			
LNAPL/DNAPL Thickness		_ LNA	PL/DNA	PL Sa	mple and	Volum	e. <u>NA</u>	
Measured Well TD: 100.00								
(-) Orig. DTW: 72.92						_		
_	- 0.16					ð		
( • ) Wir (a). Thick: 47.08 (x)	- 0.65 Gal	s/ft (•	) <u>51.7</u>	Cals	Csg Vol.	(x) 3 C:	sg Vol. (=) <u>51.72</u>	Total
	- 1.47 - 1.91				•	4	-,	Gals.
· <u>· · · · · · · · · · · · · · · · · · </u>	-11:11					5		
Purge Method:						$\sqrt{ss}$		
Submersible Pump Dedicated Bl	300er Pulti	יניים	31 <b>300e</b> r	isomb ("	]Banet[_	Tef PVC	Centrifugal Puri	<b>p</b> []
Contatable Comp		C 1	45 4 54					
Peristaltic Pump Hand Pump					nt Pump		Other	
Purging Equipment (Make, Model, e	(c.) _1/2		ادا ب	HERK	Pur	ge Equip	ment Decon'd? d	N
Purge Wtr Containerized? (1) N Weather: Survey Breech			Rate: _		gpm	485	0es	
Weather Summi Brec	14, 1401				الـــــــا	(40)	<b>~F)</b>	
	Depth Of .	Temp	рH	Cond	Turbidity			1
		(OC)	(5.8)	(unnos)	(NTa)	Other	Comment	1
0918 5 72.92	140111111111111111111111111111111111111	1.6	6.96	1330	7200			1
0842 10			7.06	1330	7200			1
0900 15		4.6	7.04		7200			[
0920 20		1.8		_	7200			1
1000 30		1.8					<del></del>	1
1041 40		1.1	4.08		7200			
1120 50			7.07	1320	7200			1
1140 55		2.0		1320	112.1			1
والمستور والمستور والمستور والمستور والمستور		1.8	7.10	1320			<del></del>	1
	/							-
1145 56 1210 57 NA	V 12	2.2	12 44	1320	30	i e		İ

Project No   Project No   Sample Start: (Date)   Project No   Sample Start: (Date)   Project No   Sample Start: (Date)   Project No   Sample End: (Date)   Project No   Sample End: (Date)   Project No   Project No   Sample End: (Date)   Project No   P	REV. DATE: MAY 1990
Installation: Say Measure And Sitts: Hoppy Project No Sample Start (Date) 9/9/9/1 (Trime) 1200 Sample End: (Date) 9/9/9/2 (Trime) 1200 Sample End: (Date) 9/9/9/2 (Trime) 1200 Sample End: (Date) 9/9/9/2 (Trime) 1200 Sample End: (Date) 9/9/9/2 (Sampled by: Green interval: 500 Trime 1000 It BTOC  Temp ph Cond. Turbidity  22.2 7.1/ 1320 31.0  Are parameters 20% of purge values? (To No repurge values? (To No repurge values? (To No repurge values? (To No repurge values) (To No repurg	
Project No   Pro	
Sample Start: (Date) 1/9/9/1 (Time) 1/200 Sample End: (Date) 1/6/9/2 Sampled by: Gene 1/200 Troducts  Orig. SWL: 1/2.12 It BTOC* Final SWL: It BTOC  Screen Interval: 50 It BTOC  Temp ph Cond Turbidity  22.1 7.1/ 1320 31.2  Are parameters 20% of purge values? IN Repurge Y IN Repurge Y IN No. repurge volumes: No. repurge volumes: Sampling Method:  Submersible Pump	- Breeferma Pisson
Orig. SWL: \$\frac{92.92}{2.92}_{rt} \text{ BTOC*}  Final SWL:	1: 401721.02.05 (Time) 124
Orig. SWL: \$\frac{72.92}{100} \text{rt BTOC}\$  Screen Interval: \$\frac{50}{100} \text{rt BTOC}\$  Temp pH Cond. Turbidity  22.12 \$\frac{7.1}{1320} \text{31.0}\$  Are parameters 20% of purge values? \$\frac{7}{100}\$ No. repurge volumes:  Sampling Method:  Submersible Pump Dedicated Bladder Pump Bladder Pump Bailer For PvC  Peristalitic Pump Hand Pump Gas Lift* Displacement Pump Sampling Equipment (Hake, Model, etc.)  Sampling Equipment Decon'd? \$\frac{7}{100}\$ N  If pump or discrete bailer; Depth(s) where pump set:  Weather: \$\frac{5}{100} \text{NOA} \text{METALS} \text{PEST/PCBS} \text{TDH} CATIONS  Others \$\frac{1}{100} \text{Vivit Cureofox} \text{TOP16} \text{MODELS: Y/N}  Referee Dups: Y/N Referee Dups: Y/N  Comments:  \$\frac{5}{100} \text{Vivit Cureofox} \text{PS-2-01} \text{Thesade AT 1200} \text{Hows}	(Time) /20
Screen Interval:	
Are parameters 20% of purge values? No. repurge values? No. repurge values? No. repurge values? No. repurge values?    Sampling Method:	
Repurge Y S  No. repurge volumes:  Sampling Method: Submersible Pump Dedicated Bladder Pump Bladder Pump Bailer PvC  Peristaltic Pump Hand Pump Gas Lift/ Displacement Pump Sampling Equipment (Make, Model, etc.)  Sample Equipment Decon'd? (P/ N  If pump or discrete bailer; Depth(s) where pump set:  Weather: Summy Buscy, Hot (P) Pf  Lab Analyses: (Circle)  VOA SVOA METALS PEST/PCBS TPH CATIONS  Others Vuny Changes TOP 6  Metals: (Circle) Filtered Unfiltered Both  Field Dups:: Y (N) Referee Dups:: Y (S)  Comments:  Shower PS - 2 - 0 1 Thereod AT 1200 House	Emar Tues an
Sampling Method: Submersible Pump Dedicated Bladder Pump Bladder Pump Bailer PvC  Peristaltic Pump Hand Pump Gas Lift/ Displacement Pump Sampling Equipment (Make, Model, etc.)  Sampling Equipment Decon'd?    N  If pump or discrete bailer; Depth(s) where pump set:  Weather: Summ, Baser, Hot (90 °F)  Lab Analyses: (Circle)  VOA SVOA METALS PEST/PCBS TPH CATIONS  Others: Viny: Gruesus TOP 16  Metals: (Circle) Filtered Unfiltered Both  Field Dups:: Y/N Referee Dups:: Y/N  Comments:  Sytumbur PS-2-01 TA-tend AT 1200 Hours	
Peristaltic Pump	NA
If pump or discrete bailer; Depth(s) where pump set:  Weather: Swar, Busser, Hot (90 °F)  Lab Analyses: (Circle)  VOA SVOA METALS PEST/PCBS TPH CATIONS  Others: Viny- Champe, TOP6  Metals: (Circle) Filtered Unfiltered Both  Field Dups: Y/N Referee Dups: Y/N  Comments:  Sytuation PS-2-01 Thereof AT 1200 House	☐ Other
Lab Analyses: (Circle)  (VOA) SVOA METALS PEST/PCBS TPH CATIONS  Others: VINY- Crusesse, TOP6  Metals: (Circle) Filtered Unfiltered Both  Field Dups.: Y/N Referee Dups.: Y/N  Comments:  Shares PS-2-01 Tarend AT 1200 House	
Others: VINY CHARGE, TOPIS  Metals: (Circle) Filtered Unfiltered Both  Field Dups.: Y/N Referee Dups.: Y/N  Comments:  Sylvator PS-2-01 Target AT 1200 House	
Metals: (Circle) Filtered Unfiltered Both  Field Dups.: Y/N Referee Dups.: Y/N  Comments:  Shares PS-2-01 Thered AT 1200 House	ANIONS TDS
Comments: SALVER PS-2-01 TAKENS AT 1760 Hours	
EQUE LINSAGE OL- ER 13 THE MT 125 HOUSE	
	•
"BTOC = Below Top of Casing (or other measurement reference point)	

REV.	DATE:	MAY	1990

	Sample ID No.: ALW 1-02-01
NITORING WELL PURGING LOG	WELL NO .: MWI-UZ
stallation: Sky Hange And Dres	Site:
ZWRAP Contractor: IT Coe/OAction rge Start: (Date) by Crie; (Time) 1105 Purge En	Project No.: 409721.02.05 d: (Date) 4/2/41 (Time) 13 40
rged by: Gaso Boro Tyanan	d: (Date) 4/2/4'1 (Time) 13 40
T 0 0	ell Csg ID: 2" (4") 6" Other NA
/eli Hdspace/Odor: L NAPL Check	
quipment Used To Measure Thickness and Sample Free Produ	
SOLINST INTERFACE PROPE MORE 17	•
pepth to LNAPL: 10 Depth to DNPL: 10 Depth to DNPL: 10 Depth to DNPL: 10 Depth to DNPL: 11 Depth to DN	tom of Screen interval 10/2 SO Ba
A1 ~	Orig. DTW: 35.39 Final DTW: 71.60
	sample and Volume:
leasured Well TD: 99.33	
-) Orig. DTW: 23 94 76.39	
2" - 0.16 4" - 0.65	1 2 Teta
= ) Wtr Col. Thick: $\frac{23.94}{6^{\circ}}$ (x) $\frac{4^{\circ}}{6^{\circ}} = 0.65$ Gals/ft (=) $\frac{45.73}{68}$ Ga	ils/Csg Vol. (x) Csg Vol. (*) <u>137.18</u> Puro
9 <u>%- 1.91</u>	4 Gals
	5
Purge Method:	55 🔲 _
submersible Pump Dedicated Bladder Pump Bladder Pump	
	`b∧c □
Peristaltic Pump 🔲 💮 Hand Pump 🔲 💮 Gas Lift/ Displacem	
Purging Equipment (Make, Model, etc.) <u>Bannerr 1800</u>	Purge Equipment Decon*d? (Y)/ N
	<del></del>
Purge Wtr Containerized? ((V)/ N ) Avge Purge Rate:	apm
Weather: Sunny Brity, Wash	(~ 80 °F)
Vols. Depth Depth Of Cond.	<b>1-</b>
Actual Elapsed Purged To Wir Pump Temp PH Yumno	Turbidity Other Comment
1110 5 10 15 4. 23.1 6.95 HIO	
1117 20 1 23.0 3.00 1110	
والمراجع والمستور والمراجع والمستور والمستور والمستور والمستور والمستور والمستور والمستور والمستور والمستور والمستور	
1147 70   23.2 7.05 1120 1159 90   22.9 7.03 1136	
1213 110 23.3 181 108	
125 130 \$ 23.0 7.01 1125	
117321   150   12 60  466   173.i   201 i bis	/ I   D. 4   1
1237 150 77.60 954 23.1 7.02 1130	
1237 150 77.60 954 73.1 7.02 1130	

	REV. DATE: MAY 199
· · · · · · · · · · · · · · · · · · ·	Sample ID No.: MW1-02 - 01
ONITORING WELL SAMPLING LOG	WELL NO.: MW1-02 Site: 1
Stallation: Sky Harca Ania Brie ZWRAP Contractor: IT Corporation	Project No.: 401721.02.05
imple Start: (Date) wife (Time) [300	Sample End: (Date) 9/2/4, (Time) 13 40
mpled by: GARALLE BOYO TYBUREN	
orig SWL: 76.39 ft BTOC* Final SWL: 77 Screen Interval: 50 - 100 ft B	FIL BTOC
Temp pH Cond. Turbidity 23.4 7.64 //20 64	Are parameters 20% of purge values? (Y) N Ricous Tures 10,17% (Streets Repurge Y (R)
	No. repurge volumes:NA
Submersible Pump Dedicated Bladder Pump B	ladder Pump Bailer V Tef Centrifugal Pump
Sampling Method: Submersible Pump Dedicated Bladder Pump Bi Peristaltic Pump Hand Pump Gas Lift Sampling Equipment (Make, Model, etc.)	PVC
Peristaltic Pump Hand Pump Gas Life Sampling Equipment (Make, Model, etc.)	PVC U  t/ Displacement Pump Other  TETHU (3/40.24)  mp set:
Peristaltic Pump	PVC U  t/ Displacement Pump Other  TETHE GARA  np set:
Peristaltic Pump	PVC U  t/ Displacement Pump Other  TETHE GARAGE  IN SEC:
Sampling Equipment (Make, Model, etc.)  Sampling Equipment (Make, Model, etc.)  Sample Equipment Decon'd? (Y) N  If pump or discrete bailer; Depth(s) where pun  Weather: Swar, Bearr (Ware)  Lab Analyses: (Circle)  VOA SVOA METALS PEST/PCE  Others: Viny Guarant  Metals: (Circle) Filtered Unfiltered Bot  Field Dups.: Y/N Referee Du	PVC U  t/ Displacement Pump Other  TETHE GARAGE  IN SEC 9F)  CATIONS ANIONS TO
Sampling Equipment (Make, Model, etc.)  Sampling Equipment (Make, Model, etc.)  Sample Equipment Decon'd? (Y) N  If pump or discrete bailer; Depth(s) where pun  Weather: Swar, Bearr Warm  Lab Analyses: (Circle)  VOA SVOA METALS PEST/PCE  Others: Viny Guident  Metals: (Circle) Filtered Unfiltered Bot  Field Dups.: Y/N Referee Du  Comments:	PVC U  t/ Displacement Pump Other  TETHE GARAGE  mp set:
Peristaltic Pump	PVC U  t/ Displacement Pump Other  TETHE GARAGE   The set:
Sampling Equipment (Make, Model, etc.)  Sampling Equipment (Make, Model, etc.)  Sample Equipment Decon'd? (Y) N  If pump or discrete bailer; Depth(s) where pun  Weather: Swar, Bearr Warm  Lab Analyses: (Circle)  VOA SVOA METALS PEST/PCE  Others: Viny Guident  Metals: (Circle) Filtered Unfiltered Bot  Field Dups.: Y/N Referee Du  Comments:	PVC U  t/ Displacement Pump Other  TETHE GARAGE  mp set:
Peristaltic Pump	PVC U  t/ Displacement Pump Other  TETHE GARAGE  mp set:

ONITO								-		REV. DATE	
	DING	WELL	OUD	GINGI	06			Sample		MW1-07	ALC-
stal latio			acb.		<u> </u>			WELL NO	).: Y	VM1-07	
ZWRAP (		or:	1	T (6)					ject No	: 40972	7
rge Star		4-	18-91	(Time)	067	) Pi	urge End		1-K-		1000
rged by:		hn B	ery)/	Cinera	Dar						
epth Mei	sureme	nt Ref. f	oint*_		·		We	II Csg ID:	2 (	6° Other	•
well Hasp	ace/Odo	x:	<u> </u>		LN	IAPL (		(M/N)	DNA		Y /69)
quipmen	t Used	To Meas	sure Thi	ckness a	nd Sam	ple Free	Produc	t (Make, h	10del, et		
Sdi	125	Inde	Acre	Prop	e P	rodel	121		•		
							•	m of Scr		rval 50/	/
Depth to	I NADI -	·- n	D Q							Final DTW:	71.19
.NAPL/DN								-		^	
			,		LN	APL/UNA	APL 58	mple and	Volum	e:	<del></del>
Measured		71.		-							
( - ) Orig	, orw.			-					1		
				r - 0.16 r - 0.65					2		/つ Tota
( = ) Wtr	Col. Thi	ck.: <u>28.</u>	<u> </u>	- 1.47	ais/ft (	-) <u>53  </u>	ے_ Gal	s/Csg Vol.	(x)(3) C	sg Vol. (=)	Purg
			<u> </u>	4- 1.21					4		Gals
Purge Me	thod:			Bladdon O.		<b>0</b> 1-44	٠	Bailer [	_ 55		
JUDITET 31	DIE PUIT		nicated i	DISCOURT PL		DISCOURT		INALIECT	] Tef	Centrifugai	
									_	Conta il ogali	-disp[i
_	_	_	_	_			_		PVC		-ait-1
	-			<b>™</b> □	Gas L	ift/ Dis	placeme	nt Pump <table-cell></table-cell>	PVC	Other	
	-				Gas L	IPLY DISI	placeme	nt Pump <table-cell></table-cell>	PVC		<b>Ŷ</b> N
	-				Gas L	Ift/ Disi	placeme	nt Pump <table-cell></table-cell>	PVC	Other	
Purging E	cquipmer 	nt (Make nerized	, Model,		2nn4	t P	placement placem	nt Pump (\sum 1800 Pum	PVC De Equip	Other ment Decon*d?	
Purging E	cquipmer 	nt (Make	, Model,	etc.) B	2nn4	t P	placement placem	nt Pump (\sum 1800 Pum	PVC	Other ment Decon*d?	
Purging E Purge Wt Weather:	r Contai	nerized	? (Y/) Depth	etc.) 3	e Purge	Rate:	placement placem	nt Pump (\$\frac{1800}{200}\text{Pump}	PVC De Equip	Other ment Decon*d?	
Purging E Purge Wt Weather:	r Contai	nerized Vols. Purged	? (Y/I	etc.) Avg	e Purge	t P	placement of the placem	nt Pump (\sum 1800 Pum	PVC De Equip	Other ment Decon*d?	
Purging E Purge Wt Weather: Actual Time	r Contai	nerized	? (Y/) Depth	etc.) 3	e Purge	Rate: _	Cond.	nt Pump (\$\int	PVC ge Equip	Other ment Decon*d?	
Purging E Purge Wt Weather:  Actual Time	Contain Elapsed Time	nerized Vols. Purged	? (Y/I	etc.) Avg	e Purge Temp (PC)	Rate: pH (s.a)	Cond.	nt Pump \( \subseteq    Pump   PVC ge Equip	Other ment Decon*d?		
Purging E Purge Wt Weather:  Actual Time  OKLO  OK2	Contain Elapsed Time	vois. Purged (Gais)	? (Y/I	etc.) Avg	e Purge	Rate: PH (S.a)	Cond.	nt Pump (2 /800 Pum gpm Turbidity (NTa)	PVC ge Equip	Other ment Decon*d?	
Purging E Purge Wt Weather:  Actual Time  TEALO  TE	r Contai	Vois. Purged (Gais)	? (Y/I	etc.) Avg	Temp (°C)	PARATE:	Cond. (unhos) IIID II2D	Turbidity	PVC ge Equip	Other ment Decon*d?	
Purging E Purge Wt Weather:  Actual Time  TKUD  TK2U  TK39	Contain Elapsed Time	Vois. Purged (Gais)	? (Y/I	etc.) Avg	Temp (°C)	PARATE:	Cond. (umhos)	Turbidity (NTa)	PVC ge Equip	Other ment Decon*d?	
Purging E Purge Wt Weather:  Actual Time  75(10)  75(24)  75(39)  75(0)	r Contai Elapsed Time	Vois. Purged (Gais)	? (Y/I	etc.) Avg	e Purge Temp (PC)  22.0 22.9 23.1	PARATE:	Cond. (unhos) IIID II2D	Turbidity	PVC ge Equip	Other ment Decon*d?	
Purging E Purge Wt Weather:  Actual Time  7600 7620 7639 0901	r Contai Elapsed Time	Vols. Purged (Gals)  VO	? (Y/I	etc.) Avg	e Purge Temp (PC)  22.0 22.9 23.1	PATE:	Cond. (umhos) 1120 9)0 1140	Turbidity (NTa)	PVC ge Equip	Other ment Decon*d?	
Purging E Purge Wt Weather:  Actual Time  TS(10)  TS(21)  TS(37)  TS(3	Contain Elapsed Time	Vols. Purged (Gals)  VO	? (Y/I	etc.) Avg	Purge Temp (*C) 22.9 23.6 23.6	PATE:	Cond. (umhos) 1110 1120 9>0 1140 980 1150	Turbidity (NTa)  228  436  436	PVC ge Equip	Other ment Decon*d?	
Purge Wt Weather:  Actual Time  TEXIO	Elapsed Time	Vois. Purged (Gais)  VOIS. Purged (JO)  JO)	? (Y/I	etc.) Avg	Temp (°C)  22.0 23.0 23.6 23.6 23.6 23.7	PATE:	Cond. (unitos)   1120   1120   1140   1150   1150   1070	Turbidity (NTa)  228  392  36  39  39  39  39	PVC ge Equip	Other ment Decon*d?	
Purging E Purge Wt Weather:  Actual Time  TS(10)  TS(21)  TS(2	Elapsed Time	Vols. Purged (Gals)  VO	? (Y/I) Depth To Wtr	etc.) Avg	Temp (°C)  22.0 23.0 23.6 23.6 23.6	PATE:	Cond. (umhos) 1110 1120 9>0 1140 980 1150	Turbidity (NTa)  228  436  436	PVC ge Equip	Other ment Decon*d?	
Purging E Purge Wt Weather:  Actual Time  Time	Elapsed Time	Vois. Purged (Gais)  VOIS. Purged (JO)  JO)	? (Y/I) Depth To Wtr	etc.) Avg	Temp (°C)  22.0 23.0 23.6 23.6 23.6 23.7	PATE:	Cond. (unitos)   1120   1120   1140   1150   1150   1070	Turbidity (NTa)  228  392  36  39  39  39  39	PVC ge Equip	Other ment Decon*d?	

	- REV. DATE: MAY 1990
	Sample ID No.: MWI-02-01A
MONITORING WELL SAMPLING LOG	WELL NO: MW1-02
Installation: Sky Haubon ANA HAZWRAP Contractor: I T CONP	Site: Project No.: 404721
Sample Start: (Date) 4-18-91 (Time) 10 20	Sample End: (Date) 11-19-91 (Time) 14 (/)
Sampled by: Tohn Boyd / India Dal	)
orig SWL: 1125 ft BTOC" Final SWL: 11	1 tr BTOC
Screen Interval: 50 - 100 It BTO	
Screen interval:	•
Temp pH Cond. Turbidity	
24.9 7.08 1110 8.15	Are parameters 20%
24. ( 7.08 110 -173	of purge values? 7/N
	Repurge Y //N
<del>   </del>	414
	No. repurge volumes:AA
Sampling Method:	SS 🔲
Prometatore with The registred places, with The Place	Ider Pump Bailer Tef Centrifugal Pump PVC
	Total Control of the
Peristaltic Pump Hand Pump Gas Lift/	
Sampling Equipment (Make, Model, etc.) 12" T	ella Buler
Sample Equipment Decon'd? Y N	
if pump or discrete baller; Depth(s) where pump	set:ft. BTOO
Weather High clouds slight breeze	( 65 <b>9</b> 5)
Weather.	
Lab Applicant (A) (A)	
Lab Analyses: (Circle)	
(VOA) (SVOA) METALS PEST/PCBS	TPH CATIONS ANIONS TDS
Others Vmy Vilouis	
)	
Metals: (Circle) Filtered Unfiltered Both	
Field Dups.: Y/N Referee Dups	u: Υ. <b>(</b> ήγ)
Comments:	,
noted sheen on son water	surface but HOW detector down't
reflect compleme - Total	
mu1-00 = 165 oxello	mount purged for
*BTOC - Below Top of Casing (or other measureme	nt reference point)
SWL - Static Water Level	

REV	DATE:	MAY	1000

								Sample			-02-	01
				SING L	06			WELL NO	: Mu	12-02		
MRAP Co								Site: 2	lect No	4017	24.32	
e Start:			291	(Time)	0016	Pu	rge End:	(Date)	7/10/4	. <del>4014</del>	ime)	1130
ed by:				Faure					111-13	·		1130
th Meas		at Dof f	a inte	T.(	٥.८		1401	1 Con 10	~ 4	<i>D</i>	<b>A A A A B B B B B B B B B B</b>	
ili Hdspa					L N	ADI C		Csg ID:			Other_	
-				<del></del> ckness as			•	(¹)/ N ) t (Make, h	<b>BNA</b>		<del>cx (</del>	<del>17117 -</del>
ipment	_							t træke, r	iodei, etc	c)		
	200	NST.	INTL	rue Pa	St.	MBON	121		<del></del>			
								m of Scre			50/po	
oth to I	LNAPL:	עט	<del></del>	De	epth-to-E	WDL:	(	Orlg. DTW:	11.18	_Final [	DTW:	71.06
APL/DN/	APL Th	ickness.	N	2	LN4	APL/DNA	APL Sa	mple and	Volume	e: <u> </u>	۸	
asured	Well	TD:	20,00	_								
) Orig.	DTW:		4.7B	_								
				- 0.16					1			
) Wtr C	ol. Thi	k : 28.	<u> </u>	r - 0.65 <sub>G</sub> .	als/ft (•	s) 53.º	q Gale	s/Csg Vol.	(x) <del>(</del> 2)(c	sa Vol (=	s 161.	g Tota
			6	- 1.47 K- 1.91				,, cog vo	4	sg voi. (-	, <u></u>	8 Purg Gals
									_			
			2						5			
rge Meti	hoæ		7							7		
rge Meti bm <b>er</b> sib		o ∏ De	_		mo∏l	Bladder	Pumo [	Bailer	<u>ss</u> [	Centr	offunal (	Amo[]
		o 🗌 De	_		.mo□l	Bladder	Pump [	]Baller[	SS Tef	Centr	rifugal f	Pump∐
bmersib	ole Pump		dicated (	Bladder Po			_		SS Ter		rifugal F	Pump[]
omersib ristaltic	ole Pump c Pump		dicated l	Bladder Pu	Gas Li	ift/ Disp	placemer	nt Pump [	SS Ter PVC	Other_		
omersib ristaltic	ole Pump c Pump		dicated l	Bladder Po	Gas Li	ift/ Disp	placemer	nt Pump [	SS Ter PVC			
omersib	ole Pump c Pump quipmer		dicated (	Bladder Pu	Gas Li	ift/ Disp	placemer	nt Pump [	SS Ter PVC	Other_		
ristaltic	c Pump cuipmer Contai	nt (Make	dicated in the stand Purish, Model,	Bladder Pu	Gas Li らいんに e Purge	L 180	placemer OO	nt Pump [] Pun gpm	SS Ter PVC PVC	Other		
ristaltic rging Ec rge Wtr	c Pump cuipmer Contai		dicated in the stand Purious, Model,	Bladder Pu	Gas Li らいんに e Purge	L 180	placemer OO	nt Pump [] Pun gpm	SS Ter PVC PVC	Other_		
ristaltic rging Ed rge Wtr eather: _ O814	c Pump quipmer Contai	nerized	dicated land Pun , Model, ? (27)	Bladder Pc  np	Gas Li	Ift/ Disp	olacemer	nt Pump [] Pury gpm	SS Ter PVC PVC PVC PVC PVC PVC PVC PVC PVC PVC	Other		
ristaltic rging Ed rge Wtr eather: _ OBIL	c Pump quipmer Contai	nerized	tand Pun , Model, ? (Y) I	Bladder Pour Pour Pour Pour Pour Pour Pour Pou	Gas Li	Ift/ Disp	Cond.	nt Pump [] ————————————————————————————————————	SS Ter PVC PVC	Other ment Dec		
ristaltic rging Ed rge Wtr eather: _ O814	c Pump quipmer Contai	nerized	tand Puri , Model, ? (2) I Bass Depth To Wtr	etc.)	Gas Li	Rate:	Cond.	nt Pump (\)gpmgpm (NTa)	SS Ter PVC PVC PVC PVC PVC PVC PVC PVC PVC PVC	Other ment Dec	on°d?	
ristaltic rging Ed rge Wtr eather: _ OBIL Actual I	c Pump culpmer Contai Clapsed Time	nerized Vols. Purged (Gals)	tand Pun , Model, ? (Y) I	etc.)	Gas Li Server Server Purge Temp (°C)	Rate:	Cond.	Turbidity (NTa)	SS Ter PVC PVC PVC PVC PVC PVC PVC PVC PVC PVC	Other ment Dec	on°d?	
ristaltic rging Ed rge Wtr eather: _ OBIL Actual I Time OBIL OBIL	c Pump quipmer Contai Si Elapsed Time	vois. Purged (Gals) /U	tand Puri , Model, ? (2) I Bass Depth To Wtr	etc.)	Gas Li Server Server Purge Temp (°C)	PH (s.a)	Cond. (umhos) (1290)	Turbidity (NTa) 7.24	SS Ter PVC PVC PVC PVC PVC PVC PVC PVC PVC PVC	Other ment Dec	on°d?	
ristaltic rging Ed rge Wtr eather: _ OB14 Actual Time OB24 OB33	c Pump quipmer Contai Si Elapsed Time	Vols. Purged (Gals) /U 20	tand Puri , Model, ? (2) I Bass Depth To Wtr	etc.)	Gas Li Service Purge Temp (°C) 21.3 21.5 21.8	PH (S.a) 6.80	Cond. (umhos) 1290 1280	Turbidity (NTa) 7.24 2.83	SS Ter PVC PVC PVC PVC PVC PVC PVC PVC PVC PVC	Other ment Dec	on°d?	
ristaltic rging Ed rge Wtr eather: -0814 Actual Time 0824 0833 0943	c Pump quipmer Contai Si Elapsed Time	Vols. Purged (Gals)	tand Puri , Model, ? (2) I Bass Depth To Wtr	etc.)	Gas Li e Purge Temp (°C) 21.3 21.5 11.8	pH (s.a) 6.80 6.91 6.94	Cond. (umhos) 1280 1280 1300	Turbidity (NTa) 7.29 2.93 3.(2	SS Ter PVC PVC PVC PVC PVC PVC PVC PVC PVC PVC	Other ment Dec	on°d?	
ristaltic rging Ed rge Wtr eather: _ OB14 Actual Time OB24 OB33	c Pump quipmer Contai Si Elapsed Time	Vols. Purged (Gals) /U 20	tand Puri , Model, ? (2) I Bass Depth To Wtr	etc.)	Gas Li Service Purge Temp (°C) 21.3 21.5 21.8	PH (s.a) 6.80 6.94 6.94	Cond. (umhos) 1290 1280	Turbidity (NTa) 7.24 2.83	SS Ter PVC PVC PVC PVC PVC PVC PVC PVC PVC PVC	Other ment Dec	on°d?	
ristaltic rging Ed rge Wtr eather: -0814 Actual Time 0824 0833 09413 0114 0114	c Pump quipmer Contai Si Elapsed Time	Vols. Purged (Gals) 10 20 40 60 60	tand Puri , Model, ? (2) I Bass Depth To Wtr	etc.)	Gas Li e Purge Temp (°C) 21.3 21.5 21.9 21.0 21.2	PH (S.a) 6.80 6.94 6.94 6.96	Cond. (umbos) 1290 1290 1300 1300 1300	Turbidity (NTa) 7.27 2.83 3.(2 1.31 2.44 0.84	SS Ter PVC PVC PVC PVC PVC PVC PVC PVC PVC PVC	Other ment Dec	on°d?	
ristaltic rging Ed rge Wtreather: -09/4 Actual Time 0824 0833 09412 0101 0114 0145	c Pump quipmer Contai Si Elapsed Time	Vols. Purged (Gals) 10 20 40 60 100	tand Puri , Model, ? (2) I Bass Depth To Wtr	etc.)	Gas Li e Purge Temp (°C) 21.3 21.5 21.9 21.0 22.2	pH (s.a) 6.80 6.94 6.96 7.05	Cond. (umbos) 1280 1300 1300 1300 1300	Turbidity: (NTa) 7.29 2.83 3.(2 1.31	SS Ter PVC PVC PVC PVC PVC PVC PVC PVC PVC PVC	Other ment Dec	on°d?	
ristaltic rging Ed rge Wtr eather: -0814 Actual Time 0824 0833 09413 0914 0914 0920 0945 1000	c Pump quipmer Contai Si Elapsed Time	Vols. Purged (Gals) 10 20 40 60 (00) (00)	tand Puri , Model, ? (2) I Bass Depth To Wtr	etc.)	Gas Li e Purge Temp (°C) 21.3 21.5 21.9 21.0 22.0 22.1 22.1	PATE:	Cond. (umhos) 1290 1280 1300 1300 1300 1300	Turbidity (NTa) 7.29 2.43 3.12 1.31 2.49 0.84 1.50 1.65	SS Ter PVC PVC PVC PVC PVC PVC PVC PVC PVC PVC	Other ment Dec	on°d?	
ristaltic rging Ed rge Wtreather: -09/4 Actual Time 0824 0833 09412 0101 0114 0145	c Pump quipmer Contai Si Elapsed Time	Vols. Purged (Gals) 10 20 40 60 100	tand Puri , Model, ? (2) I Bass Depth To Wtr	Bladder Pound etc.)	Gas Li e Purge Temp (°C) 21.3 21.5 21.9 21.0 22.2 22.3 22.4	pH (s.a) 6.80 6.94 6.96 7.05 6.13	Cond. (umbos) 1280 1300 1300 1300 1300	Turbidity (NTa) 7.27 2.83 3.12 1.31 2.49 0.84 1.50 1.65	SS Ter PVC PVC PVC PVC PVC PVC PVC PVC PVC PVC	Other ment Dec	on°d?	

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REV. DATE: MAY 1990 Sample ID No.: MW2-02-01 MONITORING WELL SAMPLING LOG WELL NO : MW2 Site: Installation SAY HARRA ANY Project No.: 401724.02.0 HAZWRAP Contractor: (T Cot costes)
Sample Start: (Dete) 4/10/4/ (Time. Sample End: (Date) 4/13/41 (Time) 1040 (Time) 1/30 Sampled by: Orig SWL: 71. 78 It BTOC" Final SWL: 71.06 IL BTOC Screen Interval: 50 - 100 ft BTOC Cond. Turbidity рH Temp Are parameters 20% 23.0 6.97 1190 of purge values? ON Except Tunzary Repurge Y/64 MA No. repurge volumes: \_\_\_\_ Sampling Method:
Submersible Pump Dedicated Bladder Pump Bladder Pump Bailer Tef Centrifugal Pump Peristaltic Pump Hand Pump Gas Lift/ Displacement Pump Other\_ Sampling Equipment (Make, Model, etc.) \_\_\_ Sample Equipment Decon'd? (2)/ N \_\_\_\_\_\_ft. BTOC If pump or discrete bailer; Depth(s) where pump set:\_\_\_\_\_ Weather: Sunny Beserv HOT 190 OF) Lab Analyses: (Circle) PEST/PCBS CATIONS ANIONS TDS (METALS VINTE CUE Metals: (Circle) Filtered Unfiltered Field Dups.: (Y) N Referee Dups.: Comments: Somere MUZ-02-01 AT 1100 Hours. ALSO TOOK MATERIX STIKE MW2-02-01-MS MATTER CAME DUE HERE: MW2-02-01 - MSD

"BTOC = Below Top of Casing (or other measurement reference point)

SWL - Static Water Level

REV. I	DATE:	MAY	1990
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	Salibie	U NO.:	MW3-01-	-or
ONITORING WELL PURGING LOG	WELL NO		13-01	• • •
estallation: Sky Heart And	Site:	7	. Wasaa	
AZWRAP Contractor: IT Convolutions urge Start: (Date)	End: (Date)	ject No.		.03.6
urge Start: (Date) w/11/61 (Time) 1434 Purge E	CIAL (DECE)	7/0/7	, CI BILL	) 16-11
Depth Measurement Ref. Point*			•	ner
Well Hdspace/Odor: L NAPL Check	_	DNA		(Y/N)
Equipment Used To Measure Thickness and Sample Free Pro	duct (Make, M	lodel, et	c)	
Source INTERFACE PAOR MODEL 1	21			
Depth to Top and Bo	ottom of Scre	en inte	rvai 50	100
Depth to LNAPL: ND Depth to BNPL:				
LNAPL/DNAPL Thickness ND LNAPL/DNAPL	_			
Measured Well TD: 99.42	Senithic QIG	VUIUII	v	
		,		
2" - 0.16		2		Tota
(=) Wtr Col. Thick.: 27.70(x) 4" - 0.65 Gals/ft (=) 52.9 (	Gals/Csg Vol.	(x)ŒC	sg Vol. (=)	158,7 Purc
6° = 1.47 ጚችር <sub>1.5</sub> ር		4	•	Gal
<del></del>		5		
Purge Method:		SS		
Submersible Pump Dedicated Bladder Pump Bladder Pump				
Social sinie bailth Theorester piscoel, bailth This piscoel, bailt	p <b>Baller</b>	Tef	Centrifu	gal Pump 🔲
Source since both Concated practe, both Control practe, both	pBaller	] Tef PVC	Centrifu	gal Pump
		PVC		gal Pump
Peristaltic Pump Hand Pump Gas Lift/ Displace	ement Pump	PVC	Other	
	ement Pump	PVC	Other	
Peristaltic Pump Hand Pump Gas Lift/ Displace	ement Pump	PVC	Other	
Peristaltic Pump Hand Pump Gas Lift/ Displace Purging Equipment (Make, Model, etc.) Binder 1800  Purge Wtr Containerized? (V) N) Avge Purge Rate:	ement Pump [\ Pun 	PVC 2 ge Equip	Other ment Decon*(	
Peristaltic Pump Hand Pump Gas Lift/ Displace Purging Equipment (Make, Model, etc.)	ement Pump [\ Pun 	PVC	Other ment Decon*(	
Peristaltic Pump Hand Pump Gas Lift/ Displace Purging Equipment (Make, Model, etc.) Sinks 7 1800  Purge Wtr Containerized? (Y/N) Avge Purge Rate: Weather: Second Date Doot Death Containerized	ement Pump Pun Pun 2 gpm	PVC 2 ge Equip	Other ment Decon*(	
Peristaltic Pump	Pun  2 gpm  d. Turbidity	PVC 2 ge Equip	Other ment Decon*(	d? ØYN
Peristaltic Pump	ement Pump Pun 2 gpm  d. Turbidity (NTa)	PVC ge Equip	Other ment Decon*(	d? ØYN
Purging Equipment (Make, Model, etc.)   Gas Lift/ Displace  Purging Equipment (Make, Model, etc.)   Gas Lift/ Displace  Purge Wtr Containerized? (Y/ N)   Avge Purge Rate:   Weather:   Gas Lift/ Displace  Purge Wtr Containerized? (Y/ N)   Avge Purge Rate:   Weather:   Gas Lift/ Displace  Purge Wtr Containerized? (Y/ N)   Avge Purge Rate:   Weather:   Gas Lift/ Displace  Purge Wtr Containerized? (Y/ N)   Avge Purge Rate:   Weather:   Gas Lift/ Displace  Purge Wtr Containerized? (Y/ N)   Avge Purge Rate:   Weather:   Gas Lift/ Displace  Purging Equipment (Make, Model, etc.)   Gas Lift/ Displace  Purge Wtr Containerized? (Y/ N)   Avge Purge Rate:   Weather:   Gas Lift/ Displace  Purge Wtr Containerized? (Y/ N)   Avge Purge Rate:   Weather:   Gas Lift/ Displace  Purge Wtr Containerized? (Y/ N)   Avge Purge Rate:   Weather:   Gas Lift/ Displace  Purge Wtr Containerized? (Y/ N)   Avge Purge Rate:   Weather:   Gas Lift/ Displace    Weather:   Gas Lift/ Displace   Gas L	ement Pump Pum Pum 2 gpm Id. Turbidity (NTa) ID 5.52	PVC ge Equip	Other ment Decon*(	d? ØYN
Purging Equipment (Make, Model, etc.) Salar 1800  Purge Wtr Containerized? (7/ N ) Avge Purge Rate: Weather: Supply Depth of Temp pH (Gals) (ft) Intake(ft) (9C) (s.a) (miles) (1416	ement Pump Pum 2 gpm  1d. Turbidity 1 (NTa) 10 5.52 10 2.58	PVC ge Equip	Other ment Decon*(	d? ØYN
Purging Equipment (Make, Model, etc.) Bridget 1800  Purge Wtr Containerized? (VN) Avge Purge Rate: Weather: Sugar Burged Time Time (Gals) (ft) Intake(ft) (PC) (s.a) (m) 1416 20 122.6 7.19 123	gpm  2 gpm  (NTa)  10 5.52  10 2.58  30 1.27	PVC ge Equip	Other ment Decon*(	d? ØYN
Purging Equipment (Make, Model, etc.) Bridget 1800  Purge Wtr Containerized? (TV N ) Avge Purge Rate: Weather: Supply Purged To Wtr Pump (Gals) (ft) Intake(ft) (S.a) Think (Gals) (ft) Intake(ft) (S.a) Think (Gals) (1974 (S.a) 1974	ment Pump Pump 2 gpm  70 Turbidity (NTa) 10 5.52 10 2.58 30 1.27	PVC ge Equip	Other ment Decon*(	d? ØYN
Purging Equipment (Make, Model, etc.) Bridget 1800  Purge Wtr Containerized? (V) N) Avge Purge Rate: Weather: Survey Purged To Wtr Pump (Gals) (Pt) Itake(It) Final Purged Time (Gals) (Pt) Itake(It) (Pc) (S.a)	2 gpm  2 gpm  10. Turbidity (NTa) 10. 5.52 10. 2.58 30. 1.27 10. 1.01 30. 0.74	PVC ge Equip	Other ment Decon*(	d? ØYN
Peristaltic Pump	2 gpm  2 gpm  7 (NTa)  10 5.52  10 2.58  10 1.01  10 0.46	PVC ge Equip	Other ment Decon*(	d? ØYN
Purgling Equipment (Make, Model, etc.)	2 gpm  2 gpm  10. Turbidity 10. 5.52 10. 2.58 20. 1. 27 10. 1. 01 30. 0.71 10. 0.66 30. 0.61	PVC ge Equip	Other ment Decon*(	d? ØYN
Purging Equipment (Make, Model, etc.)   Gas Lift/ Displace  Purging Equipment (Make, Model, etc.)   Given etc.   1800  Purge Wtr Containerized? (TV N )   Avge Purge Rate:   Weather:   Success   Lift   Weather:   Success   Lift   Weather:   Lift	2 gpm  2 gpm  10 Turbidity (NTa) 10 5.52 10 2.58 10 1.27 10 1.01 10 0.66 10 0.61	PVC ge Equip	Other ment Decon*(	d? ØYN
Purgling Equipment (Make, Model, etc.)	2 gpm  2 gpm  10. Turbidity 10. 5.52 10. 2.58 20. 1.27 10. 0.14 10. 0.66 30. 0.61 30. 0.62 30. 0.23	PVC ge Equip	Other ment Decon*(	d? ØYN
Purgling Equipment (Make, Model, etc.)	2 gpm  2 gpm  10 Turbidity (NTa) 10 5.52 10 2.58 10 1.27 10 1.01 10 0.66 10 0.61	PVC ge Equip	Other ment Decon*(	d? ØYN

REV. DATE: MAY 1990 Sample ID No.: ALW 3-01-01 MONITORING WELL SAMPLING LOG WELL NO.: MW3-01 Site: Installation Car Hadage Project No.: 409721-02-05 HAZWRAP Contractor: IT Concretion:
Sample Start: (Date) u /u/a. (Time) 1430 Sample End: (Date) 4/11/41 (Time) 16 45 Sample Start: (Date) 4/11/91 GARRIE BOLD / TYDURE Sampled by: Orig SWL: 71.72 It BTOC" Final SWL: 71.70 It BTOC Screen Interval: 50 100\_ft BTOC Cond Turbidity Temp рΗ Are parameters 20% 22.5 14.22 1230 51.5 of purce values? CP/N Excent The Date Repurge Y/N NA No. repurge volumes: \_\_\_ Sampling Method: Submersible Pump Dedicated Bladder Pump Bladder Pump Bailer V Tef Centrifugal Pump Peristaltic Pump Hand Pump Gas Lift/ Displacement Pump Other \_\_\_ 14" Teffen Beiler Sampling Equipment (Make, Model, etc.) \_\_\_\_ Sample Equipment Decon'd? (Y)/ N If pump or discrete baller; Depth(s) where pump set: \_\_\_\_\_ \_\_ft\_BTOC Sum BREEZY HOTWAR IN 80 OF) Lab Analyses: (Circle) (HAD) PEST/PCBS VOA) **METALS** CATIONS ANIONS TDS VINE CHARRIOE, TOPE Metals: (Circle) Filtered Unfiltered Both Referee Dups.: Y/(1) Y / (N) Field Dups.: Comments: MW3-01-01 TAKEN AT 1630 HOLEY EQUIP RENSAME DC-ER25 TAKEN HT 1720 HOUNG

\*BTOC = Below Top of Casing (or other measurement reference point)

SWL - Static Water Level

ONITORI	•	•	LURE								
ANITABI	<del>سیسسی</del> ب						Sample			5EW	7-01
	NG WELI						WELL N		0103-	0	or a
stallation	Sky Barb		Coordin	stee			Site:				
ZWRAP Con	Date) 4		Or P (Time)	1007	\ A	irne Fod	(Date)	Dject No		35	<del>. } ~ c</del>
rged by:		3000		ALL.	S: 4	A	. (08057	7-16	יר	(Time)	1323
		J	-								
epth Measur	rement Ref.	Point*_		roc		We	II Csg ID:	2° (	<b>₹</b> ) 6°	Other	·
Vell Hospace	e/Odor:		_	LN	IAPL (	Check	Q(N)	DNA	PL C	heck	(YO
quipment U	sed To Mea	sure Thi	ickness a	nd Sam	ple Fre	e Produc	t (Make, 1	10del, et	ic)		_
Solins	J In	ter face	Probe								
				lanth to	Ton	nd Botto	m of Scr	oon inte		50/	~
Nameta da dal	IAPL: NA		, L	esta to	LVIDI. ΣΙΟΉΣα	NA A	orig. DTW:	een inte - 소유 국국	TVal	0714	970
											<u> </u>
	L Thickness	00 11	NA ^	LN	APL/DN/	APL Sa	mple and	l Volum	ne:		
leasured W	/ell TD:	99.6	1								
-) Orig. D	)TW:	68.35	_								
			2" - 0.16					1			
= ) Wtr Col	. Thick.: 31.	34 (v) <sup>4</sup>	r - 0.65 <sub>c</sub>	ale/ft (	-) <i>5</i> 9.	9 Gale	Cea Val	(4)	'aa 1/a1	~ 1º	SO I
,a GO.			- 14/	13/ IC (	,		or cay voi.	(AC)	.5g voi.	(=)	<u>00</u> P <sub>1</sub> G
		<b>9</b> 2	<u>(*</u>					5			G
hana Matha	<b></b>	_						==			
Purge Method			Rladder Di	<b></b> □	Risdder	Di mon [	] <sub>Baller</sub> [	55 Tef	Д	itelfi wal	ا مسات
	d: Pump 🔲 De		Bladder Pu	ump 🔲	Bladder	Pump [	Bailer [	Tef	Cen	itrifugal	Pump[
Submersible	Pump De	dicated					_	Tef PVC	Cen	itrifugal	Pump[
Submersible Peristaltic P	Pump De	dicated : Hand Pun	np 🔲	Gas L	.ift/ Dis	placemer	nt Pump D	Tef PVC	Other		
Submersible Peristaltic P	Pump De	dicated : Hand Pun	np 🔲	Gas L	.ift/ Dis	placemer	nt Pump D	Tef PVC	Other		
Submersible Peristaltic P	Pump De	dicated : Hand Pun	np 🔲	Gas L	.ift/ Dis	placemer	nt Pump D	Tef PVC	Other		
Submersible Peristaltic P Purging Equi	Pump De	dicated land Pun	np	Gas L	ift/ Dis	placemen	nt Pump D	Ter PVC	Other		
Submersible Peristaltic P Purging Equi	Pump De	dicated Hand Pune, Model,	np Detc.) Be	Gas L	Rate: _	placement	nt Pump <u>(S</u>	Ter PVC	Other ment De		
Peristaltic P Purging Equi Purge Wtr Co Weather:	Pump De	dicated hand Pune, Model,	etc.) By	Gas L envet ge Purge	Rate: _	placement	nt Pump \( \subsection \)  **Section**  **Pump Pump Pump Pump Pump Pump Pump Pump	Ter PVC ge Equip	Other ment De		
Peristaltic Purging Equi	Pump De  Pump II  Ipment (Make  ontainerized  Slight  vols.  apsed Purged	dicated hand Pune, Model,	etc.) By	Gas L	Rate: _	placement	nt Pump \( \sum_{\text{text}} \)  gpm  Turbidity	Ter PVC ge Equip	Other ment De	econ <sup>*</sup> d?	
veristaltic Pourging Equipurge Wtr Coveather:  Actual Ela	Pump De  Pump II  Ipment (Make  ontainerized  Slight	dicated hand Pure, Model,	etc.) By	Gas L	Rate:	placement	nt Pump <u>(S</u>	Ter PVC ge Equip	Other ment De		
eristaltic Purging Equi Purge Wtr Coveather:  Actual Ela Time Ti	Pump De  Pump II  pump II  pment (Make  ontainerized  Slight  Vols.  purged  (Gals)	dicated hand Pure, Model,	etc.) By  N ) Avg  Light  Depth Of  Pump	Gas L	Rate:	Cond.	nt Pump \( \sum_{\text{text}} \)  gpm  Turbidity	Ter PVC ge Equip	Other ment De	econ <sup>*</sup> d?	
Peristaltic Pourging Equi Pourge Wtr Coveather:  Actual Ela	Pump De  Pump U  Ipment (Make  ontainerized  Slight  apsed Vols.	dicated hand Pure, Model,	etc.) By  N ) Avg  Light  Depth Of  Pump	Gas L	Rate: _	Cond.	nt Pump \( \sum_{\text{text}} \)  gpm  Turbidity	Ter PVC ge Equip	Other ment De	econ <sup>*</sup> d?	
Peristaltic Pourging Equi Pourge Wtr Coweather:  Actual Ela Time Ti	Pump De  Pump II  pump II  pment (Make  ontainerized  Slight  Vols.  purged  (Gals)	dicated hand Pure, Model,	etc.) By  N ) Avg  Light  Depth Of  Pump	Gas Lenge Purge	Rate:	Cond. (umhos)	nt Pump D	Ter PVC ge Equip	Other ment De	econ <sup>*</sup> d?	
Purging Equi Purge Wtr Coweather:  Actual Ela Time Ti	Pump De  Pump Unipment (Make  ontainerized  Slight  purged  ime (Gals)	dicated hand Pure, Model,	etc.) By  N ) Avg  Light  Depth Of  Pump	Gas Lege Purge	Rate:	Cond. (umhos)	nt Pump D	Ter PVC ge Equip	Other ment De	econ <sup>*</sup> d?	
Peristaltic Perist	Pump De  Dump II  Dum	dicated hand Pure, Model,	etc.) By  N ) Avg  Light  Depth Of  Pump	Gas Lege Purge	PH (s.a)	Cond. (umnos)	nt Pump December Pump gpm Turbidity (NTa)	Ter PVC ge Equip	Other ment De	econ <sup>*</sup> d?	
Purging Equi Purge Wtr Coweather:  Actual Ela Time Ti 1040 105	Pump De  De  Dump De  Dump De  De  Dump De  De  De  De  De  De  De  De  De  De	dicated hand Pure, Model,	etc.) By  N ) Avg  Light  Depth Of  Pump	Gas Lenge Purge	Rate:	Cond. (umros)	Turbidity (NTa)	Ter PVC ge Equip	Other ment De	econ <sup>*</sup> d?	
Peristaltic Pourging Equi Pourge Wtr Coweather:  Actual Ela Time Ti 1040 1010 1015	Pump De  Pum	dicated hand Pure, Model,	etc.) By  N ) Avg  Light  Depth Of  Pump	Gas L ge Purge 	PH (s.a) 6.89 6.89	Cond. (umnos) 1270 1320 1320 1330	Turbidity (NTa)	Ter PVC ge Equip	Other ment De	econ <sup>*</sup> d?	
Peristaltic Pourging Equi Pourge Wtr Co Weather:  Actual Ela Time Ti 1040 1046 1100 1145 1129 1156	Pump De  Pum	dicated hand Pure, Model,	etc.) By  N ) Avg  Light  Depth Of  Pump  Intake(ft)	Gas L  Per Purge  Cloud  Temp (°C)  23.1  23.1  23.1  23.1  23.1  23.1	PH (s.a) 6.89 6.86 6.86	Cond. (umnos) 1270 1250 1320 1330 1330	Turbidity (NTa)	Ter PVC ge Equip	Other ment De	econ <sup>*</sup> d?	
Submersible Deristaltic Pourging Equi Deurge Wtr Co Weather:  Actual Ela Time Ti 1040 1040 1050 1050 1050 1050 1050 1050	Pump De  Pum	dicated hand Pure, Model,	etc.) By  N ) Avg  Light  Depth Of  Pump  Intake(ft)	Gas L  pe Purge  Llow  Temp (°C)  23./ 23.7  23.1  23.1  23.1  33.6	PH (s.a) 6.89 6.86 6.86 6.95	Cond. (umhos) 1270 1380 1330 1330 1290	Turbidity (NTa)	Ter PVC ge Equip	Other ment De	econ <sup>*</sup> d?	
Peristaltic Pourging Equi Pourge Wtr Co Weather:  Actual Ela Time Ti 1040 1046 1100 1145 1129 1156	Pump De  Pum	dicated hand Pure, Model,	etc.) By  N ) Avg  Light  Depth Of  Pump  Intake(ft)	Gas L ge Purge 	PH (s.a) 6.89 6.86 6.86 6.95	Cond. (umnos) 1270 1380 1380 1380 1390 1390	Turbidity (NTa)	Ter PVC ge Equip	Other ment Do	econ <sup>*</sup> d?	

REV. DATE: MAY 199 Sample ID No.: MW 3-02-044 FICURE 5-6 b MONITORING WELL SAMPLING LOG WELL NO .: Installation By Bart Site: 40972 Project No.: HAZWRAP Contractor: Sample End: (Date) 4-17-91 Sample Start: (Date) 4-17-41 (Time) 1250 (Time) 1330 Orig SWL: 68.35 rt BTOC" Final SWL: 68.26 rt. BTOC 100\_It BTOC Screen Interval: Cond. Turbidity Temo Н Are parameters 20% 1340 of purge values? (YYN Repurge Y/A No. repurge volumes: \_\_\_\_ Sampling Method:
Submersible Pump Dedicated Bladder Pump Bladder Pump Bailer Centrifugal Pump Peristaltic Pump Hand Pump Gas Lift/ Displacement Pump Other \_ 12" Teflow bailer Sampling Equipment (Make, Model, etc.) \_\_ Sample Equipment Decon'd? (Y) N If pump or discrete bailer; Depth(s) where pump set: \_\_\_ I'L BTC Lab Analyses: (Circle) PEST/PCBS **CATIONS** SVOA ANIONS TD Others: \_ Metals: (Circle) Filtered Unfiltered Both Field Dups.: YY N Referee Dups.: Y /(N) Comments: chiphrates \*BTCC = Below Top of Casing (or other measurement reference point) SWL - Static Water Level

					CURE	5-6	~			10.11	REV. DATE	
	N 1 T A	DINA	WELL	0110	GINE .	06			WELL NO		MW3-02-01	(Pur De
_	allation		W C L L		GING L				Site: 7	<u> </u>	20-62	
_		ontract	oc /1		200.00		*			iect No	: 40174.07	1 12
		L (Date)			(Time)		ρ	urge End	(Date)	4/5	(Time)	1245
r	ged by:	Ges	منم	Doro	Name	(P)						
۷e	II Hdsp	ace/Odd	r: <u>u M</u> To Mea	sure Thi	ANL MT	nd Sam	IAPL (	Check e Produc	II Csg ID: ①/N) ct (Make, n	BNA	PL Check (	·
										een Inte	erval_Su/I	တ
)e	nth to	LNAPL:	ND	<u> </u>							Final DTW:	
		APL Th		454							ne: ##4	
		Weil				UV		nre Ja	indie and	VOIGH	ie	
		DTW:	_		_							
	•	Col. Thic		32 (x) 4	- 0.16 - 0.65 - 1.47 - 1.41	ais/ft (	=) <u>54,</u>	1 Gals	s/Csg Vol.	1 (x)( <b>3</b> )( 4 5	Sg Vol. (=) <u>VGZ</u>	. 3 Total Purge Gals.
	ristaiti	ic Pump		Hand Pur	_		_		nt Pump (1) 300 pum		Other	
թվ 	rge Wtr			? Ø/1	N) Avg	e Purge				_		ЮN
>լ 	rge Wtr				N) Avg	e Purge				(~15		ЮN
	rge Wtreather:		vols.	? (2)/ N Depth To Wtr	Depth Of Pump	e Purge				_		<b>⊗</b> N
- W	arge Wtreather:	Contai	nerized	? (2)/ N Depth To Wtr	N ) Avg	e Purge	Rate: _	Cond.	gpm Turbidity	(~15 ·	o <sub>F)</sub>	⊗ N
- VV	arge Wtreather: 0145 Actual Time	Contain S.,	vois. Purged (Gals)	Pepth To Wtr	Depth Of Pump	Temp	PH (s.a)	Cond.	gpm Turbidity (NTa)	(~15 ·	o <sub>F)</sub>	⊗ N
	Actual Time	Contain S.,	Vols. Purged (Gals)	Pepth To Wtr	Depth Of Pump	Temp (°C)	pH (s.a) 7.13	Cona. (umnos) //340 //360	gpm Turbidity (NTa)	(~15 ·	o <sub>F)</sub>	⊗ N
	arge Wtreather:  0145 Actual Time  0155	Contain S.,	Vols. Purged (Gals) PO YO	Pepth To Wtr	Depth Of Pump	Temp (°C) 22.3 22.1 27.9	PH (s.a) 213 3.12 3.12	Cona. (umnos) M 1340 1360	gpm Turbidity (NTa) 15.34 5.31 7.73	(~15 ·	o <sub>F)</sub>	Ø N
	arge Wtreather:  0145 Actual Time  0155 1004	Contain S.,	Vols. Purged (Gals) 70 70	Pepth To Wtr	Depth Of Pump	Temp (°C) 22.3 22.1 22.9	pH (s.a) 213 3.12 3.12 7.12	Cona. (umhos) 1340 1360 1360 1360	gpm Turbidity (NTa) 15.94 5.31 7.73	(~15 ·	o <sub>F)</sub>	⊗ ×
	arge Wtreather:  Attual Time  O155  O02  IO16	Contain S.,	Vols. Purged (Gals) PO YO	Pepth To Wtr	Depth Of Pump	Temp (°C) 22.9 22.9 23.0 22.1	pH (s.a) 7.13 7.12 7.12 7.12	Cona. (umhos) 1340 1360 1360 1360	gpm Turbidity (NTa) 15.31 5.31 7.33 2.15	(~15 ·	o <sub>F)</sub>	⊗ ×
7 7 7	rige Wireland State of the control o	Contain S	Vols. Purged (Gals) 70 70 60	Pepth To Wtr	Depth Of Pump	Temp (°C) 22.3 22.1 22.9	pH (s.a) 7.13 7.12 7.12 7.12	Cona. (umnos) 1340 1360 1360 1360 1360 1360	gpm Turbidity (NTa) 15.24 5.31 7.73 2.15 1.25 2.66	(~15 ·	o <sub>F)</sub>	⊗ ×
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	rge Wtreather: 0145 Actual Time 0147 0155 1006 1019 1040 1058	Contain S	vois. Purged (Gais) 70 20 40 60	Pepth To Wtr	Depth of Pump Intake(ft)	Temp (°C) 22.9 22.1 22.9 23.0 22.9	pH (s.a) 213 3.12 3.12 3.12 3.12 3.11	Cona. (umhos) 1340 1360 1360 1360 1360 1360	gpm Turbidity (NTa) 15.94 5.31 7.33 2.15 1.55 2.66 1.75	(~15 ·	o <sub>F)</sub>	⊗ ×
7 7 7	rige Wireland State of the control o	Contain S	Vols. Purged (Gals) 70 40 40 100 170	Pepth To Wtr	Depth Of Pump	Temp (°C) 22.8 22.9 22.9 23.0 22.1 23.0	pH (s.a) 3.13 3.17 7.17 7.12 7.11 7.11 7.10	Cona. (umnos) 1340 1340 1340 1340 1360 1360 1360	JS. 31 7. 33 2.15 1.55 2.66 1.75	(~15 ·	o <sub>F)</sub>	⊗ N

REV. DATE: 1	MAY I	990
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	·	•						Sample I	D No.: /	10-10-YW	
		WELL	PURE	ING L	06			WELL NO.	: MW	Y-01	
stallation			-	FALSON	W1 ***			Site: 4			
ZWRAP C			Contra	orin.	-64.5		Fod	Pro		401921.02.05	
rge Start: rged by:		7/4		(Time)		PU	rge Ena	(Dece)	1/8/91	(Time) (40	20_
epth Meas		t Ref. P	oint#		ا.د.			Csg 10:	2 (4	% Other_	
vell Hdspa	ce/Odor	:	NTD_	_	LN	APL C	heck (	(Y/N)	DNN	L Check (Y/I	#}
quipment	Used T	o Meas	ure Thic	ckness an	d Samp	le Free	Produc	t (Make, M	odel, et	<b>c)</b>	
	<u>S</u>	0L1~5	TIN	TRAPPICE	Pros	4	MODEL	121			
	_			D					en inter	val22.5 - 42	.5
epth to	LNAPL: .	<u>NP</u>	_	De	pth to (	MPC _		orig. DTW:	H- 43	_Final DTWD	<u> </u>
.NAPL/DN	APL Thi	ckness.	N,	P	LN/	VPL/DNA	PL Sar	mple and	Volum	e NA	
1easured				_							
-) Orig.				_							
				- 0.16					θ		
- 1 1400 E	al This	<b>.</b>	44 14	- 0.65	-1-404 4	. 16-1		16-a Mal 1	2	sg Vol. (=) <u>16. 1</u>	Total
• ) W(F (	.01. INIC	K.:	6'	' - 1.47 <sup>Ga</sup>	11/21E	اها_ (•	Gals	1/C3g Vol. (	(x) 2 C	sg Vol. (=)	<b>-</b>
			٩ <u>¾</u>	- 1,91					5		Gais.
Purge Met Submersit	noa: Die Pump	☐ Dec	licated E	Bladder Pu	mo[]	Bladder	سے ر	المسيمة	55	<b></b>	
					٠٠٠٠	Diedoe	Kruith [	Toeries. [⊼	-	Centrifugal Pum	인
									PVC		인
			land Purr	φ 🔲	Gas L	Ift/ Dis	olaceme	nt Pump	PVC	Other	
			land Purr	φ 🔲	Gas L	Ift/ Dis	olaceme	nt Pump	PVC		
Purging E	quipmen	Hat (Make	land Pum , Model,	rp 🔲 etc.)	6 <b>25</b> L 3 <b>t</b> ∴ d	Ift/ Disp	olacemer Garler	nt Pump [Pury	PVC	Other	
Purging E	quipmen Contair	it (Make	land Purr , Model, ———	etc.)	6 <b>25</b> L 3 <b>t</b> ∴ d	Ift/ Disp	olacemer Garler	nt Pump [Pung	PVC   ] ge Equip	Other ment Decon*d?	
Purging E	quipmen Contair	it (Make	land Purr , Model, ———	rp 🔲 etc.)	6 <b>25</b> L 3 <b>t</b> ∴ d	Ift/ Disp	olacemer Garler	nt Pump [Pung	PVC	Other ment Decon*d?	
Purging Ed Purge Wtr Weather:	contain	I Hake	Hand Purr , Model,	etc.)	Gas L 3 t : _ d	Ift/ Disp Rate:	olacemer Garler	nt Pump [Pung 	PVC   ] ge Equip	Other ment Decon*d?	
Purging Ed Purge Wtr Weather:	quipmen  Contain	nerized	model,	etc.)	Gas L 3 t : _ d e Purge	Rate: _	Cond.	nt PumpPung	PVC   ] ge Equip	Other ment Decon*d?	
Purging E Purge Wti Weather: Actual Time	quipmen Contain Sim Elapsed Time	it (Make merized) Vols. Purged (Gals)	hand Purr , Model, ? (1) h seasy Depth To Wtr	etc.)  I) Avg  Har  Depth Of  Pump  Intake(ft)	Gas L 3 to compe e Purge Temp (°C)	Rate:	Cond.	S gpm Turbidity (NTa)	PVC   ] je Equip	Otherment Decon*d?	
Purge Wtr Weather: Actual Time	Contain S ===================================	Vois. Purged (Gals) 2.5	model,	etc.)  I) Avg  Har  Depth Of  Pump  Intake(ft)	Gas L 3 to the Purge Temp (PC)	Rate:	Cond.	Turbidity (NTa)	PVC   ] je Equip	Otherment Decon*d?	
Purging Education Purge Wtr Weather:  Actual Time  0900  0905	Contain S == Elapsed Time	Vols. Purged (Gals) 2.5 5.0	hand Purr , Model, ? (1) h seasy Depth To Wtr	etc.)  I) Avg  Har  Depth Of  Pump  Intake(ft)	Gas L 3 ½ :	PH (S.a) 6.42-	Cond. (umnos) 7828	Turbidity (NTa) 145.1	PVC   ] je Equip	Otherment Decon*d?	
Purging E Purge Wtr Weather: Actual Time Ogoo Ogos Ofoc	Contain S == Elapsed Time	Vois. Purged (Gals) 2.5	hand Purr , Model, ? (1) h seasy Depth To Wtr	etc.)  I) Avg  Har  Depth Of  Pump  Intake(ft)	Gas L 3 to the Purge Temp (PC)	PH (S.a) 6.42-	Cond.	Turbidity (NTa)  17.0  195.1  720	PVC   ] je Equip	Otherment Decon*d? (3)  Camment	
Purging Education Purge Wtr Weather:  Actual Time  0900  0905  0106  0715	Contain S == Elapsed Time	Vois. Purged (Gals) 2.5 5.0 (D.0	hand Purr , Model, ? (1) h seasy Depth To Wtr	etc.)  I) Avg  Har  Depth Of  Pump  Intake(ft)	Gas L 3 t :	PATE:	Cond. (umnos) 7826 7830	Turbidity (NTa)  17.0  145.1  7180	PVC   ] je Equip	Otherment Decon*d?	
Purging Education Purge Wti Weather:  Actual Time  Ogoo  Ogos  Oioc  Oris  Ogo3	Contain S == Elapsed Time	Vols. Purged (Gals) 2.5 5.0	hand Purr , Model, ? (1) h seasy Depth To Wtr	etc.)  I) Avg  Har  Depth Of  Pump  Intake(ft)	Gas L 3 t :	PH (S.a) 6.42-	Cond. (umnos) 7826 7830	Turbidity (NTa)  17.0  195.1  720	PVC   ] je Equip	Otherment Decon*d? (3)  Comment  Pusces Day	
Purging Ending With Weather:  Actual Time  Ogoo  Ogos  Ofoc  Ogras  Ogras  Ogras  Ogras  Ogras	Contain S == Elapsed Time	Vois. Purged (Gals) 2.5 5.0 10.0	Depth To Wtr (ft)	etc.) etc.) etc.)  Avg  Har  Depth Of  Pump  Intake(ft)  AA	Gas L 3 t :	PATE:	Cond. (umnos) 7826 7830	Turbidity (NTa)  17.0  145.1  7180	PVC   ] je Equip	Otherment Decon*d? (2)  Comment  Pusces Day	
Purging Education Purge Wti Weather:  Actual Time  0900  0905  0106  0115  0923  093  1400	Contain Same	Vois. Purged (Gals) 2.5 5.0 (D.0	Depth To Wtr	etc.)  I) Avg  Har  Depth Of  Pump  Intake(ft)	Gas L 3 t :	PATE:	Cond. (umnos) 7826 7830	Turbidity (NTa)  17.0  145.1  7180	PVC   ] je Equip	Otherment Decon*d? (3)  Comment  Pusces Day	
Purging Ending With Weather:  Actual Time  Ogoo  Ogos  Ofoc  Ogras  Ogra	Contain S == Elapsed Time	Vois. Purged (Gais) 2.5 5.0 10.0	Depth To Wtr	etc.) etc.) etc.)  Avg  Har  Depth Of  Pump  Intake(ft)  AA	Gas L 3 t : _ d e Purge Temp (°C) 25.3 25.2 15.1	PH (s.a) 6.92-7.13	Cond. (umnos) m 2828 2830 2910	Turbidity (NTa) 97.0 145.1 720 H	PVC   ] je Equip	Other	N V
Purging Education Purge Wti Weather:  Actual Time  0900  0905  0106  0115  0923  093	Contain S == Elapsed Time	Vois. Purged (Gals) 2.5 5.0 10.0	Depth To Wtr	etc.) etc.) etc.)  Avg  Har  Depth Of  Pump  Intake(ft)  AA	Gas L 3 t :	PH (s.a) 6.92-7.13	Cond. (umnos) 7826 7830	Turbidity (NTa) 97.0 145.1 720 H	PVC   ] je Equip	Other	A V
Purging Ending With Weather:  Actual Time  Ogoo  Ogos  Ofoc  Ogras  Ogras  Ogras  Ugoo  Ugoo  Ugoo  Ugoo  Ugoo  Ugoo  Ugoo  Ugoo  Ugoo  Ugoo  Ugoo  Ugoo  Ugoo  Ugoo  Ugoo	Contain S == Elapsed Time	Vois. Purged (Gais) 2.5 5.0 10.0	Depth To Wtr	etc.) etc.) etc.)  Avg  Har  Depth Of  Pump  Intake(ft)  AA	Gas L 3 t : _ d e Purge Temp (°C) 25.3 25.2 15.1	PH (s.a) 6.92-7.13	Cond. (umnos) m 2828 2830 2910	Turbidity (NTa) 97.0 145.1 720 H	PVC   ] je Equip	Other	A V

REV. DATE: MAY 1990 Sample ID No.: MWY-01-01 MONITORING WELL SAMPLING LOG WELL NO : MUSY -OL Site: 4 Installation PAPER MILLTON PESSANTANI Project No.: 407721.02.05 HAZWRAP Contractor: IT Contraction Sample Start: (Date) 4/9/ti (Time) /345 Sample End: (Date) 4/5/41 (Time) Sampled by: Green Boro Tibush Orig SWL: 34.43 It BTOC" Final SWL: DRY IL BTOC Screen Interval: Zl Well By collect collect semple field pera Cond. Turbidity Temo рH Are parameters 20% of purge values? Y/N Repurge Y/N No. repurge volumes: \_\_\_ Sampling Method: Submersible Pump Dedicated Bladder Pump Bladder Pump Baller V Tef V Centrifugal Pump PVC Peristaltic Pump Hand Pump Gas Lift/ Displacement Pump Other\_ Sampling Equipment (Make, Model, etc.) \_\_\_ Sample Equipment Decon'd? (Y)/ N If pump or discrete bailer; Depth(s) where pump set: \_\_\_\_ JL BTOC Weather: Sunar Breez Hot Lab Analyses: (Circle) METAL! PEST/PCBS (TPH) CATIONS **ANIONS** TDS Metals: (Circle) (Filtered) Unfiltered Both Field Dups.: Y/(N) Referee Dups.: Y /N) Comments: Smurter was collased on 4/8/21 1400 rem (MW4-01-01) (OC-EL22) AT 1418 Mans. THE DELAY BETWEEN INK DUE TO EXTREMENT LOW PERHAMIS RATES wen. "BTOC - Below Top of Casing (or other measurement reference point) SWL - Static Water Level

REV. DATE: MAY 1990

	Sample ID No.: MWY- 02-01
MONITORING WELL PURGING LOG	WELL NO : MW4-02
Installation ST PANS MINITER PROGRAMME	Site: 4
HAZWRAP Contractor: LT Consecutions  Purge Start: (Date) 4/4/4: (Time) 1020 Purge E	Project No.: 409421.02.05 End: (Date) 4/4/4/ (Time) March
Purged by: GARDIN Born Trans	End: (Date) 4/4/4/ (Time) 1400
Depth Measurement Ref. Point 4	Well Csg ID: 2" (4) 6" Other
Well Hdspace/Odor: L NAPL Check	DNAPL Check (Y/N)
Equipment Used To Measure Thickness and Sample Free Pro-	_
SOLINGT INTERFACE PARE MODEL 1	• • • • • • • • • • • • • • • • • • • •
	ottom of Screen interval
	Common Screen interval 7/00  Cong. DTW: 24.44 Final DTW: DRY
LNAPL/DNAPL Thickness ND LNAPL/DNAPL	Sample and Volume: NA
Measured Well TD: 44,40	
(-) Orig. DTW: <u>27.44</u>	_
2* - 0.16	Ď
(=) Wtr Col. Thick: 16.96 (x) 4 - 0.65 Gals/ft (=) 32.4 G	2 Total Gals/Csg Vol. (x) 3 Csg Vol. (=) 32, 4 Purge
6 - 1.47	Sais/Cag voi. (x) 3 (csg voi. (=) <u>32, 7</u> Purge 4 Gais.
9 <u>%' - 1,91</u>	5 Gais.
Purge Method:	<del>ss</del> 🗆
Submersible Pump Dedicated Bladder Pump Bladder Pump	D Bailer ☑ Tef Centrifugal Pump
	PVC A
Peristaltic Pump Hand Pump Gas Lift/ Displace	_ ~ _
414	
Purging Equipment (Make, Model, etc.)	Purge Equipment Decontd?
Purge Wtr Containerized? (Y) N) Avge Purge Rate:	gpm
Weather: Swall Bleser, HOT	(~90 °F)
14-1	
Vole   Death   Death Of	
Actual Elapsed Purged To Wir Pump Temp pH Com	os (UTDIGITY) Other Comment
Actual Elapsed Purged To Wtr Pump Ph Continuation (Gals) ((t) Intake((t)) (C) (s.a)	Other Comment
Actual Flapsed Time (Gals) Vols. Depth Depth Of Pump Pump (Gals) (ft) Intake(ft) (PC) (s.a) (m) (D30 / M 2.5 23.44 NA 26.6 7.65 108	O GL.
Actual Elapsed Time Vols. Depth Depth Of Pump Intake(ft) Pump	O 61.1  10 130.3
Actual Time   Vols.   Depth   Depth Of Pump   Temp   pH   Confurch   Time   (Gais)   (ft)   Intake(ft)   (PC)   (s.a)   m	100 (NTa) Other Comment 100 (82.1
Actual Flapsed Purged To Wtr (Gals) (Pt)   Depth Of Pump   Temp   pH (umh (Ft) (Pt) (Pt)   Intake(ft) (Pt) (S.a) (Intake(ft) (Pt) (Pt) (S.a) (Intake(ft) (Pt) (Pt) (S.a) (Intake(ft) (Pt) (Pt) (Intake(ft) (Pt) (Pt) (Intake(ft) (Pt) (Pt) (Intake(ft) (Pt) (Pt) (Intake(ft) (Pt) (Pt) (Intake(ft) (Pt) (Pt) (Intake(ft)	100 (NTa) Other Comment  100 (82.1)  100 (130.3)  100 (100.4)  100 (151.1)
Actual Flapsed Purged To Wtr (Gals) Purged (Gals) Purged Intake(ft) Pump Intak	100 (NTa) Other Comment  100 82.1  100 130.3  100 151.1  100 15.1
Actual Flapsed Purged To Wtr 10 Pump   Temp   pH   Confurcion   (Gals)   (ft)   Intake(ft)   (PC)   (s.a)   m   (ft)   Intake(ft)   (PC)   (s.a)   m   (ft)   Intake(ft)   (ft)   Intake(ft)   (ft)   Intake(ft)   (ft)   (ft)   Intake(ft)   (ft)   (ft)   Intake(ft)   (ft)   (ft)   Intake(ft)   (ft)   100 (NTa) Other Comment  100 (82.1)  100 (130.3)  100 (100.4)  100 (154.1)  100 (100.8)  100 (100.8)  100 (100.8)	
Actual Elapsed Purged To Wtr (ft) Intake(ft) Pump (PC) (s.a) Purged Time (Gals) (ft) Intake(ft) Pump (PC) (s.a) Purged Time (Gals) (ft) Intake(ft) Pump (PC) (s.a) Pump (PC) (s.a) Pump (PC) (s.a) Pump (PC) (s.a) Pump (PC) (s.a) Pump (PC) (s.a) Pump (PC) (s.a) Pump (PC) (s.a) Pump (PC) (s.a) Pump (PC) (s.a) Pump (PC) (S.a) Pump (PC) (	100 (NTa) Other Comment  20 82.1  20 130.3  20 100.4  20 154.1  20 10.8  20 19.8  20 19.8  20 19.1
Actual Flapsed Purged To Wtr 10 Pump   Temp   pH   Confurcion   (Gals)   (ft)   Intake(ft)   (PC)   (s.a)   m   (ft)   Intake(ft)   (PC)   (s.a)   m   (ft)   Intake(ft)   (ft)   (ft)   Intake(ft)   (ft)   (ft)   Intake(ft)   (ft)    100	
Actual Elapsed Time (Gals) (II) Depth Of Pump (PC) (S.a) Purged Time (Gals) (II) Intake(II) Pump (PC) (S.a) Pump (II) Intake(II) Pump (PC) (S.a) Pump (III) Pump (PC) (S.a) Pump (III) Pump (III) Pump (PC) (S.a) Pump (III)	100 (NTa) Other Comment  20 82.1  20 130.3  20 100.4  20 154.1  20 10.8  20 19.8  20 19.8  20 19.1
Actual Flapsed Purged To Wtr (ft)   Depth Of Pump   Pump   Temp   pH (umh m)   (ft)   Intake(ft)   (ft)   Intake(ft)   (ft)   (ft)   Intake(ft)   (ft)   (ft	100 (NTa) Other Comment  20 82.1  20 130.3  20 100.4  20 154.1  20 10.8  20 19.8  20 19.8  20 19.1
Actual Elapsed Time (Gals) (II) Depth Of Pump (PC) (S.a) Purged Time (Gals) (II) Intake(II) Pump (PC) (S.a) Pump (II) Intake(II) Pump (PC) (S.a) Pump (III) Pump (PC) (S.a) Pump (III) Pump (III) Pump (PC) (S.a) Pump (III)	100 (NTa) Other Comment  20 82.1  20 130.3  20 100.4  20 154.1  20 10.8  20 19.8  20 19.8  20 19.1

REV. DATE: MAY 1990 Sample ID No.: Awy-02-01 WELL NO : MWY - 02 MONITORING WELL SAMPLING LOG Site: 4 Installation Parks MILITAY RECEVATION Project No.: 409 721.02.05 HAZWRAP Contractor: IT CORROR ATTEN Sample End: (Date) 4/4/41 Sample Start: (Date) 4/4/4/ GARDIN BOTO / Transki Sampled by: Orig SWL: 27. WITE BTOC" Final SWL: DET IL BTOC TA ZH - 44 IL BTOC Cond. Turbidity Temp Are parameters 20% of purge values? 1000 7.3 283 7.54 Repurge Y (N) No. repurge volumes: \_\_\_\_\_ Sampling Method:
Submersible Pump Dedicated Bladder Pump Bladder Pump Bailer Ter Centrifugal Pump PVC [ Peristaltic Pump Hand Pump Gas Lift/ Displacement Pump Other\_ Sampling Equipment (Make, Model, etc.) \_\_\_ Sample Equipment Decon'd? (V) N Weather: Sugar, BASSET HOT (~ 90 °F) Lab Analyses: (Circle) PEST/PCBS CATIONS **ANIONS** TDS Metals: (Circle) Filtered\_ Unfiltered Both Y/100 Referee Dups.: Field Dups.: Comments: FINISHED SAMON AT 1400

\*BTOC = Below Top of Casing (or other measurement reference point)

SWL - Static Water Level

			CURE	5-6	-				REV. DATE: FV	
							Sample	ID No.:	mw4-02-c	1
ONITORING							WELL N	<u>): W 7</u>	24-02	
	ry Barb		Coordia	ites			Site:	4		
AZWRAP Contra urge Start: (Det			Time) (	<u> </u>	5 6	roe For	· (Date)	4-16	0: 407921	
urged by: 50		20 ny	(Time)	9 17	<u> </u>	ur ye cirk	. (Dete)	7-/6	<u>-4\</u> (Time) //≥	$\mathcal{Q}$
Depth Measurem Well Hospace/Od Equipment Used	ent Ref.	Point*_ - りり	<u> </u>	LN	AF.	Check	<b>(</b> ∕√N)	DNA		<b>D</b> )
Depth to LNAPL			D	epth to	DNPL: _	NA	Orig. DTW2	27.70	erval 24'+0 44' D Final DTW:	
.NAPL/DNAPL T			<u> </u>	LN	APL/DN/	APL Sa	imple and	Volum	ne:	
Measured Well			_							
Purge Method: Submersible Pur Peristaltic Pum	np De	S (x) 6  a y  edicated	Bladder Pu	.mp 🔲 Gas L	Bladder	Pump [	Bailer 🔀	4 5 SS Ter PVC		
Purge Wtr Conta	inerized	1? (Y) / I						65°		y N
Actual Elapse Time Time	Vois. Purged (Gais)	To Wtr	Depth Of Pump Intake(ft)	Temp	pH (5.2)	Cond. ( <u>umhos</u> )	Turbidity (NTa)	Other	Comment	
0800	_							-		
0801				25.2	696	14-0	.5?			
1 080 H	1 .			25.9	6158	low	60.5			
0805	6									
	10			25.7	659	1020	62.7		<u> </u>	
080S	т-			25.7 25.4	659 654					
0805 6810 0815	10			25.7 25.4 25.9		1040	62.7 60.0 25.0			
0805 0815 0823	10				6.54	1040	60.0 25.0		Well some dry	
୦୫୦ S ୧୯୯୯ ୦୭ IS ୦୭୦ ସ ୯୭୦ ସ	10 14 20 25			25.9 25.)	6.54 6.58 6.51	1040 1020 18 <del>0</del> 0	60.0 25.0 17.5		well going dry	•
0805 0815 0823 0823 0821	10 14 20 25 29			25.9 25.) 26.0	6.54 6.58 6.51 7.06	1040 1020 18 <del>0</del> 0 1050	60.0 25.0 17.5 11.00		well going du	
0805 0815 0823 0823 0920	10 14 20 25			25.9 26.0 26.8 26.8	6.54 6.78 6.51 7.06 7.01	1040 1020 1800 1050	60.0 25.0 17.5 11.50		` ' )	
0805 0815 0823 0823 0828	10 14 20 25 29			25.9 26.0 26.8 26.8	6.54 6.58 6.51 7.06	1040 1020 18 <del>0</del> 0 1050	60.0 25.0 17.5 11.50		well going dry	
0805 0815 0823 0823 0920	10 14 25 25 29 35	Day Day 2		25.9 26.0 26.8 28.8 27.2	6.54 6.78 4.51 7.06 7.01 6.96	1040 1020 1800 1050 1051 960	60.0 25.0 17.5 16.50 10.50 9.50	OC)	` ' )	

REV	DATE:	MAY	1000
- T			-

	•						Sample	ID No.:	MW.	5-01-01	
10NITORING							WELL NO	: 5	Mus	-01	
		An	K BACE					5			
IAZWRAP Contrac	tor:	56.	(Time)	-	Da e	rge End:		ject No.		(Time)	
ourged by: GA					Fu	As CINT	(Date)	4/3/	И	(Time)	•00
Depth Measureme	ent Ref. F	Point#	7.0	). کــ			Csg ID:	2 (2	f) 6°	Other_	
Well Hdspace/Od	10r: <u>~^</u>	<u> </u>		LN	APL C	heck (	$\mathfrak{O}(N)$	-DNA	PL (	heck (Y	<del>/N)-</del>
Equipment Used العمامة			ckness ar				-	lodel, et	.c)		
								en inte	rval	50/10	0
Depth to LNAPL	<u>. ND</u>									I DTW: 3	
LNAPL/DNAPL T	-		ID ¥ 4.5-	LN	NPL/DNA	PL Sar	mple and	Volum	e:	NA	
Measured Well	TD:	4-22, 99	<u>.</u> 74	•							
( - ) Orig. DTW:			-								<b>4</b>
4		74 4	r - 0.16 r - 0.65			<b>7</b> ⊶-5		1 2		153.	
( = ) Wtr Col. Th	ick.: _ <del>Etc</del>	<del>363-</del> (x) 7 6	" - 1.47 <sup>(3)</sup>	ais/ft (	-15 (	Sals	/Csg Vol.	(x) <b>②</b> C	sg Vol.	(=) [23	
	الم يوسع	नः ५ <u>४</u>	- 1.71					5			Gals.
Purge Method:								SS			
Submersible Pun	no 🔲 De	dicated	Bladder Pu	mp 🔲 i	Bladder I	Pump [	]Bailer[		☐ Ce	ntrifugal Pa	ump 🔲
								PVC			_
Peristaltic Pump	P 🔲 +	tand Pun	no 🔲	Gas L	Ift/ Disp	lacemen	it Pump [V	1	Other	`	
Purging Equipme	 ent (Make	, Model,	etc.)_ß			_		_		Decon*d? (	7)/N
								_ =			٠ر
Purge Wtr Conta	inerized	? (Y)	N) Avg	e Purge	Rate:	N 2	apm				
Weather:Su	אייאין,	Work	<u>, Be</u>	£ 77				المخطامه	0 <sub>F)</sub>		
A a	Vols.	Depth	Depth Of	7		Cond.	Tombour.		<u></u>		7
Actual Elapse Time Time	Purged	To Wtr	Pump	Temp (OC)	pH (s.a)	(umhos)	Turbidity (NTa)	Other	c	Comment	
1343 15		}3.e0	intake(ft)	23.1		1230	11.89			· · · · · · · ·	$\dashv$
1348	20	1,5.0	,	22.7		1250	7.03				-
1600	40			22.8		1250	7.10	-	<b> </b>		1
	60			22.7		1240	2.12		<b>-</b>		7
I ILIO I		1		22.6		1240	1.12				_
1621	90	E .					1.08		<del></del>		-
	100			22.4	7.13	IL $101$	1.00	l.			
1621										<del></del>	-
1621	120			22,7	7.14	1240	0.44				=
1621 1654 1704 1915	100			22, <del>3</del> 27,5	7.14	1240 1240	0.44				
1621	100 120 140		95	22,7	7.14	1240	0.44				
1621 1654 1704 1915	100 120 140			22, <del>3</del> 27,5	7.14	1240 1240	0.44				

REV. DATE: MAY 1990 Sample ID No.: MW5-01-01 MONITORING WELL SAMPLING LOG WELL NO: MW5-01 Installation: Say Harris ANG BASE Project No.: 409721-02.05 HAZWRAP Contractor: IT Conconstient Sample End: (Date) 4/3/4 Sample Start: (Date) '4/3/c; (Time) 1740 BYD / TYBUREN Sampled by: Great Orig. SWL: 73.00 It BTOC" Final SWL: 72.98 IL BTOC Screen Interval: 50 - 100 rt BTOC Cond. Turbidity Temp HQ Are parameters 20% 23.3 7.15 1240 31.5 of purge values? (1) N Except Thready Repurge Y AU No. repurge volumes: \_\_\_\_\_ Sampling Method:
Submersible Pump Dedicated Bladder Pump Bladder Pump Bailer Tef Centrifugal Pump Peristaltic Pump 🔲 Hand Pump 🔲 Gas Lift/ Displacement Pump Other\_ Sampling Equipment (Make, Model, etc.) 1 4 " Teffon Bancar Sample Equipment Decon'd? (Y)/ N \_ft\_BTOC If pump or discrete bailer; Depth(s) where pump set: \_\_\_\_\_\_ Weather Sunny Bracer With (~ 85 °F) Lab Analyses: (Circle) SVOA PEST/PCBS TPH CATIONS ANIONS TDS VOA METALS) Others NITERIE NIPLITE Metals: (Circle) (Filtered Unfiltered Both YIN YAN Referee Dups.: Field Duos.: Comments: AT 1745. COLEGES EDWA RINKATE (ALSO AT CALLERS SAMPLES AT THIS WELL #BTOC - Below Top of Casing (or other measurement reference point) SWL - Static Water Level

		, ,	CURE							V. DATE	
	•						Sample	ID No.:	mus	2-01-	OLA
ONITORING							WELL N	D.: M	w57	2]	
stallation:			Coordin	ates .			Site:	a cook No			
AZWRAP Contrac urge Start: (Date			(Time)			roe Foo	(Date)	Ject No	<u>.: 40</u>	29721 (Time)	
		2000	Cm	L. L	an		. (0000)	7.76	41	(Time)	/333
			<u> </u>								
epth Measurem							II Csg ID:	_		Other,	
well Hdspace/Oc		D					<b>((N</b> )	DNA		neck (	Y / 🚱
quipment Used	To Meas	sure Thi	ickness a	nd Samı	ple Free	e Produc	t (Make, 1	10del, et	.c)		
Solin	47	weer	face !	Probe							
			0	epth to	Top a	nd Botto	m of Scr	een inte	rval	50/10	D
Depth to LNAPL	. NA						Orlg. DTW:				
NAPL/DNAPL T							mple and				
Measured Well				5.0	-1. C. O. O.	W. C. 00	inpic dia	VOIGII	16	·····	·
		8,95	-								
(-) Orig. DTW:			_					1			
			2" - 0.16 E - 0.65			_		2			. Tot
= ) Wtr Col. Th	lck.: <u>30.</u>	<u> </u>	. 0.03 G	als/ft (	<u>-) 58.</u>	S Gals	s/Csg Vol.	(XO)C	sg Vol. (	(=)	16 pur
			- 1.47 6"- 1.91					4			Gal
		_						5			
Purge Method:								SS			
Pulye i retirou.				_		_					
Submersible Pun	no 🔲 De	dicatedi	Bladder Pu	ump 🔲	Bladder	Pump [	]Bailer[		Cent	trifugali	Pump 🔲
Submersible Pun	no 🔲 De	dicated	Bladder Po	ump 🔲	Bladder	Pump [	Bailer [		Cent	trifugali	Pump[
Submersible Pun	_							Tef PVC	Cent Other	trifugal	Pump 🗌
Submersible Pun Peristaltic Pump	- - 🗆 '	Hand Pun	np 🔲 _	Gas L	Ift/ Dis	placeme	nt Pump (	Tef PVC	Other.		
Submersible Pun Peristaltic Pump	- - 🗆 '	Hand Pun	np 🔲 _	Gas L	Ift/ Dis	placeme	nt Pump (	Tef PVC	Other.		
Submersible Pun Peristaltic Pump Purging Equipme	ent (Make	Hand Pun	np	Gas L	irt/Disi	placeme	nt Pump S	Tef PVC    Quad Point    Quad Point    Quad Point    Poin	Other.		
Submersible Pun Peristaltic Pump Purging Equipme	ent (Make	Hand Pun , Model, ————————————————————————————————————	etc.)	Gas L <u>Connl</u>	Ift/ Dis H P.	placement of the second of the	nt Pump S	Ter PVC    Q ge Equip	Other ,		
Submersible Pun Peristaltic Pump Purging Equipme Purge Wtr Conta	ent (Make	Hand Pun , Model, ————————————————————————————————————	etc.)	Gas L	Ift/ Dis H P.	placeme mp	nt Pump S	Tef PVC    Quad Point    Quad Point    Quad Point    Poin	Other ,		
Peristaltic Pump Purging Equipme Purge Wtr Conta	ent (Make	Hand Pun	etc.)	Gas L	Ift/ Dis H P. Rate: _ H u	placeme mp	Pump N	Ter PVC	Other ment De	con*d?	
Submersible Pun Peristaltic Pump Purging Equipme	ent (Make	Pand Pun P. Model, P. Mode	etc.)	Gas L.	Ift/ Dis H P.	placeme mp	nt Pump S	Ter PVC    Q ge Equip	Other ment De		
Peristaltic Pump Purging Equipme Purge Wtr Conta Weather:	ent (Make	Pand Pun P. Model, P. Mode	etc.)	Gas L.	Ift/ Dis H P. Rate: _ H L	laceme	purp purp purp purp purp purp purp purp	Ter PVC	Other ment De	con*d?	
Peristaltic Pump Purging Equipme Purge Wtr Conta Weather:  Actual Elapse Time Time	ent (Make	Pand Pun P. Model, P. Mode	etc.)	Gas L.	Rate:	Cond.	Pump Pump Pump Pump Pump Pump Pump Pump	Ter PVC	Other ment De	con*d?	
Peristaltic Pump Purging Equipme Purge Wtr Conta Weather:  Actual Elapse Time	ent (Make ainerized Cartly Vois. Purged (Gais)	Pand Pun P. Model, P. Mode	etc.)	Gas L Conne e Purge Temp (°C)	Rate:	Cona.	Pump Pump Pump Pump Pump Pump Pump Pump	Ter PVC	Other ment De	con*d?	
Peristaltic Pump Purging Equipme Purge Wtr Conta Weather:  Actual Elapse Time 1350 1400	vois. Purged (Gais)	Pand Pun P. Model, P. Mode	etc.)	Gas L Conne e Purge Temp (°C)	Rate:	Cona.	gpm  Turbidity (NTa)	Ter PVC	Other ment De	con*d?	
Peristaltic Pump Purging Equipme Purge Wtr Conta Weather:  Actual Elapse Time Time 1355 1400 14/4 1725	ent (Make	Pand Pun P. Model, P. Mode	etc.)	Gas L Conne e Purge Temp (°C)	Rate:	Cona. (umhos)  1390	gpm Turbidity (NTa)	Ter PVC	Other ment De	con*d?	
Peristaltic Pump Peristaltic Pump Purging Equipme Purge Wtr Conta Weather:  Actual Elapse Time 1350 1400	vois. Purged (Gais)	Pand Pun P. Model, P. Mode	etc.)	Gas L Conne e Purge Temp (°C)	PRATE:	Cona. (umhos)	gpm Turbidity (NTa)	Ter PVC	Other ment De	con*d?	
Peristaltic Pump Peristaltic Pump Purging Equipme Purge Wtr Conta Weather:  Actual Elapse Time 1350 1400 1474 1725	vois. Purged (Gais)	Pand Pun P. Model, P. Mode	etc.)	Gas L Conne e Purge Temp (°C)	PRATE:	Cond. (umhos) 1290 1280 1280 1280	gpm  Turbidity (NTa)	Ter PVC	Other ment De	con*d?	
Peristaltic Pump Peristaltic Pump Purging Equipme Purge Wtr Conta Weather:  Actual Elapse Time 13-50 1400 14/4 1425 1426 1449	vois. Purged (Gais)  20  40  Colored C	Pand Pun P. Model, P. Mode	etc.)	Gas L Conne e Purge Temp (°C)	PH (5.a)  6.22  6.89  6.86  6.85	Cond. (umhos) 1290 1280 1280	gpm Turbidity (NTa)	Ter PVC	Other ment De	con*d?	
Peristaltic Pump Peristaltic Pump Purging Equipme Purge Wtr Conta Weather:  Actual Elapse Time 1350 1400 1414 1425 1436 1449 1459	vois. Purged (Gais)  40  40  100  100  100  100  100  100	Pand Pun P. Model, P. Mode	etc.)	Gas L Conne e Purge Temp (°C)	PATE:	Cona. (umhos)   1290   1280   1250   1250	gpm Turbidity (NTa)	Ter PVC	Other ment De	con*d?	
Peristaltic Pump Peristaltic Pump Purging Equipme Purge Wtr Conta Weather:  Actual Elapse Time 13-55 1400 14/4 1425 1425 1449	vois. Purged (Gais)  40  Vois 100  V	Pand Pun P. Model, P. Mode	etc.)	Gas L.  2000 10 10 10 10 10 10 10 10 10 10 10 10	PH (s.a)  6 9 2  6 9 4  6 8 6  6 8 6  6 8 6  6 8 7  6 8 8 6  6 8 8 6  6 8 8 6  6 8 8 6  6 8 8 6  6 8 8 6  6 8 8 6  6 8 8 6	Cona. (umhos)   1290   1280   1250   1240	gpm gpm turbidity (NTa)	Ter PVC	Other ment De	con*d?	

	- REV. DATE: MAY 199
FILURE 5-6	Sample ID No.: M W ≤ -DI -O/A
MONITORING WELL SAMPLING LOG	WELL NO: MW5-01
Installation: Sky Markor Coordinates	Site: 5
HAZWRAP Contractor: +7 Cong	Project No.: 40 9721
Sample Start: (Date) 4-12-91 (Time) 1345	Sample End: (Date) 4-16-91 (Time) /605
Sampled by: John Royal, Curdie Nor	
Orig. SWL: <u>68.95</u> rt BTOC** Final SWL: <u>68.</u> Screen Interval: <u>50</u> - 100 rt B	
Temp pH Cond. Turbidity  23.5 6.90 1217 6.34	Are parameters 20% of purge values? Of / N
	Repurge Y/(D)
	No. repurge volumes:
	No. Tepa ge Volumes.
Sampling Method: Submersible Pump Dedicated Bladder Pump B	SS   Centrifugal Pump   PVC
Peristaltic Pump	hlon Baller
If pump or discrete baller; Depth(s) where pum	
Weather: Coudy Humis	85°F)
Lab Analyses: (Circle)	
Others Dutracto / The Pest/PCE	3S TPH CATIONS ANIONS TO
Others:	<u> </u>
Field Dups.: Y/ N Referee Du	•
Comments:	wate samples Jaken
Brusate - 1630	at 1545
*BTCC = Below Top of Casing (or other measurer SWL = Static Water Level	ment reference point)

MONITO										REV. DATE: M	AT 195
70NI10	01116	WELL	0.110	6 1 N 6 1	0.6			Sample	ID No.:	MWS-01-02	
nstal latio					00			WELL NO	r: Wr	US-01	
IAZWRAP (	Contract			bamo~						409721.02.0	244_
runge Star	t: (Dete)	6/2	The c	(Time)		P	urge End	(Date)	6/25/4	(Time) 16	16
orged by:	GAN	INCEA	SAN	244							1.3
Depth Mea	sureme	nt Ref. I	Point#_		<u> 2.C.</u>		We	II Csg ID:	2 6	6 Other	
								(D/N)	-BNA	Pt Check ( Y /	· N )
Equ:pment	t Used 1	To Meas	sure Thi	ckness ar	nd Sam	ple Fred	Produc	t (Make, h	10del, et	ic)	
	<u> So -</u>	MAT	LNTE	eme ?	Peace	Moi	کور				
				מ	eoth to	Too a	nd Botto	om of Som	een inte	mal ~ 50 /100	
Depth to	LNAPL:	ND								Final DTW: 7	
LNAPL/DN										e. <u>NA</u>	
Measured		-				MPL/UN/	NPL 38	imple and	volum	E	
		_	2. 98								
(-) Orig	, DIW.										
		_	4	7 - 0.16 7 - 0.65		_			2		Tatal
( - ) Wtr	Col. Thic	:x::2	رx) يُور	G	als/ft (	<u>-) 51.</u>	그_ Gal:	S/Csg Vol.	(X) 3)C	sg Vol. (=) <u>~1.5.4</u>	l Ocal Purne
				<del>== 1.47</del> <u>}                                    </u>	>				4	•	Gals.
									5		
Purge Met		_					_	_	<u>ss</u>		
Submersi	ble Pump	ᇉᅄ	dicated i	Biadder Pu	mo[]	Bladder	Pump [	_Bailer [	] Tef	Centrifugai Pun	
									PVC		
Peristait	ic Pumo			_							
			eano pun	no l	Gas L	Ift/ Dis	niaceme	ot Pumo [i	ズ	Other	
								nt Pump [	_	Other	<u></u>
								_	_	Other	D/ N
Purging E	quipmen	it (Make	, Model,	etc.)[3	EANE	n Mo	السك	200 Pun	_		<u></u>
Purging E	quipmen	it (Make	, Model, 	etc.)	EANE	n Mo	السك	200_Pun	ge Equip	ment Decon'd?	)/ N
Purging E	r Contai	it (Make	, Model, 	etc.)	EANE	n Mo	السك	200_Pun	ge Equip		)/ N
Purging E Purge Wt Weather:	r Contain	nerized	, Model,	etc.) B	e Purge	Rate:	v 2	Pun gom	ge Equip	ment Decon <sup>*</sup> d? (	—— О/ N
Purging E Purge Wt Weather:	r Contain	nerized	, Model,	etc.)	e Purge	Rate:	v 2	200_Pun	ge Equip	ment Decon'd?	D/ N
Purge Wt Weather: 14 02 Actual	Contain Stand	vols. Punged (Gels)	, Model,	etc.) 3 Horas Depth Of Pump Intake(ft)	e Purge	Rate:	v 2	gpm Turbidity (NTa)	ge Equip	ment Decon <sup>*</sup> d? (	D/ N
Purging E Purge Wt Weather: 14 02 Actual Time	Containe Supposed Time	vols. Punged (Gels)	Pepth To Wtr	etc.) 3 Horas Depth Of Pump Intake(ft)	Temp (PC)	PATE:	Cond.	gom Turbidity (NTa) 4,24	ge Equip	ment Decon <sup>*</sup> d? (	Dr N
Purging E Purge Wt Weather: 14.02 Actual Time 14.01	Contain Supposed Time	vols. Vols. Purged (Gels)	Pepth To Wtr	etc.) 3 Horas Depth Of Pump Intake(ft)	Temp (°C) 23.8	Pate:	Cond. (umros) 1020	gpm Turbidity (NTa) 4,24 4,31	ge Equip	ment Decon <sup>*</sup> d? (	)/ N
Purging E Purge Wt Weather: 14 02 Actual Time 1401 14125	Containe Supposed Time	vols. Purged (Gals) 10 40	Pepth To Wtr	etc.) 3 Horas Depth Of Pump Intake(ft)	Temp (°C) 23.8 23.4 23.6	pH (\$.a) 6.87 6.90	Cond. (umhos) 1080 1080	gom Turbidity (NTa) 4,24 4,31 3.30	ge Equip	ment Decon <sup>*</sup> d? (	O/ N
Purging E Purge Wt Weather: 1402 Actual Time 1401 1405 1425	Contain Succession Time	Nerized Arr, 13.  Vols. Purged (Gals)  10  20  40	Pepth To Wtr	etc.) 3 Horas Depth Of Pump Intake(ft)	Temp (°C)  23.6  23.7  23.6  23.7	PATE:	Cond. (umphos) 1080 1080 1080	gpm Turbidity (NTa) 4,24 4,31 3.30 3.43	ge Equip	ment Decon <sup>*</sup> d? (	)/ N
Purging E Purge Wt Weather: 14 02 Actual Time 1401 1418 1425 1425	Contain Successions Elapsed Time	vois. Purged (Gais) 10 20 40 60	Pepth To Wtr	etc.) 3 Horas Depth Of Pump Intake(ft)	Temp (°C) 23.6 23.7 23.6 23.7	Pate:	Cond. (umpos) 1080 1080 1080 1080	Turbidity (NTa) 4,24 4,31 3.30 3.43 2.58	ge Equip	ment Decon*d? (	)/ N
Purging E Purge Wt Weather: 1402 Actual Time 1401 14125 1425 1430 1501	Containe Supposed Time	vols. Purged (Gels)  20  40  60  80  100	Pepth To Wtr	etc.) 3 Horas Depth Of Pump Intake(ft)	Temp (°C) 23.8 23.7 23.7 23.7 23.7	Pate:	Cond. (umnos) 1030 1080 1080 1070 1070	gom Turbidity (NTa) 4,24 4,31 3.30 3.43 2.58 2.57	ge Equip	ment Decon <sup>*</sup> d? (	D/ N
Purging E Purge Wt Weather: 1402 Actual Time 1401 1405 1425 1430 1501 1515	Contain Succession Time	vois. Purged (Gais) 10 20 40 60 80 1120	Pepth To Wtr	etc.) 3 Horas Depth Of Pump Intake(ft)	Temp (°C) 23.8 23.7 23.4 23.7 23.7 23.8	Pate:	Cond. (umpos) 1080 1080 1080 1080 1070 1070	Turbidity (NTa) 4,24 4,31 3.30 3.43 2.58 2.51 2.40	ge Equip	ment Decon*d? (	)/ N
Purging E Purge Wt Weather: 14 02 Actual Time 1401 14125 1425 1430 1501 1515	Contain Supposed Time	vols. Purged (Gais) 10 40 60 80 120	Pepth To Wtr	etc.) 3 Horas Depth Of Pump Intake(ft)	Temp (°C) 23.8 23.7 23.7 23.9 23.7 23.9 23.8 23.7	Pate:	Cond. (umnos) 1030 1080 1080 1070 1070 1070 1070	Jurbidity (NTa) 4,24 4,31 3.30 3.43 2.58 2.57 2.40 1.60	ge Equip	ment Decon*d? (	)/ N
Purging E Purge Wt Weather: 1402 Actual Time 1401 14125 1425 1425 1430 1502 1515	Contain Succession of the Contain Succession	vois. Purged (Gais) 10 20 40 60 80 1120	Pepth To Wtr	etc.) 3 Horas Depth Of Pump Intake(ft)	Temp (°C) 23.8 23.7 23.4 23.7 23.7 23.8	Pate:	Cond. (umpos) 1080 1080 1080 1080 1070 1070 1070	Turbidity (NTa) 4,24 4,31 3.30 3.43 2.58 2.51 2.40	ge Equip	ment Decon*d? (	O/ N

	REV. DATE: MAY 19
	Sample 10 No.: MUSS - 10 1- 03
ONITORING WELL SAMPLING LOG	IWELL NEL: Advance - PO /
estallation: Sex Hombos Anily	
AZWRAP CONTractor: 17 G. and 15 S.	Sample End: (Date) (/25/9) (Time) 1615
ampled by: GARDWAR / SAMEDAA	Sample End. (Date) (72574) (Time) 16 15
project of the projec	
Orig SWL: 72.99 rt BTOC* Final SWL: 72.	-10_rt_stoc
Screen Interval: 50 - 100 It B	
Temp pH Cond. Turbidity	
23.6 6.91 1080 16.76	of purge values? MIN (Green Tuncium)
	Repurge Y /
	No. repurge volumes:
Sampling Method:	∠ ss □ ∠
Submersible Pump Dedicated Bladder Pump Bi	ladder Pump Bailer Tef Centrifugal Pump PvC
	PVC 📙
Peristaltic Pump 🔲 🛮 Hand Pump 🔲 🔻 Gas Lif	't/ Displacement Pump Other
Samoling Equipment (Make, Model, etc.)	
and the state of t	
Sample Equipment Decon'd? (Y)/ N	
Sample Equipment Decon'd? (Y)/ N	
Sample Equipment Decon'd? (Y)/ N	np <b>set</b> :
Sample Equipment Decon'd? (2)/ N  If pump or discrete bailer; Depth(s) where pum	np <b>set</b> :
Sample Equipment Decon'd? (2)/ N  If pump or discrete bailer; Depth(s) where pum	np <b>set</b> :
Sample Equipment Decon'd? (V)/ N  If pump or discrete bailer; Depth(s) where pum  Weather:	np set:
Sample Equipment Decon'd? (V)/ N  If pump or discrete bailer; Depth(s) where pum  Weather:	np set:
Sample Equipment Decon'd? (*)/ N  If pump or discrete bailer; Depth(s) where puri  Weather: Sugar, Besser, Hot  Lab Analyses: (Circle)  VOA SVOA PETALS PEST/PCE  Others: Viny: Calorida; Nitzers/Nitze	TO Pb
Sample Equipment Decon'd? (V)/ N  If pump or discrete bailer; Depth(s) where pum  Weather:	np set:
Sample Equipment Decon'd? (*)/ N  If pump or discrete bailer; Depth(s) where pum  Weather:	np set:
Sample Equipment Decon'd? (Y) N  If pump or discrete bailer; Depth(s) where puri Weather: Sugar, Baser, Hor  Lab Analyses: (Circle)  VOA SVOA METALS PEST/PCS  Others: Viny Canocips , Nimers/Nime Metals: (Circle) Filtered Unflitered Bott  Field Dups.: Y/ N Referee Du  Comments:	TO PL  TO
Sample Equipment Decon'd? (*)/ N  If pump or discrete bailer; Depth(s) where pum  Weather: Sugar, Beser, Hor  Lab Analyses: (Circle)  VOA SVOA PETALS PEST/PCE  Others: Viny Canadia, Nitrege Nitre  Metals: (Circle) Filtered Unfiltered Bott  Field Dups: Y/ N Referee Du	TO Pb  CATIONS ANIONS TO Pb  Ch
Sample Equipment Decon'd? (Y)/ N  If pump or discrete bailer; Depth(s) where pum  Weather:	TO Pb  TO Pb  TO Pb  TO Pb  TO PT  TO
Sample Equipment Decon'd? (?)/ N  If pump or discrete bailer; Depth(s) where puri Weather: Sugar, Baser, Hot  Lab Analyses: (Circle)  VOA SVOA METALS PEST/PCS  Others: Vinys Calobids; Nimers/Nime Metals: (Circle) Filtered Unfiltered Bott  Field Dups.: Y/ N Referee Du  Comments:	TO Pb  TO Pb  TO Pb  TO Pb  TO PT  TO
Sample Equipment Decon'd? (Y)/ N  If pump or discrete bailer; Depth(s) where pum  Weather:	TO PL
Sample Equipment Decon'd? (Y)/ N  If pump or discrete bailer; Depth(s) where pum  Weather:	TO PL

DNITA								Sample	ID No.:	Nm2-05-C	22
				BING L	06			MELL NO	L: Mu	5-02	
	t Sky Contract			DAMION			<del></del>	31(e: C	dect No	: 409721.C	
rge Star			Ai	(Time)	1016	Pi	inge End	(Date)	4/24	Fr (Time)	1705
rged by:	GAN	Junior !	SAN	244							
eoth Mei	suremei	nt Ref. F	oint*		2.C.		We	II Csg ID:	2 0	D 6° Other	
eli Hdsc	ace/Odo	r. ~0.	Heen (	HAL PI-	io) LN	APL (	heck	MYN)		Pt Check	
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epth to	I NADI -	410								rval <u>4 SC</u> L Final DTW:	
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NAPL/DN leasured					LN	APL/UNA	NPL 58	mple and	Volum	e NA	
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		2.0	4	7 - 0.16 7 - 0.65					2		T
-) Wtr	Col. Thi	:k: <u>40</u>	·1(x)	- 1.47	als/ft (·	•) <u>55</u> .	2_ Gals	s/Csg Vol.	(K) J.C	<b>9</b> g Vol. (=) <u>~</u>	166 PU
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orge Me		. — ~	ticated i	Bladden Dr	<b>—</b> Г	Bladdon	۰ ۲	Baller	55		
ACCINET 21	DIE PUIT		JICECTU I	DIGUUEI PU		DIGUUEI	-Girb [	Totalies.	J Tef PVC	Centrifuga	II PUMPL
								_		u	
Peristait					G98 1						
								nt Pump	_	Other	
								-	_	Other ment Decon*d*	?
Purging E	quipmer	nt (Make	, Model,	etc.)[3	EANE	m Mo	المعد	200 Pun	ge Equip		? (1)
Purging E	Equipmer .r Contai	nt (Make	, Model, 	etc.)	EANE	m Mo	المعد	BOO Pun	ge Equip	ment Decon'd	? (1)/1
Purging E	Equipmer .r Contai	nt (Make	, Model,	etc.) [3 1) Avg Hor	e Purge	m Mo	ا م 2	BOO Pun	ge Equip	ment Decon'd	? (1)/1
Purging E Purge Wt Weather: 1014	r Contai	nerized	, Model,	etc.) S () Avg Hor	e Purge	m Mo	v 2	BOO Pun	ge Equip	ment Decon <sup>*</sup> d <sup>*</sup>	
Purging E Purge Wt Weather: 1014 Actual Time	Equipmer .r Contai	nerized nerized our, B Vois Purged (Gals)	Pepth To Wtr	etc.)	e Purge	Rate: pH (s.a)	v 2	gom Turbidity (NTa)	ge Equip	ment Decon'd	
Purging E Purge Wit Weather: 1016	Contain Contain	nerized nerized our, B Vois Purged (Gals)	Pepth To Wtr	etc.) B  Hor  Depth Of Pump	Purge Temp (PC) 23.5	PH (9.a)	Cond.	Jurbidity (NTa)	ge Equip	ment Decon <sup>*</sup> d <sup>*</sup>	
Purging E Purge Wt Weather: 10/4 Actual Time	Contain Contain	nerized nerized our, B Vois Purged (Gals)	Pepth To Wtr	etc.)	Temp (%C)	PH (S.a)	Cond. (umpos) 1160	gom Turbidity (NTa)	ge Equip	ment Decon <sup>*</sup> d <sup>*</sup>	
Purging E Purge Wt Weather: 10/4 Actual Time	Contain Contain	nerized nerized Nois. Vois. Purged (Gais)	Pepth To Wtr	etc.)	Temp (%C) 23.5 23.4 23.3	PH (S.a)	Cond.	Jurbidity (NTa)	ge Equip	ment Decon <sup>*</sup> d <sup>*</sup>	
Purging E Purge Wt Weather: 10/4 Actual Time 1024 1071 1053	Contain Summer Elapsed Time	rerized  nerized  nerized  vois.  Purged  (Gais)  C  20  40  60	Pepth To Wtr	etc.)	Temp (%C) 23.5 23.4	Pate:	Cond. (umpos) 1160	Turbidity (NTa) 0.28 0.51	ge Equip	ment Decon <sup>*</sup> d <sup>*</sup>	
Purging E Weather: 1014 Actual Time 1024 1029 1041 1053	Contain Summer Elapsed Time	vois. Purged (Gais) IC 40 60	Pepth To Wtr	Depth of Pump Intake(ft)	Temp (°C) 23.5 23.4 23.3 23.3	PALE:	Cond. (umbos) 1160 1160 1160	gpm Turbidity (NTa) 0.23 0.51 0.43 0.5(	ge Equip	ment Decon'd'  Comment	
Purging E Purge Wt Weather: 1014 Actual Time 1024 1041 1053 1105	Contain Summer Elapsed Time	vois. Purged (Gais) (C 40 60 60	Pepth To Wtr	Depth of Pump Intake(ft)	Temp (°C) 23.5 23.4 23.3 23.3 23.4	Pate:	Cond. (umnos) 1160 1160 1160 1160 1160 1176	gpm Turbidity (NTa) 0.28 0.51 0.43 0.51 0.41 0.40	ge Equip	ment Decon <sup>*</sup> d <sup>*</sup>	
Purging E Purge Wit Weather: 1016 Actual Time 1024 1029 1041 1053 1105 1116	Contain Summer Elapsed Time	vois. Purged (Gais) IC 40 60	Pepth To Wtr	Depth of Pump Intake(ft)	Temp (°C) 23.5 23.4 23.3 23.3	PH (S.a) 7.16 7.17 7.16 7.10	Cond. (um) 000 1160 1160 1170 1170	7urbidity (NTa) 0.23 0.51 0.43 0.5( 0.41 0.54	ge Equip	ment Decon'd'  Comment	
Purging E Purge Wt Weather: 1014 Actual Time 1024 1041 1053 1105 1116 1129 1141	Elapsed Time	vois. Purged (Gais) (C 40 60 60	Pepth To Wtr	Depth of Pump Intake(ft)	Temp (°C) 23.5 23.4 23.3 23.3 23.4 25.4 25.4	Pate:	Cond. (umbos) 1160 1160 1170 1170 1170 1170	7urbidity (NTa) 0.28 0.51 0.43 0.5( 0.41 0.40 0.54	ge Equip	ment Decon'd'  Comment	
Purging E Purge Wt Weather: 10/4 Actual Time 1024 1091 1053 1105 1116 1129 1141	Elapsed Time	vois. Purged (Gais) IC 20 40 60 60 i20 i20 140	Pepth To Wtr	Depth of Pump Intake(ft)	Temp (°C) 23.5 23.4 23.3 23.3 23.4 23.4 23.4	Pate:	Cond. (um) 2   1160   1170   1	Jurbidity (NTa) 0.28 0.51 0.43 0.40 0.40 0.40 0.44 0.44	ge Equip	Comment	Gunta
Purging E Purge Wt Weather: 1014 Actual Time 1024 1041 1053 1105 1116 1129 1141	Elapsed Time	vois. Purged (Gais) (C 40 40 60 100 140	Pepth To Wtr	Depth of Pump Intake(ft)	Temp (°C) 23.5 23.4 23.3 23.3 23.4 23.4 23.4	Pate:	Cond. (umbos) 1160 1160 1170 1170 1170 1170	Jurbidity (NTa) 0.28 0.51 0.43 0.40 0.40 0.40 0.44 0.44	ge Equip	ment Decon'd'  Comment	Gunta

•	Sample ID No.: ALLAS-02-02
ONITORING WELL SAMPLING LOG	WELL NO.: PLUS-02
establisher Say Honoge And	Site: Barressen du s.
AZWRAP Contractor: IT Cantalanten	Project No.: 409321.02.05
	Sample End (Date) 6/20/9/ (Time) 32.55
ampled by: GARDINGE SAMEDEA	
Orig. SWL: <u>70.91</u> rt BTOC* Final SWL: <u>W</u>	
Temp pH Cond Turbidity -23.9 7.14 115 54.4	Are parameters 20% of purge values? Of N (Error Tun purgs) Repurge Y NN
	No. repurge volumes:
<del>-</del>	SS Centrifugal Pump Tef Centrifugal Pump
Peristaltic Pump Hand Pump Gas Li Sampling Equipment (Make, Model, etc.)	
	Ift/ Displacement Pump Other
Sampling Equipment (Make, Model, etc.)  Sample Equipment Decon'd? (Y)/ N  if pump or discrete bailer; Depth(s) where pu	Ift/ Displacement Pump Other
Sampling Equipment (Make, Model, etc.)  Sample Equipment Decon'd? (**)/ N  If pump or discrete bailer; Depth(s) where pu  Weather:	Ift/ Displacement Pump Other
Sampling Equipment (Make, Model, etc.)  Sample Equipment Decon'd? (Y)/ N  If pump or discrete bailer; Depth(s) where pu  Weather: Sugar, Bassar, Hor  Lab Analyses: (Circle)  Others: Vigit Chicago: Nimme/Nimmer  Metals: (Circle) Filtered Unfiltered Bo  Field Dups: (Y) N  Referee D	Ift/ Displacement Pump Other
Sampling Equipment (Make, Model, etc.)  Sample Equipment Decon'd? (V)/ N  If pump or discrete bailer; Depth(s) where pu  Weather: Sugger, Basser, Hor  Lab Analyses: (Circle)  Others: Viger Chicaips: Nimme/Nimme  Metals: (Circle) Filtered Unfiltered Bo  Field Dups: (T) N Referee D  Comments:  Separce Mus-02-02- Course	Ift/ Displacement Pump Other
Sampling Equipment (Make, Model, etc.)  Sample Equipment Decon'd? (Y)/ N  If pump or discrete bailer; Depth(s) where pu  Weather: Sugar, Bassar, Hor  Lab Analyses: (Circle)  Others: Vight Chicago: Nimme/Nimmer  Metals: (Circle) Filtered Unfiltered Bo  Field Dups: (Y) N Referee D  Comments:  Sheepe Mus-02-02 Course  Fife Duplicant Sheep Garage	Ift/ Displacement Pump Other
Sampling Equipment (Make, Model, etc.)  Sample Equipment Decon'd? (V)/ N  If pump or discrete bailer; Depth(s) where pu  Weather: Sugger, Basser, Hor  Lab Analyses: (Circle)  Others: Viger Chicaips: Nimme/Nimme  Metals: (Circle) Filtered Unfiltered Bo  Field Dups: (T) N Referee D  Comments:  Separce Mus-02-02- Course	Ift/ Displacement Pump Other

											EV. DATE:	
ONITO	DING	WELL	DUD	GING I	0.6			Sample	ID No.:	MWS	-01-0	2_
rstal lation					00			Site: 13		<u> - وبي</u>		
azwrad (	ontract	or:		DAMION			<del></del>	Pro	ject No	: 409	1721.02	.05
urge Start				(Time)	063	<b>S</b> PA	urge End	(Date)	6/21	41	(Time)	0100
urged by:					=							
Depth Mea	suremer	nt Ref. F	oint#_	T.c	<u> 2.C.</u>		We	II Csg ID:	2 6	Ð 6.	Other	
well Hasp	ace/Odo	سلاك ٢٠	Open (H	M-17-10	) LN	APL (	Check	(D/N)			heck (	
iqu:pment	Used 1	To Meas	rure Thi	ckness ar	nd Samp	ple Free	Produc	t (Make, r	10del, el	(Ç)	,	
	Soc	·NOT	LNTE	eme ?	Peoce	Mai	کدر				_	
				D	enth to	Too at	nd Botto	m of Sch	and lot		50/	· 00 P
Depth to	LNAPL:	ub						orig DTW:				
NAPL/DN								mple and			NA.	PAIR
Teasured	•		19.80	)	LIV	NPC/UN/	APL Sa	miple and	VOLUIT	le:	_/~[1_	
			72.30									
-) Orig	. DI <del>W.</del>			<u> </u>					1			
		. 27	4	r - 0.65			_		2			Total
- ) Wtr (	col. Thic	:k.: <u>-41</u>	و(x) <del>۔۔۔۔</del>	-147 G	als/ft (	-) <u>52.</u>	<u>5</u> Gais	s/Csg Vol.	(x)(5)	sg Vol.	(=) <u>~1</u>	58 Purg
			لأن	<u> 1.91</u>	$\supset$				4			Gals
									_			
			diament f	Bladden (h.		Oladdaa	۰ ۲	٦٠٠٠-	_ 55	$\square$		
Submersit	ole Pump						_	]Baller[	] Ter PVC		ntrifugal	Pump
Submersit Peristalti	ole Pump Ic Pump	_ _ +	land Pun	~ <u> </u>	Gas L	Ift/ DIS	placeme	nt Pump [	Ter PVC	Other	·	
Peristalti	ole Pump Ic Pump	_ _ +	land Pun	~ <u> </u>	Gas L	Ift/ DIS	placeme		Ter PVC	Other	·	
Submersit Peristalti Purging E	ole Pump ic Pump quipmen	L (Make	land Pun , Model,	rp [] etc.)	Gas L	Ift/ Dis	placement	nt Pump (v 200 Pum	Ter PVC	Other	·	
Peristalti Purging E	ole Pump ic Pump quipmen	Hake	land Pun , Model,  ? (Ŷ) l	no	Gas L	Ift/ Disp	placement	nt Pump (v	Tef PVC  ge Equip	Other	·	
Submersit Peristalti Purging E	ole Pump ic Pump quipmen	it (Make	land Pun , Model, ? (Y) h	etc.)	Gas L	Ift/ Disp	placement	nt Pump (v	Ter PVC	Other	·	
Peristalti Purging E Purge Wtr Weather: 0635 Actual Time	c Pump quipmen Contail Successible	I Hake	land Pun , Model, ? (Y) A Case Pr Depth To Wtr (ft)	etc.)	Gas L Entre e Purge Temp (°C)	Rate:	Cond.	nt Pump (v 200 Pum gpm Turbidity (NTa)	Tef PVC  ge Equip	Other ment D	·	
Peristalti Purging E Purge Wtr Veather: 0635	c Pump quipmen Contail Successible	it (Make nerized nerized nerized Nois. Vois. Purged (Gals)	land Pun , Model, ? (Y) A Case Pr Depth To Wtr (ft)	etc.)	Gas L Enly si e Purge (PC) 21.6	pH (\$.8)	v 2	nt Pump [J 200 Pum gpm Turbidity (NTa)	Ter PVC  ge Equip	Other ment D	Decon*d?	
Peristalti Purging E Purge Wtr Weather: 0635 Actual Time 0646	c Pump quipmen Contail Successible	Int (Make merized avr., B. Vols. Purged (Gals)	land Pun , Model, ? (Y) A Case Pr Depth To Wtr (ft)	etc.)	Gas L  Enhis  Purge  Temp (°C)  21.6	Pate:	Cond. (umnos)	nt Pump [J 200 Pum gpm Turbidity (NTa)	Ter PVC  ge Equip	Other ment D	Decon*d?	
Peristalti Purging E Purge Wtr Weather: 0635 Actual Time 0646 6700	c Pump quipmen Contail Successible	it (Make nerized nerized nerized Nois. Vois. Purged (Gals)	land Pun , Model, ? (Y) A Case Pr Depth To Wtr (ft)	etc.)	Gas L Enly si e Purge (PC) 21.6	Pate:	Cond. (unitos) 1170 1180	Turbidity (NTa)  1.74  0.49  0.81	Ter PVC  ge Equip	Other ment D	Decon*d?	
Peristalti Purging E Purge Wtr Weather: 0635 Actual Time 0446 6700 0711	c Pump quipmen Contail Successible	Int (Make merized avr., B. Vols. Purged (Gals)	land Pun , Model, ? (Y) A Case Pr Depth To Wtr (ft)	etc.)	Gas L  Enhis  Purge  Temp (°C)  21.6	Pate:	Cond. (umros) 1170 1180 1190	Turbidity (NTa)  1.74  0.49  0.81	Ter PVC  ge Equip	Other ment D	Decon*d?	
Purging E Purge Wtr Weather: 0635 Actual Time 0646 0700 0711	c Pump quipmen Contail Successible	vois. Purged (Gais) 20 40 60	land Pun , Model, ? (Y) A Case Pr Depth To Wtr (ft)	etc.)	Gas L Sance e Purge (PC) 21.4 21.4 11.5 22.6	pH (s.a) 6.95 7.05 7.05	Cond. (umpos) 1170 1180 1190 1190	Turbidity (NTa)  1.74  0.49  0.81  (.04	Ter PVC  ge Equip	Other ment 0	Decon*d?	<b>⊘</b> /N
Purge Wirweather:  0635  Actual Time  0440  0410  0410  0410	c Pump quipmen Contail Successible	refized our, 3. Vols. Purged (Gals)	land Pun , Model, ? (Y) A Case Pr Depth To Wtr (ft)	etc.)	Temp (°C) 21.6 21.1 21.5 22.6 22.7	pH (\$.a) 6.95 7.05 7.05 7.10	Cond. (umpos) 1170 1180 1190 1190 1190	gpm  Turbidity (NTa)  i. 14  0. 49  0. 61  (.04  0. 53  0. 50	Ter PVC  ge Equip	Other ment 0	decon*d?	<u></u>
Peristalti Peristalti Purging E Purge Wtr Weather: 0635 Actual Time 0646 0700 0711	c Pump quipmen Contail Successible	vois. Purged (Gais) 20 40 60	land Pun , Model, ? (Y) A Case Pr Depth To Wtr (ft)	etc.)	Temp (°C) 21.6 21.1 22.5 22.0 22.7 22.5	pH (\$.a) 6.95 7.05 7.10 7.10	Cond. (umnos) 1170 1180 1180 1190 1190 1190	June 10 10 10 10 10 10 10 10 10 10 10 10 10	Ter PVC  ge Equip	Other ment 0	decon*d?	<b>⊘</b> /N
Purge Wtr Weather: 0635 Actual Time 0646 0741 0748 0748	c Pump quipmen Contail Successible	vois. Purged (Gais) 10 40 60 700	land Pun , Model, ? (Y) A Case Pr Depth To Wtr (ft)	etc.)	Temp (°C)  21.6  21.6  22.9  22.9  22.9  22.5	Pate:	Cond. (170   119	Turbidity (NTa)  1.71  0.49  0.53  0.53  0.49	Ter PVC  ge Equip	Other ment 0	decon*d?	<b>⊘</b> /N
Purging E Purge Wtr Weather: 0635 Actual Time 0.40 0711 6700 0711 6713 0148	c Pump quipmen Contail Successible	Vois. Purged (Gais) 10 40 40 100 110 110 110 110 110 110 11	land Pun , Model, ? (Y) A Case Pr Depth To Wtr (ft)	etc.)	Temp (°C) 21.4 21.4 21.5 22.6 22.7 12.5 22.5	Pate:	Cond. (umros) 1170 1180 1190 1190 1190 1190	June (NTa)  1.49  0.81  1.09  0.53  0.53  0.74  0.74  0.74	Ter PVC  ge Equip	Other ment D	Compace	
Peristalti Peristalti Purging E Purge Wtr Weather: 0635 Actual Time 0646 0740 0741 0748 0748	c Pump quipmen Contail Successible	Vois. Purged (Gais) 10 40 40 100 110 100	land Pun , Model, ? (Y) A Case Pr Depth To Wtr (ft)	etc.)	Temp (°C)  21.6  21.6  22.9  22.9  22.9  22.5	Pate:	Cond. (170   119	June (NTa)  1.49  0.81  1.09  0.53  0.53  0.74  0.74  0.74	Ter PVC  ge Equip	Other ment D	decon*d?	

SAT. A.M. Y

Sample ID No.: patcus = 02 - 02  INCOMITORING WELL SAMPLING LOG WELL NO.: ALUS = 03 - 02  INCOMITORING STATE   Project No.: ALUS = 03 - 02  INCOMITORING STATE   Project No.: Union   Project No.: Uni		- REV. DATE: MAY 19
Installation: Six Meabor Asia.  Site: Secretary Course Way Apple Controller: IY General Course Sample Start: (Date) 6/c1/k; (Time) 0935 Sample End: (Date) 6/c1/k; (Time) 070 sample Start: (Date) 6/c1/k; (Time) 070 sampled by: General Secretary Secretary  Orig. Swl.: 72.30 /rt BTOC* Final Swl.: // BTOC  Temp ph Cond. Turbidity  Are parameters 20% of purge values? // N (Except Tuta Flore)  Repurge Y (1)  No. repurge volumes:  Sampling Method: Submersible Pump Dedicated Bladder Pump Bladder Pump Baller V Tell Popt Dedicated Bladder Pump Ges Lift / Displacement Pump Other  Sampling Equipment (Make, Model, etc.)  Sample Equipment Decord? // N  If pump or discrete baller; Depth(s) where pump set: // 10 Pb  Weather: Submersible Pump Depth(s) where pump set: // 10 Pb  Lab Analyses: (Circle)  FETALS PEST/PCBS (24)  Comments: Y / N  Referree Dups: Y / N  Comments: Y / N  Referree Dups: Y / N  Comments: / N  Comments: / N  Comments: / N  Comments: / N  Comments: / N  Comments: / N  Comments: / N  Comments: // N  C		Sample ID No.: MWS-03-02
Agreed Contractor: (** Contractor)  Sample Start: (Date)		
Sample Start: (Date) 6/sth, (Time) 0835 Sample End: (Date) 6/sth; (Time) 070  ampled by: Genome st.   Shoulded  Orig. SML: 72.30	ATURAR Contractor 17 Confidence	Site: Backson Wer
Alfa - plane parameters 20% of purge values?    Temp   ph   Cond   Turbidity   Are parameters 20% of purge values?   O/N   Except Tut Brock   Sampling   Method:   No. repurge volumes:   No. repurge volumes:   Sampling   Method:   No. repurge volumes:   Sampling   Method:   Submersible Pump   Dedicated Bladder Pump   Bladder Pump   Baller   Tef   Centrifugal Pump	ample Start: (Date) Aleah. (Time) 083	Sample End (Date) 6/26/2 (1993) 2000
Orig. SWL: 72.30 It BTOC* Final SWL: Alfa - ALCON MATERIAL FOOD Screen Interval: 50 - (00 It BTOC)  Temp DH Cond. Turbidity 921.7 7.03 II60 97.5  Are parameters 20% of purge values? 9/N (Except-Tut Promp) Repurge Y (10 No. repurge volumes:  Sampling Method: Submersible Pump Dedicated Bladder Pump Bladder Pump Bailler Tef PVC  Peristaltic Pump Hend Pump Ges Lift/ Displacement Pump Other  Sampling Equipment (Make, Model, etc.)  Sample Equipment Decord? 9/N  If pump or discrete bailer; Depth(s) where pump set:  Weather: Subject Heritals Pest/POBS TEH CATIONS ANIONS  Others Viana Geograf, Natural Nature, To P is  Metals (Circle) Filtered Unfiltered Both  Field Dups: Y/N Referee Dups: Y/N  Comments:	empled by: Gaschurge / Samucha	CONTRACTOR OF CALLEY CALLED BASE
Screen Interval:SO		
Are parameters 20% of purge values? O/ N (Except-Total Brown)  Repurge Y No. repurge volumes:    No. repurge volumes:		
Repurge Y No. repurge volumes:    No. repurge volumes:   SS   Volumes		Are parameters 20%
Sampling Method: Submersible Pump Dedicated Bladder Pump Bladder Pump Bailer Contrifugal Pump Peristaltic Pump Hend Pump Ges Lift/ Displacement Pump Other Sampling Equipment (Make, Model, etc.)  Sample Equipment Decord? (2) N  If pump or discrete bailer; Depth(s) where pump set:  Weather: Subject Hatware (2 10 9F)  Weather: Subject Pump Pest/PCBS TOP CATIONS ANIONS Others: Viely Canonics Normers TOP B  Metals: (Circle) Filtered Unfiltered Both Field Dups: Y/N Referee Dups: Y/N  Comments:		
Submersible Pump Dedicated Bladder Pump Bladder Pump Bailer Tef Centrifugal Pump  Peristalitic Pump Hend Pump Gas Lift/ Displacement Pump Other  Sampling Equipment (Hake, Model, etc.)  Sample Equipment Decon'd?    If pump or discrete bailer; Depth(s) where pump set:  Weather: Subject Backer, Hartwarm (* 10 °F)  Ital Analyses: (Circle)  Sign Fetals Pest/Pobs The Cations Anions  Others: Vialy Gascer Nothers Nothers To Pb  Hetals: (Circle) Filtered Unfiltered Both  Field Dups: Y/N Referee Dups: Y/N  Comments:		No. repurge volumes:
Peristaltic Pump	Sampling Method:	- 55 D
Peristaltic Pump   Hend Pump   Ges Lift/ Displacement Pump   Other    Sampling Equipment (Plake, Model, etc.)    Sample Equipment Decon'd? (?)/ N  If pump or discrete bailer; Depth(s) where pump set:	Submersible Pump [] Dedicated Bladder Pump [] Bla	adder Pump   Bailer   Tef   Centrifugal Pump
Sampling Equipment (Make, Model, etc.)  Sample Equipment Decon'd? (1)/ N  If pump or discrete bailer; Depth(s) where pump set:  Weather: Sugger, Hartware (2 90 °F)  No. (2 90 °F)  Lab Analyses: (Circle)  Lab Analyses: (Circle)  Fittered Unfiltered Both  Field Dups: Y/ N Referee Dups: Y/N  Comments:		PVC 🔲
Sampling Equipment (Make, Model, etc.)  Sample Equipment Decon'd? (1)/ N  If pump or discrete bailer; Depth(s) where pump set:  Weather: Sugger, Hartware (2 90 °F)  No. (2 90 °F)  Lab Analyses: (Circle)  Lab Analyses: (Circle)  Fittered Unfiltered Both  Field Dups: Y/ N Referee Dups: Y/N  Comments:	Peristaltic Pump   Hand Pump   Gas Lift	// Displacement Pump   Other
Sample Equipment Decon'd?    If pump or discrete bailer; Depth(s) where pump set:  Weather: Shaker, Harlugan (* 90 °F)  NAV  Lab Analyses: (Circle)  WAA STOA FETALS PEST/PCBS TOPL CATIONS ANIONS  Others: Viant Company, Nittons Nittons, TOPL  Metals: (Circle) Filtered Unfiltered Both  Field Dups: Y/N Referee Dups: Y/N  Comments:		
Weather: Sugar, Baccon, Harlugar (* 10 °F)  Lab Analyses: (Circle)  Weathers: Viany, Canadas, Nations Anions  Others: Viany, Canadas, Nations Anions  Metals: (Circle) Filtered Unfiltered Both  Field Dups.: Y/N Referee Dups.: Y/N  Comments:	Sampling Equipment Clare, Floori, etc./	
Weather: Sugar, Bascor, Harlugar (* 10 °F)  Lab Analyses: (Circle)  VOA STOA FETALS PEST/PCBS TOPL  Others Viance Concern, Nothers Nothers, TOPL  Metals: (Circle) Filtered Unfiltered Both  Field Dups: Y/N Referee Dups: Y/N  Comments:		
Weather: Sugar, Baccon, Harlugar (* 10 °F)  Lab Analyses: (Circle)  Weathers: Viany, Canadas, Nations Anions  Others: Viany, Canadas, Nations Anions  Metals: (Circle) Filtered Unfiltered Both  Field Dups.: Y/N Referee Dups.: Y/N  Comments:	Sample Foultoment Decon'd? (Y)/ N	
Weather: Sugar, BRECTY, HATUREN (* 90 °F)  NOW SVOW FETALS PEST/PCBS THE CATIONS ANIONS  Others View Company, Nitrate/Nitrate, TOPb  Metals: (Circle) Filtered Unfiltered Both  Field Dups: Y/N Referee Dups: Y/N  Comments:		
Lab Analyses: (Circle)  VOA SVOA FETALS PEST/PCBS TOH CATIONS ANIONS  Others: VIANYL CHARGED UNTITLETE NITHERS, TOPE  Metals: (Circle) Filtered Unfiltered Both  Field Dups: Y/N Referee Dups: Y/N  Comments:	If pump or discrete bailer; Depth(s) where pump	p set:
Lab Analyses: (Circle)  VOA SVOA FETALS PEST/PCBS TOH CATIONS ANIONS  Others: VIANYL CHARGE NITHERS NITHERS, TOPE  Metals: (Circle) Filtered Unfiltered Both  Field Dups: Y/N Referee Dups: Y/N  Comments:	6 8 11 41	40 00
Lab Analyses: (Circle)  VOA SVOA FETALS PEST/PCBS TOH CATIONS ANIONS  Others: VIANYL CHARGED UNTITLETE NITHERS, TOPE  Metals: (Circle) Filtered Unfiltered Both  Field Dups: Y/N Referee Dups: Y/N  Comments:	Weather:	( ~ 70 °F)
Officered Unfiltered Both  Field Dups: Y/N Referee Dups: Y/N  Comments:	my	
Others VIANC CHAPELE, NITTOR NITTOR, TOPE  Metals: (Circle) Filtered Unfiltered Both  Field Dups: Y/N Referee Dups: Y/N  Comments:	Lab Analyses: (Circle)	
Others VIANCE CHARGES, NITHERS, TOPE  Metals: (Circle) Filtered Unfiltered Both  Field Dups: Y/N Referee Dups: Y/N  Comments:		5 THE CATIONS ANIONS
Metals: (Circle) Filtered Unfiltered Both Field Dups.: Y/N Referee Dups.: Y/N Comments:		
Field Dups.: Y/N Referee Dups.: Y/N Comments:	Others VIAING (ALDREDE , NITHARE) NIT	MAR , IOPB
Comments:	Metals: (Circle) Filtered Unfiltered Both	1
	Field Dups.: Y/N Referee Dup	98.: Υ/(N)
	Comments:	
	<del></del>	- 48374
	THE MILE AND A COMPA	TO AT UD 13 MOUSE.
"BTOC - Below Top of Casing (or other measurement reference point)	"BTOC - Below Top of Casing (or other measurers	nent reference point)

								Sample	· ID No:		EV. DATE:	
MONITO	RING	WELL	PUR	BING L	06			WELL NO			<u>5-04-02</u>	<u> </u>
Instal lation								Site: [	A C	77 - 0.		
HAZWRAP (				MOPMAN				Pro	lect No	: 40	7721.02.	06
Purge Star	t: (Date)		511	(Time)	012	A	rge End	(Date)	129/3	/	(Time)	//⊃n
Purged by:	GAN	HOLES!	SAN	-							4	1130
Depth Mea Well Hosp Equipment	ace/Odo	r. <u>~ 72</u> To Meas	ne Thi	th~ は・K	≫) LN ndSarmi	IAPL ( ple Free	Check Produc	(M/N)	-BNA	PL	Other_ Sheck (Y	<del>/N) -</del> /
	<u> </u>	120.	12015			_		m of Sco	een inte	rval '	v 90-100	- <del>-</del>
Depth to	LNAPL:	ND									I DTW.	
LNAPL/DN	_				LN	APL/DN/	NPL Sa	mple and	Volum	e:	NA	
Measured		_		-								
( - ) Orig	L DTW:		2.45	- r - 0.16								
Peristalt	ble Pump ic Pump		dicated land Pur	no []	mp 🔲	.ift/ Dis	placemen	Bailer [  nt Pump [  300 Pum	_ bvc 	Other	ntrifugal Pi r Decon'd? (	
Purge Wti Weather:	r Contai	nerized سر عد	?()	N) Avg	e Purge	Rate: _	ν <u>2</u>	gpm	le 45	o <sub>F)</sub>		
	Elapsed	Vole	Depth To Wtr	Depth Of Pump Intake(ft)	Temp (°C)	PH (5.2)	(nullos) Cougr	Turbidity (NTa)	Other	(	Comment	
1928		15	42.45	480 f.	23.3	7.02	1170	1.50				
893h		30			23.1		1120					
0947		Ø			23.0			1.33				7
1000	T	10				7.10		0.98	<u> </u>			7
		90	<del>                                     </del>	t	23.0	_	1180	1.25		1.221.	CHUM	<u> </u>
1024		110	<del>                                     </del>	<del>                                     </del>				0.29	<del>                                     </del>	10-1	- CYLAN	<b></b>
				<del>                                     </del>	<u> 13.i</u>	7.01	1180		<del> </del>	<del> </del>		-
1032				<del>                                     </del>	23.1	7.13	1180	1.43	<del> </del>			{
1053		150			23.0	9,12	1180	0.92	<u> </u>			
1054		155		<b> </b>	23,0		1180	0.62	<u> </u>			4
1130		158			23.5	7.07	1190	26.7		105.	Special	₩
				1	1	1		1	!	-		1
* All Des	ths in F	et Belo	w Ref. P	oint on W	lihead ·	genera	lly Top o	Casing (1	OC)			

	REV. DATE: MAY 195
ONITORING WELL SAMPLING LOG	Sample ID No.: MUS-04-02
stallation: Sky Massac And	Site: Bacacano Lieu
AZWRAP Contractor: IT Confenence	Project No.: Gaeaa as as
emple Start: (Date) 6/20/6/ (Time) ///5	Sample End: (Date) 6/24/4 (Time) 1/30
moled by: GARDINGE / SAMEDEA	
orig. SWL: 72.45 ft BTOC* Final SWL: 72.5 Screen Interval: ** 50 - 100 ft BTO  Temp pH Cond. Turbidity  23.3 2.07 1990 24.7	<b>c</b>
	of purge values? (D) N (Except Tueste De 19)  Repurge Y/(D)
<del></del>	The second secon
<del></del>	No. repurge volumes:
Sampling Equipment (Make, Model, etc.)  Sample Equipment Decon'd? (2)/ N  If pump or discrete baller; Depth(s) where pump  Weather: Sugar, Besser, Hor	set:ft_BTC
Lab Analyses: (Circle)  OA SVOA METALS PEST/PCBS  Others: View Chicagos; TOPL	TPH CATIONS ANIONS TO
rietals: (Circle) Filtered Unfiltered Both Field Dups.: Y/N Referee Dups.  Comments:  Subsecus NW>-09-07 Conserts	_

									Sample			V. DATE: 1 02 - 02	
					BING L	06			WELL NO	).: PS	-02		
		Y Sky							Site: g	Acres	4	Piermed	
		Contract t: (Date)		coar	(Time)	073	) 0.	urge End	PIT	Ject No	<u> </u>	1721.02.0	
-		GAN		Sanve	المراجع المراجع المراجع	77-		ye cino	. (Dete)	6/30/		(Time)	20
					_	2.C.							
_	-	sureme							II Csg ID:	2 (	£) 6	Other	
					No PIS all				(M/N)	-BNA		heck (Y	<del>/ N )</del>
<b>3</b> U	:pmen								ct (Make, M	10del, el	(C)		
_		ے صد	· MOT	NT	sme i	Peoce	Moi	کدر					
					٥	epth to	Top ar	nd Botto	om of Scr	een Inte	rval	NSOLK	∞£
eç	eth to	LNAPL:	NO									DTW:AF	
N	APL/DA	IAPL Th	ickness.	NO	2	LN	APL/DN/	APL Sa	imple and	Volum	e	NA	•
ie:	esured	Well	TD: _99	.86	-								
		DTW:			_								
	•	•	7	1.40 2	 2" - 0.16					1			
_	\ Wte	Col. Thi	a. 28.	46 144	- 0.65 - 1.47	-1-/61/	1 54	ر لم ب	- 40	. 2			To
-	/ WU	COI. ITH	CK.: ASI			<b>3</b> 13/16 (	21		s/Csg Voi.	(x)CJ	sg Vol	(-)~163	Pu
			(	ى ~	<u>131</u>	>				5			Ga
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	rge Me												
		nia Dam	<u> </u>	ticated I	Bladder G			٦ ٢	72000	55	H	name(	
	Mile 21	Die Pum		dicated (	Bladder Pu	mp 🔲	Bladder	Pump [	Bailer [	Ter	Ce	ntrifugal Pu	mp[
			_		_	mo 🗌	Bladder			Ter PVC	Ce	ntrifugal Pu	mp[
		ole Pum ic Pump	_		_		Bladder		Bailer L	Ter	Other		mp[
)ei	ristalt	ic Pump	_ ·	land Pur	_	<del>Gas L</del>	Ht <del>V Diş</del> i	MA pjaceme	chshi nt Pump [	Ter PVC	Other		
)ei	ristalt	ic Pump	_ ·	land Pur	ro □	<del>Gas L</del>	Ht <del>V Diş</del> i	MA pjaceme	chshi nt Pump [	Ter PVC	Other	`	
e Vu	ristalt rging E	ic Pump Guipmer	ht (Make	land Pun , Model,	no 🔲 etc.) <u>L</u>	Gas L	HtV Dis	p)aceme	6 fishi nt Pump (c 2007 Pun Mitom	Ter PVC PVC ge Equip	Other ment C	`	
'e' 'u' 'u' 'e'	ristalt rging E rge Wt	ic Pump Guipmer	nt (Make	tand Puri , Model, 	no 🔲 etc.) <u>L</u>	Gas L	HtV Dis	p)aceme	6 fishi nt Pump (c 2007 Pun Mitom	Ter PVC PVC ge Equip	Other ment C	`	
) 	ristalt rging E rge Wt eather:	r Contai	nt (Make	land Puri	etc.)	Gas L	Rate:	p)aceme	AL PLANTE TO	Ter PVC ge Equip	Other ment C	`	
et 'U 'U'e'	ristalt rging E rge Wt rather: 0130	c Pump quipmer r Contai	nt (Make	tand Puri , Model, ? (Y) A	etc.) etc.) H.or Depth of Pump	Gas L Entre e Purge	Rate:	y 2  Cond	Lister Purp L	Ter PVC ge Equip	Other ment C	`	
	ristalt rging E rge Wt lather: 0730 Actual Time	cquipmer Contai	nt (Make nerized our, B Vols. Purged (Gals)	riand Puri , Model, ? (Y) N Market Pri Depth To Wtr (ft)	etc.)	Gas L Executive Purge Temp (°C)	Rate:	Cond (umnos)	Lister Pump (4	Ter PVC	Other ment C	·	
	ristalt rging E rge Wt lather: 0130 Actual Time	contains Elapsed Time	refized vols.  Vols.  Purged (Gals)	tand Puri , Model, ? (Y) A	etc.)	Gast  Factor  Formp (°C)  22./	Rate:	Cond (unitos)	Turbidity (127-2	Ter PVC	Other ment C	·	
	ristalt rging E rge Wt eather: 0130 Actual Time 0750 C8 15	contains Elapsed Time	nerized  vols. Purged (Gals)	riand Puri , Model, ? (Y) N Market Pri Depth To Wtr (ft)	etc.)	Gast.  France  Temp (°C)  22.1  22.2	Rate:	Cond (umnos)	Turbidity (NTa) (27.7	Ter PVC ge Equip	Other ment C	·	
	ristalt rging E rge Wt rather: 0130 Actual Time 0150 0315	c Pump Equipment Contains	Vois. Purged (Gals)	riand Puri , Model, ? (Y) N Market Pri Depth To Wtr (ft)	etc.)	Temp (°C) 22.1 22.2 22.2	Pate:	2 Cond (umnos) 1230 1240 1250	Turbidity (NTa)  (27-2  (NA 720	ge Equip	Other ment C	·	
	ristalt rging E rge Wt rather: 0730 Actual Time 0750 CS 15 0856	contains Elapsed Time	rerized our, B. Vols. Purged (Gels)	riand Puri , Model, ? (Y) N Market Pri Depth To Wtr (ft)	etc.)	Temp (°C) 22.2 22.3	Pate:	Cond (umnos) 1230 1250 1250	Turbidity (NTa) (27-7  Alf (200)	ge Equip	Other ment C	·	
	ristalt rging E rge Wt rather: 0730 Actual Time 0750 CS 15 0514	contains Elapsed Time	rit (Make nerized) Nois Purged (Gels) 5 10 25	riand Puri , Model, ? (Y) N Market Pri Depth To Wtr (ft)	etc.)	Temp (°C) 22.2 22.3 22.2	Pate:	Cond (umnos) 1230 1230 1250 1250	Turbidity (NTa)  127-7  101.2  Alf (Started)	ge Equip	Other ment C	·	
	ristalt rging E with a ther: 2730 Actual Time 0750 CS 15 CS	contains Elapsed Time	Vols. Purged (Gals)  5  20  25  35	riand Puri , Model, ? (Y) N Market Pri Depth To Wtr (ft)	etc.)	Temp (°C) 22.2 22.3 22.2 22.3	Pate:	Cond (unhos) 1230 1240 1250 1250 1250	Turbidity (NTa)  (27-7  Alk (700)  7200  93.1	ge Equip	Other ment C	·	
	ristalt rging E rge Wt rather: 2130 Actual Time 0750 CS 15 0826 CS 15 0759 CS	contains Elapsed Time	Vois. Purged (Gais) 5 10 25 20 25 45	tand Puri	etc.)	Temp (°C) 22.1 22.2 22.3 22.3 22.3	Pate:	2000 1230 1230 1230 1250 1250 1250 1250 1250	Turbidity (NTa)  127-7  Alf (Starter)  72(0)  72(1)  72(2)	ge Equip	Other ment C	·	
	ristalt rging E rge Wt sather: 2730 Actual Time 0750 Actual 71me 0750 Actu	Contains Elapsed Time	Vois. Purged (Gals)  20 25 25 45	bepth To Wtr	etc.)	Temp (°C) 22.2 22.3 22.3 22.3 22.3	Pate:	Cond (umpos) 1230 1240 1250 1250 1250 1250 1250 1250 1250	Turbidity (NTa)  [27-7  161.2  NA (700  7200  93.1  7200  7200	ge Equip	Other ment C	decon*d? (	D/ N
	ristalt rging E rge Wt rather: 2130 Actual Time 0750 CS 15 0826 CS 15 0759 CS	Contains Elapsed Time	Vois. Purged (Gais) 5 10 25 20 25 45	bepth To Wtr	etc.)	Temp (°C) 22.1 22.2 22.3 22.3 22.3	Pate:	2000 1230 1230 1230 1250 1250 1250 1250 1250	Turbidity (NTa)  127-7  Alf (Starter)  72(0)  72(1)  72(2)	ge Equip	Other ment C	·	D/ N
	ristalt rging E rge Wt sather: 2730 Actual Time 0750 Actual 71me 0750 Actu	Contains Elapsed Time	Vois. Purged (Gals)  20 25 25 45	bepth To Wtr	etc.)	Temp (°C) 22.2 22.3 22.3 22.3 22.3	Pate:	Cond (umpos) 1230 1240 1250 1250 1250 1250 1250 1250 1250	Turbidity (NTa)  [27-7  161.2  NA (700  7200  93.1  7200  7200	ge Equip	Other ment C	decon*d? (	D/ N

							ample ID N	<u>~</u>	<u>-02-02</u>	
10N1	TORIN	8 WE	LL SAI	1PLING L	06	\W	ELL NO.:	PS-02		
nstalla	cion S	KY HA	one As	16		51	Le: BACA	Man	Ρ	~
amole	Start: (D		6/30/41	Acetteni (Time) III	10	Sample End: (	I PTU IEC			٠.٥
			- / Sam	16026A	10	OE IDIO CIAC (		3/1/	( I HTTE)	11
					<del></del>	7	-			
Ocio f	w T	1.40	rt BTOC*	Final SWL: 4	NIA (ma	ft BTOC				
Screen	Interva	ıl. ~	50	100	rt BTOC	5.50				
JC: CC:		بيستيه ۲۰۰			5.0.00					
Temp	pH	Cond.	Turbidity							
22.6	6.98	1150	>200			re parameter				
						of purge valu	<b>43</b> 7 ( <b>)</b> /	N		
					Re	epurge Y/N				
					). Lie		<b></b>			
	Ţ				PRC	). repurge volu	*1162: ——			
	ng Meth			Bladder Pump				_		
		_		np			mo 🗌	Oth	ner	
Sampli	e Equipm	ment (P	nake, Mode	/ N						
Sampli	e Equipm	ment (P	nake, Mode	i, etc.)					ner	
Sampili Sample	e Equipm	ment (P ment Dec Iscrete	on'd? (Y),	/ N	e pump se	et:				
Sampili Sample	e Equipm	ment (P ment Dec Iscrete	on'd? (Y),	N Nepth(s) where	e pump se	et:				
Sampli Sample If puri	e Equipm	ment (Princette Decision of the Control of the Cont	on'd? (Y) beller; () Besser	N Nepth(s) where	e pump se	et:				
Sampli Sample If puri	e Equipment of dispersions of the control of the co	ment (Princette Decision of the Control of the Cont	take, Mode on'd? (V) baller; D Besser  )	N Nepth(s) where	e pump se	et:				
Sample Sample If pun Weath	e Equipment of dispersions of the control of the co	ment (Principle of the Control of th	take, Mode on'd? (?) baller; () Beccar ) META	N Nepth(s) where	e pump se	et:	S •F)			
Sample Sample If purious Weather Lab A Other	e Equipment of dispersions of the control of the co	ment (Property Control of Control	on'd? (V), baller; D BASSER  META	N Nepth(s) where	e pump se	et:	S •F)			
Sample Sample If pun Weath	e Equipment of dispersions of the control of the co	ment (Property Control of Control	on'd? (V), baller; D BASSER  META	N Nepth(s) where	e pump se	et:	S •F)			
Sample Sample If purious Weather Avoid Other Metals	e Equipment of dispersions of the control of the co	ment (Property Control of Control	take, Mode on'd? (V), baller; D BASSER  META	N Nepth(s) where Har LS PEST	e pump se	et: / ©	S •F)			
Sampli Sampli If pun Weath Weath VOA Other Metal:	e Equipment of dispersions of the control of the co	ment (Property Control of the Contro	take, Mode on'd? (V) baller; D BASSET  META SLUBALDS	N Nepth(s) where Har LS PEST TO PL Unfiltered Refere	e pump se	et:	S •F)			
Sampli Sa	e Equipment of dispersions of the control of the co	ment (Property Control of the Contro	take, Mode on'd? (V) baller; D BREENT  NETA	N Nepth(s) where Hot PEST TO Pb Unfiltered Refere	e pump se	et: ( ≥ ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )	S ⊕F)			
Sampli Sampli If pun Weath VOA Other Metal:	e Equipment of dispersions of the content of the co	iment (Principle) iscrete iscr	beller; D BERGET  META  Store  Series  Series  META  Series  S	N Pepth(s) where Hot Pest Pest Co	Poth Re Dups.:	Pt: ( 22 / 0)  TPH  Y / (H)  AT [110] H	S of)			
Sampli Sa	e Equipment of dispersions of the control of the co	iment (Prince to Prince to	META  SECTO  STATES  S	N Nepth(s) where Har LS PEST TO Pb Unfiltered References Co.	Both Dups:	Pt:	CATION House	\$	ANIONS	
Sampli Sa	e Equipment of dispersions of the content of the co	iment (Prince to Prince to	baller; D BERGER  META  S-02-0 2-02-02-02-02-02-02-02-02-02-02-02-02-02	N Nepth(s) where Hot Person References Control	Both He Dups.:	Pt:	CATIO	νς.	ANIONS	
Sampli Sa	e Equipment of dispersions of the control of the co	iment (Principle) iscrete iscr	beller; D BARCET  META  STORAGE  STORAGE  C-EL  ALLERANA  META  ME	N Nepth(s) where Har LS PEST TO Pb Unfiltered References Co.	Both  Dups.:	Y / (A)  AT 1110 H  AT (130  AT SAME	CATION CATION	- ρ <sub>-ν</sub> - <i>f</i> ει	VAR one	

ONIT	OBING	WELL	0110	GING L	0.6			Sample	ID No.:	MW1-02-02	
	on Sky				00			Site:	0.: M.	11-02	
AZWRAI	Contrac	tor:	CORP	SAMIO~				Pr	o ject No	1: 409721.02.0	
	rt: (Date			(Time)	0830	) P(	inge End	(Date)	6/25/9		110
	r: Gaa										
Depth M	easureme	nt Ref. F	Point#_	T.c	_ع.د		We!	II Csg ID	2 6	6° Other_	
Well Hd	space/Ode	v. <u>vo.</u>	2 cm ly	PZ-10	0) LN	APL (	Check	(D/N)		Pt Check (Y/	
Equ:pme	nt Used	To Meas	iure Thi	ckness ar	nd Same	ple Free	Produc	t (Make,	Model, e	tc)	
	Sol		INTE	eme ?	PROBE	Moi	کھد		•		
										/	
Death I	O LNAPL:	NO								erval50/100 Y_Final_DTW:_73	
											1, 40
	DNAPL Th				LN	APL/DN/	APL Sa	mple and	d Volum	NE NA	
	d Well		99.32	_							
(-) Or	ig. DTW:		73.34						•		
			. 2	7 - 0.16		_			2		Tatal
( <b>-</b> ) Wt	r Col. Thi	ck: <u>-25</u>	.१८(x)	G	als/ft (	-) <u>49.</u>	<u> </u>	Csg Vol	. (x) 3'S	sg Vol. (+) ~ 149	- Purce
			-	- 191					4		Gals.
		_	- v 10	- <u></u>	,						
		<							3		
Purge t					ノ 「ロ	<b></b>		7 6	_ <u>5</u> 55		
		) 10		Bladder Po		Bladder	Pump [	Baller[	Tef	Centrifugal Pun	<b>№</b>
		) P 🔲 De			mp 🔲	Bladder	Pump [	_Bailer[		Centrifugal Pun	mp 🗀
Submer	sible Pum		dicated (				_		Tef PVC	Centrifugal Pun	rø□
Submer Perista	sible Pum Itic Pump		dicated i	Bladder Pu	Gas L	Ift/ Dis	placeme	nt Pump (	Ter PVC	Other	
Submer Perista	sible Pum Itic Pump		dicated i	Bladder Pu	Gas L	Ift/ Dis	placeme	nt Pump (	Ter PVC		
Perista Purging	sible Pum Itic Pump   Equipme	nt (Make	dicated i	Bladder Pu	6 <b>35</b> L	ift/ Dis	placement	nt Pump ( 200_ Pu	PVC  rge Equip	Other	
Perista Purging Purge V	sible Pum Itic Pump Equipme	nt (Make	dicated i	Bladder Pu	Gas L	Ift/ Dis	placement	nt Pump ( <u>200</u> Pul	PVC  rge Equip	Other	
Perista Purging Purge V Weathe	itic Pump Equipme /tr Conta	nt (Make	dicated i	Bladder Pu	Gas L	Ift/ Dis	placement of 18	nt Pump ( 200_ Pu	Tef PVC Tge Equip	Other	
Perista Purging Purge V Weathe	Itic Pump Equipment Vtr Contain:	inerized	dicated i	Bladder Punp etc.)	Gas L EANS: e Purge	Rate: _	v 2	nt Pump ( 200_ Pu gon	Tef PVC Tge Equip	Other	
Perista Purging Purge V Weathe	itic Pump Equipment of Contains Fr. Suc.	inerized hour, 3 Vols. Purged (Gels)	dicated i	Bladder Punp Avg	Gas L EAN E Purge Temp (PC)	PH (S.8)	Placement of the placem	nt Pump ( 200_ Pu	Tef PVC  PVC  Rege Equip	Other oment Decon'd? ()  OF)  Comment	D/ N
Perista Purging Purge V Weathe Acturation	itic Pump Equipme Vtr Conta r: Suc Bi Elapsed Time	inerized ear, 3 Vols. Purged (Gals)	dicated i	Bladder Punp Avg	Gas L Enloye Purge Temp (°C)	PATE:	Cond.	nt Pump [ 200 Pu gpn Turbidity (NTa)	Tef PVC	Other	D/ N
Perista Purging Purge V Weathe  Actur Tim  0330	Itic Pump Equipme Vtr Contain Success I Elapsed Time 2 Success 7	inerized our, [3] Vols. Punged (Gels)	dicated i	Bladder Punp Avg	Gas L EANS Purge Temp (°C)	Rate:	Cond.	ont Pump [  200 Pu  gpn  Turbidity (NTa)	Tef PVC  PVC  Rege Equip	Other oment Decon'd? ()  OF)  Comment	D/ N
Perista Purging Purge V Weathe  Actu Tim  0330 1010	itic Pump Equipme Vtr Conta r: Sus Bi Elapsed Time 2 Sus 1 Sus 1 S	vois. Purged (Gals)	dicated i	Bladder Punp Avg	Gas L Enloye Purge Purge (°C) (°C) 23.7 23.5	Pate:	Cond.	Turbidity (NTa)	Tef PVC  PVC  Rege Equip	Other	D/ N
Perista Purging Purge V Weathe  Actur Tim  0930 1011 102	Itic Pump Itic P	Int (Make Inerized Note, 13, Vols. Punged (Gals)	dicated i	Bladder Punp Avg	Gas L EANS: Purge Temp (°C) 23.7 23.5 23.5	pH (s.a)  6.90  9.02	Cond. (umnos)	Turbidity (NTa)  0.76	Tef PVC  PVC  Rege Equip	Other	D/ N
Perista Purging Purge V Weathe  Actur Tim 0330 1011	Itic Pump Itic P	Vois. Purged (Gais)  10  20  40	dicated i	Bladder Punp Avg	Gas L EAN E: Purge Purge Purge PC) 23.3 23.5 23.5 23.6	Pate:	Cond. (umros) 1130 1130	Turbidity (NTa)  0.76  0.56	Tef PVC  PVC  Rege Equip	Other	D/ N
Perista Purging Purge V Weathe  Actur Tim 0330 1011 1011 1011	itic Pump Equipme Vtr Conta r:Sus Bi Elapsed Time 2 Sus 1 7	vois. Purged (Gais)  10 40 60	dicated i	Bladder Punp Avg	Gas L False Purge Purge (°C) 23.7 23.5 23.6 23.6	pH (\$.a)	Cond. (umnos) 1130 1130 1130	Turbidity (NTa)  0.46  0.36  0.34	Tef PVC  PVC  Rege Equip	Other	D/ N
Perista Purging Purge V Weathe  Actu Tim 0330 1011 102 1031 1014 1100	Itic Pump Itic P	Vols. Purged (Gels)  10  20  40  60  100	dicated i	Bladder Punp Avg	Gas L EANS: Purge Purge Purge 23.3 23.5 23.5 23.6 23.6 23.6	pH (s.a) 6.90 7.03 7.03 7.02 6.91	Cond. (umros) 1/30 1/30 1/30 1/30	Turbidity (NTa)  0.45  0.56  0.34  0.34	Tef PVC  PVC  Rege Equip	Other	D/ N
Perista Purging Purge V Weathe  Actu Tim 0330 1011 1014 1124	itic Pump Equipme Vtr Conta r:Suc Bi Elapsed Time 2 Suc 3	Vois. Purged (Gals)  10  20  40  60  100	dicated i	Bladder Punp Avg	Gas L Falve Purge Purge Purge Purge 23.7 23.5 23.6 23.6 23.6 23.6	pH (s.a)  6.90  7.03  7.05  7.02  6.91	Cond. (130 1130 1130 1130 1130	Turbidity (NTa) 0.36 0.34 0.32	Tef PVC  PVC  Rege Equip	Other	D/ N
Perista Purging Purge v Weathe  Actur Tim  0330 1011 1011 1111 1112 1112 1112 111	Itic Pump Equipme Vtr Contain Success Illapsed Time 2 Success 3	Vols. Purged (Gals)  10  20  40  100  100  140	dicated i	Bladder Punp Avg	Temp (°C)  23.7  23.5  23.6  23.6  23.6  23.6	ph (\$.a)  6.90  9.02  7.03  7.02  6.91	Cond. (umros) 1/30 1/30 1/30 1/30 1/30 1/30	7 Pump [  200 Pump	Tef PVC  PVC  Rege Equip	Other	D/ N
Perista Purging Purge Weathe  Acturation Time 0330 1011 1074 1112	Stible Pump  Itic Pump  Equipme  Vtr Contain  Success  Time  2 Success  3	Vois. Purged (Gals)  10  20  40  60  100	dicated i	Bladder Punp Avg	Gas L Falve Purge Purge Purge Purge 23.7 23.5 23.6 23.6 23.6 23.6	ph (s.a)	Cond. (130 1130 1130 1130 1130	Turbidity (NTa) 0.36 0.34 0.32	Tef PVC	Other	D/ N

		Sample ID No:	REV. DATE: MAY 1 MW1-02-02
ONITORING WELL SAMPLING	LOG	WELL NO.: M	MW1-02-02
challettee C 11		Site: 1	DI - 02
ZWRAP Contractor: IT Carrentine	1	Project No.:	409721.02.05
	1200 5	ample End: (Date) 6/201	91 (Time) 1210
mpled by: GARDWER / SAMEDEA			
orig. SWL: <u>73.34</u> rt BTOC* Final SV icreen Interval:		t. BTOC	
Temp pH Cond. Turbidity			
23.7 7.01 1150 4.81	Are	parameters 20%	
	O1	purge values? ON (	Green TURBID
	Rep	urge Y (N	
	No.	repurge volumes:	
		PVC [	J
Feristaltic Pump  Hand	here pump set:	placement Pump	Other
Sampling Equipment (Make, Model, etc.)  Sample Equipment Decon'd? (Y)/ N  If pump or discrete bailer; Depth(s) w	here pump set:	placement Pump	
Sampling Equipment (Make, Model, etc.)  Sample Equipment Decon'd? (Y)/ N  If pump or discrete bailer; Depth(s) w  Weather: Sugar, Baccar, Hor  Lab Analyses: (Circle)	here pump set:	placement Pump	
Sampling Equipment (Make, Model, etc.)  Sample Equipment Decon'd? (Y)/ N  If pump or discrete bailer; Depth(s) w  Weather: Sugar, Baccar, Hor  Lab Analyses: (Circle)	here pump set:	elacement Pump [	
Sampling Equipment (Make, Model, etc.)  Sample Equipment Decon'd? (V)/ N  If pump or discrete bailer; Depth(s) w  Weather: Sugar, Baccor, Hor  Lab Analyses: (Circle)  VOA SVOA METALS P  Others: Vivil Chuchos  Metals: (Circle) Filtered Unfiltered  Field Dupsa Y/ N  Rei  Comments:	here pump set: DEST/PCBS Both Feree Dups.:	Placement Pump (	
Sampling Equipment (Make, Model, etc.)  Sample Equipment Decon'd? (V)/ N  If pump or discrete bailer; Depth(s) w  Weather: Sugar, Baccar, Hor  Lab Analyses: (Circle)  VOA SVOA METALS P  Others: Vivil Chicago  Metals: (Circle) Filtered Unfiltered  Field Dupsa Y/ N  Rei	here pump set: DEST/PCBS Both Feree Dups.:	Placement Pump (	
Sampling Equipment (Make, Model, etc.)  Sample Equipment Decon'd? (V)/ N  If pump or discrete bailer; Depth(s) w  Weather: Sugar, Baccor, Hor  Lab Analyses: (Circle)  VOA SVOA METALS P  Others: Vivil Chuchos  Metals: (Circle) Filtered Unfiltered  Field Dupsa Y/ N  Rei  Comments:	here pump set: DEST/PCBS Both Feree Dups.:	Placement Pump (	
Sampling Equipment (Make, Model, etc.)  Sample Equipment Decon'd? (V)/ N  If pump or discrete bailer; Depth(s) w  Weather: Sugar, Baccor, Hor  Lab Analyses: (Circle)  VOA SVOA METALS P  Others: Vivil Chuchos  Metals: (Circle) Filtered Unfiltered  Field Dupsa Y/ N  Rei  Comments:	here pump set: DEST/PCBS Both Feree Dups.:	Placement Pump (	
Sampling Equipment (Make, Model, etc.)  Sample Equipment Decon'd? (V)/ N  If pump or discrete bailer; Depth(s) w  Weather: Sugar, Baccor, Hor  Lab Analyses: (Circle)  VOA SVOA METALS P  Others: Vivil Chuchos  Metals: (Circle) Filtered Unfiltered  Field Dupsa Y/ N  Rei  Comments:	here pump set: DEST/PCBS Both Feree Dups.:	Placement Pump (	

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	01114	WELL	0110	CINGI	A 6			Sample	ID No.:	MWZ	102-0	7
	R SKY				06			WELL NO	): ML	15-05		
ZWRAP	Contract	PICE I	PAL AT	baano~	\				Lect No		721.02	
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Submers Peristali	ible Pump		tand Pun	~ 🗆	Gas L	Ift/ Dis	placeme	nt Pump [v	Ter PVC	Other		
Submers Peristali	ible Pump		tand Pun	~ 🗆	Gas L	Ift/ Dis	placeme		Ter PVC	Other		
Peristali Purging	ible Pump Lic Pump Equipmen	Hake	tand Pun , Model,	no 🗌 etc.) <u> </u>	Gas L	ift/ Dis	placement	nt Pump (v 200 Pury	Ter PVC	Other		
Purge W	tic Pump Equipmer tr Contai	Hat (Make	tand Pun , Model, 	np	Gas L	ift/ Dis	placement	nt Pump (v 200 Pury	Ter PVC PVC	Other ment De		
Purge W	tic Pump Equipmen tr Contai	Hat (Make	tand Pun , Model, 	np	Gas L	ift/ Dis	placement	nt Pump (v 200 Pury	Ter PVC PVC	Other		
Peristali Purging Purge W Weather	tic Pump Equipmer tr Contai	nt (Make	tand Pun , Model,	etc.)	Gas L	Ift/ Dis	placement	nt Pump (2000) Pury	Ter PVC  ge Equip	Other ment De		
Peristali Purging Purge W Weather	tic Pump Equipment tr Contai	nerized	tand Pun , Model, ? (V) I	etc.) B  Hor  Depth Of Pump	Gas L.	Ift/ Dis	Cond.	nt Pump (v 200 Pury	Ter PVC ge Equip	Other ment Do		
Peristali Perist	tic Pump Equipment tr Contain	nerized	tand Pun , Model, ? (Y) I Case Pun Depth To Wtr	etc.)	Gas L Enhass Purge Temp (°C)	PATE:	Cond.	nt Pump (v 200 Pung gpm Turbidity (NTa)	Ter PVC  ge Equip	Other ment Do	scon*d?	
Peristali Purging Purge W Weather 1334 Actua Time 1332	tic Pump Equipment tr Contain	vols. Purged (Gels)	tand Pun , Model, ? (V) I	etc.) B  Hor  Depth Of Pump	Gas L Bolossi e Purge Temp (PC) 23.0	PH (S.8)	Cond. (umhos)	Turbidity (NTa)	Ter PVC  ge Equip	Other ment Do	scon*d?	
Purge W Weather 1333 1344	tic Pump Equipment tr Contain	rerized our , B. Vols. Purged (Gals)	tand Pun , Model, ? (Y) I Case Pun Depth To Wtr	etc.)	Gas L Enhas: Purge Temp (°C) 23.0 22.4	pH (\$.8) 6.99	Cond. (umhos)	Turbidity (NTa) 2.49	Ter PVC  ge Equip	Other ment Do	scon*d?	
Peristali Purging Purge W Weather 1334 Course 1332 (344 1355	tic Pump Equipmer tr Contai	Vols. Purged (Gals) 10 26	tand Pun , Model, ? (Y) I Case Pun Depth To Wtr	etc.)	Gas L Enhas: Purge Temp (°C) 23.0 22.4 21.8	pH (s.a) 7.03	Cond. (umhos) 1130 1180	Turbidity (NTa) 2.49 1.44	Ter PVC  ge Equip	Other ment Do	scon*d?	
Peristali Purging Purge W Weather 1333 1344 1355	tic Pump Equipment tr Contains	rerized car, B. Vols. Purged (Gels)	tand Pun , Model, ? (Y) I Case Pun Depth To Wtr	etc.)	Fabrus Purge Temp (°C) 23.0 22.4 21.8 22.8	pH (s.a) 7.03	Cond. (umros) 1170 1180 1190	Turbidity (NTa) 2.49 1.17 1.55	Ter PVC  ge Equip	Other ment Do	scon*d?	
Purge W Weather 1337 1355 1407	tic Pump Equipmer tr Contai	Vois. Purged (Gais) 10 26 40 60 80	tand Pun , Model, ? (Y) I Case Pun Depth To Wtr	etc.)	Fahre Purge Purge (°C) 23.0 22.4 21.8 22.8 22.8	ph (s.a) 7.05 7.06 7.04	Cond. (umhos) 1130 1130 1130	Turbidity (NTa) 2.79 1.59 1.40	Ter PVC  ge Equip	Other ment De	econ'd?	
Peristali Purging Purge W Weather 1334 Actua Time 1333 1344 1355 1403 1414 1431	tic Pump Equipmer tr Contai	Vols. Purged (Gals) (0 26 40 60 60 (Qa)	tand Pun , Model, ? (Y) I Case Pun Depth To Wtr	etc.)	Fahris  Funge  Temp (*C)  23.0  22.4  21.8  22.8  22.7	ph (3.8) 7.03 7.05 7.05	Cond. (umnos) 1130 1130 1130	Turbidity (NTa) 2.49 2.49 1.19 1.40 1.33	Ter PVC  ge Equip	Other ment De	scon*d?	
Purge W Weather 1333 1344 1355 1403 1414 144	tic Pump Equipment tr Contains Elapsed Time	Vois Purged (Gais) 10 26 40 60 (Q) 120	tand Pun , Model, ? (Y) I Case Pun Depth To Wtr	etc.)	Temp (°C) 23.0 22.4 21.8 22.8 22.8 22.9	ph (s.a) 7.03 7.05 7.05 7.05 7.05	Cond. (umros) 1130 1190 1180 1180 1180 1180	Turbidity (NTa) 2.74 2.04 1.55 1.40 1.33 1.58	Ter PVC  ge Equip	Other ment De	econ'd?	
Peristaliourging Purge W Weather 1334 1355 1407 1419	tic Pump Equipmer tr Contai : Sum Elapsed Time	Vols. Purged (Gals) 40 60 60 120 140	tand Pun , Model, ? (Y) I Case Pun Depth To Wtr	etc.)	Temp (°C) 23.0 22.4 21.8 22.8 22.7 224 22.1	PROTECT AND PROTECT AND PARTIES AND PARTIE	Cond. (4mhos) 1130 1130 1130 1130 1130	Turbidity (NTa) 2.79 2.04 1.55 1.40 1.33 1.58	Ter PVC  ge Equip	Other ment De	econ'd?	
Peristali Purging Purge W Weather 1333 Actua Time 1333 1344 1355 1401 1419 1451 145	tic Pump Equipmer tr Contai Elapsed Time	Vols. Purged (Gals) 10 26 40 60 100 100 110	tand Pun , Model, ? (Y) I Case Pun Depth To Wtr	etc.)	Temp (°C)  23.0  22.4  21.8  22.8  22.7  22.4  21.1	PATE:	Cond. (umros) 1130 1130 1130 1130 1130	June 1.99 1.99 1.99 1.99 1.98 1.98 1.90	Ter PVC  ge Equip	Other ment Do	econ'd?	
Purging Purge W Weather 1333 Actua Time 1353 1344 1355 1403 1419 1441	tic Pump Equipmer tr Contai Elapsed Time	Vols. Purged (Gals) 40 60 60 120 140	tand Pun , Model, ? (Y) I Case Pun Depth To Wtr	etc.)	Temp (°C) 23.0 22.4 21.8 22.8 22.7 224 22.1	PROTECT AND PROTECT AND PARTIES AND PARTIE	Cond. (umros) 1130 1130 1130 1130 1130	Turbidity (NTa) 2.79 2.04 1.55 1.40 1.33 1.58	Ter PVC  ge Equip	Other ment Do	econ'd?	

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ONITODING WEI	L SAMPLING LOG	Sample ID No.: MU2-02-0
estallation Say House		WELL NO : JAMEZ - 02 Site: 2
AZWRAP Contractor:	IT CORPORATION	Project No.: 409321.07
	/25/91 (Time) 15/5	Sample End: (Date) 6/26/4/ (Time)
ampled by: GARDING	SAMEDAA	
orig. SWL: 71.64 f	BTOC" Final SWL: 271.	€rt BTOC
Screen Interval: ~ 50	Tt BTO	c
Temp pH Cond.	<b>Turbidity</b>	
23.0 7.01 1100	126.5	Are parameters 20%
		of purge values? TV N Recent Timeson
		Repurge Y /AT
		. 0
		No. repurge volumes:
Sampling Method:		/ SS 🗍 /
Peristaltic Pump 🔲	Hand Pump Gas Lift/ ike, Model, etc.)	
Peristaltic Pump	Hand Pump Gas Lift/ ike, Model, etc.)	PVC Displacement Pump Other
Peristaltic Pump  Sampling Equipment (Ma Sample Equipment Deco	Hand Pump Gas Lift/ ike, Model, etc.)	PVC Displacement Pump Other
Peristaltic Pump  Sampling Equipment (Pi Sample Equipment Deco  If pump or discrete to	Hand Pump Gas Lift/ ike, Model, etc.)  n'd? (Y)/ N  paller; Depth(s) where pump	PVC Displacement Pump Other
Peristaltic Pump  Sampling Equipment (Pi Sample Equipment Deco  If pump or discrete to	Hand Pump Gas Lift/ ike, Model, etc.)	PVC Displacement Pump Other
Peristaltic Pump  Sampling Equipment (Pis Sample Equipment Deco If pump or discrete to Weather:  Suggett,	Hand Pump Gas Lift/ ike, Model, etc.)  n'd? (2)/ N  pailer; Depth(s) where pump	PVC Displacement Pump Other
Peristaltic Pump  Sampling Equipment (Ma Sample Equipment Deco	Hand Pump Gas Lift/ ike, Model, etc.)  n'd? (2)/ N  pailer; Depth(s) where pump	PVC Displacement Pump Other
Peristaltic Pump  Sampling Equipment (Pis Sample Equipment Deco if pump or discrete to Weather:  Suggetty	Hand Pump Gas Lift/ ike, Model, etc.)  n'd? (2)/ N  pailer; Depth(s) where pump	PVC Displacement Pump Other
Peristaltic Pump  Sampling Equipment (Pis Sample Equipment Deco if pump or discrete to Weather: Sugary, Lab Analyses: (Circle)	Hand Pump Gas Lift/ ike, Model, etc.)  n'd? (Y)/ N  paller; Depth(s) where pump  Basser, Hor  PETALS PEST/PCBS	PVC  Other Other Set:  OF)
Sampling Equipment (Plans Sample Equipment Decoupling D	Hand Pump Gas Lift/ ike, Model, etc.)  n'd? (V)/ N  paller; Depth(s) where pump  Becent, Hot  PETALS  PEST/PCBS	PVC  Other Other Set:  OF)
Peristaltic Pump  Sampling Equipment (Pis Sample Equipment Deco if pump or discrete to Weather: Sugary, Lab Analyses: (Circle)	Hand Pump Gas Lift/ ike, Model, etc.)  n'd? (V)/ N  paller; Depth(s) where pump  Becent, Hot  PETALS  PEST/PCBS	PVC  Other Other Set:  OF)
Peristaltic Pump Sampling Equipment (Massample Equipment Decoil pump or discrete to Weather: Successive (Circle) VOA SVOA Others: Viers Candidate (Circle) Fift	Hand Pump Gas Lift/ Ike, Model, etc.)  In'd? (V) N  Italier; Depth(s) where pump  Besser, Hot  PETALS PEST/PCBS  BESS Unfiltered Both	PVC ☐  Displacement Pump ☐ Other  Set:( ≅
Peristaltic Pump Sampling Equipment (Pissample Equipment Decoil pump or discrete to Weather: Successful SVOA SVOA Others: VINY CAN Metals: (Circle) Fift Field Dups.: Y/(Experison of the Pissample	Hand Pump Gas Lift/ Ike, Model, etc.)  In'd? (V) N  Italier; Depth(s) where pump  Besser, Hot  PETALS PEST/PCBS  BESS Unfiltered Both	PVC ☐  Displacement Pump ☐ Other  set:( ≅  °F)  TPE CATIONS ANIONS
Sampling Equipment (Massampling Equipment Decoil pump or discrete to weather: Successive (Circle) VOA SVOA Others: VINY CALL Metals: (Circle) Filt Field Dups.: Y/(A	Hand Pump Gas Lift/ Ike, Model, etc.)  In'd? (IV) N  Italier; Depth(s) where pump  Besser, Hot  PETALS PEST/PCBS  PETALS PEST/PCBS  PETALS PEST/PCBS	PVC ☐ Displacement Pump ☐ Other  set: ( ≅
Sampling Equipment (Massampling Equipment (Massample Equipment Decoulf pump or discrete to Weather: Successive Circles VOA SVOA Others: Viny Can Metals: (Circles Fift Field Dups: Y/(ECOMMENTS: Subsects //(ECOMMENTS: ECOMMENTS)	Hand Pump Gas Lift/ ike, Model, etc.)  n'd? ②/ N  pailer; Depth(s) where pump  Besser, Hor  PETALS PEST/PCBS  PAIDE  Perec Unfiltered Both  Referee Dups.	PVC ☐  Displacement Pump ☐ Other  set:( ≅
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Peristaltic Pump Sampling Equipment (Massacrate) Sample Equipment Deco if pump or discrete to Weather: Success Lab Analyses: (Circle) VOA SVOA Others: Vint Can Metals: (Circle) Fift Field Dups: Y/(A	Hand Pump Gas Lift/ Ike, Model, etc.)  In'd? (?)/ N  Italier; Depth(s) where pump  Besser, Hot  PETALS PEST/PCBS  BESS Unfiltered Both  Referee Dups.  2-02-02 Causarea  Marker Spies (Marker	PVC ☐  Displacement Pump ☐ Other  set:( ≅
Sampling Equipment (Massacrate to Sample Equipment Decourse to Sample Equipment Decourse to Sample Equipment Decourse to Sample Equipment Decourse to Sample Equipment Decourse to Sample Equipment Decourse to Sample Equipment Sample Sample Massacrate	Hand Pump Gas Lift/ Ike, Model, etc.)  In'd? (?)/ N  Italier; Depth(s) where pump  Besser, Hot  PETALS PEST/PCBS  BESS Unfiltered Both  Referee Dups.  2-02-02 Causarea  Marker Spies (Marker	PVC Displacement Pump Other  Set:

										REV. UA	TE: MAY 19
40N170	01116	WELL	0110		06			Sample	ID No.:	MW3-01-	. ૦૧
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IAZWRAP (				OAMTO~					Ject No	: 409721.	03.05
urge Star			121	(Time) (		Pi	inge End	(Date)	6/21/1		170J
urged by:	GAR	WEA	SAN								
Denth Mes	idi iramaf	t Ref S	nint#	T.c	o.c.		\va	W Con 10	~ (	£) 6. Of	
Wall Hiden	ace/Ode	~ ~ 5	6.00- 11	Hab. 92 - A	<u> </u>	ADI (	we	ii Cagilu. (O)/Ni)	2 (2		
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Equipment	_							t (make, r	10 <b>0e</b> 1, et	.C)	
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( - ) Orio											
( - ) Ong	J. DIW.		;	- 016					1		
		24	<u> </u>	r - 0.16 r - 0.65					2		Tota
( - ) Wtr	Col. Thic	k.: 4	<b>32</b> (x)	- 1447	als/ft (	-) <u>56</u> 2	L Gals	S/Csg Vol.	(MZZ	sg Vol. (-	15 4 bro
					<b>S</b>				4	-	Gals
				-	•				5		
Purge Me		_			_		_	_	_ 55		
			dicated (	Bladder Pu	mp 🔲	Bladder	Pump [	Baller [	SS   Tef	Centrifu	pal Pump
		De	dicated (	Bl <b>adder</b> Pu	mp 🔲	Bladder	Pump [	Bailer	SS Tef PVC	Centrifu	ge) Pump
Submersi	ble Pung	_							Tef PVC		pal Pump
Submersi Peristalt	ic Pump	□ +	tand Puri	• 🗆	Gas L	ift/ Dis	placeme	nt Pump (v	Ter pvc	Other	
Submersi Peristalt	ic Pump	□ +	tand Puri	• 🗆	Gas L	ift/ Dis	placeme	nt Pump (v	Ter pvc		
Peristalt Purging E	ble Pung ic Pump Equipmen	Hat (Make	tand Pun , Model,	etc.)	Gas L	Ift/ Dis	placement	nt Pump (v 200_ Pun	Ter pvc	Other	
Peristalt Purging E	ic Pump Equipmen	Hake	tand Pun , Model, 	etc.)	Gas L	Ift/ Disp	placement	nt Pump (v 200_ Pun gpm	Tef   PVC   Te Equip	Other ment Decon*(	
Peristalt Purging E	ic Pump Equipmen	Hake	tand Pun , Model, 7 (Y) 1	etc.)	Gas L	Ift/ Disp	placement	nt Pump (v 200_ Pun gpm	Tef   PVC   Te Equip	Other	
Peristalt Purging E Purge Wt Weather:	ic Pump Equipment T Contain	I Hake	land Pun , Model, ? (Y) h	etc.)	Gas L	Ift/ Dis	olacement of the last of the l	nt Pump (u 300 Pun gom	Ter PVC	Other ment Decon*(	17 <b>(</b> )/N
Peristalt Purging E Purge Wt Weather:	tic Pump Equipment T Contain	herized	tand Pun , Model, ? (Y) I	etc.)C etc.)C Hor	Gas L EANSE e Purge	Ift/ Dis	olacement 11	nt Pump (v 200_ Pun gpm	Tef   PVC   Te Equip	Other ment Decon*(	17 <b>(</b> )/N
Peristalt Purging E Purge Wt Weather: 1426 Actual	ic Pump Equipment Contain	nerized	tend Pun , Model, 7 (Y) 1 Control Depth To Wtr (ft)	etc.)	Gas L EANSE e Purge	Ift/ Dis	Cond.	nt Pump (u. 3200 Pum) Pum gom	Ter PVC	Other ment Decon*(	17 <b>(</b> )/N
Peristalt Purging E Purge Wt Weather: 143 Actual Time	ic Pump Equipment Tontain	nerized	tend Pun , Model, 7 (Y) 1 Control Depth To Wtr (ft)	etc.)	Gas L Salate: Purge Temp (PC)	Rate:	Cond.	nt Pump (J. 1920) Pump gom (NTa)	Ter PVC	Other ment Decon*(	17 <b>(</b> )/N
Peristalt Purging E Purge Wt Weather: 144 Actual Time 1503	ic Pump Equipment Tontain	vols. Purged (Gals)	tend Pun , Model, 7 (Y) 1 Control Depth To Wtr (ft)	etc.)	Gas L EANS: Purge Temp (°C) 21.6 23. Y	Pate:	Cond. (unitos)	Turbidity (NTa)  0.85	Ter PVC	Other ment Decon*(	17 <b>(</b> )/N
Peristalt Purging E Purge Wt Weather: 143 Actual Time 153 159	ic Pump Equipment Contain Successible	vols. Purged (Gals) 10 20	tend Pun , Model, 7 (Y) 1 Control Depth To Wtr (ft)	etc.)	Gas L Salvie Purge Temp (°C) 21.6 23.4	Pate:	Cond. (uminos) IISO (US) IIGO	Turbidity (NTa)  0.85 0.82	Ter PVC	Other ment Decon*(	17 <b>(</b> )/N
Peristalt Purging E Purge Wt Weather: 144 Actual Time 1503 1501 1521 1533	ic Pump Equipment Contain Sure Elapsed Time	rerized over the following of the follow	tend Pun , Model, 7 (Y) 1 Control Depth To Wtr (ft)	etc.)	Gas L Folkis Purge Temp (°C) 21.6 23.4 23.4 23.4	111/ Dist T Mo Rate:	Cond. (umros) 1150 1150 1150 1150	Turbidity (NTa)  0.85  0.41	Ter PVC	Other ment Decon*(	17 <b>(</b> )/N
Peristalt Purging E Purge Wt Weather: 1445 Actual Time 1503 1501 1533 1545	ic Pump Equipment Contain Sure Elapsed Time	vois. Purged (Gais) 10 20 40 80	tend Pun , Model, 7 (Y) 1 Control Depth To Wtr (ft)	etc.)	Gas L Early E Purge Purge Purge (°C) 23.4 23.4 23.4 23.4	17 Dis T Mo Rate:	Cond. (umros) IISO IISO IISO IISO IISO IISO	Turbidity (NTa)  0.85  0.92  0.41  0.38	Ter PVC ge Equip	Other ment Decon*(	17 <b>⊘</b> / N
Peristalt Purging E Purge Wt Weather: 1903 1501 1501 1503 1545 1600	ic Pump Equipment Contain Sure Elapsed Time	vois. Purged (Gais) 10 20 40 80 60	tend Pun , Model, 7 (Y) 1 Control Depth To Wtr (ft)	etc.)	Gas L Falais Purge Purge (°C) 21.6 23.4 23.4 23.3 23.3	11/ Distance   DH (\$.8)   7.01   7.02   7.07   7.02   7.02   7.03   7.02   7.03	Cond. (190) 1130 1130 1130 1130	Turbidity (NTa)  0.85 0.92 0.34 0.41 0.38 ALE-3	Ter PVC ge Equip	Other ment Decon*(	17 <b>⊘</b> / N
Peristalt Purging E  Purge Wt Weather: 1965  Actual Time 1503 1541 1600 1611	ic Pump Equipment Contain Success Elapsed Time	Vols. Purged (Gals) 10 20 40 80 120	tend Pun , Model, 7 (Y) 1 Control Depth To Wtr (ft)	etc.)	Gas L Folkas Purge Purge (°C) 23.4 23.4 23.4 23.3 23.3 23.3	pH (s.a) 7.01 7.02 7.02 7.02 7.04	Cond. (UMPO) 1150 1150 1150 1150 1150	Turbidity (NTa)  0.85  0.92  0.41  0.38  Alb. 3	Ter PVC ge Equip	Other ment Decon*(	17 <b>⊘</b> / N
Peristalt Purging E Purge Wt Weather: 143 Actual Time 1503 1501 1515 1600 1611 1623	ic Pump Equipment Contain Success Elapsed Time	Vois. Purged (Gais) 40 40 40 40 40 140	tend Pun , Model, 7 (Y) 1 Control Depth To Wtr (ft)	etc.)	Temp (°C) 21.6 23.4 23.4 23.3 23.3 25.1 23.1	Pate:	Cond. (190) 1130 1130 1130 1130 1130 1130	Turbidity (NTa)  0.85 0.92 0.34 0.41 0.38 AB-3 0.52 0.83	Ter PVC ge Equip	Other ment Decon*(	17 <b>⊘</b> / N
Peristalt Purging E  Purge Wt Weather: 144  Actual Time 1503 1501 1533 1545 1600 1611 1623	ic Pump Equipment Contain Success Elapsed Time	Vols. Purged (Gais) Vols. Purged (Gais) Vols. Purged (Gais) Vols.	tend Pun , Model, 7 (Y) 1 Control Depth To Wtr (ft)	etc.)	Temp (°C) 23.4 23.4 23.3 23.3 23.1 23.1	11/ Dist T Mo Rate: _ PH (\$.a) 7.01 7.02 7.02 7.02 7.04 7.04 7.05 7.03	Cond. (190) 1130 1130 1130 1130 1130 1130	Turbidity (NTa)  0.85  0.91  0.38  ALB -  0.87  0.89	Ter PVC ge Equip	Other ment Decon*(	17 (D) N
Peristalt Purging E Purge Wt Weather: 1903 Actual Time 1503 1501 1521 1533 1545 1600 1611 1623	ic Pump Equipment Contain Success Elapsed Time	Vois. Purged (Gais) 40 40 40 40 40 140	tend Pun , Model, 7 (Y) 1 Control Depth To Wtr (ft)	etc.)	Temp (°C) 21.6 23.4 23.4 23.3 23.3 25.1 23.1	11 Dist T Mo Rate: _ PH (\$.8) 7.01 7.02 7.03 7.04 7.04 7.05 7.03	Cond. (190) 1130 1130 1130 1130 1130 1130	Turbidity (NTa)  0.85  0.91  0.38  ALB -  0.87  0.89	Ter PVC ge Equip	Other ment Decon*(	17 (D) N

		•						Carrolla	·.	REV. DATE:	
ONITO	RING	WELI	DIID	BING L	06	******		WELL NO	IU NO.	Mw 202-02	
stal lation								Site: 7	i. AW	3-02	
ZWRAP C	ontract	or:	CORM	MOMAG				Pro	ject No.	: 409721.02.	os -
rge Start			/1/_		1510	PL	inge End	(Date)	68h	(Time) 15	30
rged by:											
epth Mea	suremen	it Ref. F	Point=	T.c	<u>).C.</u>		Wel	1 Csg ID:	2 6	D 6° Other_	
/ell Hdsp:	ace/Odo	<u> سا. ا</u>	Baen (4	PH 12-10)	LN	APL (	Check	<b>(N/N)</b>	-BNA	PL Check (+	<del>/ N } _</del> ^
qu!pment	Used 1	o Meas	ture Thi	ckness ar	nd Samp	ole Free	Produc	t (Make, M	lodel, et	<b>c</b> )	
	ا م	WOT	LNTE	eme ?	POGE	Mod	کدر				
				D	epth to	Top ar	nd Botto	m of Scre	en inte	01- 0 . P-10	04,
epth to	LNAPL:	NP	_	De	oth to l	Wor-	محد	Orig. DTW:	70.31	_Final DTW:	10.50
NAPL/DN	APL Thi	ckness.	N	<u> </u>	LN	APL/DN/	APL Sa	mple and	Volum	e	
1easured	Well	TD:	17.64	_							
-) Orig	DTW:		0.31	_							
•				- 0.16					1		
- ) Wtr (	Cal. Thic	k: 29.	38 (x)4	r - 0.65 <sub>G</sub>	ale/ft (:	n 56.	l Gale	/Cen Vol	(LV2)	sg Vol. (=) <u>~ 161</u>	Total
			_6		BIS 16 (	-	VE13	or Cag Vol.	(AQ)	5g Vol. (=) <u>~~ 161</u>	Purge Gals.
		(	~ 10	<u>-111</u>	)				5		0613.
runge Met	hod								SS		
	ole Pump		dicated (	Bladder Pu	mo 🔲 1	Bladder	Pump [	Baller [	] Tef	Centrifugal Pi	.mo[]
	ole Pump	<u> </u>	dicated i	Bl <b>adder</b> Pu	wo 🔲	Bladder	Pump [	Baller		Centrifugal Po	uno[]
Submersit							_		Tef PVC		.mo[_]
Submersit Peristalti	c Pump		land Pun	<b>™</b> □	Gas L	Ift/ Dis	placeme	nt Pump (V	Tef   PVC	Other	
Submersit Peristalti	c Pump		land Pun	<b>™</b> □	Gas L	Ift/ Dis	placeme	nt Pump (V	Tef   PVC		
Submersit Peristalti Purging E	c Pump quipmen	☐ H	Hand Pun	no 🗌 etc.) <u> </u>	Gas L	Ift/ Dis	placemen	nt Pump ( <u>.</u> 200 Pun	Tef   PVC	Other	
Peristalti Purging E Purge Wti Weather:	c Pump quipmen		Hand Pun , Model, ——— ? (Ŷ) 1	no	Gas L	Ift/ Dis	placemen	nt Pump ( <u>.</u> 300 Pun	Tef   PVC	Other ment Decon'd? (	
Peristalti Purging E Purge Wti Weather: 1310	c Pump quipmen Contail	I Hake	Hand Pun , Model, ? (Y) 1	etc.)	Gas L EANS	Ift/ Dis	placemen ⊃c. [8 √ 2	nt Pump [2 3222 Pun gpm	Ter   PVC   7	Other ment Decon'd? (	
Peristalti Purging E Purge Wtr Veather: 1310	c Pump quipmen Contain	nerized	Hand Pun , Model, ? (Y) I	etc.)	Gas L EANS e Purge	r Mo	v 2	nt Pump (v 200 Pury gpm	Ter   PVC   7	Other ment Decon'd? (	
Purging Every Wtracker: 1310  Actual Time	c Pump quipmen Contain Sur-	Interpretation of the control of the	tand Pun , Model, ? (Y) ? Control	etc.)	Gas L Ealors: e Purge Temp (°C)	r Mo Rate: pH (s.a)	Cond.	nt Pump (v 200 Pum gpm Turbidity (NTa)	PVC PVC PVC PVC PVC PVC PVC PVC PVC PVC	Other ment Decon*d? (	
peristalti purging E purge Wtr veather: 1310 Actual Time	c Pump quipmen Contain Sur-	I Hake herized har, B. Vols. Purged (Gals)	Hand Pun , Model, ? (Y) I	etc.)	Gas L Salvas e Purge Temp (°C)	pH (5.8)	Cond. (umros)	gom Turbidity (NTa)	PVC PVC PVC PVC PVC PVC PVC PVC PVC PVC	Other ment Decon*d? (	
Peristalti Purging E Purge Wti Weather: 1310 Actual Time 1312	c Pump quipmen Contain Sur-	I I I I I I I I I I I I I I I I I I I	tand Pun , Model, ? (Y) ? Control	etc.)	Gas L Early E Purge Temp (°C) 23.1	Pate:	Cond. (unros)	gom Turbidity (NTa)  0. 14 1-03	PVC PVC PVC PVC PVC PVC PVC PVC PVC PVC	Other ment Decon*d? (	
Peristalti Purging E Purge Wtr Weather: 1317 Actual Time 1312 1324 1329	c Pump quipmen Contain Sur-	vois. Purged (Gais) 10 20 40	tand Pun , Model, ? (Y) ? Control	etc.)	Gas L Fakus: Purge Purge (°C) 23.1 23.1	pH (\$.8) 7.11 7.11	Cond. (umros) 117-0 117-0	Turbidity (NTa)  1.00	PVC PVC PVC PVC PVC PVC PVC PVC PVC PVC	Other ment Decon*d? (	
Peristalti Purging E Purge Wti Weather: 1312 1312 1329 1337	c Pump quipmen Contain Sur-	Nerized Aur. 13.  Vols. Purged (Gals)  10  20  40	tand Pun , Model, ? (Y) ? Control	etc.)	Gas L Falors  Formp (°C) 23.1 23.1 23.1	pH (s.a) 7.11 7.01	Cond. (umros) 117-0 117-0 117-0	Turbidity (NTa)  1.00	PVC PVC PVC PVC PVC PVC PVC PVC PVC PVC	Other ment Decon*d? (	③/ N
Peristalti Purging E Purge Wtr Weather: 1312 1314 1329 1335 1347	c Pump quipmen Contain Sur-	Vols. Purged (Gals) 10 20 40 80	tand Pun , Model, ? (Y) ? Control	etc.)	Gas L Fakus: Purge Purge (°C) 23.1 23.1 23.1 23.1 23.2	pH (s.a) 7.11 7.01 7.01	Cond. (umros) 117-0 117-0 117-0 117-0	Turbidity (NTa)  1.00  2.43  0.40	PVC PVC PVC PVC PVC PVC PVC PVC PVC PVC	Other ment Decon*d? (	③/ N
Peristalti Purging E Purge Wtr Weather: 1310 Actual Time 1312 1324 1335 1377 1351 1412	c Pump quipmen Contain Sur-	Vois. Purged (Gais) 10 20 40 80	tand Pun , Model, ? (Y) ? Control	etc.)	Gas L Fabric Purge Purge (°C) 23.1 23.1 23.1 23.2 23.2	Pate:	Cond. (170) 1170 1170 1170 1170	Turbidity (NTa) 1.00 0.55	PVC PVC PVC PVC PVC PVC PVC PVC PVC PVC	Other ment Decon*d? (	③/ N
Purging E Purging E Purge Wtr Weather: 1312 1324 1335 1347 1351 1412 1420	c Pump quipmen Contain Sur-	Vols. Purged (Gals)  10  20  40  90  (60  120	tand Pun , Model, ? (Y) ? Control	etc.)	Gas L Fance: Purge Purge (°C) 23.1 23.1 23.1 23.2 23.2 13.1	pH (s.a)  7.01  7.01  7.01  7.01  7.01  7.01	Cond. (umnos) 1170 1170 1170 1170 1170	Turbidity (NTa)  1.00  2.55  0.44	PVC PVC PVC PVC PVC PVC PVC PVC PVC PVC	Other ment Decon*d? (	③/ N
Purging E Purge Wtr Weather: 13(1) 13(1) 13(2) 1351 1351 14(2) 14(2) 14(3)	c Pump quipmen Contain Sur-	Vois. Purged (Gais) 10 20 40 80 (80 120 140	tand Pun , Model, ? (Y) ? Control	etc.)	Gas L Fabric Purge (°C) 23.1 23.1 23.1 23.2 23.2 13.1 13.2 23.2	PRATE:	Cond. (170) 1170 1170 1170 1170 1170 1170	Turbidity (NTa) 1.00 0.40 0.40 0.42 0.42	PVC PVC PVC PVC PVC PVC PVC PVC PVC PVC	Other ment Decon*d? (	③/ N
Purge Wirweather: 1312 1312 1313 1351 1412 1420 1433 1446	C Pump quipmen Contain Success Elapsed Time	Vois. Purged (Gais) 10 20 40 60 120 120 140 160	tand Pun , Model, ? (Y) ? Control	etc.)	Gas L Falore Purge (°C) 23.1 23.1 23.1 23.2 23.2 23.2 23.1 23.2	Pate:	Cond. (umros) 1170 1170 1170 1170 1170 1170	O. 74 1.00 0.45 0.45 0.46 0.46 0.44	PVC PVC PVC PVC PVC PVC PVC PVC PVC PVC	Other ment Decon*d? (	
Peristalti Purging E Purge Wti Weather: 13(1) Actual Time 13(1) 1354 1354 1412 1420 1433	C Pump quipmen Contair Sur-	Vois. Purged (Gais) 10 20 40 80 (80 120 140	tand Pun , Model, ? (Y) ? Control	etc.)	Gas L Fabric Purge (°C) 23.1 23.1 23.1 23.2 23.2 13.1 13.2 23.2	PROTECT AND THE (S.8)  7.12  7.01  7.01  7.02  7.12  7.04  7.10  7.04	Cond. (170) 1170 1170 1170 1170 1170 1170	Turbidity (NTa)  1.00  2.43  0.44  0.44  0.44	PVC PVC PVC PVC PVC PVC PVC PVC PVC PVC	Other ment Decon*d? (	

	REV. DATE: MAY 19
MONITORING WELL SAMPLING LOG	Sample ID No.: ALW3-02-02 WELL NO.: MW3-02
Installation Ser Homor And	Site: 3
HAZWRAP Contractor: 17 Contractor	Project No.: Upg 221 n2 n5
Sample Start: (Date) 6/2 ple; (Time) 15790	Sample End (Date) 6/28/4 (Time) 1520
Sampled by: GARDINGE / SAMEDEA	
Orig. SWL: 70.11 st BTOC* Final SWL: 70.50 Screen Interval: ~ 50 - 100 st BTOC	Pre BTOC
7.08 [7.65	re parameters 20% of purge values? (I) N (Except Tues, Did
R	epurge Y (N)
<u> </u>	o. repurge volumes:
Sampling Method: Submersible Pump Dedicated Bladder Pump Bladde  Peristaltic Pump Hand Pump Ges Lift/ Di  Sampling Equipment (Make, Model, etc.)	Splacement Pump Other
Sample Equipment Decon'd? (2)/ N  If pump or discrete bailer; Depth(s) where pump so	
Weather: Sugar, Besser, Hor  Lab Analyses: (Circle)  VOD SVOA PETALS PEST/PCBS  Others: Vinya Causass; TO Pb	(= 190 °F)  PR CATIONS ANIONS TO
Metals: (Circle) Filtered Unfiltered Both	
Field Dups: (D/ N Referee Dups.:  Comments:  Stance Mul3-02-02 Construction	
FIELD DUPLICES SAMPLE MW3-02-02-	Due Courses MT 1315 Hours.
"BTOC - Below Top of Casing (or other measurement SWL - Static Water Level	reference point)

1111								Sample	ID No.:	REV. DATE: M
				GING L	06			WELL NO	): M	MA-01-05
	AS SEA							Site: 4	1	
ZWRAP	Contract	tor:	Coar	(Time)	1025		eee Eee	(Date)	ject No	: 409721.02.0
	GAR				1015		ye End	(Date)	6/25	AI (Time) O
				T.c						
	pace/Odd							Csg ID:		
	-							(Y)/ N ) :t (Make, r	-BNA	Pt Check (Y.
an: buser	_			_				t (make, r	10 <b>de</b> 1, e1	.c)
	<u> </u>	I ALL ST	NTE	some t						
		.1 ~	,							rvallev
	LNAPL:							•		Final DTW:
	NAPL Th	-			LN	APL/DN/	VPL Sa	mple and	Volum	e
	d Well			_						
-) Ori	g. DTW:		3.43	_						
			2	- 0.16					1	
- ) Wtr	Col. Thi	ck.: <u>19.</u>	(x) (X)	- U.65 Gi	als/ft (	<u>.) 37.</u>	L Gals	Csg Vol.	(xXXX)	sg Vol. (-) 111.3
				1.91				•	4	
									5	
urge Me	ethoct								<u>√SS</u>	
erietal:	tic Dumo	_					_		PVC	
	tic Pump Equipmen		land Pun		Gas L	Ift/ DIS	placeme	nt Pump R	PVC	
Purging Purge W Veather	tr Contai	ht (Make	Hand Pun , Model,	no □ etc.) <u></u> 呈	Gas L	Ift/ Dis	olaceme	nt Pump (8	PVC Zaus ge Equip	Other
Purging Purge W Weather	tr Contai	inerized	tand Pun , Model,	etc.)	Gas L	Ift/ Dis	placeme 6/	nt Pump 18	PVC Vau ge Equip	Other
Purging Purge W Weather	Equipment of the Contain of the Cont	Int (Make	Hand Puri	etc.)	Gas L Entrate Purge	Rate:	Cond.	Adagom	PVC Vau ge Equip	Other
ourging  ourge W  weather  iois  Actua  Time	tr Contain	Int (Make Inerized Not, B Vols. Purged (Gals)	tand Pun , Model, ? (Y) I Depth To Wtr (ft)	etc.) — Gepth Of Pump Intake(ft)	Gas L Purge Temp (°C)	Rate:	Cond.	Adgem Turbidity (NTa)	PVC Jau ge Equip	Other ment Decon*d? (
Purging Purge W Veather 1025 Actua Time	tr Contains	Vols. Purged (Gals)	Hand Puri	etc.) — S  N ) Avg  Hor  Depth Of  Pump  Intake(ft)	Gas L Consulter Purge Temp (°C) 25-2	Rate:	Cond.	Adgement Purpose Purpo	PVC Jau ge Equip	Other ment Decon*d? (
Purging Purge W Weather 1025 Actua Time 1029	tr Contain Sur	Int (Make	tand Pun , Model, ? (Y) I Depth To Wtr (ft)	etc.) — Gepth Of Pump Intake(ft)	Gas L Purge Temp (°C) 25.2	PH (\$.a)	Cond. (umros) 12-10 2730	Adagom Turbidity (NTa) 75.7	PVC Jau ge Equip	Other ment Decon*d? (
Purging Weather 1015 Actual Time 1015 1033	tr Contains Survey of Time	Vols. Purged (Gals) 32/15	tand Pun , Model, ? (Y) I Depth To Wtr (ft)	etc.) — Gepth Of Pump Intake(ft)	Gas L Temp (°C) 25.2 24.8	PH (s.a) 7-07.	Cond. (umpos) 2310 2730 2730	Turbidity (NTa) 75.7 7100	PVC Jau ge Equip	Other ment Decon*d? (
Purging Weather 1025 Actual Time 101911039	Equipment of the Contain Survival Elapsed Time	vols. Purged (Gals) 32/19	tand Pun , Model, ? (Y) I Depth To Wtr (ft)	etc.) — Gepth Of Pump Intake(ft)	Gas L Temp (°C) 25-2 24-8 24-8	pH (s.a) 7-07. 7-14	Cond. (umos) 2310 2730 27660	Turbidity (NTa) 75.4 7100	PVC Jau ge Equip	Other ment Decon*d? (
Actual Time 1032 1032 1055	tr Contain Survey Time	Vols. Purged (Gals) 32/19 20 27	tand Pun , Model, ? (Y) I Depth To Wtr (ft)	etc.) — Gepth Of Pump Intake(ft)	Gas L Temp (°C) 25-2 24-8 24-8	PH (s.a) 7-07.	Cond. (umos) 2310 2730 27660	Turbidity (NTa) 75.4 7100	PVC Jau ge Equip	Other ment Decon'd? (
Actual 1032 1032 1056	Equipment of Contains Survey of Time 3	vols. Purged (Gals) 32/19	tand Pun , Model, ? (Y) I Depth To Wtr (ft)	etc.) — Gepth Of Pump Intake(ft)	Gas L Temp (°C) 25-2 24-8 24-8	pH (s.a) 7-07. 7-14	Cond. (umos) 2310 2730 27660	Turbidity (NTa) 75.4 7100	PVC Jau ge Equip	Other ment Decon'd? (3  OF)  Comment  1053 - Day  DAY (1234)
Actual Time 1039 1039 1036 1135	tr Contain Sun	Vols. Purged (Gals) 32/19 20 27	tand Pun , Model, ? (Y) I Depth To Wtr (ft)	etc.) — Gepth Of Pump Intake(ft)	Gas L Purge Temp (°C) 25.2 24.8 24.8 24.9	pH (s.a) 7-07 7-14 7-12 7-12	Cond. (umros) 2410 2730 2580	Turbidity (NTa) 75. 7 7.000 7.000	PVC Taus ge Equip	Other
Actual 1032 1032 1056	tr Contain Sun	Vols. Purged (Gals) 32/19 20 27	tand Pun , Model, ? (Y) I Depth To Wtr (ft)	etc.) — Gepth Of Pump Intake(ft)	Gas L Purge Temp (°C) 25.2 24.8 24.8 24.9	pH (s.a) 7-07. 7-14	Cond. (umos) 2310 2730 27660	Turbidity (NTa) 75.7 7100 71000	PVC Taus ge Equip	Other ment Decon'd? (3  OF)  Comment  1053 - Day  DAY (1234)
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	REV. DATE: MAY 199
	Sample ID No.: ALWY-01-02
TONITORING WELL SAMPLING LOG	WELL NO.: MW4-01
Installation: Say Honor And	Site: 4
HAZWRAP Contractor:   T Contractor:   T Contractor:   T Contractor:   123   Sample Start: (Dete)   L/29/4/ (Time)   23   Sample	Project No.: 409321.02.05
Sempled by Cas Duris / Same Dea	End (page) Page (Lime) 9 432
Sampling Method: Submersible Pump Dedicated Bladder Pump Bladder Pump	ge values? // N(Erc++ Texe=1213)  Y N  ge volumes:  SS
Peristaltic Pump	
If pump or discrete bailer; Depth(s) where pump set:	ft BTC
Weather: Sugar, Breeze, Hor	
Lab Analyses: (Circle)	
VOA SVOA (PETALS) PEST/PCBS (TI	CATIONS ANIONS TOS
Others VINTE CHICAGO	
Metals: (Circle Filtered Unfiltered Both	
Field Dups.: Y/ Referee Dups.: Y/	<b>D</b>
Comments:	_
· · · · · · · · · · · · · · · · · · ·	235 House / YOA & VILLY
	1 / 2 6
	~ 6/29k1 ). Sauce 144-01-0
- Craver offered or 0745 kan; 6	1 28 91
"BTOC - Below Top of Casing (or other measurement referen	nce point)
SWL - Static Water Level	

		•						Sample ID	No.: M	W4-02-02	
NITORI	NB W	ELL	PURG	NG LO	G			WELL NO.:		1-02	
allation			الكاننات				9	ite: 4			
WRAP CO			CORTOR	Mon						409721.02.	
ge Start: (	(Date)	6/24			7908	Purc	e End: ((	78(8) <b>9</b>	22/91	(Time)	0 120
ged by:	CARDIE	ver S	1246	<u> </u>							<del></del>
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Purging Ed Purging Ed Purging Ed Purge Wtr Weather, - 0908 Actual Time 0911 0914	Pump Pump Pump Pump Pump Contain Sunt Elapsed Time	Vois. Purged (Gais) 2 1/2 4 5 6 27 1/2	Depth To Wtr	etc.) — Petc.) — Petc.) Avg. Hor Pump Insake((1)	Temp (°C)  26.1  25.8	Pate: 2 Pate: 2 Ph (s.a) 7.04 7.20 7.21 7.28 7.38	Cond (united)  1050 1050 1060	VA gom  Turbidity (NTa)  21.9  29.8  64.0  27.8  15.45	PVC (	Other	(A)
Purging Ed Purging Ed Purging Ed Purge Wtr Weather, - 0908 Actual Time 0911 0914 0931	Pump Contain Sum Elapsed Time	Vols. Vols. Vols. Vols. 2 '/2. 6 25 27 '/2.	Depth To Wtr	etc.) — Beth of Pump Installe(ft)	Temp (°C)  26.1  26.1  26.3	PH (3.3) 7.04 7.20 7.21 7.28 7.38	Cona (umnos) ioso ioso ioso ioso ioso ioso ioso	VA gom Turbidity (NTa) 21-9 28-8 64.0 27-8	PVC (	Other	(A)
Purging Ed Purging Ed Purging Ed Purge Wtr Weather, 0908 Actual Time 0914 6921 0934	Pump Contain Sum Elapsed Time	Vois. Purged (Gais) 2 1/2 4 5 6 27 1/2	Depth To Wtr	etc.) — Petc.) — Petc.) Avg. Hor Pump Insake((1)	Gas L1 24.6 26.1 25.8 26.3	Pate: 2 Pate: 2 Ph (s.a) 7.04 7.20 7.21 7.28 7.38	Cona (umnos) ioso ioso ioso ioso ioso ioso ioso	VA gom  Turbidity (NTa)  21.9  29.8  64.0  27.8  15.45	PVC (	Other	(A)
Purging Ed Purging Ed Purging Ed Purge Wtr Weather, - 0908 Actual Time 0911 0914 0931	Pump Contain Sum Elapsed Time	Vols. Vols. Vols. Vols. 2 '/2. 6 25 27 '/2.	Depth To Wtr	etc.) — Petc.) — Petc.) Avg. Hor Pump Insake((1)	Temp (°C)  26.1  26.1  26.3	PH (3.3) 7.04 7.20 7.21 7.28 7.38	Cona (umnos) ioso ioso ioso ioso ioso ioso ioso	VA gom Turbidity (NTa) 21-9 28-8 64.0 27-8	PVC (	Other	(A)
Purging Ed Purging Ed Purging Ed Purge Wtr Weather, - 0908 Actual Time 0911 0914 0931	Pump Contain Sum Elapsed Time	Vols. Vols. Vols. Vols. 2 '/2. 6 25 27 '/2.	Depth To Wtr	etc.) — Petc.) — Petc.) Avg. Hor Pump Insake((1)	Temp (°C)  26.1  26.1  26.3	PH (3.3) 7.04 7.20 7.21 7.28 7.38	Cona (umnos) ioso ioso ioso ioso ioso ioso ioso	VA gom Turbidity (NTa) 21-9 28-8 64.0 27-8	PVC (	Other	(A)
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Term

•	Sample ID No.: MW4 - 02 - 02
ONITORING WELL SAMPLING LOG	WELL NO : MW4-01-05
istallation: Sky Horoce And G	Site: 4
AZWRAP Contractor: IT Contractor	Project No.: 409321.02.05
ample Start: (Date) 6/27/41 (Time) 1/35	Sample End (Date) // 4) 6/23/e/(Time) 1/45
empled by: GARDINGE / SAMEDEA	14
Orig. SWL: 27.14 rt BTOC* Final SWL: WA	тос
26.6 2.38 1050 6.50	of purge values? (9) N (Except Tuesion)
	Repurge Y/(B)
<del></del>	No. repurge volumes:
Sampling Method: Submersible Pump Dedicated Bladder Pump B  Peristaltic Pump Hand Pump Gas Lii	PVC
Peristaltic Pump	PVC Displacement Pump Other
Sampling Equipment (Make, Model, etc.)  Sample Equipment Decon'd? (V)/ N  If pump or discrete baller; Depth(s) where pur  Weather:Succest, Becare, Hor  Lab Analyses: (Circle)  VOA SVOA PETALS PEST/PCE	PVC Other Other
Sampling Equipment (Make, Model, etc.)  Sample Equipment Decon'd? (V) N  If pump or discrete baller; Depth(s) where pur  Weather: Sugar, Beser, Hor  Lab Analyses: (Circle)  VOA SVOA PETALS PEST/PCE  Others: VINHE CHECKER.  Metals: (Circle) Filtered Unfiltered Bot	PVC Other Other Other It BT
Sampling Equipment (Make, Model, etc.)  Sample Equipment Decon'd? (V)/ N  If pump or discrete baller; Depth(s) where pur  Weather:Succest, Becare, Hor  Lab Analyses: (Circle)  VOA SVOA PETALS PEST/PCE	PVC Other Other
Sampling Equipment Decon'd? (Y) N  If pump or discrete bailer; Depth(s) where pur  Weather: Sugar, Baser, Hor  Lab Analyses: (Circle)  VOA SVOA HETALS PEST/PCE  Others: VINAR Character  Metals: (Circle) Filtered Unfiltered Bot  Field Dups: Y/ (N) Referee Du  Comments:  Sugar - 02-02 Course	PVC Other Other

ONITA	DING	WELL	DUG	GING L	0.6			5ample	ID No.:	MW5-01-02	
rstallation					<u> </u>			WELL NO	: M	W5-01	
AZWRAP (	Contract	-	(22.3		- 00	16		1000	Jost Ma	.: 409721-02-0	•
urge Star	t: (Date)	6/2	6191	(Time)	0030	My Pi	urge End	(Date)	reh:	(Time) //	œ
urged by:	GAN	unite.	SARVE	244							
Depth Mea	suremer	nt Ref. F	Point#	T.c	).C.		Wei	l) Csa ID:	2 6	6° Other_	
Well Hds0	ace/Odo	r vo.	Leen (x	102 PI-10	9 LN	IAPL (	Check	(Y)/N)	-BNA		/ NI N
								t (Make, M			-11-1
	_			eme t							
			1.611.6								
		MA								- N 20-10	
Depth to	•									2 Final DTW: 3	2. 4
LNAPL/DA	IAPL Th	ickness.	N_	2	_ LN	APL/DN/	APL Sa	mple and	Volum	e: NA	
Measured				_							
( - ) Orig	DTW:		12.27	_							
				- 0.16					1		
( - ) Wtr#	Col. Thic	k. 28.	<u>чі (x)</u> 4	r - 0.65 <sub>G:</sub>	als/ft (·	-) 54.	3 Gale	VCSO Vot	(x) <del>2</del> 7	<b>3</b> g Vol. (•) <u>∨ 163</u>	Tot
			-	1.77	_	-		wesy von	٠٠٠	<b>39</b> VOI. (=)	– Pur Gal
			C 2 10	<u>"- 1:91</u>	>				5		08
Purge Mel	thad								==		
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									DVC		
	_			_				_	PVC		
								nt Pump [	3	Other	
									3	Other	N VG
									3		N VG
Purging E	quipmer	nt (Make	, Model,		EANE	Mo	كد ا	200_ Pun	ge Equip	ment Decon*d?	n (G
Purging E Purge Wt Weather:	r Contai	nt (Make	, Model,	etc.)_[3	EANE	Mo	كد ا	200_ Pun	ge Equip		D/ N
Purging E Purge Wt Weather:	r Contai	nerized	, Model,	etc.)	e Purge	Rate:	كد ا	Pury	ge Equip	ment Decon*d?	
Purging E Purge Wt Weather:	r Contai	nerized	, Model,	etc.) S H or Depth Of Pump	e Purge	Rate: _	v 2	gpm Turbidity	ge Equip	ment Decon*d?	אי ע <u>פ</u>
Purging E Purge Wt Weather: Actual Time	r Contai	nerized nerized ner, B Vols. Purged (Gals)	Pepth To Wtr	etc.)	e Purge	Rate: pH (s.a)	Cond.	OC Pury	ge Equip	oment Decon*d?	D/ N
Purging E Purge Wt Weather:  Actual Time 0846	Contains Supposed Time	nerized out, B  Vois. Purged (Gels)	Pepth To Wtr	etc.) S H or Depth Of Pump	Temp (°C)	PH (3.8)	Cond.	gpm Turbidity (NTa) 0.76	ge Equip	oment Decon*d?	9) N
Purging E Purge Wt Weather: S Actual Time 0846 0816	Contai Suu Elapsed Time	vols. Purged (Gels) 10	Pepth To Wtr	etc.)	Temp (**C) 23.0	Pate: pH (s.a) 6.82 6.95	Cond. (umnos) 10 <sup>7</sup> 0 1110	Turbidity (NTs)	ge Equip	oment Decon*d?	N (8)
Purging E Purge Wt Weather:  Actual Time 0846 0358	Contai Sund Elapsed Time	vols. Purged (Gals) 10 20	Pepth To Wtr	etc.)	Temp (°C) 2). 1 25.0 22.9	pH (8.8) 6.82 6.93	Cond. (umnos) 1070 1110 1150	7 Purplidity (NTa) 0.76 0.68	ge Equip	oment Decon*d?	D N
Purging E Purge Wt Weather: S GDS Actual Time 0846 0358 0511	Contai Sum Elapsed Time	vois. Purged (Geis) 10 20 40	Pepth To Wtr	etc.)	Temp (°C) 2).1 23.0 12.9	Pate:	Cond. (umnos) 1070 1110 1150	7urbidity (NTa) 0.76 0.68 0.12	ge Equip	oment Decon*d? (Comment	
Purging E Purge Wt Weather:  Actual Time 0846 0856 0111 0924	Contai Successions Elapsed Time	vois. Purged (Gals) 10 20 40 80	Pepth To Wtr	etc.)	Temp (°C) 2).1 23.0 12.9 12.9 27.8	pH (s.a) 6.82 6.93 7.00 7.03	Cond. (umpos) 1070 1110 1150 1160	7urbidity (NTa) 0.76 0.68 0.42 0.63	ge Equip	oment Decon*d?	
Purging E Purge Wt Weather:  Actual Time 08% 0858 0511 0724 0134	Contai Sund Elapsed Time	vols. Purged (Gels) 10 20 40 60 100	Pepth To Wtr	etc.)	Temp (°C) 2).1 23.0 12.9	pH (3.a) 6.82 6.95 6.91 7.00 1.03	Cond. (umnos) 10-70 1110 1150 1160 1160	7urbidity (NTa) 0.36 0.68 0.63 0.63 0.63	ge Equip	oment Decon*d? (Comment	
Purging E Purge Wt Weather: SS GBS Actual Time 0846 0856 011 0124 0134	Contai Sund Elapsed Time	vois. Purged (Gals) 10 20 40 80	Pepth To Wtr	etc.)	Temp (°C) 2).1 23.0 12.9 12.8 22.8 12.9	PATE:	Cond. (umhos) 1070 1110 1150 1160 1170	Turbidity (NTa) 0.76 0.68 0.30 0.64 0.60	ge Equip	oment Decon*d? (Comment	
Purging E Purge Wt Weather:  Actual Time 08% 0858 0511 0724 0134	Contai Sund Elapsed Time	vols. Purged (Gels) 10 20 40 60 100	Pepth To Wtr	etc.)	Temp (*C) 2).1 23.0 12.9 12.8 22.8	pH (3.a) 6.82 6.95 6.91 7.00 1.03	Cond. (umhos) 1070 1110 1150 1160 1170	7urbidity (NTa) 0.36 0.68 0.63 0.63 0.63	ge Equip	Comment  Origo - Creaning	
Purging E  Purge Wt Weather:  St GBS  Actual Time  0846  0856  0111  0124  0134	Contai Sund Elapsed Time	vois. Purged (Gais) 10 20 40 60 100	Pepth To Wtr	etc.)	Temp (°C) 2).1 23.0 12.9 12.8 22.8 12.9	ph (s.a) 6.82 6.95 6.91 7.00 1.03 1.05 1.00	Cond. (umnos) 1070 1110 1150 1160 1160	Turbidity (NTa) 0.76 0.68 0.30 0.64 0.60	ge Equip	Comment  Orso Grand	
Purging E Purge Wt Weather:  Actual Time 0846 0358 0511 0124 0134	Contai Sund Elapsed Time	vois. Purged (Gais) 10 20 40 60 100 120 140	Pepth To Wtr	etc.)	Temp (°C) 2).1 23.0 12.9 12.8 22.8 12.9 21.9	pH (3.8) 6.82 6.95 6.93 7.00 7.01 7.00	Cond. (umnos) 1070 1110 1150 1160 1160 1160	7urbidity (NTa) 0.36 0.68 0.30 0.63 0.65 0.65	ge Equip	Comment  Origo - Creaning	

	Sample ID No.: MW5-01-02
ONITORING WELL SAMPLING LOG	WELL NO: MWS-01
Stallation: Sky Heador Anis	Project No.: 404721.02.05
mple Start: (Date) (126/4) (Time) 1045	Sample End: (Date) 6/26/21 (Time) //00
mpled by: GARDWAL / SAMEDRA	
rig. SWL: 72.27 ft BTOC* Final SWL: 72. creen interval: ~ 50 - (00 ft B Temp pH Cond. Turbidity 23.1 6.99 1070 3.20	
	No. repurge volumes:
	iw. reparge volumes.
eristaltic Pump	
if pump or discrete bailer; Depth(s) where pur	mp set:t 8T
	( ~ OF)
Weather: Sugar, Besser, Hot	( ≃ •F)
Weather: Sugar, Besser, Hor	( ≃ °F)
weather: Sugar, BREET, Hot	
weather: Sugar, Becest, Hot  Lab Analyses: (Circle)  VOA SVOA PETALS PEST/PCE	
weather: Sugar, BREET, Hot	
weather: Sugar, Becest, Hot  Lab Analyses: (Circle)  VOA SVOA PETALS PEST/PCE	SS TPH CATIONS ANIONS TO
Weather: Sugar, BREET, Hor  Lab Analyses: (Circle)  VOA SVOA FETALS PEST/PCE  Others: Altreate Altreate  Metals: (Circle) Filtered Unfiltered Bol	BS TPH CATIONS ANIONS TO
Weather: Sugar, BREET, Hor  Lab Analyses: (Circle)  VOA SVOA PETALS PEST/PCE  Others: Altreat Altrete  Metals: (Circle) Filtered Unfiltered Bot  Field Dups: Y/N Referee Du	SS TPH CATIONS ANIONS TO
Weather: Sugar, BREET, Hot  Lab Analyses: (Circle)  VOA SVOA PETALS PEST/PCE  Others: Altered Antered  Metals: (Circle) Filtered Unfiltered Bot  Field Dups.: Y/N Referee Du  Comments:	ES TPH CATIONS ANIONS TO
Weather: Sugar, Becest, Hor  Lab Analyses: (Circle)  VOA SVOA FETALS PEST/PCE  Others: Authors / Authors  Metals: (Circle) Filtered Unfiltered Bot  Field Dups: Y/N Referee Du  Comments:  Shaves: NWS-01-02 Course	ES TPH CATIONS ANIONS TO  ED AT 1845 House
Weather: Sugar, BREET, Hot  Lab Analyses: (Circle)  VOA SVOA PETALS PEST/PCE  Others: Altered Antered  Metals: (Circle) Filtered Unfiltered Bot  Field Dups.: Y/N Referee Du  Comments:	SS TPH CATIONS ANIONS TO  Th  TPS: Y/N
Weather: Sugar, Becest, Hor  Lab Analyses: (Circle)  VOA SVOA FETALS PEST/PCE  Others: Authors / Authors  Metals: (Circle) Filtered Unfiltered Bot  Field Dups: Y/N Referee Du  Comments:  Shaves: NWS-01-02 Course	ES TPH CATIONS ANIONS TO  ED AT 1845 House

# APPENDIX I SLUG TESTS AND ANALYSIS



By SUS Date 8-3-91 Subject SLUF TEST ANALYSIS - SKY HARBOR Sheet No. 1 of 9 Child By SAL Date 10-30-91 ANK BASE, PHOENIX, AZ \_\_\_\_Proj. No. 409721, 97,09

PROBLEM: DETERMINE HYDRAULIC CONDUCTIVITY OF ALLUVIAL AQUIFER

USING RISING HEAD SLUG TEST

SOLUE SLUG TEST ANALYSIS FOR UNCONFINED AQUIFER USING

METHOD OF BOWER AND RICE (1976), ATTACHMENT 1.

BOUWER AND RICE EQUATION:

Where:

K= hydraulic conductivity (LA)

To adios of well cosing (1)

Le = length of well screen open to aquifer (1)

yo = drawdown at time, t=0 (L)

yt = drawdown at some later time, t(L), (T)

In (Re/rw) = Calculated term describing effective head loss dissipation into aquifer.

$$\ln \left( \frac{Re}{r_{\omega}} \right) = \frac{1.1}{\ln \left( \frac{L\omega}{r_{\omega}} \right)} + \frac{A+8 \times \ln \left( \frac{H-L\omega}{r_{\omega}} \right)}{\left( \frac{Le}{r_{\omega}} \right)} = 0.2$$

where!

rw = radius of the borehole (L)

H = saturated thickness of the aguifer (L)

Aand B = graphically derived constants (unitless)

Lw = length of well screen below the watertable (1)

### INTERNATIONAL CORPORATION

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H is determined from literature and is estimated to be 350ft (Brown and Pool, 1989)

Because the water level fluctuated within the screened interval in all wells the terms Le and Lw are equivalent (see Figure 1).

Because the water level is within the screened interval, ic in equation i how to be adjusted to account for porosity of filter pack.

$$C_c = \left[ C_c + v \left( C_n - C_c \right) \right]_{x}$$

where:

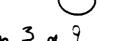
n = filter pack porosity.

Tc = 0.66 Fx. (well construction logs) N = 0.35 assumed Tw = 0.40 FT

The empirical constants A and B are derived from Bouwer and Rice Figure 3. The quotient Le/ru is calculated and the values are read from the x-axis to their respective curves, and over to each renticulaxis.

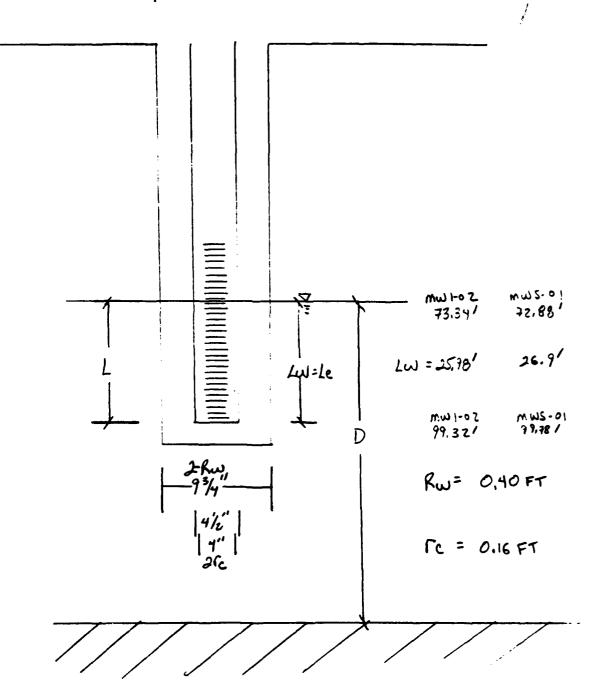
$$MWS-01$$
 $Le/\Gamma w = \frac{26.9}{0.4} FT$ 
 $= 67.25$ 

#### INTERNATIONAL TECHNOLOGY CORPORATION



By SWS	Date 8-3-91	Subject SLUG TEST ANALYSIS - SKY HA	NEBOR Sheet No. 3 of 9
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#### FIGURE 1



#### PHIENATIONAL CONTROL

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To find yo, Yt, and t, a graph of logarithm drawdown (1) versus time is constructed, See FIGURES 2 AND 3.

USING EQUATION Z

For MWS-0 | .26  

$$\ln (R/rw) = \ln (26.9/0.4) + 3.25 + 0.6 \times \ln \left[ \frac{350 - 26.9}{0.4} \right]^{-1}$$
(26.9/0.4)

In (Re/rw) = 2.70 unitless For MWS-01

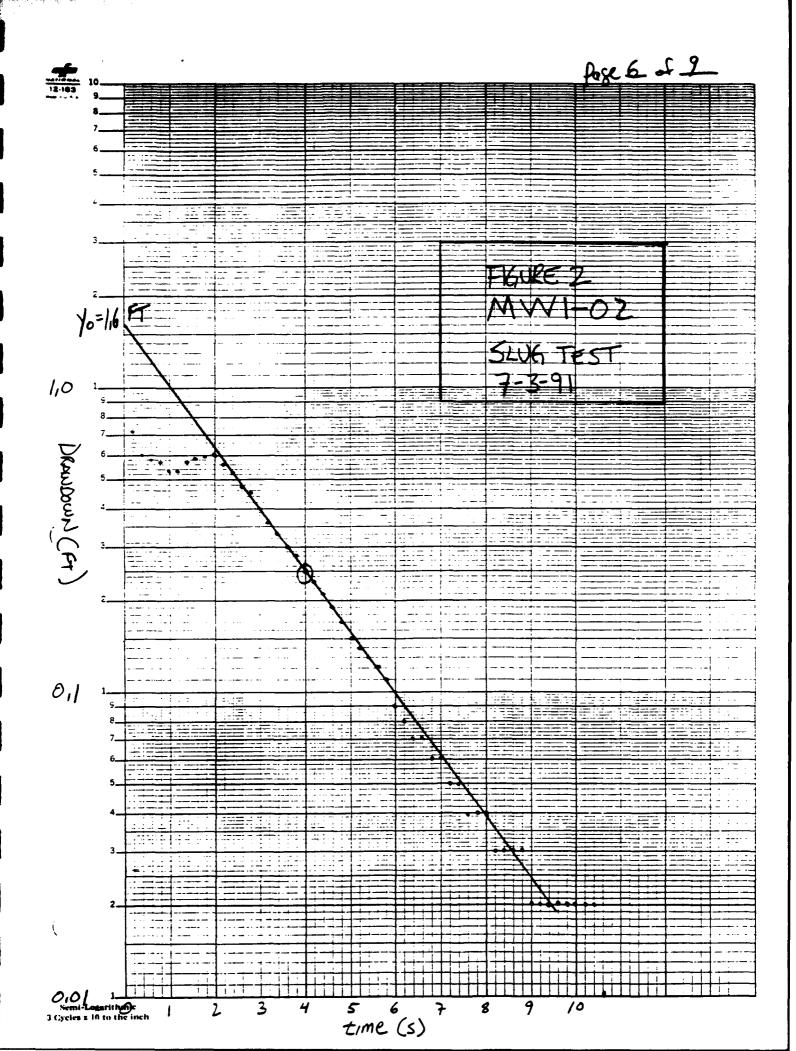
In (Re/rw) = 2.70 unitless For MW1-02

## INTERNATIONAL TECHNOLOGY CORPORATION

By SUS Date 8-3-91 Subject SUS TEST ANALYSIS - SKY HARBOR Sheet No. 5 of 9
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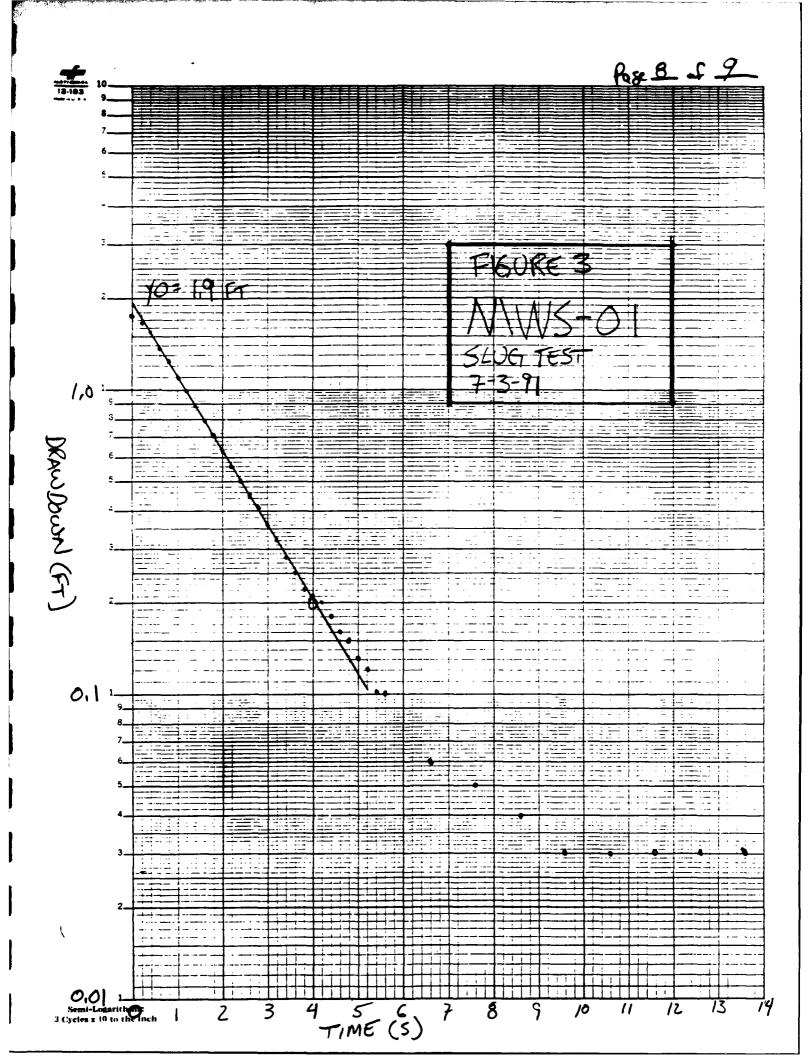
MW1-02

_ 1	(~)	1 . 1	1=.	,	1 /=->	11	(~)
Zime	h (Fi)		own (Ft)	time	1- (FT)		um (FT)
to = 10:53:12	7.87	(FT)			7,70	0.17	,8
10:53:1 <b>3,0</b>	7,71	0.0		. 2	7,72	0,15	5,0
13.2	7.52	0.35	700	4، المر	7.73	0,14	. 7
13, 4	7.29	0,58	Jawas	, 6	7.74	0,13	,4
13.6	7,16	0.71	West pools	` , <b>8</b>	7.75	0.12	٠ ٤
138	7.19	0.68	المحملا الم	120,0	7.76	0.11	, 8
De3111 : 14.0	7.16	0,71	<del>-</del> (t)	, (	7,78	0,09	6.0
٦,	7.04	0.83	00,	14	7.79	0,08	۲,
,4	7.15	0.72	,2	, <b>6</b>	3,80	60.0	14
۵,	7.27	0,60	19	, 8	7.80	60,0	16
,8	7.29	0,28	, 6	:21,6	181	0.06	, €
: 15,0	7,30	0.57	18	5،	7,81	0.06	7,0
٠٤	7.34	0.53	1,0	.4	7.82	0.05	.7
,4	7.34	0.53	. [	, (	7.82	0.05	,4
, 6	7.30	0,57	,4	18	7.83	0,04	٠,٢
18	7.29	0,58	, 6	: 22.0	7,83	0,04	.8
:/6,0	7.28	0.59	,8	٤.	7,83	004	€.0
, 2	7.27	0,60	2,0	.4	7.84	0,03	. 7
, 9	7.31	0,56	,Z	.6	7.84	0,03	.4
,6	7.35	0.52	.4	.8	7.84	0.03	٠, ٢
,8	7.40	0,47	, (	1230	7.84	0.03	.8
:17,0	7,44	0.43	.8	12	7.85	0,02	7.0
12	7.47	0,40	3,0	,4	7.85	0,02	. 2
.4	7,51	0.36	.2	۵,	7.85	0.02	, ۴
,6	7.54	0.33	,4	.8	7.85	202	. (
, \$	_	0,30	,6	: 24,0	7.85	0,02	,8
: 18,0		0,28	18	, ١		002	10,5
, ,	<u>.</u>	0,25	4.0	.4	7.85	0.02	2,
. 4		0.23	,1	, 6	7,85	902	,4
, 6	•	0,21	.4	18	_	0.01	16
, &	_ ^	0.19	16				



#### INTERNATIONAL TECHNOLOGY CORPORATION

By <u> </u>	8-3-91	Subject SCUG TEST A	NALYSIS- SKY HARBOT	Sheet No. 7 of 9
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mws-01		·		
time h	(FT) 11.85	draw down (FT)	time h (f	+) drawdown (t)
11:04:56;.2	11,69	0,16	, 6 /0,8	
,4	11,33	0.52	.8 10,	·
.6	10,89	0.96	11:05:03.0 11.0	
,8	10,61	1.24	12 11,1	
.57,0	10.39	1.96	14 11.2	2 0.63 2.0
۱۲	10,22	1.63	,6 11.2	9 0,56 2.2
,4	10.25	1.60	18 11,3	35 0,50 2.4
16	10.50	1.35	05:04.0 11.4	10 0.45 2.6
.8	11,10	0.75	رار ک <sub>ا</sub>	14 0.41 2.8
58.0	11.72	0.13	19 11.9	17 0.36 3
٦,	11.76	0.09	ر/از )،	13 0.32 3,2
,4	11,35	0,50	16 11.5	57 0128 EH
, 6	10.86	0.59	: OS, 6 //.	10 0.25 3.L
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,2	10,77	1.08	.6 //,	65 0120 4.2
٠4	11.25	0,60		(7 0,18 4.4
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11;05;00.0	10,99	0,86	.9 11.	
, 2	10,58	a, 6 7	<b>A</b>	73 0.12 5.
,4	10,63	1.22	.8 //.	75 0.10 5.4
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18	10.58	1.27 day	16.5 16.0 16.0 16.0 16.0 16.0 16.0 16.0 16.0	
:01,00	10133	1.25 Upran	09.0 /	1.80 0.05 7.6
polin 15	10.34	1.17 1.27 1.52 May draw 1.51 May (4) 1.76 0 1.67 0.2	10,0 /	1.81 0.04 8,6
.4	10.09	1.76 0	11.0	11.82 0,03 9.6
, 6	10,18	., . ,	, 5, - ,	1,82 0,05 10,6
.8	10,31	1.54 .4		1.82 0.0 3 11.6
:02,0	10,48	1,37 ,6		11,82 0,03 12,6
,7	10.62	1.23 18		11.83 0.03 136
,4	25,01	1,10 10	16,0 /	1,63 0.05 14,6 108-10-85



#### INTERNATIONAL CONFORMATION

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Child. By Sh. Date 10-30-9 ANK BASE, PHOENIX, AZ Proj. No. 4087211.02.09

FOR MWS-01

FOR MW1-02

# A Slug Test for Determining Hydraulic Conductivity of Unconfined Aquifers With Completely or Partially Penetrating Wells

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A procedure is presented for calculating the hydraulic conductivity of an aquifer near a well from the rate of rise of the water level in the well after a certain volume of water is suddenly removed. The calculation is based on the Thiem equation of steady state flow to a well. The effective radius  $R_s$  over which the head difference between the equilibrium water table in the aquifer and the water level in the well is dissipated was evaluated with a resistance network analog for a wide range of system geometries. An empirical equation relating  $R_s$  to the geometry of the well and aquifer was derived. The technique is applicable to completely or partially penetrating wells in uncontined aquifers. It can also be used for contined aquifers that receive water from the upper confining layer. The method's results are compatible with those obtained by other techniques for overlapping geometries.

With the slug test the hydraulic conductivity or transmissibility of an aquifer is determined from the rate of rise of the water level in a well after a certain volume or 'slug' of water is suddenly removed from the well. The slug test is simpler and quicker than the Theis pumping test because observation wells and pumping the well are not needed. With the slug test the portion of the aquifer 'sampled' for hydraulic conductivity is smaller than that for the pumping test even though with the latter, most of the head loss also occurs within a relatively small distance of the pumped well and the resulting transmissibility primarily reflects the aquifer conditions near the pumped well.

Essentially instantaneous lowering of the water level in a well can be achieved by quickly removing water with a bailer or by partially or completely submerging an object in the water, letting the water level reach equilibrium, and then quickly removing the object. If the aquifer is very permeable, the water level in the well may rise very rapidly. Such rapid rises can be measured with sensitive pressure transducers and fast-response strip chart recorders or x-y plotters. Also it may be possible to isolate portions of the perforated or screened section of the well with special packers for the slug test. This not only reduces the inflow and hence the rate of rise of the water level in the well, but it also makes it possible to determine the vertical distribution of the hydraulic conductivity. Special packer techniques may have to be developed to obtain a good seal, especially for rough casings or perforations. Effective sealing may be achieved with relatively long sections of inflatable stoppers or tubing. The use of long sections of these materials would also reduce leakage flow from the rest of the well to the isolated section between packers. This flow can occur through gravel envelopes or other permeable zones surrounding the casing. Sections of inflatable tubing may have to be long enough to block off the entire part of the well not used for the slug test. High inflation pressures should be used to minimize volume changes in the tubing due to changing water pressures in the isolated section when the head is lowered.

So far, solutions for the slug test have been developed only for completely penetrating wells in confined aquifers. Cooper et al. [1967] derived an equation for the rise or fall of the water level in a well after sudden lowering or raising, respectively. Their equation was based on nonsteady flow to a pumped,

completely penetrating well, and the solution was expressed as a series of 'type curves' against which observed rates of water level rises were matched. Values for the transmissibility and storage coefficient were then evaluated from the curve parameter and horizontal-scale position of the type curve showing the best fit with the experimental data. Skibitzke [1958] developed an equation for calculating transmissibility from the recovery of the water level in a well that was repeatedly bailed. The technique is limited to wells in confined aquifers with sufficiently shallow water levels to permit short time intervals between bailing cycles [Lohman, 1972].

To use the slug test for partially penetrating or partially perforated wells in confined or unconfined aquifers, some solutions developed for the auger hole and piezometer techniques to measure soil hydraulic conductivity [Bouwer and Jackson. 1974] may be employed. However, the geometry of most groundwater wells is outside the range in geometry covered by the existing equations or tables for the auger hole or piezometer methods. For this reason, theory and equations are presented in this paper for slug tests on partially or completely penetrating wells in unconfined aquifers for a wide range of geometry conditions. The wells may be partially or completely perforated, screened, or otherwise open along their periphery. While the solutions are developed for unconfined aquifers, they may also be used for slug tests on wells in confined aquifers if water enters the aquifer from the upper confining layer through compression or leakage.

### THEORY

Geometry and symbols of a well in an unconfined aquifer are shown in Figure 1. For the slug test the water level in the well is suddenly lowered, and the rate of rise of the water level is measured. The flow into the well at a particular value of y can be calculated by modifying the Thiem equation to

$$Q = 2\pi K L \frac{y}{\ln (R_c/r_m)} \tag{1}$$

where Q is the flow into the well (length<sup>3</sup>/time), K is the hydraulic conductivity of the aquifer (length/time), L is the height of the portion of well through which water enters (height of screen or perforated zone or of uncased portion of well), y is the vertical distance between water level in well and equilibrium water table in aquifer,  $R_{\sigma}$  is the effective radius over which y is dissipated, and  $r_{\omega}$  is the horizontal distance

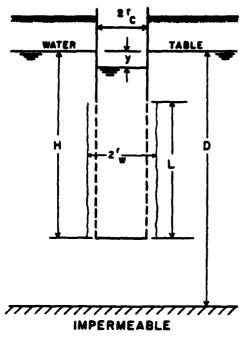


Fig. 1. Geometry and symbols of a partially penetrating, partially perforated well in unconfined aquifer with gravel pack or developed zone around perforated section.

from well center to original aquifer (well radius or radius of casing plus thickness of gravel envelope or developed zone).

The terms L, y,  $R_a$ , and  $r_w$  are all expressed in units of length. The effective radius  $R_a$  is the equivalent radial distance over which the head loss y is dissipated in the flow system. The value of  $R_a$  depends on the geometry of the flow system, and it was determined for different values of H, L, D, and  $r_w$  (Figure 1) with a resistance network analog, as will be discussed in the next section. Equation (1) is based on the assumptions that (1) drawdown of the water table around the well is negligible, (2) flow above the water table (in the capillary fringe) can be ignored, (3) head losses as water enters the well (well losses) are negligible, and (4) the aquifer is homogeneous and isotropic. These are the usual assumptions in the development of equations for pumped hole techniques [Bouwer and Jackson, 1974, and references therein].

The value of  $r_w$  in (1) represents the radial distance between the undisturbed aquifer and the well center. Thus  $r_w$  should include gravel envelopes or 'developed' zones if they are much more permeable than the aquifer itself (Figure 1).

The rate of rise, dy/dt, of the water level in the well after suddenly removing a slug of water can be related to the inflow Q by the equation

$$dy/dt = -Q/\pi r_c^2 \tag{2}$$

where  $\pi r_c^2$  is the cross-sectional area of the well where the water level is rising. The minus sign in (2) is introduced because y decreases as t increases.

The term  $r_c$  is the inside radius of the casing if the water level is above the perforated or otherwise open portion of the well. If the water level is rising in the perforated section of the well, allowance should be made for the porosity outside the well casing if the hydraulic conductivity of the gravel envelope or developed zone is much higher than that of the aquifer. In that case the (open) porosity in the permeable zone must be included in the cross-sectional area of the well. For example, if the radius of the perforated casing is 20 cm and the casing is

surrounded by a 10-cm permeable gravel envelope with a porosity of 30%,  $r_c$  should be taken as  $[20^a + 0.30(30^a - 20^a)]^{1/2} = 23.5$  cm to obtain the cross-sectional area of the well that relates Q to dy/dt. The value of  $r_w$  for this well section is 30 cm.

Combining (1) and (2) yields

$$\frac{1}{y} dy = -\frac{2KL}{r_e^2 \ln \left(R_e/r_w\right)} dt \tag{3}$$

which can be integrated to

$$\ln y = -\frac{2KLt}{r_c^2 \ln (R_e/r_\sigma)} + \text{constant}$$
 (4)

Applying this equation between limits  $y_0$  at t = 0 and  $y_t$  at t and solving for K yield

$$K = \frac{r_e^2 \ln (R_e/r_w)}{2L} \frac{1}{t} \ln \frac{y_0}{y_t}$$
 (5)

This equation enables K to be calculated from the rise of the water level in the well after suddenly removing a slug of water from the well. Since K,  $r_c$ ,  $r_w$ ,  $R_e$ , and L in (5) are constants, (1/t) In  $y_w/y_t$  must also be constant. Thus field data should yield a straight line when they are plotted as In  $y_t$  versus t. The term (1/t) In  $y_w/y_t$  in (5) is then obtained from the best-fitting straight line in a plot of In y versus t (see the example). The value of In  $R_e/r_w$  is dependent on H, D, L, and  $r_w$  and can be evaluated from the analog results presented in the next section. The transmissibility T of the aquifer is calculated by multiplying (5) by the thickness D of the aquifer or

$$T = \frac{Dr_c^2 \ln (R_e/r_w)}{2L} \frac{1}{t} \ln \frac{y_0}{y_t}$$
 (6)

This equation is based on the assumption that the aquifer is uniform with depth.

Equations (5) and (6) are dimensionally correct. Thus K and T are expressed in the same units as the length and time parameters in the equations.

### EVALUATION OF R.

Values of  $R_e$ , expressed as  $\ln R_e/r_w$ , were determined with an electrical resistance network analog for different values of  $r_w$ , L, H, and D (Figure 1), using the same assumptions as those for (1). An axisymmetric sector of 1 rad was simulated by a network of electrical resistors. The vertical distance between the nodes was constant, but the radial distance between nodes increased with increasing distance from the center line (Figure 2). This yielded a network with the highest node density near the well, where the head loss was greatest, and a decreasing node density toward the outer reaches of the system. For a more detailed discussion of graded networks for representing axisymmetric flow systems, see Liebmann [1950] and Bouwer [1960].

The radial extent of the medium represented on the analog was more than 60,000 times the largest  $r_{\rm w}$  value used in the analyses. Thus the radial extent of the analog system was essentially infinite, as evidenced by the fact that a reduction in radial extent by several nodes did not have a measurable effect on the observed value of  $R_{\rm e}$ .

The value of  $R_e$  for an infinitely deep aquifer  $(D = \infty)$  was determined by simulating an impermeable and then an infinitely permeable layer at a certain value of D. If this value of D is taken to be sufficiently large, the flow in the system when the layer at D is taken as being impermeable is only slightly

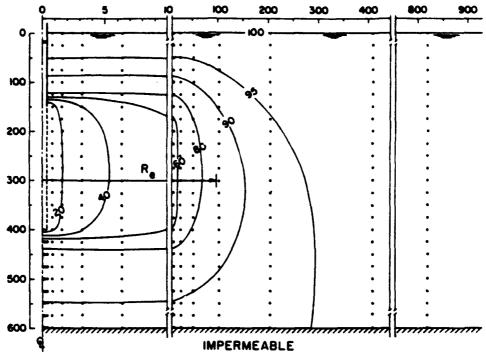


Fig. 2. Node arrangement (dots) for resistance network analog and potential distribution (indicated as percentages on equipotentials) for system with  $L/r_w = 625$ ,  $H/r_w = 1000$ , and  $D/r_w = 1500$ . The numbers on the left and at the top of the figure are arbitrary length units (note breaks in horizontal scale).

less than the flow when the layer is taken as being infinitely permeable. The average of the two flows can then be taken as a good estimate of the flow that would occur if the aquifer were represented on the analog as being uniform to infinite depth [Bouwer, 1967]. This average flow was used to calculate  $R_{\sigma}$  for  $D = \infty$ .

The analog analyses were performed by simulating a system with certain values of  $r_w$ , H, and D. The electrical current entering the 'well' was then measured for different values of L, ranging from near H to near 0. This was repeated for other values of  $r_w$ , H, and D. The condition where L = H could not be simulated on the analog because it would mean a short between the water table as the source and the well as the sink. The electrical current flow in the analog was converted to volume per day, and  $\ln R_e/r_w$  was evaluated with (1) for each combination of  $r_w$ , H, L, and D used in the analog.

For a given geometry described by  $r_w$ , H, and D, the current flow  $Q_t$  into the simulated well varied essentially linearly with L and could be described by the equation

$$Q_i = mL + n \tag{7}$$

Because of the linearity between  $Q_t$  and L the results of the analyses could be extrapolated to the condition L = H. The values of m in (7) appeared to vary inversely with  $\ln H/r_m$ . The values of n varied approximately linearly with  $\ln \{(D-H)/r_m\}$ , the slope A and intercept B in these relations being a function of  $L/r_m$ . This enabled the derivation of the following empirical equation relating  $\ln R_c/r_m$  to the geometry of the system:

$$\ln \frac{R_t}{r_w} = \left[ \frac{1.1}{\ln (H/r_w)} + \frac{A + B \ln [(D - H)/r_w]}{L/r_w} \right]^{-1}$$
 (8)

In this equation, A and B are dimensionless coefficients that are functions of  $L/r_w$ , as shown in Figure 3. If D >> H, an increase in D has no measurable effect on  $\ln R_e/r_w$ . The analog

results indicated that the effective upper limit of  $\ln [(D-H)/r_w]$  is 6. Thus if D is considered infinity or  $(D-H)/r_w$  is so large that  $\ln [(D-H)/r_w]$  is greater than 6, a value of 6 should still be used for the term  $\ln [(D-H)/r_w]$  in (8).

If D = H, the term  $\ln [(D - H)/r_w]$  in (8) cannot be used. The analog results indicated that for this condition, which is the case of a fully penetrating well, (8) should be modified to

$$\ln R_e/r_w = \left(\frac{1.1}{\ln (H/r_w)} + \frac{C}{L/r_w}\right)^{-1}$$
 (9)

where C is a dimensionless parameter that is a function of  $L/r_w$  as shown in Figure 3.

Equations (8) and (9) yield values of  $\ln R_e/r_w$  that are within 10% of the actual value as evaluated by analog if L > 0.4H and within 25% if  $L \ll H$  (for example, L = 0.1H).

The analog analyses were performed for wells that were closed at the bottom. Occasionally, however, wells with open bottoms were also simulated. The flow through the bottom appeared to be negligible for all values of  $r_w$  and L used in the analyses. If L is not much greater than  $r_w$  (for example,  $L/r_w << 4$ ), the system geometry approaches that of a piezometer cavity [Bouwer and Jackson, 1974], in which case the bottom flow can be significant. Equations (8) and (9) can also be used to evaluate in  $R_v/r_w$  if a portion of the perforated or otherwise open part of the well is isolated with packers for the slug test.

Equipotentials for the flow system around a partially penetrating, partially perforated well in an unconfined aquifer after lowering the water level in the well are shown in Figure 2. The numbers along the symmetry axis and the water table represent arbitrary length units. The numbers on the equipotentials indicate the potential as a percentage of the total head difference between the water table (100%) and the open portion of the well (0%) shown as a dashed line.

The value of R<sub>e</sub> for the case in Figure 2 is 96.7 length units. As shown in the figure, this corresponds approximately to the

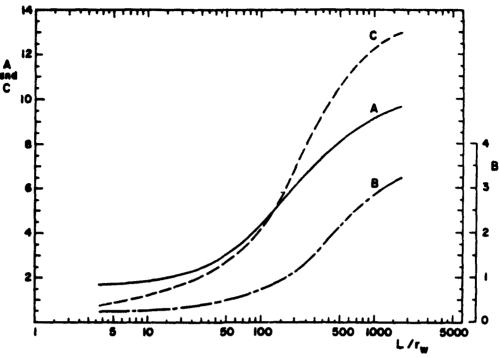


Fig. 3. Curves relating coefficients A, B, and C to L/r.

85% equipotential when  $R_e$  is laterally extended from the center of the open portion of the well. Thus most of the head loss in the flow system occurs in a cylinder with radius  $R_e$ , which is indicative of the horizontal extent of the portion of the aquifer sampled for K or T. The vertical extent is somewhat greater than L, as indicated by, for example, the 80% equipotential in Figure 2.

To estimate the rate of rise of the water level in a well after it is suddenly lowered, (5) can be written as

$$t = \frac{r_e^2}{2KL} \ln \frac{R_e}{r_e} \ln \frac{y_0}{y_0}$$
 (10)

By taking  $y_1 = 0.9y_0$ , (10) reduces to

$$t_{00\%} = 0.0527 \frac{r_c^2}{KL} \ln \frac{R_s}{r_m}$$
 (11)

where  $t_{90\%}$  is the time that it takes for the water level to rise 90% of the distance to the equilibrium level. By assuming a permeable aquifer with K=30 m/day, a well with  $r_c=0.2 \text{ m}$  and L=10 m, and  $\ln{(R_e/r_w)}=3$ , (11) yields  $t_{90\%}=1.82 \text{ s}$ . Thus if  $y_e$  is taken as 30 cm, it takes 1.8 s for the water level to rise 27 cm, another 1.8 s for the next 2.7 cm (90% of the remaining 3 cm), and another 1.8 s for the next 0.27 cm, or a total of 5.4 s for a rise of 29.97 cm. Measurement of this fast rise requires a sensitive and accurate transducer and a fast-response recorder. The rate of rise can be reduced by allowing groundwater to enter through only a portion of the open section of the well, as can be accomplished with packers.

For a moderately permeable aquifer with, for example, K = 1 m/day, a well with  $r_c = 0.1 \text{ m}$  and L = 20 m, and  $\ln (R_c/r_w) = 5$ , (11) yields t = 11.4 s. In this case, it would take the water level 22.8 s to rise from 30 cm to 0.3 cm below static level.

### SXAMPLE

A slug test was performed on a cased well in the alluvial deposits of the Salt River bed west of Phoenix, Arizona. The well, known as the east well, is located about 20 m east of six

rapid infiltration basins for groundwater recharge with sewage effluent [Bouwer, 1970]. The static water table was at a depth of 3m, D = 80 m, H = 5.5 m, L = 4.56 m,  $r_c = 0.076$  m, and  $r_m$ was taken as 0.12 m to allow for development of the aquifer around the perforated portion of the casing. A Statham PM131TC pressure transducer was suspended about 1 m below the static water level in the well (when trade names and company names are included, they are for the convenience of the reader and do not imply preferential endorsement of a particular product or company over others by the U.S. Department of Agriculture). A solid cylinder with a volume equivalent to a 0.32-m change in water level in the well was also placed below the water level. When the water level had returned to equilibrium, the cylinder was quickly removed. The transducer output, recorded on a Sargent millivolt recorder, yielded the y-r relationship shown in Figure 4 with y plotted on a logarithmic scale. The straight-line portion is the valid part of the readings. The actual ye value of 0.29 m indicated by the straight line is close to the theoretical value of 0.32 m calculated from the displacement of the submerged cylinder.

Extending the straight line in Figure 4 shows that for the arbitrarily selected t value of 20 s, y = 0.0025 m. Thus  $(1/t) \ln y_o/y_t = 0.238$  s<sup>-1</sup>. The value of  $L/r_w = 38$ , for which Figure 3 yields A = 2.6 and B = 0.42. Substituting these values into (8) and using the maximum value of 6 for  $\ln [(D - H)/r_w]$  (since  $\ln [(D - H)/r_w]$  for the well exceeds 6) yield  $\ln (R_e/r_w) = 2.37$ . Equation (5) then gives K = 0.00036 m/s = 31 m/day. This value agrees with K values of 10 and 53 m/day obtained previously with the tube method on two nearby observation wells [Bouwer, 1970]. These K values were essentially point measurements on the aquifer immediately around the well bottoms, which were at depths of 9.1 and 6.1 m, respectively.

### COMPARISONS

Piezometer method. The geometry to which (8) and (9) and the coefficients in Figure 3 apply overlaps the geometry of the

piezometer method at the lower values of  $L/r_{\rm m}$ . With the piezometer method a cavity is augered out in the soil below a piezometer tube. The water level in the tube is abruptly lowered, and K of the soil around the cavity is calculated from the rate of rise of the water level in the tube [Bouwer and Jackson, 1974]. The equation for K is

$$K = \frac{\pi r_{\nu}^{2}}{A_{V}} \frac{1}{t} \ln \frac{y_{0}}{y_{t}}$$
 (12)

where  $A_Y$  is a geometry factor with dimension of length. Values of  $A_Y$  were evaluated with an electrolytic tank analog by Youngs [1968], whose results were expressed in tabular form as  $A_Y/r_w$  for different values of  $L/r_w$  (ranging between 0 and 8),  $(H-L)/r_w$ , and  $(D-H)/r_w$ .

Taking a hypothetical case where  $L/r_w = 8$ ,  $H/r_w = 12$ , and  $D/r_w = 16$ , K calculated with (5) is 18% below K calculated with (12). This is more than the 10% error normally expected with (8) and (9) for the L/H value of 0.67 in this case. The larger discrepancy may be due to the difference in methodology, or to the fact that the  $L/r_w$  value is close to the lower limit of the range covered on the resistance network analog.

An approximate equation for calculating K with the piezometer method was presented by *Hvorslev* [1951]. The equation, which is based on the assumptions of an ellipsoidal cavity or well screen and infinite vertical extent (upward and downward) of the flow system, contains a term  $\{1 + (L/2r_w)^2\}^{1/3}$ . For most well-slug-test geometries,  $L/2r_w$  will be sufficiently large to permit replacement of this term by  $L/2r_w$ . In that case, however, Hvorslev's equation for Q yields  $R_x = L$ , which is not true. In reality,  $R_x$  is considerably less than L. For example, if L = 40 m,  $r_w = 0.4$  m, H = 80 m, and  $D = \infty$ , (8) shows that  $R_x = 11.9$  m, which is much less than the value of 40 m indicated by Hvorslev's equation. However, since the calculation of K is based on  $\ln (R_x/r_w)$  as shown by (5), the error in K is less than the error in  $R_x$  (i.e., 36 and 236%, respectively, in this case).

If, for the above example, the top of the well screen or cavity had been taken at the same level as the water table ( $H=40\,\mathrm{m}$ ),  $R_e$  would have been 8.6 m and Hvorslev's equation would have yielded a K value that is 50% higher than K given by (5). The larger error is probably due to Hvorslev's assumption of infinite vertical (upward) extent of the flow system, which is not met when the cavity is immediately below the water table. Using Hvorslev's equation for cavities immediately below a confining layer would increase the error to 73%, but this, of course, is due to the fact that a water table is not a solid boundary. Hvorslev's equation for the confining layer case can be shown to yield  $R_e=2L$ .

Auger hole method. The analog analyses for (8) and (9) and Figure 3 were performed for L < H, because short circuiting between the water table and the well prevented simulation of the case where L = H. If the analog results are extrapolated to L = H, however, the geometry of the system in Figure 1 becomes similar to that of the auger hole technique, for which a number of equations and graphs have been developed to calculate K from the rise of the water level in the well [Bouwer and Jackson, 1974]. Boast and Kirkham [1971], for example, developed the equation

$$K = C_{\alpha R} \frac{\Delta y}{\Delta t} \tag{13}$$

where  $C_{BR}$  was determined mathematically and expressed in tabular form for various values of  $L/r_w$ ,  $(D-H)/r_w$ , and  $y_w/H$ . Since the rate of rise of the water level in the hole after

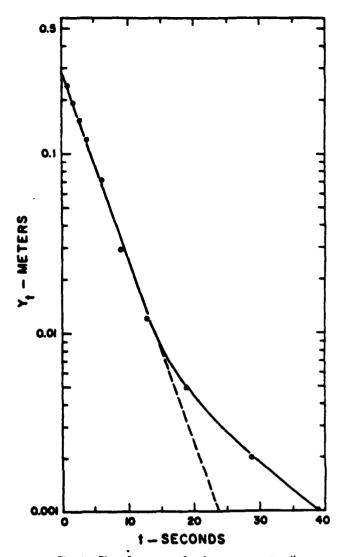


Fig. 4. Plot of y versus t for slug test on east well.

the removal of a slug of water decreases with decreasing y,  $\Delta y/\Delta t$  is not a constant and the value of K obtained with this procedure depends on the magnitude of  $\Delta y$  used in the field measurements. The general rule is that  $\Delta y$  should be relatively small.

Taking a hypothetical case where  $y_0 = 2.5 \text{ m}$ ,  $y_t = 2.4 \text{ m}$ ,  $\Delta t = 10 \text{ s}$ , L = H = 5 m, D = 6 m, and  $r_w = 0.1 \text{ m}$ . (5) yields a K value that is 36% lower than K calculated with (13). However, if  $y_t$  is taken as 0.5 m, which should give  $\Delta t = 394 \text{ s}$  according to the theory that  $(1/t) \ln y_0/y_t$  is constant, the K value yielded by (5) is 26% higher than K obtained with (13). If  $y_t$  is taken as 0.9 m, (5) and (13) give identical results.

Slug test on wells in confined aquifers. The confined aquifer for which the slug test by Cooper et al. [1967] was developed is an aquifer with an internal water source, for example, recharge through aquitards or compression of confining layers or other material. This situation is similar to that of the unconfined aquifer presented in this paper because the water table is considered horizontal, like the upper boundary of a confined aquifer, and the water table is a plane source. Thus K or T calculated with (5) or (6) should be of the same order as K calculated with the procedure of Cooper et al. [1967], which involves plotting the rise of the water level in the well and finding the best fit on a family of type curves. Cooper et al. [1967] presented an example of the calculation of T for a well

with  $r_c = r_w = 0.076$  m and L = 98 m. The resulting value of T was 45.8 m<sup>3</sup>/day. Values of D and H for this well were not given. However, since the well was 122 m deep and completely penetrating (at least theoretically), D and H must have been between 98 and 122 m. Assuming that both D and H were 100 m, (6) yields T = 62.8 m<sup>3</sup>/day, which is compatible with T obtained by Cooper et al.

### CONCLUSIONS

The hydraulic conductivity of an aquifer near a well can be calculated from the rise of the water level in the well after a slug of water is suddenly removed. The calculation is based on the Thiem equation, using an effective radius R, for the distance over which the head difference between the equilibrium water table in the aquifer and the water level in the well is dissipated. Values of R, were evaluated by electrical resistance network analog. An empirical equation was then developed to relate  $R_{\bullet}$  to the geometry of the system. This equation is accurate to within 10-25%, depending on how much of the well below the water table is perforated or otherwise open. The technique is applicable to partially or completely penetrating wells in unconfined aquifers. It can also be used to estimate the hydraulic conductivity of confined aquifers that receive water from the upper confining layer through recharge or compression.

The vertical distance between the rising water level in the well and the equilibrium water table in the aquifer must yield a straight line when it is plotted on a logarithmic scale against time. This can be used to check the validity of field measurements and to obtain the best-fitting line for calculating the hydraulic conductivity. Permeable aquifers produce rapidly rising water levels that can be measured with fast-response pressure transducers and strip chart recorders or x-y plotters. The portion of the aquifer sampled for hydraulic conductivity with the slug test is approximately a cylinder with radius R<sub>e</sub> and a height somewhat larger than the perforated or otherwise open section of the well.

Hydraulic conductivity values obtained with the proposed slug test are compatible with those yielded by the auger hole and piezometer techniques where the geometries of the systems overlap, and by a slug test for completely penetrating wells in confined aquifers.

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### September 11, 1992

IT Project No.: 409721

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Report on Results of Additional Slug Tests at
Arizona Air National Guard Base (Sky Harbor ANGB)
and Papago Military Reservation, General Order
Number 12B-99886C, Task Order K-09; (A1T116)

### Dear Fritz:

Enclosed are the results of the subject tests made during July 27 - 30, 1992. These tests were conducted to supplement existing data in the Draft Final Site Investigation (SI) Report dated August 1992. These results will be incorporated in the Final SI Report as explained below.

All remaining wells were slug tested except MWS-03. As discussed at the August 4, 1992 meeting in Phoenix, Arizona, this well was disturbed by construction activities in the area and could not be located. It is recommended that the Base locate the well and make any repairs as necessary to restore the well's integrity.

Table 3-0 provides the results of all slug tests. Groundwater flow velocity was calculated using the measured hydraulic conductivity (K; ft/yr) and applying the dimensionless values for hydraulic gradient (i = 0.002 (min); 0.005 (max))<sup>1</sup>/<sub>2</sub> and porosity ( $\eta$  = 0.50 (min); 0.25 (max)) in the equation:

 $V = Ki/\eta$ 

Velocities are expressed in ft/yr and cm/s as requested by the Air National Guard Readiness Center.

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312 Directors Drive • Knoxville, Tennessee 37923 • 615-690-3211

Mr. Fritz Lebow

2

September 11, 1992

As a result of the additional tests and existing data, the minimum and maximum flow at the Base and Papago are calculated as follows:

Base:

 $\frac{\text{Min.}}{3.0 \times 10^{-5} \text{ cm/s}}$  (31 ft/yr)

 $1.3 \times 10^{-3} \text{ cm/s} (1,304 \text{ ft/yr})$ 

Papago:

 $6.0 \times 10^{-8} \text{ cm/s } (0.1 \text{ ft/yr})$ 

5.6 x 10<sup>-6</sup> cm/s (6 ft/yr)

 $^{1/}$  i = 0.001 (min); 0.01 (max) for Papago.

The SI Report, Pages 3-2 through 3-4, will be changed to reflect the slug tests results as indicated in Attachment 1, and a new Table 3-0 will be added (Attachment 2).

Please call if you have any questions.

Sincerely,

Don Willen

**Project Manager** 

DW:ltd

**Attachments** 

\*

depths ranging from 66 to 83 feet below land surface, depending on location and water table fluctuations. These depths correspond to water-table elevations of 1.048 to 1.032 feet msl. Samples of aguifer materials collected during drilling indicate that the uppermost portion of the aguifer consists of medium-to coarse-grained sand and gravel.

Appendix J contains a listing of water level measurements conducted during the investigation: hydrographs of monitoring wells at the Base are presented in Figures 3-2 and 3-3. The hydrographs depict a general rising trend in all wells and piezometers at the Base beginning between days 50 and 70 of the monitoring period (March to April); this is tentatively correlated with the occurrence of flow in the Salt River, south of the site. During the June 1991 measurement period, water levels remained above January through March levels. Heavy increase a water levels in march 1992.

March 26, 1992,

Figures 3-4 through 3-6 present potentiometric maps for measurement dates of February 20, April 18-19, and June 30, 1991, respectively. February measurements were taken at the completion of the first phase of field activities, prior to flow in the river. April measurements were collected prior to the first round of groundwater sampling. June measurements were collected prior to the confirmation groundwater sampling. The February map, in general, depicts a groundwater flow direction to the northwest and a hydraulic gradient of approximately 0.002 foot/foot. The April map depicts a similar northwest flow direction with a hydraulic gradient of approximately 0.005 foot per foot. The change in gradient is likely associated with river flow conditions. The June map also depicts a northwest groundwater flow direction and a hydraulic gradient of approximately 0.0025 foot per foot.

The flow for the upper alluvial unit has been measured to be approximately 180 to 1,700 feet per day or 6 x 10<sup>2</sup> to 6 x 10<sup>1</sup> cm/s (Brown and Pool, 1989). Slug tests at the Base also indicate high K values, ranging from 6 x 10<sup>2</sup> cm/s (MWS-01) to 5 x 10<sup>2</sup> cm/s

67.4×10-3cm/s (mwz-02) To <del>(MW1-02).</del>—

Review of boring logs contained in Appendix E indicates that the most prevalent aquifer materials are coarse sand and gravel. Published values of porosity for these materials range from 25 to 50 percent (Freeze and Cherry, 1979). Using the hydraulic gradients and K values previously discussed, an average interstitial groundwater flow velocity can be calculated using the following equation:

V = (Ki)/n

where:

V = Average velocity (L/T)

K = Hydraulic conductivity (L/T)

i = Hydraulic gradient (dimensionless)

n = Effective porosity (dimensionless)

3.0 × 10

The minimum groundwater flow velocity is thus calculated to be approximately 2.4 x 10<sup>2</sup> cm/s (248 ft/yr) to a maximum of 1.2 x 10<sup>2</sup> cm/s (12,400 ft/yr). These velocities represent an average rate through various materials along a selected flow path. Groundwater will flow at different rates and directions depending on local variations in grain size and hydraulic conductivity. These velocities represent an average rate through various materials along a selected flow path. Groundwater will flow at different rates and directions depending on local variations in grain size and hydraulic conductivity.

### 3.1.2 Papago Military Reservation

# 3.1.2.1 Geology

As discussed in Section 1.5.4, Papago Military Reservation is set in an area of intermixed sedimentary and volcanic deposits. Borings from piezometers and monitoring wells indicate the presence of caliche to a depth of approximately 10 feet bgt and volcanic breccia underlying the caliche. These geologic data are consistent with the presence of Quaternary alluvium and colluvium and the Barnes Butte Member of the Tertiary Camels Head Formation underlying the site. A diagrammatic geological cross section of the Papago area is presented in Figure 3-7.

# 3.1.2.2 Hydrology

Two monitoring wells and three piezometers were installed during the SI at Papago Military Reservation (Figure 2-7). Groundwater occurs at a depth of approximately 27 to 37 feet below ground level, corresponding to an elevation of 1,211 to 1,214 feet msl. Water occurs under unconfined conditions in very low to moderately permeable bedrock. Figure 3-8 presents a hydrograph of monitoring wells and piezometers at Papago; individual water-level measurements are presented in Appendix J.

Observations made during drilling and development of piezometers and monitoring wells suggest that groundwater flow at Papago is primarily controlled by fractures in well-indurated deposits. As depicted in the hydrograph, PP-03 and MW4-01 required more than one week for water levels to recover to elevations similar to those observed in surrounding wells and their eventual static levels following development and sampling. Other wells and piezometers produce water readily.

Groundwater flow direction at Papago is generally northwesterly or southwesterly, depending on measurement points used to calculate the flow direction. A westerly-oriented wedge-like groundwater mound also causes groundwater to flow northwesterly and southwesterly. The hydraulic gradient is approximately 0.001 foot/foot to 0.01 foot/foot. Groundwater flow conditions for February and April 1991 are provided in Figures 3-9 and 3-10 respectively.

X

NSERT

Hydraulic conductivity at Papago was not measured during the SI due to field logistics. Slug tests were scheduled to be conducted after groundwater sampling was completed; however, due to the slowly recharging nature of the wells, water levels had not yet returned to presampling or static conditions prior to demobilization of field crews.

# 3.2 Background Sampling Results

To evaluate the significance of concentrations of detected compounds at each investigation site, a background soil and groundwater characterization effort was conducted. Background soil samples were collected away from known waste management units and groundwater samples were collected from locations upgradient of faculities at both the 161AREFG and at Papago. Soil sampling depths varied due to the geology and are discussed in Section 3.2.1 (161AREFG) and Section 3.2.2 (Papago).

Analytical Data Discussion. The following sections discuss the results of chemical analytical data obtained as a result of soil and groundwater samples collected at the Base and Papago during the SI. Analytical data have been validated based on guidelines established by the U.S. EPA and described in the documents "Functional Guidelines for Evaluating Organic Analyses" (U.S. EPA, 1988a) and "Functional Guidelines for Evaluating Inorganic Analyses" (U.S. EPA, 1988b). Thus, results presented herein have been evaluated in conjunction with respective field and lab QC samples. The validation includes adding data qualifiers to alert data users of conditions in the laboratory setting that may have affected sample data. This might include conditions such as method blank contamination or instrument calibration incursistencies. These conditions are not new to chemical analytical laboratories, but as a result of the data validation process, data users may be ensured that data are valid and accurate to the highest degree possible as indicated by the unique qualifiers. Following are definitions of the data qualifiers used by laboratories and in the validation process:

- U The material was analyzed for, but was not detected. The associated value is the sample quantitation limit.
- J The associated numerical value is an estimated quantity.

# Insert 1 to Attachment 1

Hydraulic conductivity at Papago is extremely slow and slug tests required long recovery times. As indicated in Table 3-0, the minimum groundwater flow velocity is approximately  $6.0 \times 10^{-8}$  cm/s (0.1 ft/yr) to a maximum of  $5.6 \times 10^{-6}$  cm/s (6 ft/yr).

TABLE 3-0 HYDRAULIC CONDUCTIVITIES AND GROUNDWATER VELOCITIES AT SKY HARBOR ANGB AND PAPAGO 161 AREFG, PHOENIX, ARIZONA

WELL	HYDRAULIC CONDUCTIVITY FT/YR°	VELOCITY FT/YR	HYDRAULIC CONDUCTIVITY CM/Sb	VELOCITY CM/S
SKY HARBO	₹			
MW1-02	54,836	1,097	5.3 x 10 <sup>-2</sup>	1.1 x 10 <sup>-3</sup>
MW2-02	7,674	31	7.4 x 10 <sup>-3</sup>	3.0 x 10 <sup>-5</sup>
MW3-01	57,711	1,154	5.5 x 10 <sup>-2</sup>	1.1 x 10 <sup>-3</sup>
MW3-02	46,989	940	4.5 x 10 <sup>-2</sup>	9.0 x 10 <sup>-4</sup>
MW5-01	17,502	350	1.7 x 10 <sup>-2</sup>	3.4 x 10 <sup>-4</sup>
MWS-01	65,183	1,304	6.3 x 10 <sup>-2</sup>	1.3 x 10 <sup>-3</sup>
MWS-02	29,234	585	2.8 x 10 <sup>-2</sup>	5.6 x 10 <sup>-4</sup>
MWS-03	e			
MWS-04	28,908	578	2.8 x 10 <sup>-2</sup>	5.6 x 10 <sup>-4</sup>
PAPAGO				
MW4-01	148	6	1.4 x 10 <sup>-4</sup>	5.6 x 10 <sup>-6</sup>
MW4-02	31	0.1	3.0 x 10 <sup>-5</sup>	6.0 x 10 <sup>-8</sup>

<sup>\*</sup> FT/YR = feet/year

b CM/S = centimeters/second

<sup>&</sup>lt;sup>c</sup> Note, MWS-03 was not slug tested due to construction disturbance.

WELL	SLUG IN/OUT	HYDRAULIC CONDUCTIVITY (FT/MIN)	HYDRAULIC CONDUCTIVITY (FT/SEC)
MW2-02	OUT	1.460E-02	2.433E-04
MW3-01	OUT	1.098E-01	1.830E-03
MW3-02	OUT	8.940E-02	1.490E-03
MW4-01	IN	2.810E-04	4.683E-06
MW4-01	OUT	8.980E-05	1.497E-06
MW4-02	IN	8.210E-05	1.368E-06
MW4-02	OUT	5.920E-05	9.867E-07
MW5-01	OUT	3.330E-02	5.550E-04
MWS-02	IN	5.562E-02	9.270E-04
MWS-04	OUT	5.500E-02	9.167E-04

### MW202OUT.SLUG

INITIAL DRAWDOWN/BUILDUP, Y0 1.468 DRAWDOWN/BUILDUP AT TIME T. YT 0.1 TIME, T ENGTH, L 0.55

SCREEN LENGTH, L 50

INITIAL SATURATED THICKNESS, D 350

DISTANCE FROM BOTTOM OF SCREEN TO WATER TABLE.H 48.9

> WELL RADIUS (INCLUDING GRAVEL PACK), RW 0.4

> > **CASING RADIUS, RC** 0.16

GRAVEL PACK POROSITY (0 IF SIMILAR TO FORMATION), N 0.35

NEW RC BASED ON GRAVEL PACK POROSITY 0.26951809

COEFFICIENT A

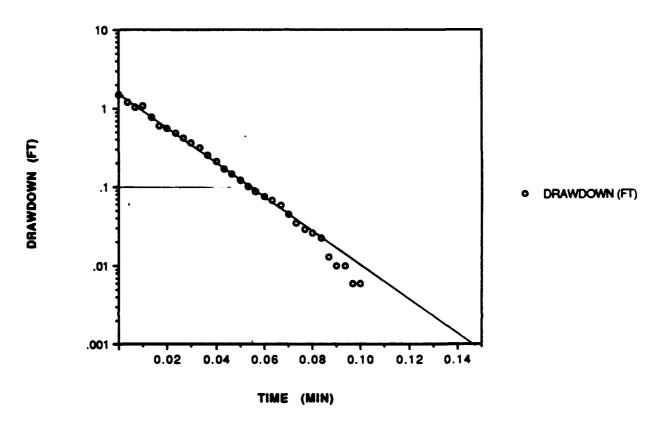
COEFFICIENT B 0.85

LN((D-H)/RW) 6.62373317

IF LN((D-H)/RW)>6 THEN SET IT EQUAL TO 6 HERE OTHERWISE COPY IT

LN(RE/RW) 4.11217647

WELL MW2-02 SLUG OUT



	TIME	DRAWDOWN	TIME (MIN)
1	0.0366	1.468	0.000
2	0.0400	1,181	0.003
3	0.0433	1.032	0.007
4	0.0466	1.060	0.010
5	0.0500	0.780	0.013
6	0.0533	0.592	0.017
7	0.0566	0.560	0.020
8	0.0600	0.481	0.023
9	0.0633	0.411	0.027
10	0.0666	0.366	0.030
11	0.0700	0.306	0.033
12	0.0733	0.252	0.037
13	0.0766	0.207	0.040
14	0.0800	0.169	0.043
15	0.0833	0.143	0.047
16	0.0866	0.121	0.050
17	0.0900	0.099	0.053
18	0.0933	0.086	0.057
19	0.0966	0.076	0.060
20	0.1000	0.067	0.063
21	0.1033	0.057	0.067
22	0.1066	0.045	0.070
23	0.1100	0.035	0.073
24	0.1133	0.029	0.077
25	0.1166	0.026	0.080
26	0.1200	0.022	0.083
27	0.1233	0.013	0.087
28	0.1266	0.010	0.090
29	0.1300	0.010	0.093
30	0.1333	0.006	0.097
31	0.1366	0.006	0.100

### MW301OUT ALLIG

INITIAL DRAWDOWN/BUILDUP, Y0
DRAWDOWN/BUILDUP AT TIME T, YT
0.3
TIME, T
0.042
SCREEN LENGTH, L
50

INITIAL SATURATED THICKNESS, D 350

INITIAL SATURATED THICKNESS, D 350

DISTANCE FROM BOTTOM OF SCREEN TO WATER TABLE,H 49.88

WELL RADIUS (INCLUDING GRAVEL PACK), RW 0.4

CASING RADIUS, RC 0.16

GRAVEL PACK POROSITY (0 IF SIMILAR TO FORMATION), N 0.35

NEW RC BASED ON GRAVEL PACK POROSITY 0.26951809

COEFFICIENT A 5

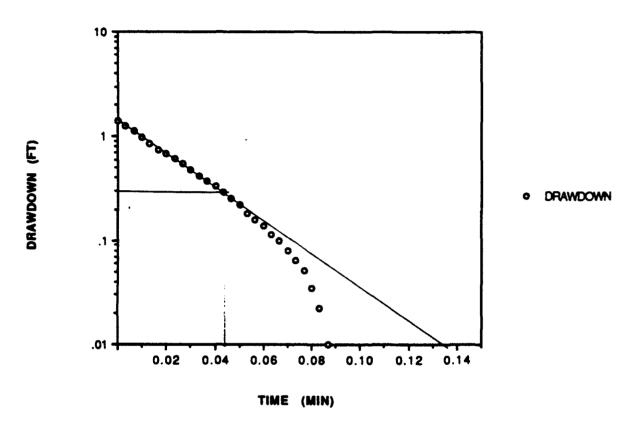
COEFFICIENT B 0.85

LN((D-H)/RW) 6.62047313

IF LN((D-H)/RW)>6 THEN SET IT EQUAL TO 6 HERE OTHERWISE COPY IT

LN(RE/RW) 4.11217647

WELL MW3-01 SLUG OUT



	TIME	DRAWDOWN	TIME (MIN)
1	0.0800	1.404	0.000
2	0.0833	1.267	0.003
3	0.0866	1.127	0.007
4	0.0900	0.981	0.010
5	0.0933	0.860	0.013
6	0.0966	0.751	0.017
7	0.1000	0.678	0.020
8	0.1033	0.615	0.023
9	0.1066	0.545	0.027
10	0.1100	0.484	0.030
11	0.1133	0.420	0.033
12	0.1166	0.369	0.037
13	0.1200	0.331	0.040
14	0.1233	0.293	0.043
15	0.1266	0.252	0.047
16	0.1300	0.220	0.050
17	0.1333	0.182	0.053
18	0.1366	0.159	0.057
19	0.1400	0.137	0.060
20	0.1433	0.115	0.063
21	0.1466	0.099	0.067
22	0.1500	0.080	0.070
23	0.1533	0.064	0.073
24	0.1566	0.051	0.077
25	0.1600	0.035	0.080
26	0.1633	0.022	0.083
27	0.1666	0.010	0.087

### MW302OUT.SLUG

INITIAL DRAWDOWN/BUILDUP, Y0 1.48
DRAWDOWN/BUILDUP AT TIME T, YT 0.1

TIME, T 0.09

SCREEN LENGTH, L 50

INITIAL SATURATED THICKNESS, D 350

DISTANCE FROM BOTTOM OF SCREEN TO WATER TABLE,H 49.96

WELL RADIUS (INCLUDING GRAVEL PACK), RW 0.4

CASING RADIUS, RC 0.16

GRAVEL PACK POROSITY (0 IF SIMILAR TO FORMATION), N 0.35

NEW RC BASED ON GRAVEL PACK POROSITY 0.26951809

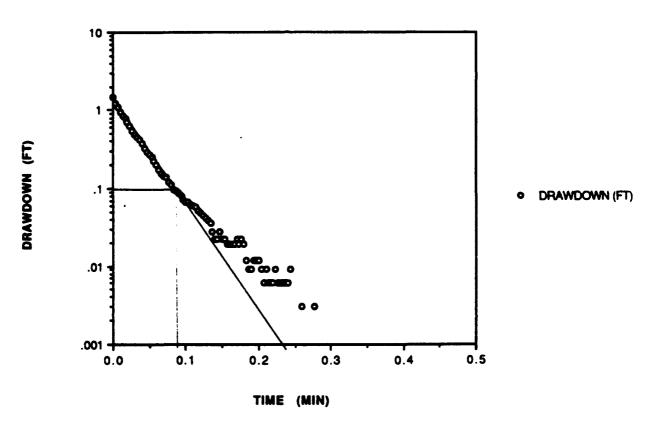
COEFFICIENT A 5 COEFFICIENT B 0.85

LN((D-H)/RW) 6.62020653

IF LN((D-H)/RW)>6 THEN SET IT EQUAL TO 6 HERE OTHERWISE COPY IT 6

LN(RE/RW) 4.11217647

# WELL MW3-02 SLUG OUT



	TIME	DRAWDOWN	TIME (MIN)
1	0.0900	1.480	0.000
2	0.0933	1.206	0.003
3	0.0966	1.098	0.007
4	0.1000	0.961	0.010
5	0.1033	0.856	0.013
6	0.1066	0.783	0.017
7	0.1100	0.694	0.020
8	0.1133	0.621	0.023
9	0.1166	0.554	0.027
10	0.1200	0.496	0.030
11	0.1233	0.458	0.033
12	0.1266	0.417 0.372	0.037 0.040
13 14	0.1300	0.328	0.043
15	0.1333 0.1366	0.289	0.047
16	0.1400	0.267	0.050
17	0.1433	0.254	0.053
18	0.1466	0.229	0.057
19	0.1500	0.203	0.060
20	0.1533	0.175	0.063
21	0.1566	0.156	0.067
22	0.1600	0.146	0.070
23	0.1633	0.137	0.073
24	0.1666	0.121	0.077
25	0.1700	0.111	0.080
26	0.1733	0.095	0.083
27	0.1766	0.092	0.087
28	0.1800	0.086	0.090
29	0.1833	0.079	0.093
30	0.1866	0.073	0.097
31	0.1900	0.067	0.100
32	0.1933	0.067	0.103
33	0.1966	0.063	0.107
34	0.2000	0.060	0.110
35	0.2033	0.057 0.051	0.113 0.117
36	0.2066 0.2100	0.047	0.120
37	0.2100	0.044	0.123
38 39	0.2166	0.041	0.127
40	0.2200	0.038	0.130
41	0.2233	0.035	0.133
42	0.2266	0.028	0.137
43	0.2300	0.022	0.140
44	0.2333	0.022	0.143
45	0.2366	0.028	0.147
46	0.2400	0.022	0.150
47	0.2433	0.022	0.153
48	0.2466	0.019	0.157
49	0.2500	0.019	0.160
50	0.2533	0.019	0.163
51	0.2566	0.019	0.167
52	0.2600		0.170
53	0.2633		0.173
54	0.2666		0.177
55	0.2700		0.180
56	0.2733	0.012	0.183

	TIME	DRAWDOWN	TIME (MIN)
57	0.2766	0.009	0.187
58	0.2800	0.009	0.190
59	0.2833	0.012	0.193
60	0.2866	0.012	0.197
61	0.2900	0.012	0.200
62	0.2933	0.009	0.203
63	0.2966	0.006	0.207
64	0.3000	0.009	0.210
65	0.3033	0.006	0.213
66	0.3066	0.006	0.217
67	0.3100	0.006	0.220
68	0.3133	0.009	0.223
69	0.3166	0.006	0.227
70	0.3200	0.006	0.230
71	0.3233	0.006	0.233
72	0.3266	0.006	0.237
73	0.3300	0.006	0.240
74	0.3333	0.009	0.243
75	0.3500	0.003	0.260
76	0.3666	0.003	0.277

### MW401IN.SLUG

INITIAL DRAWDOWN/BUILDUP, Y0 0.06
DRAWDOWN/BUILDUP AT TIME T, YT 0.01

TIME, T 41

SCREEN LENGTH, L 20

INITIAL SATURATED THICKNESS, D 350

DISTANCE FROM BOTTOM OF SCREEN TO WATER TABLE,H 19.73

WELL RADIUS (INCLUDING GRAVEL PACK), RW 0.4

CASING RADIUS, RC 0.16

GRAVEL PACK POROSITY (0 IF SIMILAR TO FORMATION), N 0.35

NEW RC BASED ON GRAVEL PACK POROSITY 0.26951809

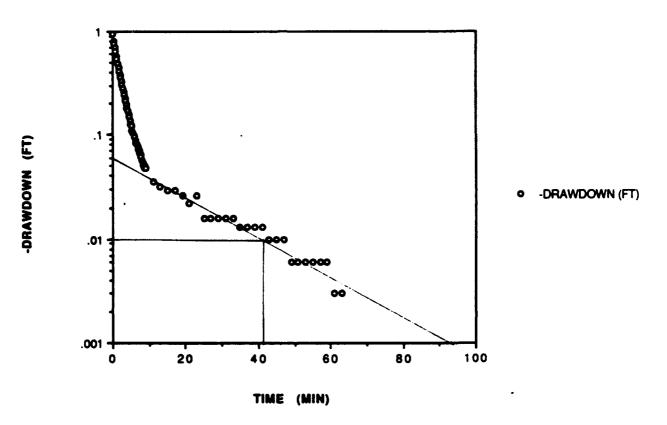
COEFFICIENT A 3 COEFFICIENT B 0.5

LN((D-H)/RW) 6.71620123

IF LN((D-H)/RW)>6 THEN SET IT EQUAL TO 6 HERE OTHERWISE COPY IT

LN(RE/RW) 3.54132447

WELL MW4-01 SLUG IN



	TIME	DRAWDOWN	TIME (MIN)	-DRAWDOWN
1	1.0000	-0.936	0.000	0.936
2	1.2000	-0.806	0.200	0.806
3	1.4000	-0.767	0.400	0.767
4	1.6000	-0.697	0.600	0.697
5	1.8000	-0.637	0.800	0.637
6	2.0000	-0.583	1.000	0.583
7	2.2000	-0.538	1.200	0.538
8	2.4000	-0.494	1.400	0.494
9	2.6000	-0.452	1.600	0.452
10	2.8000	-0.417	1.800	0.417
11	3.0000	-0.385	2.000	0.385
12	3.2000	-0.357	2.200	0.357
13	3.4000	-0.328	2.400	0.328
14	3.6000	-0.306	2.600	0.306
15	3.8000	-0.280	2.800	0.280 0.261
16 17	4.0000 4.2000	-0.261 -0.242	3.000 3.200	0.242
18	4.4000	-0.226	3.400	0.226
19	4.6000	-0.210	3.600	0.210
20	4.8000	-0.194	3.800	0.194
21	5.0000	-0.182	4.000	0.182
22	5.2000	-0.169	4.200	0.169
23	5.4000	-0.156	4.400	0.156
24	5.6000	-0.147	4.600	0.147
25	5.8000	-0.137	4.800	0.137
26	6.0000	-0.127	5.000	0.127
27	6.2000	-0.121	5.200	0.121
28	6.4000	-0.111	5.400	0.111
29	6.6000	-0.105	5.600	0.105
30	6.8000	-0.099	5.800	0.099
31	7.0000	-0.096	6.000	0.096
32	7.2000	-0.089	6.200	0.089
33	7.4000	-0.083	6.400	0.083
34	7.6000	-0.080	6.600	0.080
35 36	7.8000 8.0000	-0.076 -0.073	6.800 7.000	0.076 0.073
37	8.2000	-0.073	7.200	0.070
38	8.4000	-0.067	7.400	0.067
39	8.6000	-0.064	7.600	0.064
40	8.8000	-0.061	7.800	0.061
41	9.0000	-0.057	8.000	0.057
42	9.2000	-0.054	8.200	0.054
43	9.4000	-0.051	8.400	0.051
44	9.6000	-0.051	8.600	0.051
45	9.8000	-0.048	8.800	0.048
46	10.0000	-0.048	9.000	0.048
47	12.0000	-0.035	11.000	0.035
48	14.0000	-0.032	13.000	0.032
49	16.0000	-0.029	15.000	0.029
50	18.0000	-0.029	17.000	0.029
51	20.0000	-0.026	19.000	0.026
52	22.0000	-0.022	21.000	0.022
53	24.0000	-0.026	23.000	0.026
54	26.0000	-0.016	25.000	0.016
55	28.0000	-0.016	27.000	0.016
56	30.0000	-0.016	29.000	0.016

	TIME	DRAMDOWN	TIME (MIN)	-DRAWDOWN
57	32.0000	-0.016	31.000	0.016
58	34.0000	-0.016	33.000	0.016
59	36,0000	-0.013	35.000	0.013
60	38.0000	-0.013	37.000	0.013
61	40.0000	-0.013	39.000	0.013
62	42.0000	-0.013	41.00J	0.013
63	44.0000	-0.010	43.000	0.010
64	46.0000	-0.010	45.000	0.010
65	48.0000	-0.010	47.000	0.010
66	50.0000	-0.006	49.000	0.006
67	52.0000	-0.006	51.000	0.006
68	54.0000	-0.006	53.000	0.006
69	56.0000	-0.006	55.000	0.006
70	58.0000	-0.006	57.000	0.006
71	60.0000	-0.006	59.000	0.006
72	62.0000	-0.003	61.000	0.003
73	64.0000	-0.003	63.000	0.003

### MW401OUT.SLUG

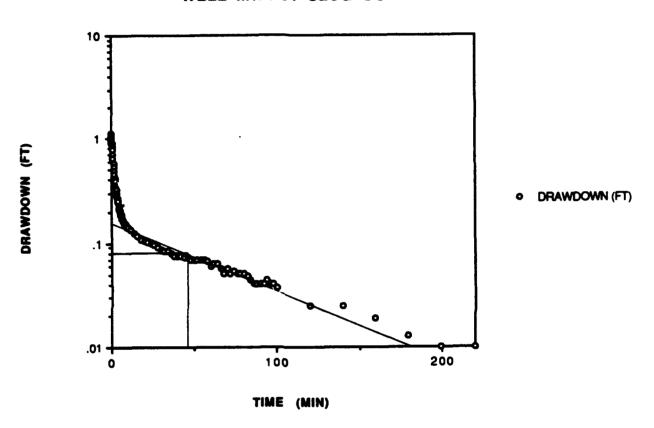
INITIAL DRAWDOWN/BUILDUP, YO 0.15 DRAWDOWN/BUILDUP AT TIME T, YT TIME. T 0.08 SCREEN LENGTH, L 45 20 350 INITIAL SATURATED THICKNESS, D DISTANCE FROM BOTTOM OF SCREEN TO WATER TABLE,H 19.73 WELL RADIUS (INCLUDING GRAVEL PACK), RW 0.4 0.16 **CASING RADIUS, RC** GRAVEL PACK POROSITY (0 IF SIMILAR TO FORMATION), N 0.35 NEW RC BASED ON GRAVEL PACK POROSITY 0.26951809 COEFFICIENT A COEFFICIENT B 0.5

LN((D-H)/RW) 6.71620123

IF LN((D-H)/RW)>6 THEN SET IT EQUAL TO 6 HERE OTHERWISE COPY IT 6

LN(RE/RW) 3.54132447

WELL MW4-01 SLUG OUT



	TIME	DRAWDOWN	TIME (MIN)
1	0.3333	1.137	0.000
2	0.3500	1.124	0.017
3	0.3666	1.111	0.033
4	0.3833	1.099	0.050
5	0.4000	1.086	0.067
6	0.4166	1.073	0.083
7	0.4333	1.060	0.100
8	0.4500	1.048	0.117 0.133
9	0.4666	1.038	0.133
10	0.4833	1.0 <b>25</b> 1.016	0.150
11	0.5000	1.006	0.183
12 13	0.5166 0.5333	1.000	0.200
14	0.5500	0.987	0.217
15	0.5666	0.981	0.233
16	0.5833	0.971	0.250
17	0.6000	0.962	0.267
18	0.6166	0.952	0.283
19	0.6333	0.946	0.300
20	0.6500	0.936	0.317
21	<b>5.6666</b>	0.930	0.333
22	0.6833	0.920	0.350
23	0.7000	0.911	0.367
24	0.7166	0.904	0.383
25	0.7333	0.898	0.400
26	0.7500	0.888	0.417
27	0.7666	0.882	0.433
28	0.7833	0.876	0.450
29	0.8000	0.866	0.467 0.483
30	0.8166	0.860 0.853	0.500
31	0.8333	0.847	0.517
32 33	0.8500 0.8666	0.841	0.533
34	0.8833	0.831	2.550
35	0.9000	0.825	0.567
36	0.9166	0.818	0.583
37	0.9333	0.812	0.600
38	0.9500	0.806	0.617
39	0.9666	0.799	0.633
40	0.9833	0.793	0.650
41	1.0000	0.786	0.667
42	1.2000	0.701	0.867
43	1.4000	0.640	1.067
44	1.6000	0.586	1.267
45	1.8000	0.535	1.467
46	2.0000	0.494	1.667
47	2.2000	0.455	1.867
48	2.4000	0.420	2.067
49	2.6000	0.392	2.267
50	2.8000	0.344	2.467
51	3.0000	0.344	2.667
52	3.2000	0.322	2.867
53	3.4000		3.067 3.267
54	3.6000		3.267 3.467
55 56	3.8000		3.467 3.667
56	4.0000	0.281	3.007

	THE	DRAWOOWN	TIME (MIN)
57	4.2000	0.248	3.867
58	4.4000	0.252	4.067
59	4.6000	0.229	4.267
60	4.8000	0.220	4.467
61	5.0000	0.213	4.667
62	5.2000	0.210	4.867
63	5.4000	0.204	5.067
64	5.6000	0.197	5.267
65	5.8000	0.191	5.467
66	6.0000	0.188	5.667
67	6.2000	0.185	5.867
68	6.4000	0.182	6.067
69	6.6000	0.175	6.267
70	6.8000	0.172	6.467
71	7.0000	0.169	6.667
72	7.2000	0.166	6.867
73	7.4000	0.162	7.067
74	7.6000	0.162	7267
75	7.8000	0.159	7.467
76	8.0000	0.159	7.667
77	8.2000	0.156	7.867
78	8.4000	0.156	8.067
79 80	8.6000	0.153	8.267
81	8.8000	0.150 0.150	8.467 8.667
82	9.0000 9.2000	0.146	8.867
83	9.4000	0.146	9.067
84	9.6000	0.146	9.267
85	9.8000	0.143	9.467
86	10.0000	0.143	9.667
87	12.0000	0.134	11.667
88	14.0000	0.124	13.667
89	16.0000	0.118	15.667
90	18.0000	0.108	17.667
91	20.0000	0.105	19.667
92	22.0000	0.102	21.667
93	24.0000	0.099	23.667
94	26.0000	0.096	25.667
95	28.0000	0.092	27.667
96	30.0000	0.086	29.667
97	32.0000	0.083	31.667
98	34.0000	0.083	33.667
99	36.0000	0.080	35.667
100 101	38.0000 40.0000	0.076 0.076	37.667 39.667
102	42.0000	0.076	41.667
103	44.0000	0.078	43.667
104	46.0000	0.073	45.667
105	48.0000	0.070	47.667
106	50.0000	0.070	49.667
107	52.0000	0.070	51.667
108	54.0000	0.070	53.667
109	56.0000	0.070	55.667
110	58.0000	0.067	57.667
111	60.0000	0.061	59.667
112	62.0000	0.064	61.667

	TIME	DRAWDOWN	TIME (MIN)
113	64.0000	0.064	63.667
114	66.0000	0.057	65.667
115	68.0000	0.051	67.667
116	70.0000	0.057	69.667
117	72.0000	0.051	71.667
118	74.0000	0.054	73.667
119	76.0000	0.051	75.667
120	78.0000	0.051	77.667
121	80.0000	0.051	79.667
122	82.0000	0.048	81.667
123	84.0000	0.045	83.667
124	86.0000	0.041	85.667
125	88.0000	0.041	87.667
126	90.0000	0.041	89.667
127	92.0000	0.041	91.667
128	94.0000	0.045	93.667
129	96.0000	0.041	95.667
130	98.0000	0.041	97.667
131	100.0000	0.038	99.667
132	120.0000	0.025	119.667
133	140.0000	0.025	139.667
134	160.0000	0.019	159.667
135	180.0000	0.013	179.667
136	200.0000	0.010	199.667
137	220.0000	0.010	219.667
138	240.0000	0.010	239.667

### WHO SHEET LIES

INITIAL DRAWDOWN/BUILDUP, Y0
DRAWDOWN/BUILDUP AT TIME T, YT
1
TIME, T
70

SCREEN LENGTH, L 20

INITIAL SATURATED THICKNESS, D 350

DISTANCE FROM BOTTOM OF SCREEN TO WATER TABLE,H 20.24

WELL RADIUS (INCLUDING GRAVEL PACK), RW 0.4

CASING RADIUS, RC 0.16

GRAVEL PACK POROSITY (0 IF SIMILAR TO FORMATION), N 0.35

NEW RC BASED ON GRAVEL PACK POROSITY 0.26951809

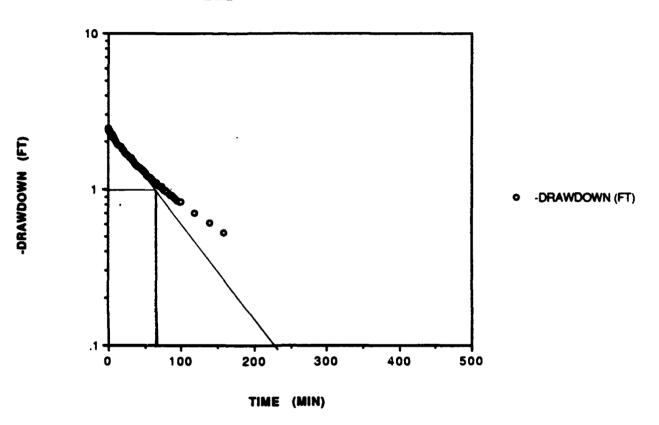
COEFFICIENT A 3 COEFFICIENT B 0.5

LN((D-H)/RW) 6.71465585

IF LN((D-H)/RW)>6 THEN SET IT EQUAL TO 6 HERE OTHERWISE COPY IT

LN(RE/RW) 3.54132447

WELL MW4-02 SLUG IN



1 (1847) 4 1	TMS	DPMMCOMM	TIME (MIN)	-DRAWDOWN
1	1.2000	-2.445	0.000	2.445
2	1.4000	-2.432	0.200	2.432
3	1.6000	-2.416	0.400	2.416
4	1.8000	-2.404	0.600	2.404
5	2.0000	-2.391	0.800	2.391
6	2.2000	-2.381	1.000	2.381
7	2.4000	-2.372	1.200	2.372
8	2.6000	-2.359	1.400	2.359
9	2.8000	-2.353	1.600	2.353
10	3.0000	-2.343	1.800	2.343
11	3.2000	-2.327	2.000	2.327
12	3.4000	-2.314	2.200	2.314
13	3.6000	-2.308	2.400	2.308
14	3.8000	-2.305	2.600	2.305 2.295
15 16	4.0000 4.2000	-2.295 -2.289	2.800 3.000	2.289
17	4.4000	-2.279	3.200	2.279
18	4.6000	-2.273	3.400	2.273
19	4.8000	-2.279	3.600	2.279
20	5.0000	-2.270	3.800	2.270
21	5.2000	-2.260	4.000	2.260
22	5.4000	-2.251	4.200	2.251
23	5.6000	.2.238	4.400	2.238
24	5.8000	-2.228	4.600	2.228
25	6.0000	-2.222	4.800	2.222
26	6.2000	-2.216	5.000	2.216
27	6.4000	-2.209	5.200	2.209
28	6.6000	-2.203	5.400	2.203
29	6.8000	-2.193	5.600	2.193
30	7.0000	-2.184	5.800	2.184
31	7.2000	-2.174	6.000	2.174
32	7.4000	-2.165	6.200	2.165
33	7.6000	-2.155	6.400	2.155
34 35	7.8000	-2.149	6.600	2.149
36	8.0000 8.2000	-2.142 -2.139	6.800 7.000	2.142 2.139
37	8.4000	-2.136	7.200	2.136
38	8.6000	-2.127	7.400	2.127
39	8.8000	-2.120	7.600	2.120
40	9.0000	-2.111	7.800	2.111
41	9.2000	-2.104	8.000	2.104
42	9.4000	-2.098	8.200	2.098
43	9.6000	-2.091	8.400	2.091
44	9.8000	-2.085	8.600	2.085
45	10.0000	-2.082	8.800	2.082
46	12.0000	-2.015	10.800	2.015
47	14.0000	-1.958	12.800	1.958
48	16.0000	-1.913	14.800	1.913
49	18.0000	-1.859	16.800	1.859
50	20.0000	-1.818	18.800	1.818
51	22.0000	-1.760	20.800	1.760
52	24.0000	-1.719	22.800	1.719
53	26.0000	-1.678	24.800	1.678
54	28.0000	-1.633	26.800	1.633 1.598
55 56	30.0000 32.0000	-1.598 -1.572	28.800 30.800	1.572
<b>9 0</b>	32.0000	-1.3/2	30.000	

	TIME	DRAWDOWN	TIME (MIN)	-DRAWDOWN
57	34.0000	-1.522	32.800	1.522
58	36.0000	-1.493	34.800	1.493
59	38.0000	-1.451	36.800	1.451
60	40.0000	-1.416	38.800	1.416
61	42.0000	-1.388	40.800	1.388
62	44.0000	-1.359	42.800	1.359
63	46.0000	-1.346	44.800	1.346
64	48.0000	-1.308	46.800	1.308
65	50.0000	-1.286	48.800	1.286
66	52.0000	-1.260	50.800	1.260
67	54.0000	-1.229	52.800	1.229
68	56.0000	-1.213	54.800	1.213
69	58.0000	-1.181	56.800	1.181
70	60.0000	-1.159	58.800	1.159
71	62.0000	-1.136	60.800	1.136
72	64.0000	-1.124	62.800	1.124
73	66.0000	-1.104	64.800	1.104
74	68.0000	-1.088	66.800	1.088
75	70.0000	-1.066	68.800	1.066
76	72.0000	-1.047	70.800	1.047
77	74.0000	-1.031	72.800	1.031
78	76.0000	-1.003	74.800	1.003
79	78.0000	· -0.987	76.800	0.987
80	80.0000	-0.983	78.800	0.983
81	82.0000	-0.961	80.800	0.961
82	84.0000	-0.936	82.800	0.936
83	86.0000	-0.920	84.800	0.920
84	88.0000	-0.913	86.800	
85	90.0000	-0.894	88.800	
86	92.0000	-0.875	90.800	
87	94.0000	-0.866	92.800	
88	96.0000	-0.853	94.800	
89	98.0000	-0.837	96.800	
90	100.0000	-0.827	98.800	
91	120.0000	-0.703	118.800	
92	140.0000	-0.605	138.800	
93	160.0000	-0.528	158.800	0.528

### NWW02OUT BLUG

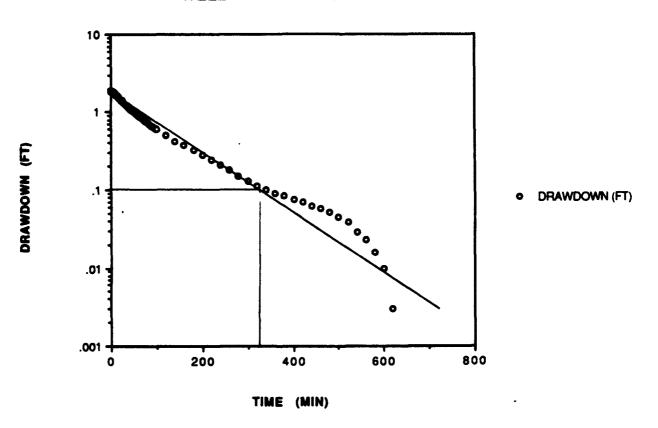
INITIAL DRAWDOWN/BUILDUP, YO 1.898 DRAWDOWN/BUILDUP AT TIME T. YT 0.1 TIME, T 320 SCREEN LENGTH, L 20 INITIAL SATURATED THICKNESS, D 350 DISTANCE FROM BOTTOM OF SCREEN TO WATER TABLE,H 20.24 WELL RADIUS (INCLUDING GRAVEL PACK), RW 0.4 CASING RADIUS, RC 0.16 GRAVEL PACK POROSITY (0 IF SIMILAR TO FORMATION), N 0.35 NEW RC BASED ON GRAVEL PACK POROSITY 0.26951809 COEFFICIENT A 3 COEFFICIENT B 0.5 LN((D-H)/RW) 6.71465585 IF LN((D-H)/RW)>6 THEN SET IT EQUAL TO 6 HERE OTHERWISE COPY IT

MAISE COPY II

LN(RE/RW) 3.54132447

ESTIMATE OF HYDRAULIC CONDUCTIVITY, K 5.9153E-05

### WELL MW4-02 SLUG OUT



	TIME	DRAWDOMN	TIME (MIN)
1	0.31	1.90	0.00
2	0.32	1.90	0.00
3	0.32	1.90	0.01
4	0.32	1.90	0.01
5	0.33	1.90	0.01
6	0.33	1.90	0.02
7	0.33	1.89	0.02
8	0.35	1.89	0.04
9	0.37	1.89	0.05
10	0.38	1.89	0.07
11 12	0.40	1.89	0.09
13	0.42 0.43	1. <b>89</b> 1. <b>89</b>	0.10 0.12
14	0.45	1.89	0.14
15	0.47	1.89	0.15
16	0.48	1.89	0.17
17	0.50	1.89	0.19
18	0.52	1.89	0.20
19	0.53	1.89	0.22
20	0.55	1.88	0.24
21	0.57	1.88	0.25
22	0.58	1.88	0.27
23	0.60	. 1.87	0.29
24	0.62	1.87	0.30
25	0.63	1.87	0.32
26	0.65	1.87	0.34
27	0.67	1.87	0.35
28	0.68	1.87	0.37
29	0.70	1.87	0.39
30 31	0.72	1.87	0.40
32	0.73 0.75	1.87 1.87	0.42 0.44
33	0.73	1.87	0.44
34	0.78	1.87	0.47
35	0.80	1.87	0.49
36	0.82	1.87	0.50
37	0.83	1.87	0.52
38	0.85	1.87	0.54
39	0.87	1.87	0.55
40	0.88	1.87	0.57
41	0.90	1.86	0.59
42	0.92	1.86	0.60
43	0.93	1.86	0.62
44	0.95	1.88	0.64
45	0.97	1.86	0.65
46	0.98	1.86	0.67
47	1.00	1.86	0.69
48	1.20	1.85	0.89
49	1.40	1.85	1.09
50 51	1.60 1.80	1.85 1.84	1.29
52	2.00	1.84	1.49 1.69
52 53	2.00	1.84	1.89
54	2.40	1.84	2.09
55	2.40	1.84	2.08
56	2.80	1.84	2.49
	2.00	,	2.76

	TIME	DRAWDOWN	TIME (MIN)
57	3.00	1.84	2.69
58	3.20	1.83	2.89
59	3.40	1.83	3.09
60	3.60	1.83	3.29
61	3.80	1.83	3.49
62	4.00	1.82	3.69 3.89
63	4.20	1.82 1.82	4.09
64 65	4.40 4.60	1.82	4.29
66	4.80	1.82	4.49
67	5.00	1.81	4.69
68	5.20	1.81	4.89
69	5.40	1.81	5.09
70	5.60	1.81	5.29
71	5.80	1.81	5.49
72	6.00	1.81	5.69
73	6.20	1.80	5.89 6.09
74	6.40	1.80	6.29
75 76	6.60 6.80	1.80 1.80	6.49
76 77	7.00	1.80	6.69
78	7.20	1.79	6.89
79	7.40	1.79	7.09
80	7.60	1.78	7.29
81	7.80	1.77	7.49
82	8.00	1.77	7.69
83	8.20	1.77	7.89
84	8.40	1.77	8.09
85	8.60	1.76	8.29
86	8.80	1.76	8.49
87	9.00	1.75 1.75	8.69 8.89
88	9.20	1.74	9.09
90 90	9.40 9.60	1.73	9.29
91	9.80	1.73	9.49
92	10.00	1.72	9.69
93	12.00	1.67	11.70
94	14.00	1.62	13.70
95	16.00	1.57	15.70
96	18.00	1.52	17.70
97	20.00	1.49	19.70
98	22.00		21.70
99	24.00		23.70
100	26.00	1.36	25.70 27.70
101	28.00		29.70
102	30.00 32.00		31.70
103 104	34.00		33.70
105	36.00		35.70
106	38.00		37.70
107	40.00		39.70
108	42.00		41.70
109	44.00	1.10	43.70
110	46.00	1.07	45.70
111	48.00		47.70
112	50.00	1.02	49.70

ár <sup>*</sup>	TIME	DRAWDOWN	TIME (MIN)
113	52.00	1.00	51.70
114	54.00	0.97	<b>53</b> .70
115	56.00	0.95	55.70
116	58.00	0.93	<b>57</b> .70
117	60.00	0.91	59.70
118	62.00	0.89	61.70
119	64.00	0.88	63.70
120	66.00	0.85	65.70
121	68.00	0.84	67.70
122	70.00	0.82	69.70
123	72.00	0.81	71.70
124	74.00	0.78	73.70
125	76.00	0.77	75.70
126	78.00	0.75	77.70
127	80.00	0.74	79.70
128	82.00	0.72	81.70
129	84.00	0.69	83.70
130	86.00	0.69	85.70
131	88.00	0.68	87.70
132	90.00	0.66	89.70
133	92.00	0.65	91.70
134	94.00	0.64	93.70
135	96.00	0.62	95.70
136	98.00	0.61	97.70
137	100.00	0.60	99.70
138	120.00	0.50	120.00
139	140.00	0.41	140.00
140	160.00	0.37	160.00
141	180.00	• 0.32	180.00 200.00
142	200.00	0.28 0.24	220.00
143	220.00	0.21	240.00
144	240.00 260.00	0.18	260.00
145 146	280.00	0.15	280.00
147	300.00	0.13	300.00
148	320.00	0.11	320.00
149	340.00	0.10	340.00
150	360.00	0.09	360.00
151	380.00	0.08	380.00
152	400.00	0.07	400.00
153	420.00	0.07	420.00
154	440.00	0.06	440.00
155	460.00		460.00
156	480.00		480.00
157	500.00		500.00
158	520.00		520.00
159	540.00	_	540.00
160	560.00	_	560.00
161	580.00	_	580.00
162	600.00		600.00
163	620.00		620.00
	350.00	J.50	<b></b>

### MW501OUT.SLUG

0.045 INITIAL DRAWDOWN/BUILDUP, YO 0.01 DRAWDOWN/BUILDUP AT TIME T, YT TIME. T 0.135 50 SCREEN LENGTH, L 350 INITIAL SATURATED THICKNESS. D 49.99 DISTANCE FROM BOTTOM OF SCREEN TO WATER TABLE,H WELL RADIUS (INCLUDING GRAVEL PACK), RW 0.4 0.16 CASING RADIUS, RC GRAVEL PACK POROSITY (0 IF SIMILAR TO FORMATION), N 0.35 NEW RC BASED ON GRAVEL PACK POROSITY 0.26951809 COEFFICIENT A 5 0.85 COEFFICIENT B

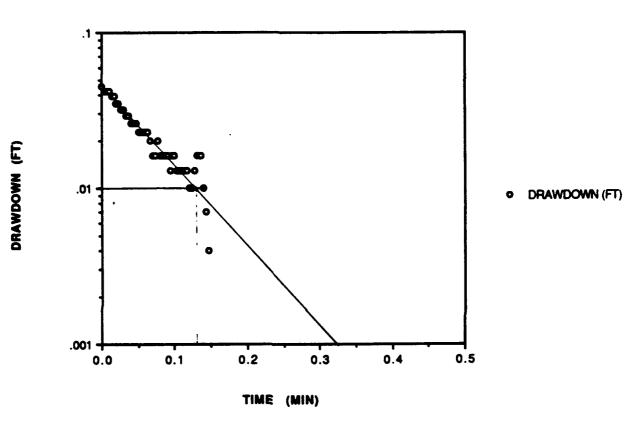
LN((D-H)/RW) 6.62010654

IF LN((D-H)/RW)>6 THEN SET IT EQUAL TO 6 HERE OTHERWISE COPY IT

LN(RE/RW) 4.11217647

ESTIMATE OF HYDRAULIC CONDUCTIVITY, K 0.03328005

WELL MW5-01 SLUG OUT



	TIME	DRAWDOWN	TIME (MIN)
1	0.1400	0.045	0.000
2	0.1433	0.042	0.003
3	0.1466	0.042	0.007
4	0.1500	0.042	0.010
5	0.1533	0.039	0.013
6	0.1566	0.039	0.017
7	0.1600	0.035	0.020
8	0.1633	0.035	0.023
9	0.1666	0.032	0.027
10	0.1700	0.032	0.030
11	0.1733	0.029	0.033
12	0.1766	0.029	0.037
13	0.1800	0.026	0.040 0.043
14	0.1833	0.0 <b>26</b> 0.0 <b>26</b>	0.043
15	0.1 <b>86</b> 6 0.1900	0.028	0.050
16 17	0.1900	0.023	0.053
18	0.1966	0.023	0.057
19	0.2000	0.023	0.060
20	0.2033	0.023	0.063
21	0.2066	0.020	0.067
22	0.2100	0.016	0.070
23	0.2133	0.016	0.073
24	0.2166	0.020	0.077
25	0.2200	0.016	0.080
26	0.2233	0.016	0.083
27	0.2266	0.016	0.087
28	0.2300	0.016	0.090
29	0.2333	0.013	0.093
30	0.2366	0.016	0.097
31	0.2400	0.016	0.100
32	0.2433	0.013	0.103
33	0.2466	0.013	0.107
34	0.2500	0.013	0.110
35	0.2533	0.013	0.113
36	0.2566	0.013	0.117
37	0.2600	0.010	0.120
38	0.2633	0.010	0.123
39	0.2666	0.013	0.127 0.130
40	0.2700	0.016 0.016	0.130
41	0.2733	0.016	0.137
42	0.2766 0.2800		0.140
43 44	0.2833		0.143
45	0.2866		0.147
46	0.2400		0.100
47	0.2433		0.103
48	0.2466		0.107
49	0.2500		0.110
50	0.2533		0.113
51	0.2566		0.117
52	0.2600		0.120
53	0.2633		0.123
54	0.2666		0.127
55	0.2700		0.130
56	0.2733		0.133

58	TIME	DRAWDOWN	TIME (MIN)
57	0.2766	0.016	0.137
58	0.2800	0.010	0.140
59	0.2833	0.007	0.143
60	0.2866	0.004	0.147

### MWS02IN.SLUG

INITIAL DRAWDOWN/BUILDUP, Y0 0.851
DRAWDOWN/BUILDUP AT TIME T, YT 0.1
TIME, T 0.115
SCREEN LENGTH, L 50
INITIAL SATURATED THICKNESS, D 350
DISTANCE FROM BOTTOM OF SCREEN TO WATER TABLE,H 51.98
WELL RADIUS (INCLUDING GRAVEL PACK), RW 0.4
CASING RADIUS, RC 0.16

GRAVEL PACK POROSITY (0 IF SIMILAR TO FORMATION). N 0.35

NEW RC BASED ON GRAVEL PACK POROSITY 0.26951809

COEFFICIENT A

COEFFICIENT B 0.85

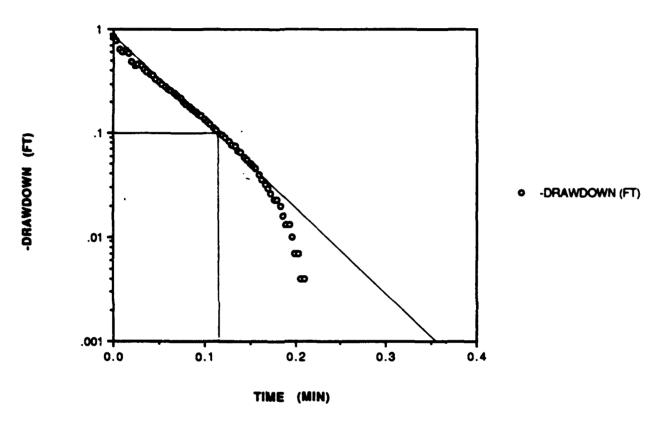
LN((D-H)/RW) 6.61345133

IF LN((D-H)/RW)>6 THEN SET IT EQUAL TO 6 HERE OTHERWISE COPY IT

LN(RE/RW) 4.11217647

ESTIMATE OF HYDRAULIC CONDUCTIVITY, K 0.05561801

WELL MWS-02 SLUG IN



	TIME	DRAWDOWN	TIME (MIN)	-DRAWDOWN
1	0.1000	-0.851	0.000	0.851
2	0.1033	-0.787	0.003	0.787
3	0.1066	-0.640	0.007	0.640
4	0.1100	-0.612	0.010	0.612
5	0.1133	-0.631	0.013	0.631
6	0.1166	-0.589	0.017	0.589
7	0.1200	-0.494	0.020	0.494
8	0.1233	-0.449	0.023	0.449
9	0.1266	-0.459	0.027	0.459
10	0.1300	-0.449	0.030	0.449
11	0.1333	-0.414	0.033	0.414
12	0.1366	-0.386	0.037	0.386
13	0.1400	-0.373	0.040	0.373
14	0.1433	-0.357	0.043 0.047	0.357 0.335
15	0.1466	-0.335	0.050	0.316
16	0.1500	-0.316 -0.300	0.053	0.300
17	0.1533 0.1566	-0.284	0.057	0.284
18 19	0.1500	-0.268	0.060	0.268
20	0.1633	-0.255	0.063	0.255
21	0.1666	-0.242	0.067	0.242
22	0.1700	-0.230	0.070	0.230
23	0.1733	-0.217	0.073	0.217
24	0.1766	-0.204	0.077	0.204
25	0.1800	-0.191	0.080	0.191
26	0.1833	-0.179	0.083	0.179
27	0.1866	-0.169	0.087	0.169
28	0.1900	-0.160	0.090	0.160
29	0.1933	-0.153	0.093	0.153
30	0.1966	-0.147	0.097	0.147
31	0.2000	-0.137	0.100	0.137
32	0.2033	-0.128	0.103	0.128
33	0.2066	-0.121	0.107	0.121 0.112
34	0.2100	-0.112	0.110 0.113	0.106
35	0.2133	-0.106 -0.099	0.113	0.099
36 37	0.2166 0.2200	-0.096	0.120	0.096
38	0.2233	-0.090	0.123	0.090
39	0.2266	-0.083	0.127	0.083
40	0.2300	-0.077	0.130	0.077
41	0.2333	-0.074	0.133	0.074
42	0.2366	-0.067	0.137	0.067
43	0.2400	-0.064	0.140	0.064
44	0.2433	-0.058	0.143	0.058
45	0.2466	-0.055	0.147	
46	0.2500	-0.051	0.150	
47	0.2533	-0.048	0.153	
48	0.2566	-0.045	0.157	
49	0.2600	-0.039	0.160	
50	0.2633	-0.035	0.163	and the second s
51	0.2666	-0.032	0.167	
52	0.2700	-0.029	0.170	
53	0.2733	-0.026	0.173	
54	0.2766		0.177	
55	0.2800		0.180	
56	0.2833	-0.020	0.183	, U.UZU

	TIME	DRAWDOWN	TIME (MIN)	-DRAWDOWN
57	0.2866	-0.016	0.187	0.016
58	0.2900	-0.013	0.190	0.013
59	0.2933	-0.013	0.193	0.013
60	0.2966	-0.010	0.197	0.010
61	0.3000	-0.007	0.200	0.007
62	0.3033	-0.007	0.203	0.007
63	0.3066	-0.004	0.207	0.004
64	0.3100	-0.004	0.210	0.004

### MWS04OUT.SLUG

INITIAL DRAWDOWN/BUILDUP, YO 1 DRAWDOWN/BUILDUP AT TIME T, YT 0.1
TIME, T 0.125

SCREEN LENGTH, L 50

INITIAL SATURATED THICKNESS, D 350

DISTANCE FROM BOTTOM OF SCREEN TO WATER TABLE,H 49.1 WELL RADIUS (INCLUDING GRAVEL PACK), RW 0.4

CASING RADIUS, RC 0.16

GRAVEL PACK POROSITY (0 IF SIMILAR TO FORMATION), N 0.35

NEW RC BASED ON GRAVEL PACK POROSITY 0.26951809

COEFFICIENT A COEFFICIENT B 0.85

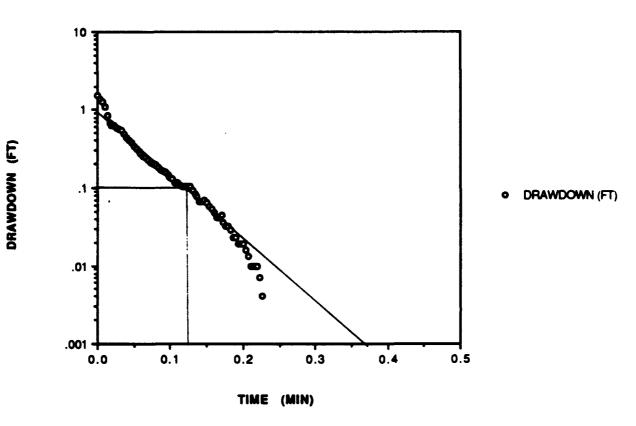
LN((D-H)/RW) 6.62306872

IF LN((D-H)/RW)>6 THEN SET IT EQUAL TO 6 HERE OTHERWISE COPY IT

LN(RE/RW) 4.11217647

ESTIMATE OF HYDRAULIC CONDUCTIVITY, K 0.05502414

WELL MWS-04 SLUG OUT



	TIME	DRAWDOWN	TIME (MIN)
1	0.0733	1.513	0.000
2	0.0766	1.347	0.003
3	0.0800	1.252	0.007
4	0.0833	1.086	0.010
5	0.0866	0.847	0.013
6	0.0900	0.688	0.017
7	0.0933	0.640	0.020
8	0.0966	0.624	0.023
9	0.1000	0.596	0.027 0.030
10	0.1033	0.574 0.535	0.033
11	0.10 <b>66</b> 0.1100	0.488	0.037
12	0.1100	0.437	0.040
13 14	0.1166	0.405	0.043
15	0.1100	0.370	0.047
16	0.1233	0.341	0.050
17	0.1266	0.312	0.053
18	0.1300	0.296	0.057
19	0.1333	0.274	0.060
20	0.1366	0.252	0.063
21	0.1400	0.239	0.067
22	0.1433	0.223	0.070
23	0.1466	. 0.211	0.073
24	0.1500	0.201	0.077
25	0.1533	0.195	0.080
26	0.1566	0.182	0.083
27	0.1600	0.169	0.087
28	0.1633	0.160	0.090
29	0.1666	0.153	0.093
30	0.1700	0.144	0.097 0.100
31	0.1733	0.134	0.103
32	0.1766	0.128 0.118	0.107
33	0.1800 0.1833	0.115	0.110
34 35	0.1833	0.119	0.113
36	0.1900		0.117
37	0.1933		0.120
38	0.1966	0.102	0.123
39	0.2000		0.127
40	0.2033		0.130
41	0.2066		0.133
42	0.2100		0.137
43	0.2133	0.067	0.140
44	0.2166	0.067	0.143
45	0.2200	0.070	0.147
46	0.2233		0.150
47	0.2266		0.153
48	0.2300		0.157
49	0.2333		
50	0.2366		
51	0.2400		
52	0.2433		
53	0.2466		
54	0.2500		
55	0.2533		_
56	0.2566	0.029	U. 103

	TIME	DRAWDOWN	TIME (MIN)
57	0.2600	0.023	0.187
58	0.2633	0.023	0.190
59	0.2666	0.019	0.193
60	0.2700	0.019	0.197
61	0.2733	0.019	0.200
62	0.2766	0.016	0.203
63	0.2800	0.013	0.207
64	0.2833	0.010	0.210
65	0.2866	0.010	0.213
66	0.2900	0.010	0.217
67	0.2933	0.010	0.220
68	0.2966	0.007	0.223
69	0.3000	0.004	0.227

### APPENDIX J POTENTIOMETRIC MEASUREMENTS

			<u>z</u> -	OTENTIOMI DEP 61 ST AREF	OTENTIOMETRIC MEASUREMENT: DEPTH TO WATER 161 ST AREFG, PHOENIX, ARIZONA	POTENTIOMETRIC MEASUREMENTS DEPTH TO WATER 161 ST AREFG, PHOENIX, ARIZONA	8			
LOCATION	PS-01		₽S−.M	PS-03	PP-01	DP-09	PD(A	MWS-01	WWS-0	MWS-M
NORTHING	9822.40		8992.99	9916.67	13666.88	13022.75	13675.97	9484 29	894136	8620.48
EASTING:	12315.52		10050.94	10066.64	6114.69	5919.85	5744.84	11768.37	10847.55	10430.88
TOC ELEVATION:	1119.78		1113.86	1113.83	1245.22	1251.07	1239.42	1118.40	1115.61	1115.84
MEASUREMENT	DEPTH TO WATER	WATER								
	DAY									
	19 76.12	21	81.82	83.48						
20-JAN-91	20 74.95	×	80.58	80.45						
21-JAN-91	21 76.21	21	83.72	75.54						
22-JAN-91	22 76.18	18	7625	75.51						
23-JAN-91	23 76.20	0;	75.25	75.58	30.74	36.63	61.77			
28-JAN-91	28 77.41	41	76.20	76.54						
29-JAN-91	29				30.84	37.45	32.30			
31-JAN-91	31				31.44	37.22	42.09			
01-FEB-91	32 76.51	21	75.20	75.78	31.26	37.14	37.16			
04-FEB-91	35		75.25	75.83	31.18	37.27	30.36			
05-FEB-91	36				31.16	37.20	29.66			
06-FEB-91	37 76.68	<b>8</b> 8	75.37	75.76	30.97	37.14	29.07			
07-FEB-91	38				30.92	37.93	28.69			
08-FEB-91	39 75.75	75	75.46	75.92	30.88	37.19	28.62	T2.TT	75.22	76.50
12-FEB-91		<b>8</b> 2	75.51	76.02	30.76	37.15	28.36	77.40	75.41	76.85
20-FEB-91	51 77.12	21	75.68	76.19	31.22	37.37	28.01	77.62	75.57	76.80
25-FEB-91	55									
20-MAR-91	78 74.46	<del>2</del>	74.12	75.04				75.59	73.74	75.04
21-MAR-91	79				31.09	37.28	28.02			
01-APR-91	91 72.98	88	72.74	73.75				74.15	72.29	73.50
02-APR-91	25				30.84	37.14	27.90			
18-APR-91	108 66.90	8		69.94				6828	92.99	67.83
19-APR-91	601		62.69		30.07	37.54	27.80			
27-JUN-91	178				30.47	36.78	27.88			
30-JUN-91	181 72.26	92	71.40	73.06				72.88	70.99	72.30
26-MAR-92	451 53.90	8	50.46	57.67	29.20	34.92	26.59	53.32	51.99	47.05

DEPTH TO WATER (CONTINUED)   161 ST ARBFG, PHOBINIX, ARIZONA   1873-120 NA   1873-12				APPENDIX	IX J				
MWS-04   MW1-02   MW2-02   MW3-01   MW3-02   MW4-01   MW4-02			POTENT DEPTH 161 ST A	IOMETRIC N TO WATER REFG, PHOI	(CONTINUE ENIX, ARIZO	ENTS ED) Ona			
114.67   9992.28   9801.70   9611.01   9774.44   13733.29   137   11004.99   10666.30   10386.43   10082.74   9815.91   5749.44   5591.44   5591.44   5945.44   5945.44   5945.44   5945.44   5945.44   5945.44   5945.44   5945.44   5945.44   5945.44   5945.44   5945.44   5945.44   5945.44   5945.44   5945.44   595.44	LOCATION:	MWS-04	MW1-02	MW2-02	MW3-01	MW3-02	MW4-01	MW4-02	MWS-01
MENT  MENT	NORTHING:	9224.57	9992.28	9801.70	9611.01	9774.44	13733.29	13732.21	9345.98
MENT  MENT	EASTING:	10052.99	10606.30	10386.43	10082.74	9815.91	5749.44	5959.36	11050.01
MENT  MENT  DAY  19  19  20  21  22  23  23  34  35  34  35  37  4243  38  37  4243	TOC ELEVATION:	1114.67	1116.04	1114.20	1114.77	1112.14	1237.87	1241.69	1116.80
3       DAY         19       19         20       20         21       22         23       23         34       31         35       37         43       77.34       75.53         51       77.49       75.80         79       77.40       75.80         79       75.40       74.66         92       73.94       75.34       73.62         108       69.42       71.10       69.24       68.03       35.00         178       72.45       73.43       23.43         178       72.45       73.44       72.64       70.31         181       72.45       73.34       72.64       70.31         451       55.10       55.12       72.23       72.23	MEASUREMENT		ā	EPTH TO WA	TER				
19 20 21 22 23 28 29 31 31 32 34 35 36 37 37 38 37 38 37 38 37 38 37 38 37 38 37 38 37 38 37 38 37 38 37 38 37 38 37 38 37 38 37 38 37 38 37 38 37 38 37 42.43 42.									
20 21 22 23 28 29 31 31 32 34 35 36 37 38 39 77.34 75.53 39 77.49 75.80 42.43 40.02 41 43 77.64 75.80 76.40 76.60									
21 22 28 28 29 31 32 35 36 37 38 43 77.34 77.34 75.53 76.40 76.40 77.64 77.54									
22 23 28 29 31 32 35 36 37 37 38 43 77.34 75.53 43 77.49 75.80 77.64 75.97 76.40 76.									
23 28 31 32 35 36 37 38 39 77.34 77.34 75.80 42.43 39 77.49 75.80 77.64 75.97 76.40									
28 31 32 33 34 35 36 37 38 39 77.34 77.34 75.80 42.43 55 76.40 76.	_								
29 31 32 33 34 37 38 39 77.34 77.34 77.53 43 77.49 77.80 77.64 77.80 77.64 77.80 77.	-91								
31 32 33 34 35 36 37 38 39 77.34 75.53 51 77.49 75.80 76.41 76.41	_								
35 36 37 38 39 77.34 77.34 75.53 39 77.49 75.80 77.64 75.97 76.40	_								
35         36         37         38       77.34       75.53         43       77.49       75.80         51       77.64       75.97       40.02         78       76.40       74.66       28.92         91       75.34       73.62       74.48       35.34         108       69.42       71.10       69.24       86.03       35.00         178       72.45       73.34       71.64       72.64       70.31         181       72.45       73.34       71.64       72.64       70.31         181       72.45       55.10       55.12       22.93	_								
36         37         38       77.34       75.53         43       77.64       75.80         51       77.64       75.97         78       76.40       74.66         79       75.34       73.62         92       73.94       73.62         108       69.42       71.10         109       69.24       68.03         178       72.45       73.34         181       72.45       73.34         451       55.10       56.44       55.91	-								
37       77.34       75.53         43       77.49       75.80         51       77.64       75.97         55       76.40       74.66         79       75.34       73.62         108       69.42       71.10         109       69.24       70.06         178       72.45       73.34         178       72.45       73.34         181       72.45       73.34         451       55.10       58.62         56.44       55.91       55.12         22.93	_								
38       77.34       75.53         43       77.49       75.80         51       77.64       75.97         55       77.64       75.97         78       76.40       74.66         79       75.34       73.62         92       73.94       75.34         108       69.42       71.10         109       70.06       68.03         178       72.45       73.34         178       72.45       73.34         181       72.45       73.34         451       55.91       55.91	_								
39       77.34       75.53         43       77.49       75.80         51       77.64       75.97         55       76.40       74.66         79       75.34       73.62         92       73.94       73.62         108       69.42       71.10         109       69.24       70.06         178       72.45       73.34         178       72.45       73.34         181       72.45       73.34         451       55.10       55.12       22.93	_								
43       77.49       75.80         51       77.64       75.97       42.43         55       76.40       74.66       28.92         79       75.34       73.62       28.92         92       73.94       74.48       35.34         108       69.42       71.10       69.24       68.03       35.30         178       72.45       73.34       71.64       72.64       70.31         181       72.45       73.34       72.64       70.31       23.43         181       72.45       73.34       75.64       55.12       22.93	_		77.34	75.53					77.86
51       77.64       75.97       42.43         55       76.40       74.66       40.02         79       76.40       74.66       28.92         91       75.34       73.62       72.25         92       73.94       74.48       35.34         108       69.42       71.10       69.24       86.03       35.30         109       69.24       72.64       70.31       23.43         178       72.45       73.34       71.64       72.64       70.31         181       72.45       73.34       75.91       55.12       22.93	_		77.49	75.80				29.55	76.65
55     40.02       78     76.40     74.66       79     28.92       91     75.34     73.62       92     73.94     71.10       108     69.42     71.10       109     69.24     68.03       178     72.45     73.34       178     72.45     73.34       181     72.45     73.34       15.10     58.62     56.44     55.12     22.93			77.64	75.97			42.43	27.83	76.84
78     76.40     74.66       79     75.34     73.62     28.92       91     75.34     73.62     72.25       92     73.94     74.48     35.34       108     69.42     71.10     70.06       109     69.24     68.03     35.00       178     72.45     73.34     71.64     72.64     70.31       181     72.45     73.34     71.64     55.12     22.93       181     55.10     58.62     56.44     55.12     22.93	_			•			40.02	27.93	
79     28.92       91     75.34     73.62     72.25       92     73.94     74.48     35.34       108     69.42     71.10     69.24     68.03     35.00       178     72.45     73.34     71.64     72.64     70.31       181     72.45     73.34     71.64     55.12     22.93       181     55.10     58.62     56.44     55.91     55.12     22.93			76.40	74.66					75.09
91     75.34     73.62     72.25       92     73.94     74.48     35.34       108     69.42     71.10     69.24     68.03     35.00       109     69.24     68.03     35.00       178     72.45     73.34     71.64     72.64     70.31       181     72.45     58.62     56.44     55.12     22.93							28.92	27.79	
92     73.94     74.48     35.34       108     69.42     71.10     70.06     68.03     35.00       109     69.24     68.03     35.00       178     23.43       181     72.45     73.34     71.64     72.64     70.31       23.43     55.10     58.62     56.44     55.91     55.12     22.93			75.34	73.62		72.25			73.80
108     69.42     71.10       109     69.24     68.03     35.00       178     23.43       181     72.45     73.34     71.64     72.64     70.31       23.43     55.10     58.62     56.44     55.91     55.12     22.93		73.94			74.48		35.34	27.61	
109 69.24 68.03 35.00 178 23.43 181 72.45 73.34 71.64 72.64 70.31 23.43 23.43 23.43		69.42	71.10		70.06				68.52
23.43 181 72.45 73.34 71.64 72.64 70.31 3 451 55.10 58.62 56.44 55.91 55.12 22.93				69.24		68.03	35.00	26.98	
181 72.45 73.34 71.64 72.64 70.31 35.10 58.62 56.44 55.91 55.12 22.93							23.43	27.14	
. 451 55.10 58.62 56.44 55.91 55.12 22.93		72.45	73.34	71.64	72.64	70.31			72.27
		55.10	58.62	56.44	55.91	55.12	22.93	25.68	54.15

MEASUREMENTS   MEASUREMENTS   MEASUREMENTS   MEASUREMENTS	
RIC MEASUREMENTS  A ELEVATION PHOBINIX, ARIZONA PHOBINIX, ARIZONA PHOBINIX, ARIZONA  PP-01 PP-02 PP-03 MWS-01 MWS-02 M 1366.88 1302.75 13675.97 9484.29 8941.36 1 1245.22 1251.07 1239.42 1118.40 1115.61 1 1213.78 1213.85 1207.12 1 1213.78 1213.87 1200.76 1 1214.04 1213.89 1200.06 1 1214.04 1213.89 1210.35 1 1214.34 1213.89 1210.80 1041.13 1040.39 1 1214.34 1213.89 1210.80 1041.10 1040.04 1 1214.34 1213.89 1211.40 1040.78 1040.04 1 1214.34 1213.89 1211.40 1040.78 1040.04 1 1214.34 1213.93 1211.52 1050.12 1048.85 1 1215.15 1213.79 1211.40 1040.78 1041.87 1 1215.15 1213.39 1211.54 1044.25 1043.32 1 1214.75 1214.29 1211.54 1065.08 1063.62 1 1216.02 1216.15 1212.83 1065.08 1063.62	
PP-01 PP-02 PP-03 MWS-01 MWS-02 M 13666.88 1302.75 13675.97 9484.29 8941.36 6114.69 5919.85 5744.84 11768.37 10847.55 I 1245.22 1251.07 12.99.42 1118.40 1115.61 I 1214.38 1213.85 1197.33 1213.76 1213.87 1202.26 1214.04 1213.87 1209.76 1214.25 1213.87 1209.76 1214.46 1213.87 1209.76 1214.46 1213.93 1210.35 1214.46 1213.93 1210.35 1214.46 1213.92 1211.06 1041.01 1040.20 1214.50 1213.79 1211.40 1042.5 1043.32 1245.22 1213.79 1211.40 1040.25 1215.15 1213.73 1211.54 1043.5 1214.75 1214.25 1211.54 1045.52 1044.62 1216.02 1216.02 1216.25 1065.62 1216.02 1216.15 1212.83 1065.08 1065.62	POTENTIOMI WATI 161 ST AREF
1366.88   13022.75   13675.97   9484.29   8941.36   1245.22   1251.07   1239.42   1118.40   1115.61   11245.2   1251.07   1239.42   1118.40   1115.61   1115.61   1245.22   1251.07   1239.42   1118.40   1115.61   1115.61   1214.38   1213.87   1202.26   1214.38   1213.87   1202.26   1214.04   1213.87   1200.26   1214.04   1213.87   1200.26   1214.04   1213.88   1210.80   1041.13   1040.20   1214.04   1213.70   1211.41   1040.78   1040.20   1214.00   1213.70   1211.41   1040.78   1040.24   1214.00   1213.70   1211.41   1042.5   1043.32   1215.15   1213.53   1211.52   1050.12   1048.85   1214.75   1214.29   1211.54   1045.52   1044.62   1216.02   1216.05   1065.08   1065.02   1216.02   121	PS-02 F
1245.22   1251.07   1239.42   1118.40   1115.61     1214.48   1214.44   1177.65     1214.38   1213.62   1207.12     1213.96   1213.87   1209.06     1214.06   1213.87   1209.06     1214.06   1213.93   1210.33     1214.25   1213.94   1210.33     1214.26   1213.97   1210.30   1041.13   1040.20     1214.06   1213.92   1211.06   1041.00   1040.20     1214.06   1213.79   1211.41   1040.78   1040.04     1245.22   1213.79   1211.40   1044.25   1043.32     1215.15   1213.53   1211.62   1045.62     1216.02   1216.15   1212.83   1065.08   1063.62     1216.02   1216.15   1212.83   1065.08   1065.06     1216.02   1216.15   1212.83   1065.08   1065.06     1216.02   1216.15   1212.83   1065.08   1065.08     1216.02   1216.15   1212.83   1065.08   1065.08     1216.02   1216.15   1212.83   1065.08   1065.08     1216.02   1216.15   1212.83   1065.08   1065.08     1216.02   1216.15   1212.83   1065.08   1065.08     1216.02   1216.15   1212.83   1065.08   1065.08     1216.02   1216.15   1212.83   1065.08   1065.08     1216.02   1216.15   1212.83   1065.08   1065.08     1216.02   1216.15   1212.83   1065.08   1065.08     1216.02   1216.15   1212.83   1065.08   1065.08     1216.02   1216.02   1216.02   1216.02   1216.02     1216.02   1216.03   1216.03   1065.08   1065.08     1216.02   1216.03   1216.03   1065.08   1065.08     1216.02   1216.03   1216.03   1065.08   1065.08     1216.02   1216.03   1216.03   1065.08   1065.08     1216.02   1216.03   1216.03   1065.08   1065.08     1216.02   1216.03   1216.03   1065.08   1065.08     1216.03   1216.03   1216.03   1065.08   1065.08   1065.08     1216.03   1216.03   1216.03   1216.03   1216.03     1216.03   1216.03   1216.03   1216.03   1216.03   1216.03     1216.03   1216	9822.4 8992.99 9916.67 12315.52 10050.94 10066.64
1214.48   1214.44   1177.65   1214.38   1213.62   1207.12   1213.96   1213.85   1197.33   1202.26   1214.04   1213.87   1209.06   1214.06   1213.87   1209.06   1214.25   1213.87   1210.35   1214.30   1213.44   1210.73   1214.46   1213.92   1211.06   1041.13   1040.29   1214.00   1213.79   1211.41   1040.78   1040.04   1245.22   1213.79   1211.41   1040.78   1041.87   1215.15   1213.73   1211.62   1050.12   1048.85   1216.75   1214.75   1214.29   1211.54   1045.22   1044.62   1216.75   1216.15   1212.83   1065.08   1065.06   1065	1113.86
1214.48   1214.44   1177.65   1214.38   1213.85   1197.33   1202.26   1213.96   1213.87   1202.26   1214.04   1213.87   1202.26   1214.06   1213.87   1200.76   1214.25   1213.93   1210.80   1041.13   1040.39   1214.34   1213.92   1211.06   1041.00   1040.20   1214.00   1213.79   1211.41   1040.78   1040.04   1245.22   1213.79   1211.40   1044.25   1048.85   1215.15   1213.53   1211.62   1050.12   1048.85   1216.02   1216.02   1216.15   1216.28   1055.08   1065.02   1065.02   1216	WATER ELEVATION
1214.48   1214.44   1177.65   1214.38   1213.62   1207.12   1213.78   1213.85   1197.33   1202.26   1214.04   1213.87   1202.26   1214.04   1213.87   1209.76   1214.06   1213.87   1210.35   1214.34   1213.88   1210.80   1041.13   1040.39   1214.46   1213.92   1211.06   1041.13   1040.20   1214.00   1213.79   1211.41   1040.78   1040.04   1245.22   1213.93   1211.40   1044.25   1043.32   1215.15   1213.53   1211.62   1045.52   1044.62   1216.02   1216	1043.66 1032.04 1030.35
1214.48   1214.44   1177.65   1214.38   1213.62   1207.12   1213.78   1213.85   1197.33   1213.96   1213.87   1202.26   1214.04   1213.87   1209.76   1214.06   1213.87   1209.76   1214.25   1213.93   1210.35   1214.34   1213.92   1211.06   1041.13   1040.39   1214.46   1213.92   1211.06   1041.13   1040.20   1214.40   1213.79   1211.41   1040.78   1040.04   1245.22   1213.79   1211.40   1044.25   1043.32   1215.15   1213.53   1211.62   1045.52   1044.62   1216.02   1216	1033.28
1214.48   1214.44   1177.65   1214.38   1213.62   1207.12   1213.78   1213.85   1197.33   1202.26   1214.04   1213.80   1202.06   1214.04   1213.87   1209.06   1214.05   1213.93   1210.35   1214.34   1213.93   1210.35   1214.34   1213.92   1211.06   1041.13   1040.39   1214.34   1213.79   1211.41   1040.78   1040.20   1245.22   1213.79   1211.40   1044.25   1048.85   1213.53   1211.52   1050.12   1048.85   1216.75   1212.83   1065.08   1065.62   1044.62   1216.02   1216.15   1212.83   1065.08   1065.62	1030.14
1214.48   1214.44   1177.65   1214.38   1213.62   1207.12   1213.78   1213.85   1197.33   1202.26   1213.94   1202.26   1214.04   1213.87   1209.06   1214.06   1213.93   1210.35   1214.34   1213.92   1211.06   1041.01   1040.20   1214.00   1213.92   1211.06   1041.00   1040.20   1214.00   1213.79   1211.41   1040.78   1040.04   1245.22   1213.79   1211.40   1044.25   1043.32   1215.15   1213.53   1211.62   1045.52   1044.62   1216.02   1216.15   1212.83   1065.08   1063.62   1216.02   1216	1037.61
1214.38     1213.62     1207.12       1213.78     1213.85     1197.33       1213.96     1213.93     1202.26       1214.04     1213.87     1209.06       1214.25     1213.93     1210.35       1214.34     1213.93     1210.35       1214.36     1213.14     1210.73     1040.39       1214.46     1213.92     1211.06     1041.01     1040.20       1214.50     1211.41     1040.78     1040.04       1245.22     1213.79     1211.40     1042.81     1041.87       1215.15     1213.53     1211.62     1044.25     1048.65       1216.75     1216.15     1212.83     1065.02     1044.62       1216.02     1216.15     1212.83     1065.02     1065.62	1038.61
1214.38 1213.62 1207.12 1213.78 1213.85 1197.33 1213.96 1213.87 1202.26 1214.04 1213.80 1209.06 1214.05 1213.87 1209.76 1214.25 1213.87 1210.35 1214.34 1213.89 1210.80 1041.13 1040.39 1214.34 1213.92 1211.06 1041.00 1040.20 1214.00 1213.79 1211.41 1040.78 1040.04 1245.22 1213.79 1211.40 1042.5 1048.85 1215.15 1213.53 1211.62 1050.12 1048.85 1216.02 1216.15 1212.83 1065.08 1063.62	1042.37 1037.66 1037.29
1213.78   1213.83   1197.33   1213.96   1213.96   1213.93   1202.26   1214.04   1213.87   1209.06   1214.06   1213.87   1209.06   1214.25   1213.93   1210.33   1210.33   1210.33   1210.33   1210.33   1214.34   1213.92   1211.06   1041.00   1040.20   1214.00   1213.70   1211.41   1040.78   1040.04   1245.22   1213.93   1211.52   1042.5   1043.32   1215.15   1213.53   1211.52   1045.52   1044.62   1216.02   1216.15   1212.83   1065.08   1063.62   1216.02   1216.02   1216.03   1065.08   1063.62   1216.02   1216.03   1065.08   1063.62   1216.02   1216.03   1065.08   1063.62   1216.02   1216.02   1216.03   1212.83   1065.08   1063.62   1216.02   1216.	
1214.04 1213.80 1209.06 1214.04 1213.80 1209.06 1214.25 1213.93 1210.35 1214.30 1213.14 1210.73 1214.34 1213.88 1210.80 1041.13 1040.39 1214.46 1213.92 1211.06 1041.00 1040.20 1214.00 1213.70 1211.41 1040.78 1040.04 1245.22 1213.79 1211.40 1044.25 1048.85 1215.15 1213.53 1211.62 1046.62 1216.02 1216.15 1212.83 1065.08 1063.62	18201 27 SEUT 25 SEUT
1214.06 1213.87 1209.76 1214.25 1213.93 1210.35 1214.30 1213.14 1210.73 1214.34 1213.88 1210.80 1041.13 1040.39 1214.46 1213.92 1211.06 1041.00 1040.20 1214.00 1213.70 1211.41 1040.78 1040.04 1245.22 1213.79 1211.40 1042.5 1043.32 1215.15 1213.53 1211.62 1050.12 1048.85 1216.02 1216.15 1212.83 1065.08 1063.62	1038:61
1214.25 1213.93 1210.35 1214.30 1213.14 1210.73 1214.34 1213.88 1210.80 1041.13 1040.39 1214.46 1213.70 1211.41 1040.78 1040.04 1214.00 1213.79 1211.40 1042.81 1041.87 1245.22 1213.79 1211.40 1044.25 1048.85 1215.15 1213.53 1211.62 1046.62 1216.02 1216.15 1212.83 1065.08 1063.62	
1214.30 1213.14 1210.73 1214.34 1213.88 1210.80 1041.13 1040.39 1214.46 1213.92 1211.06 1041.00 1040.20 1214.00 1213.70 1211.41 1040.78 1040.04 1245.22 1211.39 1211.40 1044.25 1043.32 1215.15 1213.53 1211.62 1046.62 1216.02 1216.15 1212.83 1065.08 1063.62	1043.1 1038.49 1038.07
1214.34 1213.88 1210.80 1041.13 1040.39 1214.46 1213.92 1211.06 1041.00 1040.20 1214.00 1213.70 1211.41 1040.78 1040.04 1245.22 1213.79 1211.40 1044.25 1043.32 1215.15 1213.53 1211.62 1045.52 1044.62 1216.02 1216.15 1212.83 1065.08 1063.62	
1214.46 1213.92 1211.06 1041.00 1040.20 1214.00 1213.70 1211.41 1040.78 1040.04 1215.22 1211.40 1044.25 1043.32 1215.15 1213.53 1211.62 1046.85 1214.75 1214.29 1211.54 1045.52 1044.62 1216.02 1216.15 1212.83 1065.08 1063.62	1038.40
1214.00 1213.70 1211.41 1040.78 1040.04 1245.22 1213.79 1211.40 1044.25 1043.32 1215.15 1213.53 1211.62 1046.85 1214.75 1214.29 1211.54 1045.52 1044.62 1216.02 1216.15 1212.83 1065.08 1063.62	1038.35
1245.22 1213.79 1211.40 1044.25 1043.32 1215.15 1213.93 1211.62 1050.12 1048.85 1214.75 1214.75 1216.15 1216.15 1216.15 1216.15 1216.15 1216.28 1065.08 1063.62	1042.66 1038.18 1037.64
1213.79 1211.40 1044.25 1043.32 1213.93 1211.52 1050.12 1048.85 1215.15 1214.75 1214.29 1211.54 1045.52 1044.62 1216.02 1216.15 1212.83 1065.08 1063.62	1045,32 1039,74 1038,79
1245.22 1043.32 1211.52 1044.25 1043.32 1215.15 1215.15 1214.29 1211.62 1045.52 1044.62 1216.02 1216.15 1212.83 1065.08 1063.62	
1213.93 1211.52 1048.85 1215.15 1048.85 1215.15 1214.29 1211.54 1045.52 1044.62 1216.02 1216.15 1212.83 1065.08 1063.62	1046.8 1041.12 1040.08
1050.12 1048.85 1215.15 1213.53 1211.62 1214.75 1214.29 1211.54 1045.52 1044.62 1216.02 1216.15 1212.83 1065.08 1063.62	
1215.15 1213.53 1211.62 1214.75 1214.29 1211.54 1045.52 1044.62 1216.02 1216.15 1212.83 1065.08 1063.62	1052.88 1043.89
1216.02 1216.15 1212.83 1065.08 1067.62	1045.87
1216.02 1216.15 1212.83 1065.08 1063.62	1047 52 1040 46 1040 77
	1063.40

in the second of

			APPENDIX J	IX J				
		POTENT! WATER 161 ST A	POTENTIOMETRIC MEASUREMENTS WATER ELEVATION (CONTINUED) 161 ST AREFG, PHOENIX, ARIZONA	IEASUREMI I (CONTINU BNIX, ARIZO	ENTS ED) NA			
LOCATION:	MWS-04	MW1-02	MW2-02	MW3-01	MW3-02	MW4-01	MW4-02	MW5-01
NORTHING:	9224.57	9992.28	9801.70	9611.01	9774.44	13733.29	5749.44	9345.98
EASTING:	10052.99	10606.30	10386.43	10082.74	9815.91	5749.44	5959.36	11050.01
TOC ELEVATION:	1114.67	1116.04	1114.20	1114.77	1112.14	1237.87	1241.69	1116.80
MEASUREMENT		*	WATER ELEVATION	TION				
DATE DAY								
19~JAN-91								
20-JAN-91 20								
21-JAN-91 21								
22~JAN-91 22								
23-JAN-91 23								
28~JAN-91 28								
29-JAN-91 29								
_								
01-FEB-91 32								
04-FEB-91 35								
05-FEB-91 36								
06-FEB-91 37								
07-FEB-91 38								
08~FEB-91 39		1038.70	1038.67					1038.94
12-FEB-91 43		1038.55	1038.40				1212.14	1040.15
20-FEB-91 51		1 <u>0</u> 38.40	1038.23			1195.44	1213.86	1039.96
25-FEB-91 55						1197.85	1213.76	
20-MAR-91 78		1039.64	1039.54					1041.71
21-MAR-91 79						1208.95	1213.90	
01-APR-91 91		1040.70	1040.58		1039.89			1043.00
02-APR91 92	1040.73			1040.29		1202.53	1214.08	
18-APR-91 108	1045.25	1044.94		1044.71				1048.28
19-APR-91 109			1044.96		1044.11	1202.87	1214.71	
27-JUN-91 178						1214.44	1214.55	
30~JUN~91	1042.22	1042.70	1042.56	1042.13	1041.83			1044.53
26-MAR-92 451	1059.57	1057.42	1057.76	1058.86	1057.02	1214.94	1216.01	1062.65

### APPENDIX K RESULTS OF SCREENING ANALYSES

		RESU Be 161a	APTENDIX K RESULTS OF SCREENING ANALYES BACKGROUND SOIL SAMPLES 1614 AREFG, PHOENIX, ARIZONA	. PSES ES ONCA			
FIBLD SAMPLE NUMBER: LAB SAMPLE NUMBER: LOCATION: DEFTH (FT): MATRIX:	MRS-01-0-2-04 MRS 0 2044 MWS-01 SOIL	IIS-01-5-7-64 0 2845 MWS-01 6-07 SOIL	MBS-02-0-2-05 G 2052 MWS-02 00-02 SOIL	MRS-42-5-7-65 0 2653 MWS-42 65-67 SOIL	MRS-Q-16-13-89 0.264 10-10 10-10 10-10	MDS07-151791 0 2053 MVS02 1008	
DCE (PPB): TCA (PPB): BENZENE (PPB): TCE (PPB): TCE (PPB): TCE (PPB): TCE (PPB): TCI UENE (PPB): TCI AL XYLENES (PPB): HEAVY HYDROCARBON:	572 U 1090 UA 40 US 572 U 40 US 524 U 40 U 40 US NO	572 U 1000 UA 40 US 572 U 40 US 524 U 40 US NO NO	572 U 1090 UA 40 US 572 U 572 U 524 U 60 U 80 U 80 O NO	572 U 1000 UA 40 U 572 U 40 US 52.4 U 40 U 40 U 80 U 40 U	572 U 1000 UA 1000 UA 40 U 572 U 60 US 80 U 60 U 80 U 80 U 80 U	572 U 1000 UA 40 U 572 U 572 U 572 U 572 U 572 U 574 U 60 U 574 U 60 U 60 U 60 U 60 U 60 U 60 U 60 U 6	

		40 US	10 - 27 - 47 - 61 10 - 27 / 20 / 20 / 20 / 20 / 20 / 20 / 20 /	20075 20075 20076 20076 2007 2007 40 US 572 U 40 US 572 U 40 US 572 U 40 US 574 U 40 US 574 U 40 US	572 U 1000 U 100	20-12-0-1	
HEAVY HYDROCARBON:	<b>Q</b>	Q.	Q	2	Ş		
JOHT HYDROCARBON:	2	Q	Ç	CZ	Ş		

APPENDIX K	RESULTS OF SCREENING ANALYSES	BACKGROUND SOIL SAMPLES (cost.)	Aleccade and annual contract and annual annu
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NO PERSON		10-77-77-81 NG 8-05-77-91 STAR	MRS-04-0-7-62 G 2899 LESS-04	20-531-51-40-207 80720 80720	MRS - 61 - 25 - 21 5 - 61 C 2191 MWS - 64	10-24-24-10-2014 10-201 10-2014 10-2014
871(f); Atrix:		1108	TIOS			Ē
600	11 (15	572 U	N 99	U 7.8		
CAC (res).	ATE COUL	AU 0001	D 089	D 065	-	
ICA (rrb):	11 08	STI OF	D 98	<b>187</b>		
DENZENE (FFD).	11 (13	0.625	nes	DS		
ice (rrs):	2104	21.9	0 13	7.4		
IOLUENE (rrb):	34.5	1174	n a	28.0		
C.C. (FFB):	40 11	119	D 17	3.6 U		
EINTLEENCENE (FIB):	2 4	Silv	N 96	8.7 U		
IOIAL A LENES (FFB).	) 2	C X	0	2	ON	OX
EAVI HIDROCARBON.	2	2	CX	ON		

			APPENDIX K RESULTS OF SCREENING ANAL THES BACKGROUND SOIL SAMPLES (com.), IGEM ARERG, PROBNIX, ARIZONA	K 10 ANAL 12ES UMTLES (con.) C, ARIZONA		
FIELD SAMPLE NUMBER: LAB SAMPLE NUMBER: LOCATION: DEFTE (FT): MATRIX:	10-11-0-10-10-10-10-10-10-10-10-10-10-10	7008 579-50 1075 1075 1075 1075 1075 1075 1075 10	188-4-39-31-1 0 230 0 200 18-9-9 1-1-8	MES-04-65-64.5-1 0.228 M-89-8 0.248-8 0.248-8 0.248-8	2000 - 20-70 - 70-70 -	
DOE(PPB:	U 85	35.0	U 021	38 13	11 42	
TCA (PPB):	U 0001	3700 U	12000 U	3700 U	7300 U	
BENZENE (PPB):	230	230	8	<b>S</b>	3	
TCB (PPB):	ħ	140 E	3	140 U	28 28	
TOLUENE (PPB):	7	1200	38	82 E	1 4 4 E E E E E E E E E E E E E E E E E	
PCE (PPB):	11 U	D 062	730 U	Z30 U	D 0\$1	
ETHYLBENZENE (PPB):	1700 E	3700 E	1600 E	190		
TOTAL XYLENES (PPB):	110	8	2500 E	260	<b>9</b>	
HEAVY HYDROCARBON:	YES	YES	YES	YES	YES	
LIGHT HYDROCARBON:	YES	YES	YES	QX.	ON	

		AFFENDIX K RESULTS OF SCREENING ANALYSES SITE I SOIL SAMPLES 1614 AREFG, PHOENIX, ARIZONA	ING ANALYSES MPLES IIX, ARIZONA		
FIBLD SAMPLE NUMBER: LAB SAMPLE NUMBER: LOCATION: DBFTH (FT): MATRIX:	\$B1-02-0-2-04 G 2063 \$B1-02 00-02 \$OIL	\$B1-02-15-17-01 Q 2071 \$B1-02 15-17 \$OIL	\$B1-62-25-27-62 G 2672 \$B1-62 25-27 \$OIL	\$B1-62-59-52-61 C 2073 \$B1-62 50-52 \$OIL	\$B1-63-6-2-62 G 2618 \$B1-63 66-62 SOIL
	11 (1)	\$7.2 U	57.2 U	57.2 U	64.4 US
DCE (PPB):	\$ 7:50 \$11 0801	AU 0801	AU 0801		1080 AU
TCA (PPB):	AD 0501	12 07	J 64		D 04
BENZENE (FFB):	\$7.2 II	57.2 U	57.2 U	57.2 U	57.2 U
LCE (FFB):	SI 07	40 US	40 US	40 US	40 US
I OLOENE (Frb):	\$2.4 []	52.4 U	52.4 U	52.4 U	52.4 U
FCE (FFB):	70 07	40 U	U 04	40 U	U 04
TOTAL XVI BNBS (PPB):	6.73 B	40 U	U 04	40 US	U 04
HEAVY HVDROCARRON:	YES	ON	ON	ON	ON
I TOUT UVDBOCABBON:	OX	ON	ON	ON	ON

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# RESULTS OF SCREENING ANALYSES SITE I SOIL SAMPLES (CORT.) 161st ARBFG, PHOBNIX, ARIZONA

FIRED SAMPLE NOMBER: LAB SAMPLE NUMBER: LOCATION: DBFTH (FT): MATRIX:	\$B1-04-0-2-02 G 2015 \$B1-04 00-02 \$OIL	\$B1-04-5-7-02 G 2016 \$B1-04 65-67 \$OIL	\$B1-04-10-12-02 G 2017 \$B1-04 10-12 \$OIL	\$B1-64-30-32-62 G 2019 \$B1-64 \$6-32 \$OIL	\$B1-65-61-62 G 2667 \$B1-65 61-62 \$OIL
DCE (PPB);	64.4 US	64.4 US	64.4 US	64.4 US	64.4 US
TCA (PPB):	1080 AU	1080 AU	1080 AU	1080 AU	
BENZENE (PPB):	40 U	N 07	<b>→</b> 04	D 07	70 07
TCE (PPB):	57.2 U	57.2 U	57.2 U	S7.2 U	10 <b>0</b> U
TOLUENE (PPB):	40 US	40 US	40 US	40 US	70 %
PCB (PPB):	52.4 U	52.4 U	52.4 U	52.4 U	91.7 U
ETHYLBENZENE (PPB):	40 U	40 U	40 U	40 U	70 U
TOTAL XYLENES (PPB):	40 U	40 U	40 U	40 US	70 U
HEAVY HYDROCARBON:	ON	ON	ON	ON	OX
LIGHT HYDROCARBON:	OZ	ON	OX	ON	CN

NOTES

U = NOT DETECTED AT CONCENTRATION GIVEN S = RESIDUAL SYSTEM (BLANK) CONTAMINATION

E = ESTIMATED VALUE OUTSIDE OF CALIBRATION LINEAR RANGE

A = BSTIMA FED VALUE DUE TO CALIBRATION PROBLEM

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## RESULTS OF SCREENING ANALYSES SITE I SOIL SAMMES (cost.) 161st AREFG, PHOBNIX, ARIZONA

FIBLD SAMPLE NUMBER:	SB1-05-0-5/02	SB1-05-5-10/02	SB1-05-5-10-15/02	\$B1-65-25-36	SB1-65-25-3002
LAB SAMPLE NUMBER:	G 2010	G 2811	G 2012	0 2005	0.2013
LOCATION:	SB1-65	SB1-05	SB1-05	SB1-05	SB1-05
DRPTH (PD.	\$0 <b>-10</b>	65-10	10-15	25-38	25-38
MATRIX:	SOIL	SOIL	SOIL	SOIL	SOIL
DCE (PPB):	64.4 US	64.4 US	64.4 US	64.4 US	64.4 US
TCA (PPB):	1080 UA	1080 UA	1080 UA		1080 UA
BENZENE (PPB):	40 US	40 US	40 US	D 0%	40 US
TCE (PPB):	57.2 U	57.2 U	57.2 U	100 U	57.2 U
TOLUENE (PPB):	40 US	40 US	D 04	70 U	\$0 O¥
PCE (PPB):	52.4 U	52.4 U	52.4 U	91.7 U	52.4 U
ETHYLBENZENE (PPB):	40 US	₩ 10 U	10 OP	70 U	<b>9</b>
TOTAL XYLENES (PPB):	40 U	40 US	40 U	J0 02	D 94
HEAVY HYDROCARBON:	ON	ON	ON	ON	OX
I IGUT UVDBOCAPRON.	CN	ON	ON.	OX	OX

NOTES

### APPENDEX K

## RESULTS OF SCREENING ANALYSES STE I SOIL SAMPLES (CONC.) MIM ARENO, PHOENIX, ARIZONA

FIELD SAMFLE NUMBER: LAB SAMFLE NUMBER: LOCATION: DEFTH (FT): MATRIX:	7106 95-57 90-188 70-188	705 99-188 99-188 99-198	MBI -02-0-7-63 O 2033 R MWI -02 00-02 COIL	MBC-42-15-17-41 0 2894 R MW1-42 15-17 15-17	MEG-62-59-57-41 G 2055 R MW1-42 90-52	TO SECOND
DCE (PPB):	64.4 US	04.4 U	S72 U	57.2 U	S7.2 U	S72 U
TCA (PPB):	1000 UA	1000 U.A	1000 US	1080 UA	1080 UA	AU ONE
BENZENE (PPB):	D 0\$	D 02	D 0#	D 0#	21.4 U	24 0
TCE (PPB):	57.2 U	D 001	57.2 U	S7.2 U	33.4 U	מאים
TOLUENE (PPB):	40 US	SO OS	SD 04	\$0 CS	24 135	5 8
PCE (PPB):	524 U	91.7 U	524 U	254 U	D #	3
ETHYLBENZENE (PPB):	1 0 <del>1</del>	D &	D 0\$	D 04	19.4 U	194 U
TOTAL XYLENES (PPB):	D 9	D &	D 07	D 04	37 F.S	D 4K
HEAVY HYDROCARBON:	Q	YES	2	£	2	Q
LIGHT HYDROCARBON:	NO	Q.	NO.	Ą	Q	Q

### NOTES

		RESULTS C SIT	APPENDIX K RESULTS OF SCREENING ANAL YSES SITE 2 SOIL SAMPLES 1614 AREFG, PHOENIX, ARIZONA			
FIBLD SAMPLE NUMBER: LAB SAMPLE NUMBER: LOCATION: DEPTH (FT): MATRIX:	SE2-01-0-2-03 O 2057 R SE2-01 00-02 SOIL	SB2-01-59-52-02 O 2638 R SB2-01 S0-52 SOIL	SR2-01-55-57-02 G 2039 R SR2-01 S5-57 SOIL	SB2-01-60-62-62 0 2040 R SB2-01 60-62 SOIL	\$82-62-6-2-62 0 2626 \$82-62 60-62 \$Oil.	\$82-62-5-7-62 \$82-62 65-67 \$01.
	11 023	11 6 23	11 6 23	S7.2 U	64.4 US	64.4 US
DCE (FFB):	0.2.76 1000 11A	1040 I.A	AU 0801	1080 UA	1080 AU	1000 AU
DENZENE (200):	21411	21.4 U	21.4 U	21.4 U	7	D 04
DENZENE (FFD):	0 7:17 0 7:17	33.4 U	33.4 U	33.4 U	57.2 U	S7.2 U
TOT HENE (PPB):	24 US	24 US	24 US	24 US	40 US	\$0 CS
PCE (PDB):	44.0	D 44	14 U	D #4	52.4 U	52.4 U
HTHY BRAZENE (PPR):	[1 7-61	U 4.61	19.4 U	19.4 U	D 04	U 04
TOTAL YVI BNES (PPB):	24.4 U	24.4 U	24.4 U	24.4 U	D 07	U 04
LEAVY HYDROCAR BON:	CZ	ON	ON	ON	ON.	NO
LIGHT HYDROCARBON:	ON	ON	NO	NO	ON	ON

NOTES

RESULTS OF SCREENING ANALYSES	SITE 2 SOIL SAMPLES (coat.) 161st ARRPG PHORNIX ARIZONA
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FIBLD SAMPLE NUMBER:	SB2-02-10-12-02	SB2-02-40-42-02	SB2-62-50-52-62	SB2-02-70-72-62	SB2-64-6-2-62	SB264-15-17-6
LAB SAMPLE NUMBER:	G 2021	G 2027	G 2822	G 2023	G 2024	C 2825
LOCATION:	SB2-02	SB2-02	SB2-02	\$B2-62	SB2-6	SB2-64
DEPTH (PT):	10-12	40-42	50-52	70-72	<b>20-02</b>	15-17
MATRIX	TIOS	SOIL	SOIL	SOIL	SOIL	TIOS
DCE (PPB):	64.4 US	64.4 US	64.4 US	64.4 US	64.4 US	64.4 US
TCA (PPB):	1080 AU	1080 AU	1060 AU	1080 AU	1060 AU	DA 000
BENZENE (PPB):	D 04	40 U	D 07	7 0 <del>4</del>	D 07	<b>\$</b>
TCE (PPB):	57.2 U	57.2 U	57.2 U	57.2 U	57.2 U	57.2 U
TOLUENE (PPB):	40 US	40 US	40 US	40 US	SO OF	<b>\$</b> 55
PCE (PPB):	52.4 U	52.4 U	\$2.4 U	524 U	52.4 U	274 U
ETHYLBENZENE (PPB):	U 04	40 U	D 07	J 04	D 04	⊃ <b>9</b>
TOTAL XYLENES (PPB):	U 04	40 U	D 07	D 97	SD 04	<b>₽</b>
HEAVY HYDROCARBON:	ON	ON	NO.	QV OX	ON	O <sub>X</sub>
LIGHT HYDROCARBON:	ON	NO	ON	ON	NO	NO

FIELD SAMPLE NUMBER: LAB SAMPLE NUMBER: LOCATION: DEFTH (FT): MATRIX:	SRZ - 94 - 50 - 52 - 62 0 2023 SRZ - 04 SPC - 52 SOIL	SRZ-04-70-72-02 G 2028 SRZ-04 70-72 SOII.	MRZ-CZ-64 G 2077 MWZ-CZ 90-CZ SOIL	108 10-8 10-8 10-8 10-8 10-8 10-8 10-8 1	10-21-01-22-01 0-22-0 10-21-01 10-21-01	108 - 12 - 12 - 12 - 12 - 12 - 12 - 12 - 1
DCE(PPB):	57.2 US	57.2 US	57.2 U	S72 U	572 U	S7.2 U
TCA (PPB):	1080 AU	1080 AU	1080 AU	1080 AU	1000 AU	1000 AU
BENZENE (PPB):	40 US	40 US	3.71 E	1 0 <del>7</del>	D 04	D 0\$
TCE(PPB):	57.2 U	57.2 U	57.2 U	572 U	57.2 U	57.2 U
TOLUENE (PPB):	40 US	40 US	SO OF	SD 04	40 US	<b>\$0 US</b>
PCE(PPB):	52.4 U	\$2.4 U	52.4 U	52.4 U	52.4 U	52.4 U
ETHYLBENZENE (PPB):	D 07	D 9	D 04	D 0#	10 OF	10 OF
TOTAL XYLENES (PPB):	D 04	40 US	13.5 E	SO OF	D 04	40 US
HEAVY HYDROCARBON:	ON	ON	YES	ON	ON	ON
LIGHT HYDROCARBON:	ON	ON	OX	ON	Q	CX

K: MB2-02-45-47-01 MB2-02-50-52-01 MB2-02  G 2081 G 2082  MW2-02  MW2-02  MW2-02  MW2-02  MW2-02  MW2-02  MW2-02  MW2-02  MW2-02  SOIL  SOIL  SOIL  SOIL  40 U  40 U  57.2 U  40 US  52.4 U  40 US  52.4 U  40 US  SOIL  40 US  SOIL  A0 U  40 US  SOIL  A0 US  SOIL  A0 U  A0 U  A0 US  SOIL  A0 U		RESULTS SITE 161st AR	APPENDIX K RESULTS OF SCREENING ANALYSES SITE 2 SOIL SAMPLES (coat.) 1614 AREFG, PHOENIX, ARIZONA		
S7.2 U S7.2 U 1080 AU 1080 AU 40 U 57.2 U 57.2 U 57.2 U 57.2 U 60 US 52.4 U 60 US 52.4 U 40 US 52.4 U 40 US 52.4 U 50.0 US 50.4 US 50.0 US 5	MELD SAMPLE NUMBER: LAB SAMPLE NUMBER: LOCATION: DEFTH (FT): MATRIX:		MB2-02-50-52-01 G 2082 MW2-02 50-52 SOIL	MB2-02-65-67-01 G 2063 MW2-02 65-67 SOIL	MR2-42-76-77-66 G-2064 MW2-42 70-77 SOIL
1080 AU 1080 AU 40 U 57.2 U 57.2 U 40 US 52.4 U 52.4 U 40 US 40 US 60 US 52.4 U 40 US 52.4 U 40 US 52.4 U 50.0 US 50.4 U 50.0 US 50.4 U 50.0 US 50.4 U 50.0 US 50.4 U	DCE (PPB):	57.2 U	57.2 U	57.2 U	57.2 U
40 U 40 U 57.2 U 57.2 U 57.2 U 57.2 U 57.2 U 60 US 40 US 52.4 U 60 U 60 US 60 U 60 US 60 U 60 US 60 U 60 U	TCA (PPB):	1080 AU	1080 AU	1080 AU	1080 AU
(PPB): 40 US 57.2 U 52.4 U 52.4 U 40 US 40 US 40 US 52.4 U 52.4 U 52.4 U 40 US 40 U 52.4 U 52	BENZENE (PPB):	40 U	40 U	40 U	D 04
40 US 40 US 52.4 U 52.4 U 40 U 40 U 40 U 40 U 40 U 40 U 40 U	TCE (PPB):	57.2 U	57.2 U	57.2 U	57.2 U
52.4 U 52.4 U 40 U 40 U 40 U	TOLUENE (PPB):	40 US	40 US	40 US	40 US
40 U 40 U 40 U 40 U A0 U A0 U A0 U	PCE (PPB):	52.4 U	52.4 U	52.4 U	52.4 U
40 US 40 U	ETHYLBENZENE (PPB):	40 U	40 U	40 U	40 US
ON ON	TOTAL XYLENES (PPB):	40 US	40 U	40 U	D 07
OK OK	HEAVY HYDROCARBON:	ON	ON	ON	ON.
LIGHT HYDROCARBON: NO NO NO	LIGHT HYDROCARBON:	NO	NO	ON	NO

NOTES

U = NOT DETECTED AT CONCENTRATION GIVEN

S = RESIDUAL SYSTEM (BLANK) CONTAMINATION E = ESTIMATED VALUE OUTSIDE OF CALIBRATION LINEAR RANGE

A = ESTIMATED VALUE DUE TO CALIBRATION PROBLEM

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X
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<b>~</b>

## RESULTS OF SCREENING ANALYSES SITE 3 SOIL SAMPLES 161st AREFG, PHOENIX, ARIZONA

FIELD SAMPLE NUMBER:	MB3-01-0-1.5-03	MB3-01-5-6.5-3	MB3-01-35-36.5-2	MB3-01-40-41.5-01	MBS-01-50-5	1.5-01 MBS-01-55-56.5-1
LABSAMPLE NUMBER:	G 2106	G 2109	G 2116		0 2112	0 213
LOCATION:	MW3-01	MW3-01	MW3-01	MW3-01	KW3-61	MWS-61
DEPTH (PT):	8-01.5	65-66.5	35-36.5	40-41.5		55-56.5
KATKIX	SOIL	301	SOIL	SOIL	SOIL	SOFF
DCE (PPB):	8.4 m	7.4 U	S.7 U	U *.8	5.5 U	0.43
TCA (PPB):	370 U	770 U	290 U	870 U	230 U	200
BENZENE (PPB):	7.1 U	6.3 U	4.8 U	7.1 U	4.7 U	7.10
TCE (PPB):	34 U	30 C	23 U	34 U	n zz	2
TOLUENE (PPB):	0.5 U	S.7 U	0.4.V	6.5 U	4.3 U	059
PCE (PPB):	24.0	1. LT	36 U	54.0	3S U	S3 U
ETHYLBENZENE (PPB):	5.3 U	J. U.	3.6 U	5.3 U	3.5 U	530
TOTAL XYLENES (PPB):	12 U	110	8.4 U	12 U	8.10	12 U
HEAVY HYDROCARBON:	ON	ON	ON	ON	OX	Q.
LIGHT HYDROCARBON:	ON	ON	NO	NO	ON	02

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			ADDUMNIN			
			ACTONUIA A			
		RESULTS SITE. 1618 ARI	RESULTS OF SCREBNING AMALYSES SITE 3 SOIL SAMPLES (cost.) 161st ARBFG, PHOBNIX, ARIZONA			
PIRLD SAMPLE NUMBER:	MB3-01-60-61.5-1	MB3-01-99-01	MB3-62-0-1.5-03	3	883-61-6-1.5-83	# 17 T- 28
LAB SAMPLE NUMBER:	7117	G2115	02116		0 2116	67140
LOCATION:	10-CAN	MW3-01	EW3-62			
DEPTH (PT):	£-61.5	7.*	210-8		5.19-8	3
MATRIX	Tios	\$OIL	<b>\$0</b> if.	SOIL	<b>\$0ff.</b>	Š
DCE (PPB):	33	4.7 U	U 6.9	U 6.9 U	200	2
TCA (PPB):	710 U	7 08t	D 024	D 846	3340 U	2360
BENZENE (PPB):	5.8 U	3.9 U	7.5 U	7.9 U	011	7.5 U
TCE (PPB):	28.0	19 U	2 %	2 2	200 U	25.0
TOLUENE (PPB):	5.3 U	3.6 U	0.63	7.2 U	A 976	200
PCE (PPB):	43 U	n R	<i>57</i> U	28.0	7 <b>9</b> 1	2.21
ETHYLBENZENE (PPB):	4.3 U	2.9 U	0.9%	S.9 U	<b>n•</b>	7 2.0
TOTAL XYLENES (PPB):	n,	28.3	13 U	140	360	13.0
HEAVY HYDROCARBON:	ON	ON	ON	0	ON	2
LIGHT HYDROCARBON:	ON	Q	QX.	OX	CZ	Ş

NOTES
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			APPENDIX K			
		RESUL: SIT 16141 A	RESULTS OF SCREENING ANALYSES SITE 3 SOIL SAMPLES (cont.) 161st AREFG, PHOENIX, ARIZONA	SBS		
PIBLD SAMPLE NUMBER: LAB SAMPLE NUMBER: LOCATION: DEFTH (PT): MATRIX:	\$83-61-36-61 G 2128 \$183-61 \$6 \$011.	SB3-01-44-61 G 2121 SB3-01 44 SOIL	\$83-01-50-51.5-02 0 2122 \$83-01 \$0-51.5	983-01-63-01 0 2122 883-01 8011	10-6-10-68 0 2137 0 2137 0 2137 0 2137	100 200 200 200 200 200 200 200 200 200
DCE (PPB):	139	30 U	υæ	מ	74.0	S.7 U
TCA (PPB):	2100 U	1500 U	1200 U	1900 I	300 C	7.0 C
BENZENE (PPB):	08.9	S U	3.9 U	5.8 U	13 U	350
TCE (PPB):	130 U	D \$6	75 U	38	240 U	N C
TOLUENE (PPB):	6.2 U	4.6 U	3.6 U	17.7	2	3.5 U
PCE (PPB):	100 U	75 U	D 68	3.9 E	240	136 U
ETHYLBENZENE (PPB):	5.1 U	3.7 U	29 U	2E	9.3 U	3.5 U
TOTAL XYLENES (PPB):	12 U	3.4 E	6.8 U	6.1E	D 22	740
HEAVY HYDROCARBON:	ON	YES	ON	YES	YES	Q¥
LIGHT HYDROCARBON:	NO	ON	NO	NO	YES	OX.

NOTES

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			APPBNDXX K				
		1614	RESULTS OF SCREENING ANALYSES STB 3 SOE SAMPLES (com.) 161# ARBFG, PHOBNIX, ARIZONA	ANAL YBES (cont.) AR IZONA			
FREID KAUPT B MUNERER: LAB KALOT B MUNERA: LOCATION: DGFTH (PT): MATRID:	880-60-113-83 G 2134 883-60 16-113 SOIL	885-60-26-715-62 0.2137 863-60 26-115 80-115	200-00-14-01 0 213-0 200-00 14 200-00 100-00	801-6-10-60 0 1030 80-60 80-10-60 80-10-60			
DCE (PPB):	<b>N99</b>	2.5	N 6.8	610	26	17.0	28
TCA (PPB):	N 006	0.00 E	<b>∩ 88</b>	11 <b>0</b> U	D 0071	D 0002	200
BENZENE (PPB):	410	390	360	490	U 5.3	0.00	22
TCB (PPB):	240	438	348	<b>12</b>	110 U	210 U	£
TOLUENE (PPB):	410	7.	3.7 U	»c	0 %S	n n	22
PCB (PPB):	200 U	1960	3%	240 U	⊃ <b>8</b> 2	286	200
ETHYLBENZENE (PPB):	410	39.0	36 U	<b>167</b>	S.S.U	2	22
TOTAL XYLENES (PPB):	360	160	448	28.0	ΩΩ	<b>□</b>	22
HEAVY HYDROCARBON:	ON	9	£	£	£	¥	£
LIGHT HYDROCARBON:	9	Q	Q.	9	£	ş	YES

NOTES

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S = RESIDUAL SYSTEM (BLANK) CONTAMINATION
E = ESTIMATED VALUE OUTSIDE OF CALIBRATION LINEAR RANCE
A = ESTIMATED VALUE DUE TO CALIBRATION PROBLEM

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·							
			RESULTS OF SCREENING ANALYSES SITE 3 SOIL SAMPLES (cost.) 1611 AREFG, PHOENIX, ARIZONA	ING ANAL YSBS "LES (cost.) 'IX, ARIZONA			
FIBLD SAMPLE NUMBER: 583-1AB SAMPLE NUMBER: 0.1CCATION: 585	\$83-64-5-65-04 Q 2127 \$83-64	SB3-64-16-11.5-01 Q 2128 SB3-64	SB3-64-29-21.5-01 G 2129 SB3-64	583-64-35-36.5-01 G 2136 583-64	883-84-48-41.5-91 G 21.91 883-44	253-44-49-41 25 25 -49-41	813-44-65-46.40 0 3133
DBFTH (FT) 65- MATRIX: 54	801.	10-11.5 SOIL	20-213 801L	35-36. SOIL	# -41.5 \$OIL	Tios	\$6-45 \$01f.
DCE (PPB): 49	D 61	22 U	7 <b>%</b> U	38 U	47.0	0.10	3.7.0
TCA (PPB): 264	D 851	11 <b>60</b> U	1400 U	D 897	2408 U	11 @ U	D 800
BENZENE (PPB): 6.	8.3 U	3.8 U	4.4 U	15 U	7.9 U	4.9 U	4.7 U
TCE (PPB): 16	<b>199</b>	72 U	<b>94</b> U	290 U	15 <b>0</b> U	2	47.0
TOLUENE (PPB): 7.	0.9%	3.3 U	n.	140	089	20	4.8 U
PCE (PPB): 13	300	57 U	<b>13</b>	230 U	120 U	240 U	236 U
ETHYLBENZENE (PPB):	6.2 U	2.8∪	3.3 U	וות	S.9 U	167	1.85
TOTAL XYLENES (PPB):	140	6.5 U	7.6 U	26 U	140	20 U	9.0E
HEAVY HYDROCARBON:	NO NO	ON	NO.	ON	ON	NO	NO
LIGHT HYDROCARBON:	NO	ON	NO	NO	ON	0%	OX

NOTES
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		APPBNDIXK			
		RESULTS OF SCREENING ANALYSES SITE 5 SOIL SAMPLES	INAL YSBS BS		eri
		161st ARBFG, PHOBNIX, ARIZONA	IRIZONA		
FIELD SAMPLE NUMBER:	MBS-01-0-2-0	MBS-01-5-7-0	MBS-01-20-22-0 MBS-	MBS-01-25-27-01	
LOCATION:	MWS-01	MWS-01	MWS-01	KWS-01	
DBFTH (FT):	60-02	05-07	28-22	25-27	
MATRIX:	SOIL	NOT	2108	SOIL	
DCB (PPB):	114 U	114 U	114 U	114 U	
TCA (PPB):	1080 AU	1080 AU	1080 AU	1080 AU	
BENZENE (PPB):	U 7.01	10.7 U	10.7 U	10.7 U	
TCE (PPB):	U 8'99	U 8.99	U 8.39	U 8.99	
TOLUENE (PPB):	12 US	12 US	12 US	12 US	
PCE (PPB):	D 88	U 88	Ω 88	⊃ 88	
ETHYLBENZENE (PPB):	SU 7.6	9.7 U	9.7 U	9.7 U	
TOTAL XYLENES (PPB):	22.9 US	22.9 US	22.9 US	22.9 US	
HEAVY HYDROCAR BON:	ON	ON	ON	ON.	
LIGHT HYDROCARBON:	NO	ON	NO	ON	
				22	ı

NOTES U = NOT DETECTED AT CONCENTRATION GIVEN

S = RESIDUAL SYSTEM (BLANK) CONTAMINATION
E = ESTIMATED VALUE OUTSIDE OF CALIBRATION LINEAR RANGE
A = ESTIMATED VALUE DUE TO CALIBRATION PROBLEM

		APPENDIXK		
		RESULTS OF SCREENING ANALYSES SITE 5 SOIL SAMPLES (cost.) 161st AREFG, PHOBNIX, ARIZONA	LNAL YSES coat.) ARIZONA	
PIELD SAMPLE NUMBER:	MBS-01-45-47-01	MBS-01-55-57-01		MBS-01-75-77-02
LAB SAMPLE NUMBER:	G 2089	G 2090	G 2991	G 2092
LOCATION	MWS-01	MWS-01	MW5-61	
DRYH (FT):		<b>55-55</b>		75-77
MATRIX	TIOS	SOIL	SOIL SECTION AND ADDRESS OF THE SECTION ADDRESS OF THE SECTION ADDRESS OF THE SECTION ADDRESS OF THE SECTION ADDRESS OF THE SECTION ADDRESS OF THE SECTION ADDRESS OF THE SECTION ADDRESS OF THE SECTION ADDRESS OF THE SECTION ADDRESS OF THE SECTION ADDRESS OF THE SECTION ADDRESS OF THE SECTION ADDRESS OF THE SECTION ADDRESS OF THE SECTION ADDRESS OF THE SECTION ADDRESS OF THE SECTION ADDRESS OF THE	2108
, Canal	11711	114 U	114 U	114 U
TCA (PRB):	1080 AII	1080 AU	1080 AU	1080 AU
DENZENE (PPB):	10.7 U	10.7 U	10.7 U	10.7 U
TYPE (PPR):	D 8.99	U 8.99	U 8.99	U 8.99
TOLUENE (PPB):	12 US	12 US	12 US	12 US
PCE (PPB):	N 88	D 88	Ω 88	> 88
ETHYLBENZENE (PPB):	9.7 U	U 1.6	9.7 US	8.7 US
TOTAL XYLENES (PPB):	22.9 U	22.9 U	22.9 U	22.9 U
HEAVY HYDROCARBON:	ON	ON	ON	OX :
LIGHT HYDROCARBON:	NO	ON	ON	ON
Library Company				

NOTES

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A = ESTIMATED VALUE DUE TO CALIBRATION PROBLEM



DMG	PROJ. NO.: 408721	FIELD SAMPLE NUMBER: LAB SAMPLE NUMBER: LOCATION: DEP'IN (FT): MATRIE MATRIE MA	WV-PS3-1 G 2008 PS-03 75 WATER = 85 44 US 108 UA 4 U 2.01 E 4 US 5.24 U 4 U 4 US NO YES	FELD SAMPLE NUMBER LAB SAMPLE NUMBER LOCATION: DEPTH (FT): MATRIX: MATRIX: ME ME ME ME ME ME ME DCE (PPB): TCA (PPB): TCA (PPB): TCE (PPB): TCLUBE (PPB): PCE (PPB): ETHYLBENZENE (PPB): TOTAL XYLENES (PPB): HEAVY HYDROCARBONI LIGHT HYDROCARBONI LIGHT HYDROCARBONI	G 2085 MW202 75 WATER 2.15 E 108 AU 0.483 E 5.49 4.4 U 0.88 E	FIELD SAMPLE NUMBER:  LAB SAMPLE NUMBER:  LOCATION:  DEP'RH (FT):  MATRIX:  ===================================
3 DATE: 10/30/91 DATE LAST REV.: 03/25/92 DRAFT. CHCK. BY: G. PACHECO WITATOR: D. WILLEN	DRAWN BY: S. CAROWELL DRAWN BY: S. CAROWELL BACH. CHCK. BY: D. WILLEN PROJ. MOR.: D. WILLEN		NO	HEAVY INVOROCARBON LIGHT INVOROCARBON TOTAL AROMATICS (PM TOTAL HALOGENS (PM  MNS-02  MNS-02  MNS-02  MNS-04  STETNO 61	10.13 77.75 TANE 1-10 AWY - 0.2 ST PARRIED STEEL NO.	HEAVY HYDROCARBON: LIGHT HYDROCARBON: TOTAL AROMATICS (PPB): TOTAL HALOGENS (PPB):  STANDART PARISMS MEA
~	40872150 04/23/82 2-30pm STC (1) D	FIELD SAMPLE NUMBER: LAB SAMPLE NUMBER: LOCATION: DEPTH (FT): MATRIXE  DOE (PPB): TCA (PPB): TCA (PPB): TCE (PPB): TOLUBLE (PPB): TOLUBLE (PPB): TOTAL XTLDIES (PPB): TOTAL AROMATICS (PPB): TOTAL HALOGENS (PPB):	WV-MWS-04-01 G 2142 MWS-04 75 WATER 1.1E 118 E 17 6.3 E 4.6 46 U 4.9 8.3 NO YES 34.8 125.4	FIELD SAMPLE NUMBER: LAB SAMPLE NUMBER: LOCATION: DEPTH (FT): MATROX: DCE (PPB): TCA (PPB): TCA (PPB): TCE (PPB): TCE (PPB): TOLLIENE (PPB): PCE (PPB): ETHYLBENZENE (PPB): HEAVY HYDROCARBON: LIGHT HYDROCARBON: TOTAL AROMATICS (PPB): TOTAL HALOGENS (PPB):	WV-PS2-1 WV-PS2-2 G 2009 G 2078 PS-02 PS-02 75 75 WATER WATER  6.44 US 13.1 106 UA 108 AU 541 311 5.72 U 5.72 U 7.25 4 US 5.24 U 5.24 U 507 45.4 4 U 2.05 E YES NO YES YES 1065.25 358.45 ND 13.1	FIELD SAMPLE NUMBER: LAB SAMPLE NUMBER: LOCATION: DEPTH (FT): MATRO: TEXT TO THE TEXT TO T



D SAMPLE NUMBER: SAMPLE NUMBER: ATION: TH (FT): RD2:	WV-MWI-02-01 G 2084 MWI-02 75 WATER	FELD SAMPLE NUMBER: LAB SAMPLE NUMBER: LOCATION: DEPTH (FT): MATROS:	WV-MWS-01-01 e 2007 MWS-01 75 WATER	FIELD SAMPLE NUMBER: LAB SAMPLE NUMBER: LOCATION: DEPTH (FT): MATRIX:	WV-PS1-1 G 2000 PS-01 75 WATER
(PPB): (P	1.74 E 108 AU 0.42 ES 0.00 E 1.44 E 5.24 U 40 U 40 U NO YES	DOE (PP8): TCA (PP8): BDXZDIE (PP9): TOE (PP8): TOLUENE (PP8): POE (PP8): ETHYLERIZENE (PP8): HEAVY HYDROCAMBON: LIGHT HYDROCAMBON:	1.35 E 108 UA 0.406 3.38 1.91 E 4.4 U 1.94 U 0.909 E NO YES	DCE (PPB): TCA (PPB): TCA (PPB): TCE (PPB): TCE (PPB): PCE (PPB): PCE (PPB): TOTAL XYLENES (PPB): HEAVY HYDROCARBON: UGHT HYDROCARBON:	5.72 U 108 AU 4 US 5.72 U 4 US 5.24 U 4 U 4 US NO NO
AL ARCMATICS (PPB): AL HALOGENS (PPB):	1.86 2.63	TOTAL ARGMATICS (PPB): TOTAL HALOGENS (PPB):	3.225 4.73	TOTAL AROMATICS (PP8): TOTAL HALOGENS (PP8):	ND ND
		PS-01	LAS SAMPL LOCATIONS DEPTH (FT) MATRIX DCE (PPS): TCA (PPS): SENZENE (F TCE (PPS): TOLUEDE (PPS):	MNS-01 : 75 WATER 5.72 US 106 AU PPB): 4 U 5.72 U PPB): 4 U 5.72 U	G 2000 MWS01 75 WATER 5.72 U 100 AU 4 U 0.05 E 5
ARCOLUT PARRIE FEL	MWS-01		ETHYLBENÍZI TOTAL XYLE HEAVY HYD LIGHT HYDR	DNES (PPB): 4 U ROCARBON: NO	4 U 4 US NO YES
			TOTAL ARCI	MATICS (PPB): ND DOENS (PPB): NO	5 0.65
	SITE NO. 5			ID — DATA QUALIFI TO COMPOUND SPECIFIC CALIBRATIO	
-02	FIELD SAMPLE NUMBER: LAB SAMPLE NUMBER: LOCATION:	WV-MWS-02-01 G 2006 MWS-02	is es	TIMATED  OUND DETECTED EITHER ABOVE OR	
	DEPTH (FT): MATRIX: THE PERTY PROPERTY	75 WATER :	U- NONE	REPORTED RESULTS ARE ESTIMATE DETECTED, VALUE REPORTED IS LC	· ·
	TCA (PPS):  SENZENE (PPS):  TCE (PPS):  TOLLÈNE (PPS):  PCE (PPS):  ETHYLBENZENE (PPS):  TOTAL XYLENES (PPS):  HEAVY HYDROCARSON: LIGHT HYDROCARSON:	112 A 15.7 9.96 3.1 4.4 U 0.81 E 3.86 NO YES		OUND DETECTED BELOW DETECTION YSTEM CONTAMINATION	LIMIT AS A RESULT
	TOTAL AROMATICS (PPB):				
AMPLE NUMBER: MPLE NUMBER: N: -	WV-MWS-03-01 WV-MWS-03 WWS-03 MWS-03	-03-02		<b>-</b> 12 4	
m: :=======		==	FIGURI SUMM	E K-1 ARY OF FIELD SCRE	ENING
0): 0): 0): 0): (PP8): 8): NZENE (PP8): MENES (PP8):	2.7 E 5.72 U 108 U 108 AU 4 U 4 U 3.44 E 9.75 4 U 3.11 U 5.24 U 5.24 U 4 U 4 US 4 U 4 US		WATEF 161 AR SKY HA	R ANALYSIS REFG, ARIZONA ANG ARBOR IAP IX, ARIZONA	
IYOROCARBON: YOROCARBON: YOMATICS (PPB): 14' "22NS (PPB):	NO NO YES YES NO 3.11 6.14 9.75		Ш	INTERNATIONAL TECHNOLOGY CORPORATION	į

## APPENDIX L TABULATION OF SOIL ANALYTICAL RESULTS

			A 161	APPEN EBULTS OF V AREFG SITE	DAS IN SOIL WYESTRATION			
				PHOBIEX AREON	\$			
Sample Number:		MBS-01-0-2-01	MBS-01-60-62-01	MBS-02-0-2-01	MBS-07-5-7-01	MBS-02-10-12-01	MBS-03-0-2-01	MBS-03-5-7-01
Sample Date:		19-may-62	20-10-02 10-03	31-Jan-91	31-Jan-91	31-Jan-91	90-18n-90	20-fed-00
Lab Mumber		C101318-01A	C101318-044	C102088-014	C102008-03A	C102008-07A	Š	C101328-034
Aralysis Date:		07-Feb-91		06-Feb-91	06-Feb-91	06-Feb-91	07-Feb-91	07-Feb-91
Units:		oy/kg	ug/Kg	ug/Kg	6 <b>%</b> /60	g//gu	ey/kg	Ø⁄⁄@n
COMPOUND	CASE							
NAME	NUMBER							
1,1,1-Trichloroethane	71-55-6	200	<b>D</b> \$	9€	<b>3</b>	<b>3</b>		<b>5</b>
1,1,2,2—Tetrachiproetherne	79-34-5	<b>⊃</b> :	<b>3</b>		<b>3</b>	<b>3</b>	2	<b>3</b>
1.1.2—Trichloroethame	2-00-2	<b>⊃</b> :	<b>.</b>		<b>)</b>	<b>.</b>		<b>3</b>
1,1 ~ Dichloroemane	20-02-02 0-120-02	2	9	) ()			) (	) (a)
1,1-Dichionethene	13-35-65 15-	) i	0	) (			) ()	) (
1,2-Uchioodumine	70/-09-2	ה ב ה	) = 1	2 2	) = (		2 =	) ()
1,2 - Dich formannen	240-34-0 78-87-5	ב ה	) = n w	)   	) = 0 v		2	) 
2-Patencon	78-67-3	S =	2	2 5		200	2.5	7
2-Hearone	591-78-6	3	3	. ÷	5 5		) ====================================	) ]
4-Methyl-2-pentanone	106-10-1	10.2	21	20	5	120	2=	2.5
Acetone	67-64-1	<b>11</b> C	10 U	<b>5</b>	10 U	70	2 = 0	100
Benzene	71-43-2	20	20	20	20	20	26	28
Bromodichloromethene	75-27-4	⊃:	2	<b>2</b>	<b>⊋</b> :	<b>&gt;</b>	<b>3</b>	2 80
Bromoform	75-25-2	⊋;	کر د د	) S	⊋;	<b>3</b>	⊃ ; 20 ;	) (8)
Bromomethane	74-83-9	3 :	3:	⊋: •		3:	<b>-</b>	); ;
Carbon disustroe	0-61-67 8-66-87	) : 	2 =	2 2	2 2	2 5	) = 0	2
Chloriberzene	108-90-7	) T	) I	2 2		) = •	2 2	) =   
Chloroethane	75-00-3	) <del> </del>	) <del>-</del>	. ot		120	2.5	) [
Chloroform	67-66-3	90	30	2.0	20	<b>3</b>	20	28
Chlorometrane	74-87-3	•	3	<b>5</b>	5 5	12 W	2	3.E
cis-1,3-Dichloropropene	10061015		2	<b>3</b>		) •	<b>3</b>	<b>D</b>
Obromochioromethane	124-48-1	2:	) (		<b>-</b>	<b>&gt;</b> :	) ()	<b>3</b> ;
CITYDOTZON	100-41-4	) 1	) (	) (	) (	2;	) ()	) (
Shipper Cracking	100-00-5	2 2	2 2	2 =	5 =	2 =	2 2	) = 9 4
Tehnolytonethern	127-18-4	2	) : :	) = (	) = ) k	=	) = •	) = 0 e
Tokene	108-48-3		2	) ()	? -	) <b>-</b>	) is	) i
trains - 1.3 - Dichloropropens	10061-02-6		28	200	) (a)	) <b>(</b>	200	) ) (a
Trichloroethene	79-01-6	20	20	<b>5</b>	) 8	<b>7</b>	26	26
Vinyl Acetate	108-05-4	110	110	10 C	10 U	120	2	3 5
Vinyl chloride	75-01-4	_	) 	<b>10</b> €	<b>5</b>	12.0	2 T	2
Total xylenes	1330-20-7	2000	3 C	5 U	S U	7 9 000	5 U	200
		2000	2000	400000	2000000	0 0001	mac)	20000
								SOLVE OF

U = Compound not detected
J = Estimated value
E = Estimated concentration above calibration range
R = Result rejected in validation

Sample Date: Matrix: Lab Number:		***						
Matrix: Lab Number:		04 - Feb - 91	21-Jan-91	21 - Jan - 91	21 - Jan 91	21-Jan-91	22-Jen-91	2-1-2
Lab Number:		<b>3</b> 01	SOIL	SOF	SOIL	SOF	<b>308</b>	TOS.
		C102058-01A	C101211-05A	C101211-14A	C101211-06A	C101211-07A	C101215-01A	C101215-02A
Aralysis Date: Units:		12-Feb-91	26 - Jan 91	25-Jan-91	25-Jan-91	26 - Jan - 91	26-Jan-91	28-Jan - 01
		Name of the last	NAME OF THE PERSON OF THE PERS	n de la composition	ngweg	UQVE	BWBn	3
COMPOUND	CASE							
NAME	NUMBER							
1,1,1-Trichloroethane	71-55-6	26	200	3	25	28	-	===
1,1,2,2 - Tetrachloroethane	79-34-5	200	) S	) S	) is	) is		
1,1,2 - Trichtoroethane	79-00-5		200	200	) I		) = •	
1,1-Dichtbroethene	75-34-3		200	) is	) is	)	) <del>-</del>	
1,1-Dichloroethene	75-35-4	2	200	) S	) is	) is		2
1,2-Dichloroethane	107 - 06 2	20	20	) S			) E	
1,2-Dichloroethylene	540-59-0	20	200	) sq	200	3	) = •	
1,2 - Dichloropropane	78-67-5	26	) s	) SC	750	2 6		
2-Butanone	78-63-3	210	10.1	200		1101		
2-Hexanone	791-78-6	=	2 -	. ot	200	200	13 (1	
4 - Methyl - 2 - pentanone	108-10-1		7	200	=======================================	) <del>-</del>	=======================================	2 5
	67-64-1		12.0	, ; ;	2 5	25	2 ;	2 :
Benzene	71-43-2	) =	, c	=	) = : :	2	2 •	2 :
Bromodichiomethene	75-27-4		) = 	) :	ב ה	) = 0	) : • •	
Romoform	75-26-2	) <u>-</u>	) = V	) = •	) <del>-</del>		9 (	
Smooth affects	2-03-07		7 :	) (	) (	) (	) 	)   
	20 11 11	) ; : '	) -	2:	2:	2	3	120
Carbon datumos	0-61-67	<b>⊋</b> :	) (	) 2	⊃ : 20	) (	<b>5</b>	<b>3</b>
Carbon legacinoride	20-53-20	) (	) (	⊃: :	25	20	<b>&gt;</b>	2
Chlorobenzene	108-80-7	⊃ ; œ ;	) (8)	0	20	20	<b>3</b>	<b>3</b>
Chloroethane	75-00-3	- - -	- - -	<b>10</b> C	5 5	10 C	13 U	120
Chloroform	67-66-3	⊃:	200	<b>2</b>	<b>&gt;</b>	25	<b>)</b>	<b>3</b>
Chloromethane	74-87-3	-	3=	J 61	10 C	305	13 UJ	<b>₩</b>
cls - 1,3 - Dichloropropene	1006101-	<b>ب</b>	20	ه ک	2€	26	20	<b>3</b>
Olbromochloromethane	124-48-1	2	S	3C	20	<b>D</b> \$6	20	9
Ethylbenzene	100-41-4	20	⊃ <b>s</b>	<b>3</b> 0	26	26	> <b>*</b>	2
Methylene chloride	75-09-2	<b>2</b>	⊃ <b>•</b>	⊃ <b>6</b>	13 U	26	<b>3</b>	
Styrene	100-42-5	<b>9</b>	<u>ئ</u>	26	20	200	- <b>.</b>	2
Tetrachlorethene	127-18-4	20	20	75	20	28	) <b>(</b>	2
Toluene	108-88-3		20	20	20	<b>)</b>	) (0)	9
trains - 1,3 - Dichloropropene	10061-02-		25	76	20	200	) (4)	3
Trichloroethene	79-01-6	25	200	20	200	26	) <b>(</b>	3
Virryl Acetate	108-05-4	310	- - -	100	5 5	10t	261	120
Viryl chloride	75-01-4	110	110	101	101	=======================================	7	
Total xylenes	1330-20-7		) O	) Y	2 50	5 K	2 =	2 =
ТРН		200	10000 U	100001	1000L	100001	100001	11 00001

APPENIXX L RESULTS OF VOAS IN SOIL 161 ARETG SITE INVESTIGATION PHOENIX ARZONA

	- 296	SB2-0-10-29S	SB2-01-55-57-01	562-02-0-2-01	SB2-02-10-12-01	\$82-02-10-12-01	882-04-0-2-01	882-04-15-17
Samole Date:	762	18-nd85	29-Jan-91	18-u <b>d</b> i-22	20-in-91	22	20-Jan-01	20tan-91
Market.		100			5	3	2	<b>3</b>
		7100	3100	100	100	100		
An half Deter	7013 3-70	C101317 01A	07.5eb-04	28-150-04A	C101213-064	26-167-904	C101213-11A	C101213-634
Units:	5	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ng/Kg	by/6n	5%6n
COMPOUND	CAS							
NAME	NUMBER							
1,1,1-Trichloroethane	71-55-6	20	30	<b>⊋</b>	26	<b>3</b>	<b>&gt;</b>	⊃9
1,1,2,2 - Tetrachloroethane	79-34-5	20	20	20	20	<b>5</b>	<b>7</b>	⊃ <b>s</b>
1.1.2 - Trichloroethane	29-00-5	<b>D</b>	3.0	> <b>6</b>	26	<b>5</b>	<b>9</b>	2
1.1 - Dichloroethane	75-34-3	æ	26	26	200	2	3	
1.1 - Dichloroethene	75-36-4	20	20	) <b>(</b>	) S	<b>.</b> •	· •	20
1.2-Dichloroethana	107-06-2	25	- S	7	- S		- 3	35
1.2-Dichloroethylene	540-56-0	25.	) S		) IS			3 26
1 2 - Dichhonononana	78-87-5	2		=		2		
2-Ruthnone	78-93-3	110	110	12151	FD #	; <del>-</del>	7	<b>\$</b>
2-Heramone	501-78-6	± = = = = = = = = = = = = = = = = = = =	. =	100	2 = =	2 = =	105	2
4 - Mathyd - 9 - neothernone	408-40-4	=======================================	4111	12.5			=======================================	=======================================
	R7 - R4 - 1	) = = =	7	2 5	5 5	; <b>;</b>	÷ ;	2 5
Particular Particular	77	2 =	2 = 4	2 •	2	2	2 3	2 2
	7-24-17		) 	) 6	) :   	9	9 (	) : 
Bromodianioromemene	12-C/	) (	) (	יש פי	2	) 9	)   	2
Bromoform	75-25-2	) Se	⊃ : •	<b>.</b>	) (8)	) •	9	3
Bromomethane	74-83-9	- - -	3:	120	=======================================	⊃: =	) =	2
Carbon disuffide	75-15-0	2	⊃ : oo	<b>7</b>	၁၀	<b>)</b>	) 9	2
Carbon Tetrachloride	26-23-5	EC 1	) (	<b>5</b>	ာ ဗ	ے •	<b>&gt;</b>	26
Chlorobenzene	108-80-7	⊃ ;	<u>ئ</u>	) (	) (	<b>3</b>	) •	26
Chloroethane	75-00-3	=======================================	3:	45 O	2	2 =	<b>=</b>	<b>5</b>
Chicadorm	67-06-3	⊋ ;	٦ : و	<b>3</b>	<b>ာ</b>	ے •	<b>2</b>	26
Chloromethane	74-87-3	=======================================	<b>&gt;</b>	12 07	50 =	3 =	3 =	<b>5</b>
cis -1,3-Dichloropropene	10061-01-	<u>.</u> د	٠ م	2	٦: •	<b>3</b>	<b>9</b>	<b>7</b>
Dibromochloromethane	124-48-1	2	25	2	D (	<b>3</b>	) •	2
Ethylbenzene	100-41-4	2	0.6	⊃ <b>•</b>	3.0	ے •	<b>5</b>	2
Methylene chloride	75-09-2	<b>7</b>	16 U	200	<b>၁</b>	) G	<b>9</b>	2
Skyrene	100-42-5	2	3 C	<b>&gt;</b>	<b>2</b>	<b>)</b>	<b>&gt;</b>	26
Tetrachlorethene	127-18-4	5 5	<b>⊃</b> s	⊃ •	<b>D</b>	<b>5</b>	<b>)</b>	<b>7</b>
Toluene	106-86-3	2	<b>7</b>	26	<b>3</b>	<b>⊃</b>	<b>5</b>	⊋
trans 1,3 - Dichloropropens	10061-02-	2	200	<b>)</b>	) S	<b>5</b>	<b>5</b>	28
Trichtoroethene	20-01-6	20	) (	<b>0</b>	O 1	٦ •	) •	26
Vinyl Acetate	108-05-4	<b>=</b>	- - -	120	= = =	- - -	- -	20
Vinyl chloride	75-01-4	<b>1</b> 0		120	- - -	25	<b>&gt;</b>	<b>\$</b>
Total xylenes	1330-20-7	20	<u>ی</u>	<b>2</b>	26	<b>)</b>	<b>&gt;</b>	<b>7</b>
<b>1</b>		210000	_ 0000±	10000 U		10000 U	10000	10000

COMPOUND   CASE	Sample Number:		\$83-01-0-11/2-01	SB3-01-50-51 1/2	\$83-01-50-51 1/2-01\$83-01-70-71 1/2-	-01883-03-0-11/2-01	883-03-10-11 1/2	2-01883-03-20-211/	2-01863-01-0-118-61
Date:	Matrix:					108			
Colificaçione   Colificaçion	ab Number:		C103220-03A	C103220-04A	C103220-11A	C103220-07A	C103220-06A	C100220-08A	C103228-05A
NAMER   NAME	Analysis Date: Units:		26-Mar-91 ug/Kg	26-Mar-91 ug/Kg	27 – Mar – 91 ug/Kg	27-Mer-91 ug/Kg	27-Mer-91 ug/Kg	28-Mer-91 ug/Kg	26-Mer-91
WARRIE NAMER         NAMBER NAMER         NAMBER NAMER         NAMBER NAMER         NAMBER NAMER         SU 50 50 50 50 50 50 50 50 50 50 50 50 50	COMPOUND	CASE							
Treatest-bronoutharms 71–55-6 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U	NAME	NUMBE	œ						
Transcription of the control of the	1,1,1-Trichloroethane	71-55-6		2€	<b>⊃</b> \$	26	20	<b>3</b> 6	36
Companion   Comp	1,1,2,2—Tetrachloroethane	79-34-5		26	<b>7</b> 9	26	26	26	26
National Control Con	1,1,2-Trichloroethane	79-00-5		20	) S	) ()	26	26	36
100-645-64-   5-15-5	1.1 - Dichloroethans	75-34-3			⊃ sc	) SC	25	· 9	200
Monocontinuis         107-106-2         5 R         5 U	1.1-Dichloroethere	75-35-4	10		75	300	35	3	
incrocality in the control of the co	2-Dichhonethene	10.7-04			) <u>-</u>	) <del>-</del>	=		
National Coloration	12-Dichemethylene	9			) = 		) = v	) = •	
The control of the		79 - 07		3		)		) = 1	
Colorado	B. Charles Consultation		•	9	7	9 4	9 5	9	
Total Contro		20101	) 	2	E :	E :		2	2
The continuous   The color	- Hezarrone	- 100 - 100 - 100		2 :	) ; ;	7	) 		<b>9</b>
Off-Cat-1         11 Umaps         45 Umaps         40 Umaps         5 Umaps         11 Umaps	-Methyl-2-pentanone	108-10		200	21	2	2	200	2
### State	voetone	67-64-1		\$2€	<b>3</b> 9	36	3=	200	3 2
Chilocomethina         75–27–4         5 U	Senzene	71-43-2		26	26	၁	<b>3</b>	٦ ١	28
mm         75–25–2         5 U<	<b>Promodichipromethene</b>	75-27-4		<b>⊃</b> ¢	26	<b>3</b>	⊃ <b>s</b>	26	29
Machine         74–83–9         11 U         11 U         11 U         10 U	Bromoform	75-25-2		<b>⊃</b>	26	26	<b>2</b>	26	<b>3</b>
distulticle         75–15–0         5 U	Bromomethane	74-83-8	•	<b>₽</b>	<b>&gt;</b> ‡	±	2	5 5	\$ >
Section (a)         Section (b)         Section (c)	Sarbon disulfide	75-15-0		OS.	<b>3</b> 0	20	⊃ <b>s</b>	⊃ <b>s</b>	<b>76</b>
rizzene         106-90-7         5U	Carbon Tetrachioride	56-23-5		200	26	) S	26	26	<b>&gt;</b> 9
Name         75-00-3         11 U         10 U         11 U         10 U         10 U         40 U	Chlarobenzene	108-90-	2	20	⊃¢	20	<b>&gt;</b>	26	•
mm         67-66-3         5U         5U <t< td=""><td>Chloroethane</td><td>75-00-3</td><td>_</td><td><b>10</b> €</td><td>31</td><td>- T</td><td>3 = 0</td><td><b>10</b> C</td><td>2</td></t<>	Chloroethane	75-00-3	_	<b>10</b> €	31	- T	3 = 0	<b>10</b> C	2
Obstitution         74–87–3         11 UJ         11 UJ         10 UJ         10 UJ         10 UJ         10 UJ         10 UJ         10 UJ         10 UJ         10 UJ         10 UJ         10 UJ         10 UJ         10 UJ         10 UJ         10 UJ         10 UJ         10 UJ         10 UJ         10 UJ         5 U         <	Chloroform	67-66-3		26	<b>)</b>	20	20	<b>D</b>	79
-Dichloropropene 10061-01- 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U	Chloromethane	74-87-3	•	\$ 3	15	35	<b>∓</b>	30	32
chloromethane         124-48-1         5U         5U <td>cis-1,3-Dichloropropene</td> <td>10081-0</td> <td></td> <td>20</td> <td><b>⊃</b>s</td> <td>20</td> <td><b>⊃</b>\$</td> <td>26</td> <td><b>3</b></td>	cis-1,3-Dichloropropene	10081-0		20	<b>⊃</b> s	20	<b>⊃</b> \$	26	<b>3</b>
100-41-4         5U         16         5U         740000	Dibromochioromethane	124-48-		2€	<b>D</b> \$	26	26	<b>7</b> 6	76
te chloride         75–08–2         5 UJ	Ethytbenzene	100-41-		>0	5	<b>7</b> 5	26	26	26
100-42-5         5U         <	Methylene chloride	75-09-2		36	202	36	35	38 C	30
127-18-4         5U         <	Styrene	100-42-		26	<b>D</b> \$	26	28		26
106-88-3 2 J 5 U 21 5 U 2 J 5 U 2 J 5 U 106-88-3 2 J 5 U 2 J 5	Tetrachiorethene	127-18-		2€	26	<b>D</b>	20		26
Noropropers         10061-02-         5R         5U         10U         11U         10U         14QQ         14QQ         14QQQ         14QQQ         14QQQ         14QQQ         14QQQ	Toluene	108-88-		20	2		2	<b>⊃</b> 8	76
79-01-6 5U 5U 5U 5U 5U 5U 5U 5U 60-05-4 11R 10U 11U 11U 10U 10U 75-01-4 11U 10U 10U 11U 11U 10U 10U 1330-20-7 5U 5U 150 5U 5U 5U 14000	trams-1,3-Dichloropropens	10061-02		20	08	280	<b>⊃</b> \$	26	26
Acetate	Trichtoroethene	79-01-6		26	28	26	26	200	76
l chloride 75–01–4 11 U 10 U 11 U 11 U 11 U 10 U 10 U 11 U 11	Viryl Acetate	108-05	=	<b>→</b>	2	- T	=	201	, <b>5</b>
1330–20–7 5 U 150 5 U 2 J 5 U 14000 30000 10000 U 10000 U 46000 50000 10000 U 14000	Viry chloride	75-01-4		10 C	2 =	2 T	=	201	2
30000 10000 U 10000 U 46000 50000 1	Total xylense	1330-20		20	150	26	<b>5</b>	200	26
	<b>15</b> H		30000		10000 U	46000	2000	J00001	140000

## APPENDIX L RESULTS OF VOAS IN SOIL 161 AREFG SITE INVESTIGATION PHOENIX ARIZONA

Second Minney				3	5	3	3	
	•	5 6		10 P. 10 P.	70 5.4			
WEIGHT CHICE:	2	13-160-21	13-00L-21	13-00L(21	13-1-B1-B1	12-081-21	18-081-PL	16-10A-81
Matrbc		<b>교</b>	SOF	SOL	SOF	<b>80</b>	<b>₩</b>	<b>5</b>
Lab Number:	5	C102192-01C	C102192-02C	C102192-03C	C102192-04C	C102192-05C	C102182-08C	683500
Analysis Date:	8	22-Feb-91	22-Feb-91	22-Feb-91	22-Feb-91	22-Feb-91	22-Feb-91	25-Apr-01
Units:		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
CMINON	SAS.							
NAME	NUMBER							
1,1,1-Trichloroethane	71-55-6	20	20	20	20	20	20	20
1,1,2,2—Tetrachloroethane	20-25-02	20	20	20	26	26	<b>D</b> \$	26
1,1,2-Trichloroethane	79-00-5	20	20	⊃s:	<b>3</b>	26	20	20
1,1 - Dichloroethane	75-34-3	20	26	<b>7</b> 9		20	26	20
1,1 - Dichloroethene	75-35-4	20	20	26	200	26	26	26
1,2-Dichloroethane	107-06-2	20	26	26	<b>3</b>	28	20	) 19
1,2-Dichiproethylene	540-59-0	20	26	28		28	3	200
1.2 - Dichloropropane	78-87-5	3 C	26	) (1)	) s	26	<b>5</b>	20
2-Butanone	78-83-3	=======================================	2	2.1	2	1.	10 R	2
2-Hexanone	591-78-6	=======================================	3 <del>L</del>	25	1.8	1.8	10 A	2 = 2
4-Methyl-2-pentanone	106-10-1	25	3.5	3.5	25	2.5		2.5
Acetone	67-64-1	±	3	15	=======================================	10 CJ	<b>4</b> 04	2 = 0
Benzene	71-43-2	20	90	28	28	28	26	28
Bromodichloromethene	75-27-4	20		OS.	⊃ <b>s</b>	26		26
Bromoform	75-25-2	20	OS	20	26	<b>၁</b> 6	⊃ <b>s</b>	3°
Bromomethane	74-63-9	3 C	25	25	2	25	3 ot	30:
Carbon disuffide	75-15-0	20		26	28	<b>D</b>	⊃ <b>s</b> o	<b>3</b>
Carbon Tetrachloride	56-23-5	3 2		) s	26	26	<b>3</b>	3.
Chlorobenzene	108-90-7	20		3. C	26	ک ماد	<u>ی</u>	20
Chloroethane	75-00-3	- -		25	<b>=</b>	<b>=</b>	<b>5</b>	2 5
Chloroform	67-66-3	2	2€	<b>3</b>	26	26	<b>၁</b> %	26
Chloromethane	74-87-3	<b>-</b>	- - -	<b>=</b>		<b>=</b>	<b>\$</b>	> =
cis 1,3 - Dichloropropene	10061-01-	<b>3</b>	<b>3</b> 0	<b>D</b>	<b>3</b>	28	28	20
Olbromochloromethane	124-48-1	<b>2</b>		⊃s	26	28	26	<b>3</b>
Ethylbenzene	100-41-4	<b>2</b> €	20	<b>⊃</b> \$0	<b>D</b> \$	200	<b>D</b> 80	<b>3</b> 6
Methylene chloride	75-09-2	3 C	<b>D</b> S	⊃ <b>•</b>	⊃ <b>•</b>	7.	<b>5</b>	<b>3</b>
Skyrene	100-42-5	20	<b>D</b>	3 to	⊃ <b>s</b>	20	⊃ <b>s</b> c	<b>3</b> 6
Tetrachiorethene	127-18-4	<b>2</b>	<b>3</b> 0	<b>D</b>	⊃ <b>s</b>	26	<b>5</b>	<b>D</b>
Toluene	108-88-3	35 C	<b>⊃</b> \$	26	<b>D</b>	28	•	<b>D</b>
trans - 1,3 - Dichloropropene	10061-02-	ec so	20	S.C.	er so	Œ so	ec so	<b>3</b> 0
Trichioroethene	79-01-6	S	30	26	<b>D</b>	26	<b>⊃</b> \$6	<b>3</b>
Vinyl Acetate	108-05-4	1 0 1	110	35	<b>1</b>	<b>=</b>	<b>3</b> 0€	2 5
Virry chloride	75-01-4	=	<b>=</b>	2	<b>1</b>		<b>5</b>	<b>3</b> =
Total xylenes	1330-20-7	20	⊃ 8	) Se	20	26	26	26
T <u>al</u>		-						

U = Compound not detected
J = Estimated value
E = Estimated concentration above calibration range
R = Result rejected in validation

APPENDIX L	RESULTS OF YOAS IN SOIL	161 AREFG SITE INVESTIGATION	PHOEMX, ARIZOMA
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Same Market		AND 00 1881	A 500 000	MIDE AL O O AL	100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	10 CF CF 10 3010
		VID-30-148-06	410-11-100 10-11-100	10-2-0-10-59M	19-/-9-10-99M	0-2/-0/-10-00
Semple Use:		16-Apr-91	16-Apr-91	07 - Feb - 91	07 - Feb - 91	07 - Feb - 91
Materior:			HOS	<b>205</b>	SOE.	
Lab Number:		883501	883504	C102106-01A	C102106-02A	C10210803A
Analysis Date:		25-Apr-91	25-Apr-91	16 - Feb - 91	16 - Feb 91	16-Feb-91
Units:		ug/Kg	ug/Kg	ng/Kg	ug/Kg	ug/Kg
COMPOUND	CAS					
NAME	NUMBER					
1.1.1 - Trichloroethene	71-55-6	26	<u>ت</u>	œ	<b>C</b>	C I
1.1.2.2—Tetrachloroethana	79-34-5	2 20		: c:	: æ	: a:
1 1 2 - Trichlomathens	70-8-8	) ¥	) = V		:=	==
1 1 Dichlomethene	78-36-3	) = ) 4				2
4 4 - Mahilanashana	7 10 10 10 10 10 10 10 10 10 10 10 10 10	2				
	# 100 FOT	2			) :   	) (
1,2 - Unchronoemene	2-90-701	) (		) 	<b>3</b>	) (a)
1,2 - Dichloroethylene	540-59-0	) (a)		) 9	20	⊃ e
1,2 - Dichloropropene	78-87-5	<b>3</b> 0	2	⊃ •	<b>3</b> 6	<b>9</b>
2 - Butanone	78-83-3	10 C	J 0	<b>-</b>	J 01	<b>10</b> C
2 - Hexanone	591-76-6	<b>5</b>	10 U	22	<b>J</b> 0	10 t
4 - Methyl - 2 - pentanone	108-10-1	10 C	<b>10</b> C	<b>3</b>	10 C	<b>5</b>
Acetone	67-64-1	5 5	5 5	107	<b>.</b>	<b>⊅</b>
Benzene	71-43-2	<b>)</b>	<b>၁</b>	<b>3</b>	28	20
Bromodichloromethane	75-27-4	26	<b>D</b> 60	Œ	E so	ec so
Bromoform	75-25-2	3.5	3	<b>3</b>	<b>3</b>	<b>D</b> 80
Bromomethane	74-83-9	30	<b>5</b> 3	35	5 5	<b>₽</b>
Carbon disulfide	75-15-0	) s	<u>ې</u>	<b>3</b>	<u>ی</u>	26
Carbon Tetrachloride	Se-23-5	3	3.	æ	Œ 10	ec vo
Chlorobenzene	108-90-7	<b>⊃</b> \$	<u>ی</u>	> •	) (	26
Chloroethane	75-00-3	5 5	5 5		5 5	10 C
Chloroform	67-66-3	26	<b>၁</b> ဖ	<b>၁</b>	20	20
Chloromethane	74-67-3	5 5	5 5	3.C	<b>J</b> 6	J 0 L
cis - 1,3 - Dichloropropene	10061-01-5	ڪ جو	20	<b>&gt;</b>	⊃ <b>9</b>	<b>၁</b> s
Dibromochioromethane	124-48-1	⊃ s		<b>&gt;</b>	<u>ی</u>	29
Ethytbenzene	100-41-4	<u>ي</u> د	<u>ي</u>	⊃ •	26	<b>D</b> 9
Methylene chloride	75-09-2	<b>)</b> 8	<b>⊃</b> \$	<b>3</b>	<b>3</b> C	<b>5</b>
Styrene	100-42-5	<b>&gt;</b> 8	<b>3</b>	<b>5</b>	<b>၁</b> %	<b>5</b>
Tetrachiorethene	127-18-4	26	20	<b>3</b>	26	20
Toluene	108-86-3	26	20	30	26	26
trans - 1,3 - Dichloropropene	10061-02-6	26	⊃ <b>s</b>	<b>5</b>	20	20
Trichloroethene	79-01-6	<b>&gt;</b> \$	<b>D</b> 80	<b>&gt;</b>	26	26
Vinyl Acetate	108-05-4	<b>5</b>	<b>5</b>	35	10 C	<b>J</b> 0 C
Vinyl chloride	75-01-4	J 01	5 5	310	<b>16</b> U	5 5
Total xylenes	1330-20-7	<b>7</b> 9	<b>D</b> 6	⊃ <b>•</b>	26	= 4
					))	>

I = Compound not detected

<sup>1 -</sup> Estimated vehice

E = Estimated concentration above calibration n

<sup>2 -</sup> Beer & released in velidation

Misself Number:   Misself Hard St.   21-Mar-81   Misself Hard St.   22-Mar-81   Misself Hard St.   22-Mar-81   Misself Hard St.   22-Mar-81   Misself Hard St.   Mi					API RESULTS C 161 AREFG S PHOEI	APPENDIX L RESULTS OF VOAS IN SOIL 1 AREFG SITE INVESTIGATION PHOENIX, ARIZONA			
MANTE TOTAL MARTER         CAS         SUPPLIANCE         SUPPLI	Sample Number: Sample Date: Matric: Andysis Date:	S S S S S S S S S S S S S S S S S S S	38-04-0-2-01 - Mar-91 SOIL 03195-01A - Mar-91	MBS-04-15-16 1 21-Mar-91 80IL C103195-02A 23-Mar-91	72-04/85-04-99-01 21-Mer-81 80/L C103185-04A 23-Mer-91	8C-P81-1 22-Mar-91 8OIL C103213-01A 26-Mar-91	9C-PS2-1 22-Mar-91 8OIL C103213-02A 26-Mar-91	8C-P83-1 22-Mar-91 8OIL C103213-03A 28-Mar-91	
Total bases 17-26-6 6 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5		CAS							
Advances 75-26-2 6 0 5 0 5 0 5 0 5 0 5 0 5 0 5 0 5 0 5 0	1,1,1—Trichloroethene	71-56-6		) ()	2 2		25	2 2	
17-26-2   6   5   5   5   5   5   5   5   5   5	1,1,2 - Trichloroethane	79-02-2		) )		9 9	) ) )	) ) ()	
######################################	1.1 - Dichloroethene	75-34-3		) (		<b>)</b> = 0	<b>3</b> 3	<b>3</b> 2	
## State	1,2 - Dichlorosthane	107-06-2		3.0				9 ec	
74-55-5   11   10   11   10   10   10   10   1	1,2 - Dichloroethylene	540-59-0		20	<b>3</b>	25	<b>3</b>	2	
S91-78-6         110         100         110         10	1,2 - Dichloropropane	78-87-5		5 5 5	2 T	) (	<b>2</b>	<b>.</b>	
yi = 2 - perfamone         106 - 10 - 1         11 U         10 U <th< td=""><td>2 - Hexanone</td><td>591-78-6</td><td>_</td><td>5 5</td><td><b>=</b> =</td><td>5 5</td><td>5 5 5 5</td><td>5 5</td><td></td></th<>	2 - Hexanone	591-78-6	_	5 5	<b>=</b> =	5 5	5 5 5 5	5 5	
100   110   100	4-Methyl-2-pentanone	108-10-1		<b>10</b>	2 1	10°	200	200	
### Principle of the control of the	Acetone	67-64-1		<b>5</b> •	5 ·	5.	<b>5</b>	5 5	
Time         75-25-2         6 L         5	Bromodichloromethene	75-27-4	) ()	) ()	7 Z	) = 0 v	<b>&gt;</b> =	9 2	
titue/fide         74–83–9         11 U         10 U         11 U         10 U	Bromoform	75-25-2	) <b>9</b>	) S	2 20	200	200	2 0	
figuralida         75–15–0         6 R         5 R         5 U	Bromomethane	74-83-9	1 0	10 U	<b>1</b>	J 63	J 01	<b>J</b> 0 <b>L</b>	
Transmission of the control of the c	Carbon disuffide	75-15-0	ec =	E =	65 E	<b>3</b> 2	<b>&gt;</b> :	<b>3</b> 2	
manual         75-00-3         11 U         10 U         11 U         10 U	Chlorobenzene	108-90-7		) I	) )	) = n w	) () () ()	ם מים	
mm         67-66-3         6 U         5 U<	Chloroethane	75-00-3		100	110	1 0 t	. ot	2 0	
### 100	Chloroform	67-06-3		<b>3</b>	<b>)</b>	) (8)	<b>3</b>	26	
Chlorometrane 124–48–1 6U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U	Chloromethane	74-67-3		9 =	2 = =	<b>₽</b>	<b>.</b>	5 5	
zere         100-41-4         6U         5U         6U         5U         6U         5U         6U         5U         6U	Dibromochloomathana	124-48-1		) J	) II		E 33		
se chloride         75-09-2         7 U         13 U         6 U         5 U         6 U         5 U         6 U         5 U         6 U         5 U	Ethytbenzene	100-41-4		2 8	2	200	2000	200	
100-42-5         6 U         5	Methylene chloride	75-09-2		13 U	<b>3</b>	26	<b>7</b>	2	
3-Dichloropropene 1061-02- 6U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U	Styrene	100-42-5		⊃:	2:	200	<b>&gt;</b>	<b>3</b>	
3-Dichloropropens 10081-02- 6U 5U 5U 5R 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U	I SETICINO ET INSTITUTO	12/-15-4		) (	) (	0 :	) ()	) (	
79-01-6 6U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U	Forbert frame = 1.3 - Dichlomomene	10081-00-3		) = 0 •	g =	) a	) a	2 4	
106-05-4 11U 10U 10U 10U 10U 10U 10U 10U 10U 10U	Trichlomethene	79-01-6		) = (	) =   		: = :	; ==	
chloride 75-01-4 11U 10U 10U 10U 10U 10U 10U 10U 10U 10U	Vinyl Acetate	106-05-4		2 6	3.5	. t	. <del>.</del> .	. O	
xylense 1330-20-7 6U 5U 190 5U 5U 1000 1000 100000 100	Vinyl chloride	75-01-4		10 U	110	10 U	<b>5</b>	<b>D O F</b>	
	Total xylenes	1330-20-7	35000	5 C	190	2 C	) to 000	2 5 6000	

U = Compound not detected

J = Estimated value

E = Estimated concentration above calibration ra

Benit report to Selection

							r
		. <b>9</b>	APPENDIX L RESULTS OF YOAS IN SOIL 181 AREFG SITE INVESTIGATION PHOENIX, ARIZONA	V SOIL TIBATION M			•
Sample Number: Sample Date:		\$81-04-0-2-01 21-Jen-91	\$81-04-10-12-01 21-Jen-91	881-04-55-57-01 21-Jan-91	881-04-55-57-02 21-Jan-91	981-05-0-1/01 18-Jen-91	- 1
Metric Lab Number:		<b>SOIL</b> C101211-01A	80IL C101211-02A	SOIL C101211-03A	SOIL C101211-04A	8OIL C101197 01A	
Analysis Date: Units:		25-Jen-91 ug/kg	24 - Jan - 91 ug/kg	24~Jan-91 ug/kg	24—Jan – 91 ug/kg	22-Jen-91 ug/kg	l
COMPOUND	S <b>Y</b> S						
NAME 1 1 1 - Trichlomethane	71-56-6	75	26	13 KG	=	3	
1.1.2.2—Tetrachloroethene	79-34-5	) S	) S	) ()	2		
1,1,2-Trichloroethane	79-00-5	3 20	2 2	) S	) <b>&gt;</b>	3	
1,1-Dichloroethene	75-34-3	26	20		?•	20	
1,1-Dichloroethene	75-35-4		<b>3</b>		<b>2</b>		
1,2-Dichloroethane	107-06-2		<b>3</b>		<b>)</b>		
1,2 - Dichloroethylene	540-59-0	<b>)</b>	<b>3</b>	<b>)</b>	<b>&gt;</b>	ec :	
1.2 - Dichloropropane	78-67-5	o ;		o ;	<b>.</b>	)   	
2-Hexanone	591-78-6	===	2 = =		2 5	= =	
4 - Methyl - 2 - Dentarione	108-10-1	; <b>=</b>	2 =	) ====================================	2 2 2 3	) = =	
Acetone	67-64-1	8	12 U	12 U	12.0	120	
Benzene	71-43-2	⊃ ; •	<b>3</b>	<b>)</b>	<b>?</b>	<b>3</b>	
Bromodichloromethane	75-27-4	⊃ :	<b>&gt;</b> :	<b>3</b>	<b>&gt;</b>	<b>3</b>	
Bromorom	71-22-27	) ;	o :	> ;	9 ;	<b>-</b>	
Carbon disulida	75-15-0	- s	2 25	- C	2 6		
Carbon Tetrachloride	56-23-5	200	2 20	) S	9 9	2 20	
Chlorobenzene	108-90-7	20	<b>2</b>	20	<b>7</b>	26	
Chloroethane	75-00-3		<b>5</b> '	<b>.</b>	5 5 5	<b>5</b>	
Chloromethere	74-87-3		35	٠ ٢		o ‡	
cis - 1,3 - Dichloropropene	10061-01-		) S	3 0	2	) (0	
Dibromochloromethane	124-48-1	<b>2</b> €	20	20	<b>&gt;</b>	20	
Ethytbenzene	100-41-4	<b>)</b>	<b>D</b> ;	<b>)</b>	<b>&gt;</b>	<b>3</b>	
Methylene chloride	15-08-2	<del>-</del> -	£ 5 5 5 5 5 5	\$£ • ₹	210	3:	
Tetrachlorethene	127-18-4	2 2	) )	) )	) )	) <u> </u>	
Toluene	108-88-3		200		) <b>9</b>	) S	
trans - 1,3 - Dichloropropens	10061-02-		20	26	<b>9</b>	⊃ <b>s</b>	
Trichloroethene	79-01-6	⊃ ; ?	<b>D</b> :	<b>⊃</b> ;	<b>&gt;</b>	<b>⊃</b>	
Vinyl Acetate	106-05-4	⊃ : <b>=</b> ;	<b>&gt;</b> :	<b>&gt;</b> :	<b>5</b> 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	<b>=</b> :	
Vinyl chloride	73-01-4	) : :		) -	2 -	2 :	
Hd1	-03-08-1	33000	10000	1000 L	1000 C	10000	
							ı

U = Compound not detected
J = Estimated value
E = Estimated concentration above calibration range
R = Result rejected in validation

	SB1-02-38	-30-35/01	10/0/-03-00-198	ドロースーロースロー 1月11	MED 1 UZ-0-Z-0Z	MB1-05-30-3/-01	
Sample Date:	18-4an-91	-0-	18-Jen-91	28-Jen-91	28-Jen-91	28 - Jen - 91	28-Jen-91
Matrix:	60	SOIL	SOIL	SOIL	SOIL	<b>30f.</b>	106
Lab Number:	C101197-06A	₩-	C101197-10A	C101292-01A	C101292-02A	C101292-03A	C101292-05A
Analysis Date:	22-Jen-91	<b>5</b>	22-Jan-91	05-Feb-91	06-Feb-91	06-Feb-91	06-feb-91
Cares:	5	ng/ko	DQ/Kg	UQVNQ	DAVO	D. C. C.	2000
COMPOUND	CAS						
NAME	NUMBER						
1,1,1-Trichloroethane	71-55-6	<b>2</b> €	<b>3</b> 6	⊃ <b>s</b> c	<b>3</b> 0	<b>&gt;</b>	<b>5</b>
1,1,2,2—Tetrachioroethane	79-34-5	3 C	20	26	26	<b>2</b>	26
1,1,2-Trichloroethane	79-00-5	<b>2</b> C	26	<b>D</b>	<b>)</b>	<b>၁</b>	<b>၁</b> 6
1,1 - Dichloroethane	75-34-3	3.C	26	<b>D</b>	<b>3</b> 6	26	
1.1 - Dichloroethene	75-35-4	20	E 40	⊃ <b>s</b> c	26	<b>3</b>	20
1.2 - Dichloroethane	107-06-2	2	<b>3</b> 6	200	<b>3</b> 6	<b>3</b>	<b>D</b> 60
1.2 - Dichloroethylene	540-59-0	25	250	20	26	) (1	
1.2 - Dichloropropane	78-67-5	) S	) S	) in		) (a)	
2-Butanone	78-83-3	. E	2 -	11.0			5 0
2-Hexanone	591-78-6	_	2	110	100	<b>10</b> C	J 01
4 - Methyl 2 - pentanone	108-10-1	_	100	2 5	10 U	<b>10</b> C	10 C
Acetone	67-64-1		12.0	110	<b>10</b> C	5	92
Benzene	71-43-2	2 C	26	20	26	<b>7</b> 6	<b>2</b>
Bromodichloromethane	75-27-4	<b>2</b> C	26		200	<b>7</b> 6	20
Вготогот	75-25-2	2 C	<b>၁</b>	<b>D</b>	26	76	20
Bromomethane	74-63-9	<b>10 C</b>	- -		5 5		5 5
Carbon disuffide	75-15-0	S.C.	26	<u>ئ</u>			<b>3</b>
Carbon Tetrachloride	56-23-5	5 C	26		26		<b>၁</b> 6
Chlorobenzene	106-90-7		<u>ې</u>	26	<b>5</b>	<b>3</b>	<b>3</b>
Chloroethane	75-00-3	<b>10</b> C	1 C	<b>1</b> 0	<b>5</b>	5 5	<b>5</b> 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Chloroform	67-66-3	<b>2</b>	<u>ت</u>	<b>3</b> C	⊃ <b>s</b>	<b>3</b>	<b>3</b>
Chloromethane	74-87-3	5 5					5 5
cis — 1,3 — Dichloropropene	10061-01-	2	<u>ي</u> م	ۍ د		<b>၁</b>	<b>3</b>
Dibromochloromethane	124-48-1	2	<b>3</b>	၁	<b>3</b> 6	<b>5</b>	<b>3</b>
Ethylbenzene	100-41-4	5 C	<u>ي</u>	<b>5</b>	<b>7</b>	<b>5</b>	ک د
Methylene chloride	75-09-2	<b>=</b>	3	<b>&gt;</b>	⊃ •	<b>3</b>	<b>&gt;</b>
Skyrene	100-42-5	5 C	<b>⊃</b> \$	<b>&gt;</b>	⊃ <b>s</b>	26	<b>၁</b> 6
Tetrachlorethene	127-18-4	<b>&gt;</b>	<b>)</b>	<b>3</b>	26	26	<b>7</b> 0
Toluene	108-88-3	2	<b>၁</b> %	20	3c	26	<b>3</b>
trans - 1,3 - Dichloropropene	10061-02-	<b>2</b> €	<u>ي</u> م	<b>D</b>	20	<b>&gt;</b>	2
Trichloroethene	79-01-6	2	<u>ي</u>	<b>3</b>	<b>3</b> 6	<b>2</b>	<b>5</b>
Vinyl Acetate	108-05-4	0		- -	<b>10</b>	<b>5</b>	<b>5</b>
Vinyi chloride	75-01-4	5 0	<b>3</b> ;	± =	5 5	<b>5</b>	<b>5</b> ⊃ :
Total xylenes	1330-20-7	2 €	<b>7</b> %	<b>၁</b>	<b>)</b>	<b>&gt;</b>	<b>ာ</b>
I	7			: ((())			

		<b>16</b> 1	APPENDIX L RESULTS OF YOAS IN SOIL 181 AREFG SITE INVESTIGATION PHOEMIX, ARIZOMA	W BOIL TIGATION M		<b>3</b>
Sampia Number: Sampie Date: Matabic: Lab Number: Analysis Date: Units:		882-04-55-57-01 23-Jan-91 8OIL C101230-01A 26-Jan-91 ug/Kg	\$82-04-70-72-01 23-Jan-91 \$OIL C101230-02A 28-Jan-91	MB2-02-0-2-01 06-Feb-91 8OIL C102089-01A 13-Feb-91 ug/Kg	MB2-02-30-32-01 06-Feb-91 8OIL C102086-03A 13-Feb-91 ug/Kg	M82-02-70-72-01 06-Feb-01 80IL C102096-04A 13-Feb-01 ug/Kg
COMPOUND	CAS					
1,1,1 - Trichloroethane	71-56-6	<b>3</b>	2:	); (e)	<b>3</b> :	<b>3</b>
1,1,2,2 - Telefaction of same 1,1,2 - Trichloroethane	S-8-67	) ) • •	) ()	)       	) )	) p p
1,1-Dichloroethane	75-34-3	2	20	3	200	20
1,1-Dichloroethene	75-36-4	<b>&gt;</b> :	<b>.</b>	<b>&gt;</b>	<b>3</b>	<b>3</b> :
1.2 - Dichloroethene	540-59-0	) 9 <b>6</b>	) ()	) 9 <b>9</b>	) ()	)     
1,2 - Dichioropropane	78-87-5	2	3.0	2 9	3	) S
2-Butanone	78-83-3		2 :	3:	200	<b>2</b>
2 - Hacenone	591-78-6	) = :	<b>=</b> :	3 =	<b>9</b>	<b>&gt;</b> :
Acetone	67-64-1	2 ==	<u></u>	3		
Benzene	71-43-2	<b>&gt;</b>	20	) •	3	2
Bromodichloromethene	75-27-4	<b>5</b>	<b>D</b> :	<b>3</b>	25	<b>3</b>
Bromotorm	75-28-2	9 ;	2 2	9 ;	ے دو	) (
Carbon disuffide	75-15-0	9	. w	) •	9 S	2 S
Carbon Tetrachloride	56-23-5	2 6	3 C	<b>3</b>	26	20
Chlorobenzene	106-90-7	<b>•</b> ;		<b>-</b>	ئ ت د	
Chloraform	67-86-3	2 <b>2</b>	2 S	) •	5 K	) S
Chloromethane	74-67-3	-	110	11 0	10 C	2
cis - 1,3 - Dichloropropene	10061-01-		<b>.</b>	<b>5</b>	<b>3</b>	<b>3</b> :
Ubromochioromethane	124-48-1		) :		<b>&gt;</b> :	<b>&gt;</b> :
Mathylane chloride	75-00-2		) = •	2 6	2 5	
Strene	100-42-5	) <b>9</b>	) S	9	) S	) : c
Tetrachlorethene	127-18-4	⊃ •	20	<b>&gt;</b>	3	- D
Toluene	106-88-3		<b>)</b>	<b>3</b>	<b>3</b>	<b>3</b>
trans - 1,3 - Dichloropropens	10061 -02-	) *	<b>3</b> 2	<b>9</b> =	<b>3</b> 2	2 :
Vind Acatal	10-6/ 10-6/	) 	)   		o <u>e</u>	) • •
Viny chloride	75-01-4	===	2 =	3 <b>-</b>	5 5	2 =
Total xylenes	1330-20-7		<b>⊃</b> s	<b>&gt;</b>	<b>3</b>	26
ТРН		10000 U	10000 U	30000	10000 U	10000 U

STATE AND A PORT

Continue	Callinge recition.		SB3-04-15-16 1/2-01 SB3-04-5	10-2/19-6-10-2/	10-2/1 1-0-10-COM	1 10-00-10-00M	1 19-00-10-80HID-2	10-2/1 1-0-20-09-10-2/1 19-00-10-09-10-2/1 15-00-10-09-10-	
Substitute   Criticate   Cri	Sample Date:		24-Mar-91	24 - Mar - 91	22-Mer-91	22-Mar-91	22-Mar-91	23-Mar-91	23-14-52
Experimental Control	tatribe:		<b>등</b>	SOIL	SOIL	를 8		<b>30</b> 1	# <b>G</b>
COMPOUND   CAS   Valid   CAS	nb Number:		C103220-13A	C103220-06A	C103212-01A	C103212-02A	C103212-03A	C103220-01A	C103220-0CA
Total Country   CAS	railysis Date:		27 - Mar 91	27 - Mar 91	26 - Mar - 91	26-14-91	26 - Mar - 91	26-14ar-91	26 - Mar - 91
Multierray  Multie	nits:		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Musician Mus	CMEDIMO	S. C. A.							
71-25-6 5.0 5.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6	NAME	NUMBER							
73-24-5 5 0 5 0 6 0 6 0 6 0 6 0 6 0 6 0 6 0 6	1,1-Trichloroethane	71-55-6		26	20	26	20	78	25
75-24-3 5 1	1.2.2—Tetrachloroethans	79-34-5	200		) D	29	) S		200
75-36-4 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	1.2 - Trichloroethene	79-00-5	2 5	) is	2	) <b>(</b>	3000		) <del>.</del>
107-08-2 58 50 50 60 60 50 50 50 60 50 50 50 50 50 50 50 50 50 50 50 50 50	1 - Dichiproethene	75-34-3	) <b>5</b> 6	200		2	75		
940-29-0 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	1-Dichloroethene	75-35-4	200	) TO	) <b>3</b>	) <b>5</b>	) S		3
\$40-\$8-0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	2-Dichloroethane	107-06-2	147	) is	2		3	- C	. a
78-87-5 5.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6	2-Dichloroethylene	540-59-0		200	2		) \(\sigma\)	: T S	
36-83-3         100         10R         120         120         110	2-Dichloropropane	78-87-5		25	70		) S	75	
100   120   120   110	-Buttanone	78-93-3	10 C	_		120	110	25	) <u>0</u>
#### referror   100   120   120   11	- Hexanone	591-78-6		_		120	25	25	70
75-27-4 10	-Methyl-2-pentanone	108-10-1			12 U	12.0	25	21	J 02
71–42–2 5U 5U 6U 6U 6U 5U 5U 5U 5U 77–22–2 5U 5U 6U 6U 6U 5U 5U 5U 5U 77–22–2 5U 5U 6U 6U 6U 5U 5U 5U 5U 5U 5U 77–22–2 5U 5U 6U 6U 6U 6U 5U 5U 5U 77–22–2 5U 5U 6U 6U 6U 5U 5U 5U 5U 5U 5U 5U 5U 77–22–2 5U 5U 6U 6U 6U 5U 5U 5U 5U 77–22–2 5U 5U 6U 6U 6U 5U 5U 77–22–2 5U 5U 6U 6U 6U 5U 5U 77–22–2 5U 5U 6U 6U 6U 5U 5U 5U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U	cetone	67-64-1	10 C		12 U	120	2	31	J 04
75–27–4 5 U	Brizerie	71-43-2	20	26	20	<b>7</b>	28	26	20
75-25-2 5 U	romodichloromethane	75-27-4	20	20	<b>5</b>		30	26	26
75-45-0         10 U         10 U         12 U         12 U         11 U	romoform	75-25-2	2€	30	<b>&gt;</b>	<b>&gt;</b>	<b>3</b> 6	79	<b>)</b>
75–15–0         5U         6R         6R         5R         5U           106–90–7         5U         6U         6U         5U         5U           106–90–7         5U         6U         6U         5U         5U           75–00–3         10U         10U         12U         11U         11U         11U           75–00–3         10U         10U         10U         11U	romomethane	74-83-9	<b>5</b>	$\overline{}$	12 U	12 U	2	<b>3</b>	5 5
SG-23-5         5 U         6 U         6 U         5 U	arbon disuffide	75-15-0	26	26	Œ	Œ	Œ	<b>0</b> 80	<b>7</b>
100-90-7   5 U   12 U   12 U   11 U	arbon Tetrachloride	56-23-5		<b>၁</b> 0	>•	2	25	26	<b>D</b>
75-00-3 10U 12U 12U 12U 11U 11U 11U 11U 11U 11U 11	hlorobenzene	108-90-			<b>&gt;</b>	<b>&gt;</b>	<b>⊃</b> s	26	20
67-66-3 5U 6U 12U 12U 11U 11U 11U 11U 11U 11U 11U 11	Noroethane	75-00-3	<b>₽</b>	_	12 U	12 N	3.E	25	5 5
74-87-3         10 U         10 U         12 U         12 U         11 U	hloroform	67-66:3	<b>3</b>	26	<b>&gt;</b>	⊋	26	26	20
hibropropene 10061-01- 5U 5U 6U 6U 5U 5U 5U 5U 6U 001-01- 5U 5U 6U 6U 5U 5U 5U 5U 6U 6U 5U 5U 5U 5U 6U 5U 5U 5U 5U 5U 6U 5U 5U 5U 5U 5U 6U 5U 5U 5U 5U 5U 6U 6U 5U 5U 5U 5U 6U 6U 6U 5U 5U 5U 5U 6U 6U 5U 5U 5U 6U 6U 6U 5U 5U 6U 6U 6U 6U 6U 5U 6U 6U 6U 6U 5U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U	Noromethane	74-67-3		10 01	12 0	120	25	2 =	<b>36</b>
124-46-1 5 U	is -1,3 - Dichloropropene	10061-01		<b>3</b> 6	⊃•	⊋	26	26	26
100-41-4         5U         6U         6U         5U           100-41-4         5U         5U         9U         8U         7U         5U           100-42-5         5U         5U         6U         6U         5U         5U         5U           100-42-5         5U         5U         6U         6U         5U	fbromochloromethane	124-48-1		26	20	<b>2</b>	<b>)</b> \$	20	20
No.   No.	thytbenzene	100-41-4	_	<b>⊃</b> \$	<b>3</b>	<b>9</b>	<b>7</b> 8	20	26
400-42-5         5U         6U         6U         5U         7U         <	ethylene chloride	75-09-2		35	⊃ •	<b>3</b>	20	26	⊃ <b>\$</b>
127-18-4 5U 5U 6U 6U 5U 5U 5U 6U 6U 6U 6U 6U 5U 6U 5U 6U 5U 6U 5U 6U 5U 6U 5U 5U 5U 5U 6U 6U 6U 6U 5U 5U 5U 5U 5U 5U 6U 6U 6U 5U 5U 11H 11H 11H 11H 11H 11H 11H 11H 11H 11	lyrene	100-42-6		<b>၁</b> 0	20		26	26	26
106-88-3     5U     1J     6U     5U       106-88-3     5U     6U     5U     5R       ne     79-01-6     5U     6U     5U     5R       ne     79-01-6     5U     6U     5U     5U       106-05-4     10R     10U     12U     11U     11U       1330-20-7     10000 U     10000 U     10000 U     10000 U     10000 U     10000 U	strachlorethene	127-18-4	_	<b>3</b> 6	20	2	<b>3</b>	26	⊃ <b>s</b>
ichloropropene 10061–02– 5R 5U 6U 6U 5U 5R 5U 6U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U	pluene	108-86-		26	7-	2	<b>3</b>	76	26
79-01-6 5U 6U 6U 5U 5U 5U 11R 11R 11R 11R 11R 11R 11R 11R 11R 11	arra - 1,3 - Dichloropropene	10061-02		⊃ <b>s</b>	⊃•	2	26	er so	£
108-05-4 10R 10U 12U 12U 11U 11R 11R 11R 11U 12U 12U 12U 11U 11U 11U 11U 11U 11U	richioroethene	79-01-6	20	26	<b>3</b>	⊋	26	26	<b>5</b>
75-01-4 10	inyl Acetate	108-05-4	_	_	12.0	12 C	35	Œ	E OF
Taylenee 1330–20–7 5 U 6 U 6 U 5 U 5 U 5 U 10000 U 1000 U 1000 U 1000 U 1000 U 10000 U	inyl chloride	75-01-4	10 C	_	12 U	120	7	25	<b>J 6</b>
10000 U 10000 U 10000 U 10000 U	otal xylenes	1330-20-		26	<b>3</b>	<b>3</b>	20	26	29
	£		10000 U	_	10000 U	10000 U	U COOCT	11 00001	11 00000

U = Compound not detected
J = Estimated value
E = Estimated concentration above calibration range
R = Result rejected in validation

		APPENDIX L RESULTS OF SVOAS IN SOIL	N SOIL		
		161AREFG SITE INVESTIGATION PHOENIX, ARIZONA	IGATION IA		
Semale Misseker	MBC OF 10	MBS -01-80-62-01	MBC-0-0-01	MBS_02_10_12_01	MBC_02_K_7_04
	N-N-IO-COE		10-3-0-30-COM	10-31-01-30-02W	10-1-0-10-00E
Sample Date:	29 - Jan - 91	29 - Jan - 91	31 - Jen - 81	31 - Jan - 81	M - Jen - 81
Matrix:	SOIL	SOF	SOF	SOL	NOS.
Lab Number:	C101318-01A	C101318-04A	C102008-01A	C102008-05A	C102008-03A
Prep Date:	06-Feb-91	06-Feb-91	10-Feb-91	10-Feb-91	10-Feb-91
Analysis Date:	13-Feb-91	12-Feb-91	20-Feb-91	15-Feb-91	20-Feb-91
Units:	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
COMPOUND	CAS				
NAME	NOMBER				
1.2.4 - Trichlorobenzene	120-82-1 360 U	360 U	3400 ₪	410 U	3400 U
1.2-Dichlorobenzene		0.000	3400 U	410 U	3400 U
1.3-Dichlorobenzene	<del>-</del>	0.098	3400 U	410 U	3400 U
1.4 - Dichlorobenzene		098	3400 ∪	410 U	3400 ∪
2,4.5-Trichlorophenol	-	1800 U	16000 U	2000 U	16000 U
2.4.6 Trichlorophenol		360 U	3400 U	1014	3400 U
2.4 - Dichlorophenol	0	360 U	3400 U	410 U	3400 U
2.4 - Dimethylphenol		360 U	3400 U	410 U	3400 ∪
2.4 - Diritrophenol	-	1800 U	16000 U	2000 U	16000 UJ
2.4 - Dinitrotoluene	121-14-2 360 U	360 ∪	3400 UJ	410 U	3400 ∪
2,6-Dinitrotoluene	606-20-2 360 U	360 U	3400 ∪	410 C	3400 ∪
2 - Chloronaphthalene	91-58-7 360 U	360 ∪	3400 ∪	410 U	3400 ∪
2-Chlorophenol	95-57-8 360 U	360 ∪	3400 U	410 U	3400 U
2 - Methylnaphthalene	91-57-6 360 U	360 U	3400 U	410 U	3400 U
2 - Methylphenol	95-48-7 360 U	360 U	3400 U	410 U	3400 €
2-Nitroeniline	88-74-4 1800 U	1800 U	16000 U	2000 U	16000 U
2-Nitrophenol	<b>5</b>	360 ∪	3400 ∪	410 U	3400 U
3,3'-Dichlorobenzidine	91-94-1 730 U	730 R	6800 UJ	820 U	6700 UJ
3-Nitroaniline	-	1800 U	16000 U	2000 R	16000 U
4,6-Dinitro-2-methylphenol	534-52-1 1800 U	1800 U	16000 UJ	2000 U	16000 UJ
4 Bromophenyl phenyl ether	101-55-3 360 U	360 ∪	3400 ∪	410 U	3400 €
4 - Chloroaniine	106-47-8 360 UJ	360 ∪	3400 €	410 R	3400 C
4-Chlorophenylphenyl ether	7005-72-5 360 U	360 U	3400 ∪	410 C	3400 U
4-Chloro-3-methylphenol	59-50-7 360 U	360 ∪	3400 U	410 U	3400 ∪
4-Methylphenol	106-44-5 360 U	360 ∪	3400 ∪	410 U	3400 C
4 - Nitroaniline	100-01-6 1800 R	1800 R	16000 U	2000 U	16000 U
4 - Ntrophenol	100-02-7 1800 U	1800 U	16000 U	2000 U	16000 U
Acenaphthene	83-32-9 360 U	360 ∪	3400 U	410 U	3400 U
Acenephthylene	208-96-8 360 U	360 U	3400 ∪	410 U	3400 U
Anthracene	120-12-7 360 U	360 ∪	3400 ∪	410 U	3400 ∪
Benzoic acid	_	1800 R	16000 UJ	2000 R	16000 UJ
Benzo (a) anthracene	56-55-3 360 U	360 U	3400 ∪	410 U	3400 ∪

		PE 161/	APPENDIX L RESULTS OF SVOAS IN SOIL 161AREFG SITE INVESTIGATION PHOENIX, ARIZONA	N SOIL TGATION VA			8
Sample Number:	MBS	MBS-03-0-2-01	MBS-03-5-7-01	MBS-04-0-2-01	MBS-04-15-16 1/2-01MBS-04-99-01	-01MBS-04-99-01	I
Sample Date:	30-	30 - Jan 91	30-Jen-91	21 - Mar - 91	21 - Mar - 91	21 - Mer - 91	
Matrix:		SOIL	SOIL	SOIL	SOF	SOL	
Lab Number:	C10	C101326-01A	C101326-03A	C103195-01A	C103195-02A	C10319504A	_
Prep Date:	-01	10-Feb-91	10-Feb-91	23-Mar-91	23-Mer-91	23 - Mar - 91	
Analysis Date:	15-	15-Feb-91	15-Feb-91	01 Apr 91	01 - Apr - 91	05-Apr-91	_
Unite:		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	
COMPOUND	CAS						
NAME	NUMBER						_
1.2.4 - Trichlorobenzene	120-82-1	350 U	350 U	370 ∪	370 ∪	⊃ 069	_
1,2-Dichlorobenzene	95-50-1	350 U	350 ∪	370 ∪	370 U	7069	_
1,3-Dichlorobenzene	541-73-1	350 U	350 U	370 ∪	370 U	7089	
1,4 - Dichlorobenzene	106-46-7	350 U	350 U	370 ∪	370 U	U 069	
2,4,5 - Trichlorophenol	95-85-4	1700 U	1700 U	1800 U	1800 U	3400 ∪	
2,4,6 - Trichlorophenol	88-06-2	350 U	350 U	370 U	370 U	U 069	
2,4-Dichlorophenol	120-83-2	350 U	350 U	370 U	370 U	U 069	
2,4 - Dimethylphenol	105-67-9	350 U	350 U	370 U	370 U	7 0 <b>69</b>	
2,4-Dinitrophenol	51-28-5	1700 U	1700 ∪	1800 U	1800 ∪	3400 U	_
2,4-Dinitrotoluene	121-14-2	350 U	350 U	370 U	370 ∪	U 069	_
2,6-Dinitrotoluene	606-20-2	350 U	350 U	370 U	370 ∪	O69	
2-Chloronaphthalene	91-58-7	320 ∩	350 U	370 U	370 U	∩ 069	_
2-Chlorophenol	95-57-8	350 U	350 U	370 U	370 ∪	D 069	
2 - Methyln aphthalene	91-57-6	350 U	350 U	370 U	370 ∪	490 J	
2-Methylphenol	95-48-7	350 U	350 U	370 U	370 U	∩ 069	
2-Nitroaniline	88-74-4	1700 U	1700 U	1800 U	1800 U	3400 U	
2-Nitrophenol	88-75-5	350 U	350 U	370 ∪	370 ∪	∩ 0 <b>69</b>	
3,3'-Dichlorobenzidine	91941	700 U	710 U	750 U	750 U	1400 UJ	
3 - Nitroaniline	89-08-5	1700 A	1700 R	1800 U	1800 U	3400 U	
4,6-Dinitro -2-methyiphenol	534-52-1	1700 C	1700 U	1800 U	1800 U	3400 ∪	
4 - Bromophenyl phenyl ether	101-55-3	320 U	350 U	370 U	370 U	∩ 069	_
4 - Chloroaniine	106-47-8	320 ∩	350 U	370 U	370 U	rn 089	
4 - Chlorophenylphenyl ether	7005-72-€	350 U	350 U	370 U	370 U	∩ 089	_
4-Chloro-3-methylphenol	59-50-7	350 ∪	350 ∪	370 U	370 U	∩ 069	_
4 - Methylphenol	106-44-5	350 ∪	350 U	370 U	370 ∪	∩ 069	
4 - Nitroaniline	100-01-6	1700 U	1700 U	1800 U	1800 U	3400 R	_
4 - Nitrophenol	100-02-7	1700 U	1700 U	1800 U	1800 U	3400 ∪	
Acenaphthene	83-32-9	350 ∪	350 U	370 U	370 ∪	7 069 7	
Acenephthylene	208-96-8	350 ∪	350 ∪	370 U	370 ∪	D 069	
Anthracene	120-12-7	350 U	350 U	370 ∪	370 U	D 069	
Benzoic acid	65-85-0	1700 A	1700 R	1800 U	1800 U	3400 ∪	
Benzo(a) anthracene	56-55-3	350 U	350 U	370 U	370 U	089 N	٦
						WITH HETIOANGON	\$

			APPENDIX L			8
		RE 161/	RESULTS OF SVOAs IN SOIL 161AREFG SITE INVESTIGATION PHOENIX. ARIZONA	N SOIL IGATION NA		
Sample Number:		MBS-01-0-2-01	MBS-01-60-62-01	MBS-02-0-2-01	MBS-02-10-12-01	MBS-02-5-7-01
Sample Date:		29-Jan-91	29-Jan-91	31-Jen-91	31-Jan-91	31 - Jan - 91
Matrix		SOIL	SOIL	SOIL	SOL	TOS.
Lab Number:		C101318-01A	C101318-04A	C102008-01A	C102008-05A	C102008-03A
Prep Date:		06-Feb-91	06-Feb-91	10-Feb-91	10-Feb-91	10-Feb-91
Analysis Date:		13-Feb-91	12-Feb-91	20-Feb-91	15-Feb-91	20-Feb-91
Units:		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
COMPOUND	CAS					
NAME	NUMBER					
Benzo(a) pyrene	50-32-8	360 U	360 U	3400 U	410 C	3400 ∪
Benzo(b)fluoranthene	205-99-2	360 U	360 U	3400 U	410 U	3400 ∪
Benzo(g,h,i) perylene	191-24-2	360 ∪	360 U	3400 UJ	410 C	3400 UJ
Benzo(k)fluoranthene	207-08-9	360 ∪	360 U	3400 U	410 C	3400 ∪
Benzyl alcohol	100-51-6	360 U	360 U	3400 U	410 U	3400 U
bis(2-Chloroethoxy)methane	111-91-1	360 U	360 U	3400 U	410 U	3400 U
bis(2-Chloroethyl)ether	111-44-4	360 R	J 096	3400 U	410 U	3400 ∪
bis(2-Chloroisopropyl) ether	108-60-1	360 ∪	360 U	3400 U	410 U	3400 ∪
bis(2-Ethylhexyl) phthalate	117-81-7	360 ∪	360 ∪	3400 U	707	3400 U
Butyl benzyl phthalate	85-68-7	360 ∪	360 ∪	3400 U	410 U	3400 ∪
Chrysene	218-01-9	360 ∪	360 ∪	3400 ∪	410 U	3400 U
Dibenzofuran	132-64-9	360 ∪	3€0 ∪	3400 U	410 U	3400 U
Dibenzo(a,h) anthracene	53-70-3	360 ∪	360 U	3400 UJ	410 U	3400 UJ
Diethyl phthalate	84-66-2	360 ∪	360 ∪	3400 U	410 U	3400 ∪
Dimethyl phthalate	131-11-3	360 ∪	360 ∪	3400 U	410 U	3400 U
Di-n-butyl phthalate	84-74-2	360 ∪	360 U	3400 U	410 U	3400 €
Di-n-octyl phthalate	117-84-0	∩ 096	360 U	3400 U	410 U	3400 ∪
Fluoranthene	206-44-0	360 ∪	360 ∪	3400 U	410 U	3400 ∪
Fluorene	86-73-7	360 ∪	360 ∪	3400 U	410 U	3400 €
Hexachlorobenzene	118-74-1	360 ∪	360 ∪	3400 ∪	410 U	3400 ∪
Hexachlorobutadiene	87-68-3	360 U	360 ∪	3400 €	410 U	3400 ∪
Hexachiorocyclopentadiene	77-47-4	360 U	360 U	3400 UJ	410 U	3400 UJ
Hexachloroethane	67-72-1	360 U	360 ∪	3400 U	410 U	3400 ∪
Indeno(1,2,3-cd)pyrene	193-39-5	360 ∪	360 ∪	3400 UJ	410 U	3400 UJ
Isophorone	78-59-1	360 ∪	360 U	3400 U	410 U	3400 ∪
Naphthalene	91-20-3	∩ 09E	360 ∪	3400 U	410 U	3400 U
Nitrobenzene	98-95-3	360 ∪	360 U	3400 U	410 U	3400 U
N-Nitosodiphenylamine	86-30-6	09€	360 U	3400 U	410 U	3400 U
N-Nitoso-di-n-propylamine	621-64-7	360 ∪	360 U	3400 U	4100	3400 U
Pentachlorophenol	87-86-5	1800 U	1800 U	16000 U	2000 U	160 <b>00 U</b>
Phenanthrene	85018	00€	360 U	3400 U	410 U	3400 U
Phenol	108-95-2	360 ∪	360 ∪	3400 U	410 U	3400 U
Pyrene	129-00-0	360 ∪	360 U	3400 U	410 U	3400 ∪

			IOIAHEFG SIIE INVESTIGATION PHOENIX, ARIZONA	NA		
Sample Number:		MBS-03-0-2-01	MBS-03-5-7-01	MBS-04-0-2-01	MBS-04-15-161	MBS-04-15-16 1/2-01MBS-04-99-01
Vample Date:	-	30-Jan-91	30-Jan-95	21 - Mar-91	21 - Mar-91	21 - Mar-81
Matrx:						
Lab Number:	٠	C101326-01A	C101326 - USA	C103185-01A	C103185-02A	C103185-04A
Prep Date:	- 1	10-Feb-91	10-Feb-91	23-Mar-91	23-Mer-91	23 - Mar-91
Analysis Date:	-	13-160-61	18-09-1-01	OI Apr. WI	18-10 10	D-Apt-co
		ng/Kg	ng/Kg	ng/kg	O WOO	DWGO
COMPOUND	CAS					
NAME	NOMBER	11 036	11 036	11.026	970 1	11 000
Denzo(a) pyrene	30-35-0	0.00	0.00	00/8		
Benzo(b) nuoranthene	2-88-502	000	0.000	3/0 0	0.078	
Benzo(g,n,gperyene	191-24-2	0 2 6	2000	3/00	00/8	
Benzo(K) tuoranthene	507-08-8	000	0.000	370 0	370 0	
Benzył alcohol	100-51-6		320	370 U	370 U	
bs(2-Chloroethoxy) methane	111-91-1	320 0	0.000	370 U	370 0	
bis (2 - Chloroethyl) ether	111-44-4	320	350 0	370 0	370 0	
os (z - Chlorosopropy) emer	1-20-20-	0.000	7 (1)	3/00	3/8	0 000
bis(2 - Ethylhexyl) phthalate	117-81-7	320 0	320 0	370 U	370 U	
Butyl benzyl phthalete	82-88-7 010	000	350 0	370 0	370 0	
	B-10-017	2000	0000	00/5	3700	0 000
Obenzo(a h) enthrecene	53-70-3	2000	350 11	370	2000	
Di vi ohthelate	84662	350 U	320 ∩	370 🗆	370 U	
ě	131-11-3	350 ∪	350 ∪	370 ∪	370 ∪	
Di-n-butyl phthalete	84-74-2	350 U	350 U	370 U	370 ∪	
Di-n-octyl phthalate	117-84-0	350 U	350 U	370 U	370 U	∩ 069
Fluoranthene	206-44-0	350 U	350 U	370 U	370 U	D 069
Fluorene	86-73-7	350 U	350 U	370 U	370 ∪	D 069
Hexachlorobenzene	118-74-1	350 U	350 U	370 U	370 ∪	D 089
Hexachlorobutadiene	87-68-3	350 U	320 C	370 U	370 U	069
Hexachlorocyclopemadiene	4-14-11	320 0	320	370 U	370 U	
Hexachloroethane	67-72-1	320 0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	370 U	370 0	069
Indeno(1,2,3-cd)pyrene	193-39-5	000	350 0	3/00	370 0	
sopnorone	18-28-1	) OS	350 0	00/8	0 0/8 2 0F	
	S-102-18	200	) - OSE	0.026	370	
Nincoenizene N Nitzec dishemdemine	00 00 00 00 00 00 00 00 00 00 00 00 00	350	2000	2000	2000	
N - Nitroso - di - n - Droovlamina	621-64-7	3000	320 (1	370 U	370 1	
Pentachlorophenol	87-86-5	1700 U	1700 U	) 0091 U 000	1800 U	3400 U
Phenanthrene	85-01-8	350 U	350 ∪	43.1	370 ∪	O 089
Phenol	108-95-2	350 U	350 U	370 U	370 ∪	∩ 069
Pyrene	5					

Semple Number: Semple Dete: Mathix: Lab Number:			RESULTS O 161AREFG SI PHOEI	RESULTS OF SVOAS IN SOIL 161AREFG SITE INVESTIGATION			
Sample Number: Sample Date: Mathix: Lab Number:				PHOFNIX ARIZONA			
Sample Number: Sample Date: Mathic: Lab Number:			: : :				
Semple Date: Matric: Lab Number:	88	581-02-0-2-01	SB1-03-0-2-01	SB1-03-20-22-01	SB1-03-35-37-01	SB1-03-35-37-02	581-03-55-57-01
Matric Lab Number:	Ż	04-Feb-91	21-Jan-91	21-Jan-91	21-Jen-91	21-Jan-91	22-Jen-91
Lab Number:		<b>₩</b>	SOIL	SOF	₩ S	<b>5</b>	<b>3</b>
	ວັ	C102058-01A	C101211-05A	C101211-14A	C101211-06A	C101211-07A	C101215-01A
Prep Date:	₽	10-Feb-91	25-Jan-91	29-Jan-91	25-Jan-91	25-Jan-91	29-Jen-91
Analysis Date:	₹	15-Feb-91	29-Jan-91	30-Jan-91	29-Jen-91	29-Jan-91	30Jen-91
Chita:		ug/Kg	ug/kg	ng/kg	n8y6	ng/kg	og//gu
COMPOUND	CAS						
NAME	NUMBER						
1,2,4~ Trichlorobenzene	120-82-1	360 ∪	∩ 09E	340 U	340 U	340 U	100€
1,2-Dichlorobenzene	95-50-1	00€	09€	340 U	340 U	340 U	430 U
1,3-Dichlorobenzene	541-73-1	360 ∪	∩ 09E	340 U	340 U	340 U	J 067
1,4-Dichlorobenzene	106-46-7	00€	360 U	340 U	340 U	340 U	430 U
2,4,5—Trichlorophenol	96-95-4	1700 U	1700 U	1600 U	1600 U	1600 U	2100 U
2.4.6 - Trichlorophenol	88-06-2	00€	709€	340 U	340 U	340 ∪	430 U
2.4-Dichlorophenol	120-83-2	200€	0000	340 U	340 U	340 ∪	430 U
2.4-Dimethylphenol	105-67-9	360	360 U	340 U	340 ∪	340 U	130 0
2,4-Dinitrophenol	51-28-5	1700 L	1700 U	1600 U	1600 U	1600 U	2100 U
2,4-Dinitrototuene	121-14-2	360 ∪	096	340 U	340 ∪	340 U	430 U
2,6-Dinitrotoluene	808-20-2	360 ∪	7 09€	340 U	340 U	340 U	430 U
2-Chloronaphthalene	91-58-7	360 ∪	∩ 09E	340 U	340 U	340 U	130 U
2-Chlorophenot	95-57-8	360 ∪	∩ 096	340 U	340 U	340 U	<b>130 U</b>
2-Methytnaphthalene	91-57-6	360 €	∩ 09E	340 U	340 U	340 U	J 087
2-Methylphenol	9548-7	360 ∪	∩ 09E	340 U	340 U	340 ∪	130 U
2-Nitroeniine	88-74-4	1700 U	1700 U	1600 U	1600 U	1600 U	2100 U
2-Nitrophenol	88-75-5	360 U	∩ 09E	340 ∪	340 U	340 U	70€
3,3' - Dichlorobenzidine	91-94-1		720 C	U 089	∩ 089	0.00	<b>2008</b>
3-Nitroenline	89-09-5	1700 R	1700 U	1600 U	1600 LU	1600 LJ	218C
4,6-Dinitro-2-methylphenol	534-52-1	1700 C	1700 U	1600 U	1600 U	1600 U	2100 U
4-Bromophenyl phenyl ether	101-55-3	⊃ 09E	096	340 U	340 U	340 ∪	130 C
4-Chloroeniine	108-47-8	360 R	∩ 09c	340 U	340 U	340 U	700€
4-Chlorophenylphenyl ether	7006-72-6	⊃ 09E	360 C	340 C	340 C	340 C	430 €
4-Chloro-3-methylphenol	28-50-7	⊃ 980 8	∩ 09E	340 U	340 U	<b>3</b> €0	430 ∪
4-Methylphenol	106-44-5	⊃ 0 <del>0</del> 6	⊃096	340 C	340 C	340 C	430 €
4-Nitroeniine	100-01-6	1700 C	1700 R	1600 U	1600 R	1600 LJ	2100 U
4-Nitrophenol	100-02-7	<b>1700</b> □	1700 U	1600 U	1600 U	1600 U	2100 U
Acenaphthene	83-32-9	09€	O96	340 C	340 U	340 U	430 ∪
Acenaphthylene	208-96-8	⊃096	J 096	340 C	340 C	340 C	7007
Anthracene	120-12-7	⊃096	∩ <b>09</b> 6	340 C	340 U	340 U	430 C
Benzolo sold	65-85-0	1700 R	1700 R	1600 U	1600 R	1600 R	2100 U
Benzo (a) enthrecene	56-55-3	360	360 U	340 C	340 C	3000	7087

881-103-56-57-02 \$81-104-0-2-01 \$81-104-10-12-01 \$81-104-156-57-05 \$81-104-56-57-05 \$81-104-156-57-05								
HOUND         CAS           Addle         NUMBER         Addle         420           Addle         NUMBER         350 U         350 U         350 U         420           zerane         565-50-1 U         390 U         3500 U         350 U         450           zerane         565-50-1 U         390 U         3500 U         350 U         450           zerane         565-61 U         390 U         3500 U         350 U         350 U         450           bernol         150-62-7 U         390 U         3500 U         350 U         350 U         450           bernol         150-62-7 U         390 U         3500 U         350 U         350 U         450           on         151-62-2 U         390 U         3500 U         350 U         350 U         450           on         151-62-2 U         390 U         3500 U         350 U         350 U         450           on         151-62-2 U         390 U         350 U         350 U         350 U         450           on         151-62 U         390 U         350 U         350 U         350 U         450           on         151-62 U         390 U         350 U         350 U	Sample Number: Sample Date: Mathri: Lab Number: Prep Date: Analysis Date: John:		\$81-03-55-57-02 22-Jan-91 \$OIL C101215-02A 29-Jan-91 ug/Kg	\$81-04-0-2-01 21-Jan-91 \$OIL C101211-01A 25-Jan-91 29-Jan-91 ug/kg	\$81-04-10-12-01 21-Jan-91 \$OIL C101211-02A 25-Jan-91 29-Jan-91 ug/kg	\$81-04-55-57-01 21-Jen-91 \$0IL C101211-03A 25-Jen-91 29-Jen-91 ug/kg	\$81-04-55-57-02 21-Jen-91 \$0!L C101211-04A 25-Jen-91 29-Jen-91 ug/kg	881-05-0-1/01 18-Jan-91 8-04 C101197-01A 25-Jan-91 26-Jan-91 ug/kg
### 120-#2-1 U 390 U 3500 U 350 U 390 U 420    120-#2-1 U 390 U 3500 U 350 U 390 U 420    120-#2-1 U 390 U 3500 U 350 U 390 U 420    120-#2-1 U 390 U 3500 U 390 U 390 U 420    120-#2-1 U 390 U 3500 U 390 U 390 U 420    120-#2-2 U 390 U 3500 U 350 U 390 U 420    120-#2-2 U 390 U 3500 U 390 U 390 U 420    120-#2-2 U 390 U 3500 U 390 U 390 U 420    120-#2-2 U 390 U 3500 U 390 U 390 U 420    120-#2-2 U 390 U 3500 U 390 U 390 U 420    120-#2-2 U 390 U 3500 U 390 U 390 U 420    120-#2-2 U 390 U 3500 U 390 U 390 U 420    120-#2-2 U 390 U 3500 U 390 U 390 U 420    120-#2-2 U 390 U 3500 U 390 U 420    120-#2-2 U 390 U 3500 U 390 U 420    120-#2-2 U 390 U 3500 U 390 U 420    120-#2-2 U 390 U 3500 U 390 U 420    120-#2-3 U 390 U 3500 U 390 U 390 U 420    120-#2-3 U 390 U 3500 U 390 U 390 U 420    120-#2-3 U 390 U 3500 U 350 U 390 U 420    120-#2-3 U 390 U 3500 U 350 U 390 U 420    120-#2-3 U 390 U 3500 U 350 U 390 U 420    120-#2-3 U 390 U 3500 U 350 U 390 U 420    120-#2-3 U 390 U 3500 U 350 U 390 U 420    120-#2-3 U 390 U 3500 U 350 U 390 U 420    120-#2-3 U 390 U 3500 U 350 U 390 U 420    120-#2-3 U 390 U 3500 U 350 U 350 U 350 U 420    120-#2-3 U 390 U 3500 U 350 U 350 U 350 U 420    120-#2-3 U 390 U 3500 U 350 U 350 U 350 U 420    120-#2-3 U 390 U 3500 U 350 U 350 U 350 U 420    120-#2-3 U 390 U 3500 U 350 U 350 U 350 U 420    120-#2-3 U 390 U 3500 U 350 U 350 U 350 U 420    120-#2-3 U 390 U 3500 U 350 U 350 U 350 U 420    120-#2-3 U 390 U 3500 U 350 U 350 U 350 U 420    120-#2-3 U 390 U 3500 U 350 U 350 U 350 U 420    120-#2-3 U 390 U 3500 U 3500 U 350 U 350 U 350 U 420    120-#2-3 U 390 U 3500 U 350 U 3	COMPOUND							
Set - 73 - 1 U         390 U         350 U         350 U         350 U         450 U           Izame         561 - 73 - 1 U         390 U         350 U         350 U         360 U         450 U           theroid         565 - 4 U         190 U         1700 U         1700 U         190 U         420 U           theroid         120 - 67 - 9 U         390 U         3500 U         350 U         360 U         420 U           of         150 - 67 - 9 U         390 U         3500 U         350 U         360 U         420 U           of         151 - 14 - 2 U         390 U         3500 U         350 U         360 U         420 U           sie         60 - 20 - 2 U         390 U         3500 U         350 U         360 U         420 U           sie         60 - 20 - 2 U         390 U         350 U         350 U         360 U         420 U           sie         60 - 20 - 2 U         390 U         350 U         350 U         360 U         420 U           sie         60 - 20 - 2 U         390 U         350 U         350 U         360 U         420 U           sie         67 - 41 U         390 U         350 U         350 U         360 U         420 U	1,2,4 – Trichlorobenzene 1,2 – Pichlombenzene	_	380 C					2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
title—46—7 U         380 U         350 U         350 U         420           thrend         86-85—4 U         1900 U         17000 U         1700 U         350 U         350 U         420           thrend         86-06—2 U         390 U         3500 U         350 U         350 U         420           mod         1728—2 U         390 U         3500 U         350 U         360 U         420           short         1728—2 U         390 U         3500 U         350 U         360 U         420           short         1728—2 U         390 U         3500 U         350 U         360 U         420           short         1728—2 U         390 U         3500 U         350 U         360 U         420           short         350 U         350 U         350 U         360 U         420           short         350 U         350 U         350 U         360 U         420           short         350 U         350 U         360 U         420         420           short         350 U         350 U         350 U         360 U         420           short         350 U         350 U         350 U         350 U         420	1,3 - Dichlorobenzene	541-73-1 U	D 086	3200 U		300 C		
themol         86–85–4         U         1900 U         17000 U         1700 U         1700 U         1700 U         420           themol         150-62–2         U         380 U         3500 U         350 U         350 U         420           mol         150-67–9         U         390 U         3500 U         350 U         360 U         420           se         151-14–2         U         390 U         3500 U         350 U         360 U         420           se         151-14–2         U         390 U         350 U         350 U         360 U         420           se         152-67–8         U         390 U         350 U         350 U         360 U         420           alene         91-57–8         U         390 U         350 U         350 U         360 U         420           alene         91-57–8         U         390 U         350 U         350 U         360 U         420           alene         91-57–8         U         390 U         350 U         350 U         350 U         420           alene         91-57–9         U         350 U         350 U         350 U         420           alene         91-57	1,4 - Dichlorobenzene	106-46-7 U		3500 ∪			420 C	
henrol 88-06-2 U 380 U 350 U 350 U 350 U 420    103-06-2 U 380 U 350 U 350 U 360 U 420    103-06-2 U 380 U 350 U 350 U 360 U 420    103-06-2 U 380 U 350 U 360 U 360 U 420    103-06-2 U 380 U 350 U 360 U 360 U 420    103-06-2 U 380 U 360 U 360 U 360 U 420    104-06-2 U 380 U 360 U 360 U 360 U 420    104-06-2 U 380 U 380 U 360 U 360 U 420    104-06-2 U 380 U 380 U 360 U 360 U 420    104-06-2 U 380 U 360 U 360 U 360 U 420    104-06-2 U 380 U 360 U 360 U 360 U 420    104-06-2 U 380 U 360 U 360 U 360 U 420    104-06-2 U 380 U 360 U 360 U 360 U 420    104-06-2 U 380 U 360 U 360 U 360 U 420    104-06-2 U 380 U 360 U 360 U 360 U 420    104-06-2 U 380 U 360 U 360 U 360 U 420    104-06-2 U 380 U 360 U 360 U 360 U 420    104-06-2 U 380 U 360 U 360 U 360 U 420    104-06-2 U 380 U 360 U 360 U 360 U 420    104-06-4 U 380 U 360 U 360 U 360 U 360 U 420    104-06-4 U 380 U 360 U 360 U 360 U 360 U 360 U 420    104-06-4 U 380 U 360 U 360 U 360 U 360 U 360 U 360 U 420    104-06-4 U 380 U 360 U	2,4,5-Trichlorophenol	95-95-4 U		17000 U			2000 U	
100   100	2,4,6 - Trichlorophenol	88-06-2 U	300 0	3500 U	350 U	300 T	<b>7</b> 50 C	
100   100	2,4 - Dichlorophenol	120-83-2 U		3500 U	350 U	<b>360</b>	750	> :
11-14-2   1900	2,4 - Dimethylphenoi	105-67-9 0	0 088	3300 0	0000	086	420 0	
alene 966-20-2 U 390 U 350 U 350 U 350 U 420 420 420 420 420 420 420 420 420 420	2,4 - Drinkropheror	121-14-2 11	390	3500 1	1 986	0 000	7000	
air-Sig - 7         1         390 U         3500 U         350 U         360 U         420           air-Sig - 8         1         390 U         3500 U         350 U         360 U         420           air-Sig - 8         1         390 U         3500 U         350 U         360 U         420           88 - 74 - 4         1         390 U         3500 U         1700 U         1700 U         420           Red 75 - 5         1         390 U         17000 U         1700 U         1700 U         420           matchine         91 - 92 U         790 U         7000 U         7000 U         700 U         420           phenyl ether         101 - 55 - 3U         390 U         7000 U         1700 U         1700 U         420           phenyl ether         101 - 55 - 3U         390 U         3500 U         350 U         360 U         420           phenyl ether         7005 - 72 - 9U         390 U         350 U         350 U         360 U         420           phenyl ether         7005 - 72 - 9U         390 U         350 U         350 U         360 U         420           ethylphenol         56 - 50 - 7         390 U         350 U         350 U         360 U <th< td=""><td>2.6 - Dinimototuene</td><td>606-20-2 U</td><td>) 06E</td><td>3200 U</td><td>7 056</td><td>7 098</td><td></td><td></td></th<>	2.6 - Dinimototuene	606-20-2 U	) 06E	3200 U	7 056	7 098		
s55 - 57 - 6         U         390 U         3500 U         350 U         350 U         420           s8 - 57 - 6         U         390 U         350 U         350 U         360 U         420           s8 - 74 - 4         U         390 U         1700 U         1700 U         1600 U         420           s8 - 74 - 4         U         1900 U         1700 U         1700 U         1600 U         420           s8 - 74 - 4         U         1900 U         1700 U         1700 U         1600 U         420           mathylphenol         53 - 52 U         1900 U         1700 U         1700 U         1800 U         420           methylphenol         53 - 52 U         1900 U         1700 U         1700 U         1800 U         420           methylphenol         53 - 52 U         390 U         3500 U         350 U         360 U         420           phenyl ether         106 - 47 - 8 U         390 U         3500 U         350 U         360 U         420           phenyl ether         100 - 12 - 3U         390 U         3500 U         350 U         360 U         420           phenyl ether         100 - 16 U         1900 U         1700 U         1700 U         1700 U	2 - Chloronaphthalene	91-58-7 U	390 0	3200 U	3000	3000	1 02 <b>4</b>	
alene         91-57-6 U         390 U         350 U         350 U         360 U         420           85-48-7 U         1900 U         17000 U         1700 U         1700 U         1800 U         420           86-75-4 U         1900 U         1700 U         1700 U         1700 U         730 U         420           88-75-1 U         1900 U         790 U         7000 U         730 U         730 U         730 U         420           methylphenol         534-52-1 U         1900 U         1700 U         1700 U         1700 U         730 U         420           phenyl ether         101-55-3 U         1900 U         17000 U         1700 U         1800 U         420           phenyl ether         106-47-8 U         1900 U         1700 U         1500 U         420         420           phenyl ether         106-47-8 U         1900 U         3500 U         350 U         360 U         420           phenyl ether         106-47-8 U         1900 U         1700 U         350 U         360 U         420           100-01-6 U         1900 U         1700 U         1700 U         1700 U         1700 U         420           100-12-7 U         1900 U         1700 U         350 U <td>2-Chlorophenol</td> <td>95-57-8 U</td> <td>380 C</td> <td>3500 U</td> <td>350 U</td> <td>OSE</td> <td>420 C</td> <td></td>	2-Chlorophenol	95-57-8 U	380 C	3500 U	350 U	OSE	420 C	
85-48-7 U         390 U         35 · U         350 U         420           88-74-4 U         1900 U         17000 U         1700 U         1800 U         200           88-74-4 U         1900 U         17000 U         1700 U         1800 U         200           Reffice         91-94-1 U         790 U         7000 U         700 U         700 U         200           nzidine         91-94-1 U         790 U         7000 U         700 U         700 U         200           methylphenol         534-52-1 U         1900 U         17000 U         1700 U         1800 U         200           phenyl ether         101-55-3 U         390 U         350 U         350 U         360 U         420           phenyl ether         106-47-8 U         390 U         3500 U         350 U         360 U         420           phenyl ether         106-44-5 U         390 U         3500 U         350 U         360 U         420           100-01-6 U         1900 UJ         17000 UJ         1700 UJ         1700 UJ         1800 UJ         420           200-2-7 U         1900 UJ         17000 UJ         1700 UJ         350 UJ         360 UJ         420           200-2-7 U         1900 UJ </td <td>2 - Methytnaphthalene</td> <td>91-57-6 U</td> <td>390 U</td> <td>3200 U</td> <td>350 U</td> <td>360 U</td> <td>420 U</td> <td></td>	2 - Methytnaphthalene	91-57-6 U	390 U	3200 U	350 U	360 U	420 U	
88-74-4         U         1900 U         17000 U         17000 U         17000 U         2000           nzidine         91-94-1         U         790 U         7900 U         730 U         420           Permit plant         99-94-1         17000 U         17000 U         17000 U         17000 U         2000           methylphenol         534-52-1         1900 U         17000 U         17000 U         17000 U         17000 U         2000           phenyl ether         101-55-3 U         390 U         3500 U         350 U         360 U         420           phenyl ether         7005-72-3U         390 U         3500 U         350 U         360 U         420           phenyl ether         7005-72-3U         390 U         3500 U         350 U         360 U         420           phenyl ether         7005-72-3U         390 U         3500 U         350 U         360 U         420           ethylphenol         59-50-7         1900 U         17000 U         17000 U         1700 U         360 U         420           100-01-6 U         1900 U         17000 U         1700 U         360 U         420           208-96-8 U         390 U         350 U         360 U         360	2-Methytphenol	85-48-7 U	390 U	38° C	350 U	360 U	420 U	
88-75-5 U 390 U 350 U 350 U 360 U 420 91-94-1 U 790 U 17000 U 17000 U 1700 U 1 500 U 2000 91-94-1 U 1900 U 17000	2 – Nitroaniiine	88-74-4 U	1900 U	17000 U	1700 U	1800 U	2000 U	
91–94–1 U 730 U 7000 U 690 U 730 U 840  91–94–1 U 730 U 730 U 730 U 730 U 690 U 730 U 690 U 730	2-Nitrophenol	88-75-5 U	390 0	3200 U		360 U	420 C	
s96-08-2         U         1900 UJ         17000 UJ         1700 UJ         1700 UJ         1800 UJ         2000           -methylphenol         534-52-1 U         1900 U         17000 U         1700 U         1800 U         2000           -methylphenol         534-52-1 U         390 U         3500 U         350 U         420           -methylphenol         59-50-7 U         390 U         350 U         360 U         420           -methylphenol         59-50-7 U         390 U         350 U         360 U         420           -methylphenol         106-44-5 U         390 U         350 U         360 U         420	3,3' – Dichlorobenzidine	91-94-1	790 U	7000 U	O 069	730 U	940 U	
534-52-1 U     1900 U     17000 U     17000 U     17000 U     1700 U     1800 U     2500 U     2500 U     360 U     260 U <td< td=""><td>3 - Nitroaniine</td><td>88-08-5 N</td><td>1900 UJ</td><td>17000 UJ</td><td></td><td>1800 ()</td><td>2000 UJ</td><td></td></td<>	3 - Nitroaniine	88-08-5 N	1900 UJ	17000 UJ		1800 ()	2000 UJ	
101-53-3 U 390 U 3500 U 350 U 360 U	4,6 - Dinitro 2 - methylphenol	534-52-10						_
106-47-8 U     390 U     350 U     350 U     360 U       7065-72-5U     390 U     350 U     350 U     360 U       56-50-7 U     390 U     350 U     360 U     360 U       106-14-5 U     1900 U     17000 U     1700 U     1700 U     1800 U       100-07-7 U     1900 U     17000 U     1700 U     1800 U     200 U       206-96-8 U     390 U     350 U     360 U     360 U       120-12-7 U     390 U     350 U     360 U     360 U       65-85-0 U     1900 R     1700 R     1600 R     200 U	4 - Bromophenyl phenyl ether	101-55-3 U	D 06E	3500 U				
7005-72-50 390 U 390 U 390 U 390 U 390 U 390 U 390 U 390 U 390 U 390 U 390 U 390 U 390 U 390 U 390 U 1700 U 1700 U 1700 U 1700 U 390 U	t - Chiorognitine	106-47-8 U	0.066	3200 0	320			70 OSC
390 U 390 U	4 - Chlorophenyiphenyi emer	DG-2/-000/	0 066	0000	3000	0 000		_
106-14-5 U 1900 UJ 1700 U 1700 R 1800 U 1700 R 1800 R 1800 U 1700 U 1700 U 1700 U 1700 U 1800 U 1700 U 1700 U 1800 U 1700 U 1700 U 1800 U 1700 U 1800 U 1700 U 1800 U 1700 U 1700 U 1800 U 1700 R 1900 R 1700 R 1900 R 1700 R 1800 R 1700 R	4 - Chloro - 3 - memyiphenol	) \-06-86	0 065	0.000	350	0 000		_
100-01-6 U 1900 UJ 1700 UJ 1700 H 1800 H 2 100-02-7 U 1900 U 1700 U 1700 U 1600 U 2 100-02-7 U 1900 U 190	4 Methyphenol	106-44-50	0.068	3300 0				
100-02-7 U 1900 U 1700 U 1700 U 1800 U 208-32-9 U 390 U 3500 U 350 U 360		D 5-10-001	LD 9081	1,000	H 00/1	1800 H	2000 H	
83-32-9 U 390 U 3500 U 350 U 360 U 3	4 - Nitrophenol	100-02-7 U	1900 0	17000 U	1700 U	1800 U	2000 U	
208-96-8 U 390 U 3500 U 350 U 360 U 360 U 360 U 360 U 360 U 350 U 360 U 360 U 360 U 360 U 360 U 360 U 360 U 360 U 360 U 360 U 1900 R 1700 R 1800 R 2	Acenaphthene	83-35-9 U	390 C	3500 U	350 U	360 U	750 €	
120-12-7 U 390 U 3500 U 3500 U 360 U	Acenaphthylene	208-96-8 U	3000	3200 0	350 U	360 U	420 U	2 00 C
1500 H 1500 H 1700 H 1600 H 1600 H	Anthracene	120-12-7 U	000	3500 U	320 0	360	420 N	⊃ <b>96</b>
	Benzolo acid	65-65-0 0 0 0 0	1900 R	17000 R	1700 R	1800 R	2000 R	2 0 C

			API	APPENDIX I			4
			RESULTS O	RESULTS OF SVOAS IN SOIL 161AREFG SITE INVESTIGATION			
			PHOEN	PHOENIX, ARIZONA			
Sample Number.	<b>S8</b>	SB1-02-0-2-01	SB1-03-0-2-01	SB1-03-20-22-01	SB1-03-35-37-01	SB1-03-35-37-02	SB1-03-56-57-01
Sample Date:	ż	04-Feb-91	21-Jen-91	21-Jen-91	21-Jan-91	21-Jan-91	22-Jen-91
Matric		SOF	<b>SO</b>	SOF	30s	80f.	205.50
Leb Number:	รี :	C102058-01A	Cloizh-usa	C101211-14A	C101211-USA	C101211-0/A	CIOIZIO-UIA
Prep Date:	Ģ.	10-Feb-91	23-Jan-91	29-Jen-91	20 - 20 - 20 - 20 - 20 - 20 - 20 - 20 -		
Chaire:	ė	ua/Ka		na/ka			D Non
COMPOUND	CAS						
Benzo (a) pyrene	50-32-8	360 U	360 ∪	340 U	340 C	340 C	7007
Benzo (b) fluorenthene	206-99-2	360 €	09€	340 U	340 U	340 U	430 €
Benzo(g,h,i)perylene	191-24-2	360 ∪	⊃ 09E	340 U	340 U	⊃ <b>0</b> ¥6	430 €
Benzo(k)fluoranthene	207-08-9		09€	340 U	340 C	340 C	430 €
Benzyl alcohol	100-51-6		360 U	340 U	340 C	340 C	430 U
bis(2-Chloroethoxy)methane	111-91-1	380	⊃ : 360 3	340	340	360	⊃ : • • • • • • • • • • • • • • • • • • •
Die(Z-Chloroethyr)ether	111-44-4			0.045			000
Dis(2-Chlorolaopropy) effer	108-80-1		000	246.0			
Dital hound obtained	95-88-7	) = G	=======================================	200	25.5		7301
Chysens	218-01-9		2 09E	340 C	340 🗅	340 C	28
Dibenzofuran	132-64-9		360	340 U	340 €	340 €	430 U
Dibenzo (a,h) anthracene	53-70-3		380 U	340 U	340 €	340 U	430 €
Diethyl phthelate	84-66-2		09€	340 ∪	340 U	340 U	130 €
Dimethyl phthalate	131-11-3	360 ∪	360 ∪	340 U	340 C	340 C	430 C
Di-n-butyl phthalate	84-74-2		360	340 U	340	340	430 0
Di-n-octyl phthalate	117-84-0	⊃ : 380 8	⊃ :: 696 986	200		200	9
Florence	200-44-0 86-73-7		11098	35	340		
Hexachlorobenzene	118-74-1		360	340 €	340 €	340 C	430 U
Hexachlorobutadlene	87-68-3		709€	340 U	340 €	340 C	430 U
Hexachlorocyclopentadene	77-47-4	360 ∪	380 ∩	340 C	340 €	340 U	430 €
Hexachloroethene	67-72-1	360 ∪	709€	340 ∪	340 U	340 €	430 €
Indeno(1,2,3-cd)pyrene	193-39-5	3 <b>80</b> C	3 <b>90</b> C	340 U	340 €	340 C	430 €
leophorone	78-59-1	360 ∪	360 ∪	340 U	340 U	340 C	70€7
Naphthalone	91-20-3	360 ∪	⊃: 096	340 U	340 C	340 C	730.0
Nitrobenzene	86-96-3	⊃ : 096	⊃ : 360	340	200	360	730
N-Nitrosodiphenylemine	9-06-96	0.000	) (200 (300 (300 (300 (300 (300 (300 (300	0.00			200
N-Nitroso-d-n-propylamine	621-64-7	000					
Pentachiorophenol	87-96-5	1780 280 280 280 280 280 280 280 280 280 2	1,000	1600	1660	1600	0812
	00-01-00 40-06-0	200	98	200	2 5	2 5	
Priemo.	2-6-60		288	197	3		
2	3	3	3				

FESULTS OF SINGLA IN SOUL				707	1 710110				
Part County Alta				RESULTS O	F SVOAS IN SOIL				_
Number: 281-08-56-57-02 SB1-04-0-2-01 SB1-04-10-12-01 SB1-04-0-57-02 SB1-04-0-2-01 SB1-04-0-57-02 SB1-04-0-2-01 SB1-04-0-57-02 SB1-04-0-2-01 SB1-04-0-57-02 SB1-04-0-2-01 SB1-04-0-57-02 SB1-04-0-2-01 SB1-04-0-57-02 SB1-04-0-1 SB1-04-0-2-01				PHOEN	IIX, ARIZONA				
District	Semble Number		SB1-03-55-57-02	SB1-04-0-2-01	SB1-04-10-12-01	SB1-04-56-57-01	S81-04-55-57-02	881-06-0-1/01	•
The control of the co	Sample Date:		22~Jan-91	21-Jan-91	21 - Jan - 91	21-Jan-91	21-Jen-91	10-Jen-91	
their         COMPOLAND         CONTRITI-CRA	Metric		SOF	S		SOI	SO	<b>108</b>	
table         SE-Lam-S1         25-Lam-S1         25	Lab Number:		C101215-02A	C101211-01A	C101211-02A	C101211-03A	C101211-04A	C101197-01A	
COMPOUND         CAS         Unfide         29-Lan-91         28-Lan-91         28-Lan-9	Prep Date:		29-Jan-91	25-Jen-91	25-Jan-91	25-Jan-91	25-Jen-91	25-Jen-91	
COMPOUND         CAS         ug/kg         ug/kg <t< th=""><th>Analysis Date:</th><th></th><th>29-Jan-91</th><th>29-Jan-91</th><th>29-Jan-91</th><th>29-Jan-91</th><th>29-Jan-91</th><th>26-Jan-91</th><th></th></t<>	Analysis Date:		29-Jan-91	29-Jan-91	29-Jan-91	29-Jan-91	29-Jan-91	26-Jan-91	
COMPOUND         CAS         NAME         NAMERIA         NAMBRER         SSOOL         3500 U         420 U           NAME         NAMERIA         NAMBRER         3500 U         3500 U         350 U         420 U           A) Districtantene         205-28-B-2         390 U         3500 U         350 U         420 U           A) Districtantene         205-28-B-2         390 U         3500 U         350 U         420 U           A) Districtantene         207-28-B-2         390 U         350 U         350 U         420 U           A) Districtantene         207-28-B-2         390 U         350 U         350 U         420 U           A) Districtantene         207-28-B-2         390 U         350 U         350 U         420 U           A) Non-size propyly after         117-44-I         390 U         350 U         350 U         350 U         420 U           A) Non-size propyly after         117-44-I         390 U         350 U         350 U         350 U         420 U           A) Non-size propyly after         117-44-I         390 U         350 U         350 U         420 U           A) Non-size propyly after         117-4-I         390 U         350 U         350 U         350 U         420 U	Chita:		ug/Kg	ug/kg	ug/kg	ug/kg	ug/kg	payon.	- 1
NAME         NAMER labels         SSOU	COMPOUND	CAS							
Second Processing Second Sec	NAME	NUMBER							
Second Colorada		50-32-8		3500 U	350 U	∩ 09E	420 U	7.096	
Accordance   131–124-2   380 U   380 U   380 U   420 U	Benzo(b)fluoranthene	205-99-2		3500 U	350 U	J 096	420 U	2006	
March   Marc	Benzo (g,h,i) perylene	191-24-2	~	3500 U	350 U	J 096	<b>7</b> 0€	<b>300</b> 0	
Machine comparison	Benzo (k) fluoranthene	207-08-8		3500 U	350 ∪	⊃ 09E	<b>702</b> ₹	7 09K	
Althorestrocyment   111-91-1   390 U   3500 U   350 U   360 U   420 U	Benzyl alcohol	100-51-6		3500 ∪	350 U	09€	120 C	00€	
Althoresthylpieter (111–44-4 380 U 3500 U 35	bis(2-Chloroethoxy)methans	111-91-1	J 086 L	3500 U	350 U	09€	420 C	<b>200</b> 0	
Light politions of the first state of the first	bis(2-Chloroethyl)ether	111-44-4	390 U	3500 U	350 U	360 ∪	024	300€	
thy find this birth state (17–81–7) 380 U 350 U 350 U 350 U 420 U 350 U 350 U 350 U 420 U 350 U 350 U 350 U 350 U 420 U 350 U	bis(2-Chloroleopropyf) ether	108-60-1	U 390 U	3500 U	350 U	09€	420 ∪	D 000	
Name         152-64-9         390 U         350 U         350 U         420 U           Turan         1218-01-9         390 U         350 U         350 U         420 U         420 U           Alturan         122-64-9         390 U         350 U         350 U         360 U         420 U           Alturan         132-64-9         390 U         350 U         350 U         360 U         420 U           prithales         142-64-2         390 U         350 U         360 U         420 U         420 U           prithales         141-11-3         390 U         350 U         360 U         420 U         420 U           Annyl prithales         141-11-4         390 U         350 U         360 U         420 U         420 U           Annyl prithales         141-24-0         390 U         350 U         360 U         420 U         420 U         420 U           Annyl prithales         141-24-1         390 U         350 U         360 U         420 U         420 U           Annyl prithales         141-24-1         390 U         350 U         360 U         420 U         420 U           Annyl prithales         141-34-2         390 U         350 U         360 U         420 U	bla(2-Ethythexyf) phthalete	117-81-7	390 U	3500 U	350 U	360 ∪	D 024	200€	
the control of particular in the control of particu	Butyl benzyl phthalete	85-68-7		3500 ∪	350 U	∩ 09E	420 U	709€	
Actual Institution         132–64–9         390 U         3500 U         350 U         420 U           All Jamminsone         53 – 70–3         390 U         3500 U         350 U         420 U         420 U           Prinhalate         64–66–2         390 U         3500 U         350 U         420 U         420 U           Alphhalate         64–74–2         390 U         3500 U         350 U         420 U         420 U           Annyl prihalate         64–74–2         390 U         3500 U         350 U         420 U         420 U           Annyl prihalate         66–73–7         390 U         3500 U         350 U         420 U         420 U           Annyl prihalate         66–73–7         390 U         3500 U         350 U         420 U         420 U           Annyl prihalate         66–73–7         390 U         3500 U         350 U         420 U         420 U           Annyl prihalate         66–73–7         390 U         350 U         350 U         420 U         420 U           Annyl prihalate         66–73–7         390 U         350 U         350 U         420 U         420 U           Annyl prihalate         67–70         390 U         350 U         350 U <t< th=""><th>Chrysens</th><th>218-01-8</th><th></th><th>3500 U</th><th>350 U</th><th>J 096</th><th>420 U</th><th><b>360 ∪</b></th><th></th></t<>	Chrysens	218-01-8		3500 U	350 U	J 096	420 U	<b>360 ∪</b>	
(a) typical printed in the control of a control	Dibenzofuran	132-64-8		3€00 U	320 U	360 U	420 ∪	∩ 0 <b>9</b> €	
prinhales         84–66-2         380 U         350 U         350 U         420 U           prinhales         131–11-3         390 U         350 U         350 U         420 U           Af phinales         131–11-2         390 U         350 U         360 U         420 U           oxyl phinales         117–84-0         390 U         350 U         360 U         420 U           drain         84–74-2         390 U         350 U         360 U         420 U           drain         86-74-7         390 U         350 U         360 U         420 U           drobustant         116-74-1         390 U         350 U         360 U         420 U           lorobustant         17-47-4         390 U         350 U         360 U         420 U           loropharame         67-72-1         390 U         350 U         360 U         420 U           loropharame         67-72-1         390 U         350 U         360 U         420 U           loropharame         67-72-1         390 U         350 U         360 U         420 U           loropharame         67-72-1         390 U         350 U         350 U         420 U           loropharame         67-72-1	Dibenzo (a,h) anthracene	53-70-3		3500 U	320 U	700€	∩ 0 <b>2)</b>	⊃ <b>08</b> 0	
Interpretation         131–11–3         390 U         350 U         350 U         420 U           Intrinate         14–74–2         390 U         350 U         350 U         420 U           Cutyl printation         11–14–2         390 U         350 U         350 U         420 U           denoment         206 – 44–0         390 U         350 U         350 U         420 U           denoment         206 – 44–1         390 U         350 U         350 U         420 U           denoment         118–74–1         390 U         350 U         350 U         420 U           denomentation         77–47–4         390 U         350 U         350 U         420 U           loresthame         67–72–1         390 U         350 U         350 U         420 U           loresthame         77–24         390 U         350 U         350 U         420 U           loresthame         87–25         390 U         350 U         350 U         420 U           loresthame         87–26         390 U         350 U         350 U         420 U           loresthame         87–26         390 U         350 U         350 U         420 U           loresthame         87–26 <t< th=""><th>Diethyl phthalate</th><th>84-66-2</th><th></th><th>3500 U</th><th>350 U</th><th>7 09€</th><th><b>780</b> €</th><th>200c</th><th></th></t<>	Diethyl phthalate	84-66-2		3500 U	350 U	7 09€	<b>780</b> €	200c	
butylighthalate         84–74–2         390 U         350 U         350 U         420 U           cortylighthalate         117–84–0         390 U         350 U         350 U         420 U           dering         267 U         350 U         350 U         350 U         420 U           e         724–1         390 U         350 U         350 U         420 U           loroburdere         118–74–1         390 U         350 U         350 U         420 U           loroburdere         67-72–1         390 U         350 U         350 U         420 U           lorocythardere         67-72–1         390 U         350 U         350 U         420 U           lorocythardere         67-72–1         390 U         350 U         350 U         420 U           lorocythardere         67-72–1         390 U         350 U         350 U         420 U           1(12,3–cd)pyrene         183–36–5         390 U         350 U         350 U         420 U           11,23–cd)pyrene         183–36–5         390 U         350 U         350 U         420 U           12,3–cd)pyrene         86–30–6         390 U         350 U         350 U         350 U           12,3–6         390	Dimethyl phthalate	131-11-8		3500 U	350 U	⊃ 096 8	7024	∩ 08¢	
cotyl phthalate         117–84–0         360 U         350 U         360 U         420 U           different         205 4         350 U         350 U         360 U         420 U           e         867 3-7         360 U         350 U         360 U         420 U           lorobutadene         118-74-1         360 U         350 U         360 U         420 U           lorobutadene         77-72-1         360 U         350 U         360 U         420 U           lorocyclopertadene         77-72-1         360 U         350 U         360 U         420 U           lorocyclopertadene         77-72-1         360 U         350 U         360 U         420 U           lorocyclopertadene         77-72-1         360 U         350 U         360 U         420 U           11.2.3-cd.pyrene         183-39-5         360 U         360 U         420 U         420 U           none         11.2.3-cd.pyrene         86-10-30-8         360 U         360 U         420 U           sand         360 U         360 U         360 U         420 U           sand         360 U         360 U         420 U           sand         360 U         360 U         420 U	Di-n-butyl phthalate	84-74-2		3500 ∪	350 U	360 U	420 U	000 000	
Times         206-44-0         380 U         350 U         420 U           One between         86-73-7         380 U         350 U         350 U         420 U           Incorputation         16-73-7         390 U         350 U         350 U         420 U           Incorputation         67-68-3         390 U         350 U         350 U         420 U           Incorputation         67-72-1         390 U         350 U         350 U         420 U           Incorputation         67-72-1         390 U         350 U         350 U         420 U           Incorputation         67-72-1         390 U         350 U         350 U         420 U           Incorputation         67-72-1         390 U         350 U         350 U         420 U           Incorputation         67-72-1         390 U         350 U         350 U         420 U           Incorputation         86-36-6         360 U         350 U         360 U         420 U           above         86-37-6         360 U         350 U         360 U         420 U           above         86-30-6         360 U         360 U         420 U           above         86-30-6         360 U         360 U	Di-n-octyf phthalate	117-84-(		3000	388	D 380	200	2 2000 2000 2000 2000 2000 2000 2000 2	
Second Second	Fluoranthene	208-44-	_	3200 0	380		200	000	
Second Control Contr	Fluorene	86-73-7		3200 0	0000	D 3000	D 25	⊃ : 000	
Second Second	Hexachioroberzene	118-/4-	_	0.0056	0.000	000	200		
1/2,3-cd/pyrene	Hexachiorobutadene	21-00-12		2000	0 000	200	3 5		
1/2,3-cd/pyrene		100					2 2 2 2	3 :	
Total         78–59–1         360 U         350 U         420 U           alene         91–20–3         360 U         360 U         420 U           nzene         98–95–3         360 U         360 U         420 U           seciphenylamine         85–30–6         380 U         360 U         420 U           sac-di-n-propylamine         821–64–7         380 U         350 U         420 U           shrophenol         87–88–5         1900 U         1700 U         1700 U         1800 U         420 U           threne         85–01–8         380 U         350 U         360 U         420 U           threne         85–01–8         380 U         350 U         350 U         420 U           108–95–2         380 U         350 U         360 U         420 U           129–00-0         380 U         350 U         360 U         420 U	Indeport 2 3-contracts	193-30-8		3600 1			2 5		
alene         91-20-3         390 U         350 U         350 U         420 U           nzene         96-95-3         390 U         350 U         350 U         420 U           seciphenylamine         86-30-6         390 U         350 U         350 U         420 U           seciphenylamine         621-64-7         390 U         350 U         350 U         420 U           shreet         87-86-5         1900 U         1700 U         1700 U         1800 U         420 U           shreet         85-01-8         390 U         350 U         350 U         350 U         420 U           shreet         108-95-2         390 U         350 U         350 U         350 U         420 U           129-00-0         390 U         350 U         350 U         350 U         420 U	September 12 Capping	78-50-1	11 088	3500 1	380		1007		
rizerie         96–95–3         390 U         350 U         350 U         420 U           acdiphenylamine         86–30–6         390 U         350 U         350 U         420 U           acd norphenol         87–86–7         390 U         350 U         350 U         420 U           ithrene         85–01–8         390 U         350 U         350 U         420 U           ithrene         108–95–2         390 U         350 U         350 U         420 U           129–00-0         390 U         350 U         350 U         420 U	Nachthena	91-20-3	200€	3500 U	380	709€	202	1000 1000 1000 1000 1000 1000 1000 10	
accliphenylamine         86–30–6         390 U         350 U         350 U         420 U           acc-di-n-propylamine         621–64–7         390 U         350 U         350 U         420 U           alcrophenol         87–86–5         1900 U         1700 U         1700 U         1800 U         2000 U           althrene         85–01–8         390 U         3500 U         350 U         350 U         420 U           althrene         106–95–2         390 U         3500 U         350 U         350 U         420 U           althrene         129–00–0         390 U         3500 U         350 U         350 U         420 U	Nitrobenzene	86-96-3	0000 0000	3600 U	350 U	D 096	2024	7000	
aso-dim-propylamine         621–64–7         390 U         3500 U         350 U         420 U         1           ribrophenol         87–86–5         1900 U         17000 U         1700 U         1800 U         2000 U         1           ribrare         85–01–8         390 U         3500 U         350 U         360 U         420 U           ribrare         108–95–2         390 U         3500 U         350 U         360 U         420 U           129–00–0         390 U         3500 U         350 U         360 U         420 U	N-Nitrosodiphenylamine	86-30-6		3500 U	350 U	O 000	420 C	∩ 000 000	
Norophenol 87–88–5 1900 U 17000 U 1600 U 2000 U 1 65–01–8 390 U 3500 U 350 U 350 U 420 U 108–95–2 390 U 3500 U 350 U 420 U 129–00–0 390 U 3500 U 420 U	N-Nitroso-d-n-propylemine	621-64-1		3200 ∩	320 U	360 U	420 U	D 000	
#hrene 85-01-8 390 U 3500 U 350 U 350 U 420 U 108-95-2 390 U 3500 U 350 U 360 U 420 U 129-00-0 390 U 3500 U 350 U 360 U 420 U	Pentachlorophenol	87-86-5	•	17000 U	1700 U	1600 U	2000 ∩	1700 L	
108–95–2 390 J 3500 J 350 J 360 J 420 J 420 J 129–00-0 390 J 420 J	Phenenthrene	85-01-8		3200 C	360 U	⊃ <b>09</b> 6	- <b>28</b>	300E	
129-00-0 360 J 350 J 350 J 360 J 420 J	Phenol	108-86-		3200 ∩	350 ∪	∩ <b>09</b> 6	⊃ 02 <b>4</b>	∩ 00¢	
	Pyrene	129-00-(		3500 U	350 U	∩ 09€	420 U	360 ∪	

			APP RESULTS O 161AREFG SII PHOEN	APPENDIX L RESULTS OF SVOAS IN SOIL 161AREFG SITE INVESTIGATION PHOENIX ARIZONA				
Sample Number:	83	5.22-01-0-2-01	SB2-01-55-57-01	SB2-02-0-2-01	SB2-02-10-12-01	SB2-02-70-72-01	SB2-04-0-2-01	_
Sample Date:	8	29-Jan-91	29-Jen-91	22-Jan-91	22-Jan-91	22-Jen-91	22-Jen-91	_
Matric		<b>8</b>	ଟ୍ଟି	ଞ	SOF	<b>₩</b>	305	_
Lab Number:	ວັ	C101317-01A	C101317-02A	C101215-04A	C101215-06A	C101215-10A	C101215-11A	-
Prep Date:	8	06-Feb-91	08-Feb-91	29-Jan-91	29-Jen-91	29-Jen-91	01-Feb-91	
Analysis Date:	43	13-Feb-91	13-Feb-91	29-Jan-91	29-Jen-91	30-Jen-91	05-Feb-91	
Units:		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	-
COMPOUND	CAS							
NAME	NUMBER							
1.2.4-Trichlorobenzene	120-82-1	360 €	000€	360 U	350 U	370 U	360 U	-
1,2-Dichlorobenzene	96-50-1	360 ∪	360 U	380 U	350 U	370 U	360 ∪	-
1,3-Dichlorobenzene	541-73-1	300	360 U	360	350 U	370 U	7008	***
1.4-Dichlorobenzene	106-46-7	360	D 096	380	350	370 U	) OB6	
2.4.5-Trichlorophenol	95-95-4	1700 U	1700 U	1900 U	1700 U	1800 U	J 0081	
2.4.6-Trichlorophenol	88-08-2	360 0	D 098	380 U	D 056	3200	7086	_
2.4-Dichlorophenol	120-83-2	360	7086	3000	7056	3700	)	
24-Dimethylohenol	105-67-9	300	7098	380	350	370 U	11 000%	
2.4 - Dinitrophenol	51-28-5	1700 U	1700 T	1900 U	17001	1800 C	1000 1000	_
2.4 Dinitrototuene	121-14-2	300	D 096	380	350 U	370 U	7000	
2.6 - Dinitrotoluene	606-20-2	700€	360 U	380 U	350 U	370 ∪	3600	_
2-Chloronaphthalene	91-58-7	360 U	360 ∪	00€	350 U	370 U	380 U	
2Chlorophenol	95~57~8	360 U	∩ 09E	380 ∩	350 U	370 U	300 €	_
2 - Methylnaphthalene	91-57-6	360 €	360 U	380 U	350 U	370 U	300 €	-
2-Methylphenol	95-48-7	360 ∪	360 U	380 C	350 U	370 U	380 U	-
2-Nitroaniline	88-74-4	1700 U	1700 U	1900 U	1700 U	1800 U	1800 U	_
2-Nitrophenol	88-75-5	360 ∪	000€	380 ∩	350 U	370 U	380 ∪	_
3,3'-Dichlorobenzidine	91-94-1	780 7	720 U	202	∩ 069	740 U	760 C	_
3-Nitroeniine	89-08-2	130C	73007	1900	1700 U	1800 0	1800 U	
4,6 - Dinitro - 2 - methylphenol	53452-1	1700 U	0.00%	1900 U	1700 U	1800 0	1800 0	_
4 - Bromophenyi phenyi ether	101-55-3		0.000	3000	0.00 0.00 0.00	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		_
4-Chioroanime	106-47-8	3 :	3: 3: 3: 3: 3: 3: 3: 3: 3: 3: 3: 3: 3: 3	0.000	0.000		0.000	_
4 - Chlorophenylphenyl ether	7005-72-5		0.000	0000	0.000		) (20)	_
4-Chore-3-memyphenol	/DGBG		0.000	0.000	0.000	000		
4-Methylphenol	106-44-5			0.000	D 088	3700		_
4-Nitroanime	100-01-6	H 00/	8	0.0061	1700	1800 0		
4-Nifrophenol	100-02-7	17001	1780	1900 U	1,000	1800	1 000	_
Acenaphrene	83-32-8	000		0.000		300	0000	_
Acenaphthylene	208-96-8	D :		0.000	380	0.00	380	
Anthracene	120-12-7	0.000				D 026	000	_
Benzoic scid	65-85-0	200	1000	1900	1700 U	1800	1800 H	-
Benzo (a) anthracene	56-55-3	O 096	000	380 0	320 (1	370 U	∩ <b>006</b>	
								**

			APP	APPENDIX L			9
			RESULTS OF 161AREFG SIT PHOENI	RESULTS OF SVOAS IN SOIL 161AREFG SITE INVESTIGATION PHOENIX, ARIZONA			
Sample Number:	88	\$82-04-15-17-01	SB2-04-55-57-01	SB2-04-70-72-01	MB2-02-0-2-01	MB2-02-30-32-01	MB2-02-70-72-01
Sample Date:	81	16- <b>na</b> r-22	23-Jan-91	23-Jan-91	06-Feb-91	26-Feb-91	06-Feb-49
Madrix	Č	5		ברי היים היים היים היים היים היים היים הי	150 S	ָבָּרָה בּרָה	
Lab Number:	5	C101215-03A	C101230-01A	C101230-02A	CIUZOES-01A	C10Z089-03A	CIGGOS -OW
Prep Date:	5	01-Feb-91	29-Jan-91	29-Jan-91	11-Mar-91	11-Mar-91	11-Mar-91
Analysis Date:	8	05-Feb-91	30-Jan-91	30 - Jan - 91	12-Mar-91	12-Mar-91	12-Mer-91
Units:		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	DWG0
	Ö						
NAME	NUMBER						
1 2 4- Trichlombenzene	120-82-1	3401	37011	3601	380.8	340 8	a Cas
1 2- Dichlombenzene	5-50-1	340	37011	3601	E COS		0.00
1 3 Chichentense	541-77-1	25.5	3201	1000	G 088	345	
1,5 Composition	100-100+	25	2002	388			
				2001			
Z,4,3- Inchiorophenol		2000		300	F 000		E 000
2,4,6-1 richtorophenol	2-90-99	2 3 3 3	300	0.095			H 000
2,4 - Dichlorophenol	120-63-2	0 0	370 0	0.098			000
2,4 - Dimethylphenol	105-67-9	340	370 U	0.096			K 000
2,4-Dinitrophenol	51-28-5	1600 C	1800 U	1700 U			1900 R
2,4-Dinitrotoluene	121-14-2	340 C	370 U	360 U			360 F
2,6-Dinitrotoluene	606-20-2	340 C	370 U	360 ∪			360 H
2-Chloronaphthalene	91-58-7	340 ∪	370 U	360 U	380 R		360.8
2-Chlorophenol	82-27-8	340 €	370 U	360 U	380 R	340 R	360 R
2-Methylnaphthalene	91-57-6	340 -	370 U	360 U	380 R	340 R	360 N
2-Methylphenol	86-48-7	340 ∪	370 U	360 U	380 R	340 R	360.8
2-Nitroeniline	88-74-4	1600 U	1800 U	1700 U	1800 R		1800 F
2-Nitrophenol	88-75-5	340 C	370 U	360 U	380 R	340 R	360 R
3,3'Dichlorobenzidine	91-94-1	670 U	740 U	720 U	760 R		730 A
3-Nitroeniline	89-09-5	1600 ∪	1800 U	1700 L	1800 R		1900 F
4,6-Dinitro-2-methylphenol	534-52-1	1600 U	1800 U	1700 U	1800 R		
4-Bromophenyl phenyl ether	101~55-3	340 C	370 U	360 U	380 R		360 A
4-Chloroaniine	106-47-8	340 C	370 U	360 U			3608
4-Chlorophemylphenyl ether	7005-72-5	340 C	370 U	360 U			360 R
4-Chloro-3-methylphenol	29-20-7	340 €	370 U	00€			360 R
4Methylphenol	106445	340 C	370 U	360 ∪			360 A
4-Nitroeniline	100-01-6	1600 R	1800 U	1700 U	1800 R		1900 R
4-Nitrophenol	100-02-7	1600 U	1800 U	1700 U	1800 R		1900 R
Acenaphthene	83-32-9	<b>ઝ</b>	370 U	360 U			360 R
Acenaphthylene	208-96-8	340 €	370 ∪	00€		340 R	360.5
Anthracene	120-12-7	340 C	370 U	∩ 09E	380 R	340 R	E 008
Benzoic acid	65-85-0	1600 R	1800 U	1700 U			1900 R
Benzo(a) anthracene	56-55-3	340 ∪	370 U	360 U	380 R	340 R	360 R

			APP	APPENDIX L			11
			RESULTS OF 161AREFG SIT PHOENI	RESULTS OF SVOAS IN SOIL 161AREFG SITE INVESTIGATION PHOENIX, ARIZONA			
Sample Number	688	SB2-01-0-2-01	SB2-01-55-57-01	SB0-0-01	SR2-02-10-12-01	88-10-71-10-10-10-10-10-10-10-10-10-10-10-10-10	SR2-04-0-2-01
Semina Date:	8	20ten01	20len01	22 - Iso-01	20 - Jan - 94	22. lan-01	22
Matthe.		5	50		5	5	5
red Mimber	C1013	C101317-01A	C101317-02A	C101215-04A	C101215-06A	C101215-10A	C101215-11A
Pres Date:	6-80 F-80	08-Feb-91	06-Feb-91	29lan91	28-1 <b>4</b> -81	29-Jan-91	01 - Feb-91
Analysis Date:	13-61	13-Feb-91	13-Feb-91	29-Jan-91	26-Tel92	30-Jen-91	06-Feb-91
Unita:		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
COMPOUND	CAS						
NAME	NCMBER						
Benzo(a) pyrene	50-32-8	360 U	360 ∪	380 ∩	360 ∪	370 C	∩ 0 <del>8</del> €
Benzo(b)fluoranthene	205-99-2	360 U	360 ∪	⊃086 80	360 ∪	370 U	380 ∩
Benzo(g,h,i) perylene	191-24-2	360 ∪	∩ 09E	380 ∩	350 U	370 C	200€
Benzo (k) fluorenthene	8-90-202	360 ∪	⊃ 09E	380 ∩	320 ∩	320 C	200€
Benzyl alcohol	100-51-6	∩ 09E	7 09E	380 ∩	320 ∩	30c	380 (1)
bis(2-Chloroethoxy)methene	111-91-1	096	J 096	380 ∩	320 U	370 C	360 ∪
bis(2-Chloroethyf)ether	111-44-4	360 R	360 A	380 ∩	320 ∩	370 U	380 ∪
bis(2-Chloroisopropyf) ether	108-60-1	O 000	360 U	380 ∩	320 ∩	370 U	380 €
bis(2-Ethylhexyl) phthalate	117-81-7	∩ 09E	360 U	3 <b>90</b> C	350 ∪	370 U	380 €
Butyl benzyl phthelete	85-68-7	360 ∪	360 U	380 ∩	350 U	370 C	380 ∩
Chrysene	218-01-9	360 ∪	∩ 09E	380 ∩	350 U	370 🗆	380 €
Dibenzofuran	132-64-9	360 ∪	⊃ : 360 :	380 ∩	350 U	370	380 U
Dibenzo (a,h) anthracene	53-70-3	D 09€	⊃ : 98:	D 380	350 U	370	380 0
Diethyl phthalate	84-66-2	360 U	368		28	200	3000
Omethyl phthelate	131-11-3	) 200 200 200 200 200 200 200 200 200 20	0.000		0.000		
	2-1/4-2	0 000	0.000	) )	3000	200	
	0 10 00	200	200	200	0.000	0.0%	
	26-73-7	1000	360	1000	350	300	
Hexachlorobenzene	118-74-1	360 U	700€	3008	) ∩ ose	370 U	700€
Hexachlorobutaclene	87-68-3	360 €	J 096	380	350 U	370 ∪	380 ∩
Hexachlorocyclopentadiene	77-47-4	260 ∪	J 096	380 ∩	350 ∪	370 U	300 €
Hexachloroethane	67-72-1	360 U	∩ 096	380 ∩	320 ∪	370 U	300 €
Indeno(1,2,3-cd)pyrene	193-39-5	360 ∪	360 U	380 ∩	320 ∩	370 U	380 €
leophorone	78-59-1	360 ∪	360 U	360 €	360 ∪	370 🗆	300 €
Naphthalene	91-20-3	⊃ 096 360 C	D 096	⊃ 380 380	350 U	370 (	380 (
Nitrobenzene	88-98 -98	⊃ 096 3	0 00 C	380 ∪	320 0	370 🗆	380 0
N-Nitrosodiphenylamine	96-30-6	∩ 09c	380	⊃: 380 C	350 U	370 U	380 C
N-Nitroso-di-n-propylamine	621-64-7	_ 980 980	0.00	380 0	380	370 U	380 ∩
Pentachlorophenol	87-86-5	1700 €	1700 U	1900 D	1700 U	1900 F	1800 U
Phenanthrane	82-01-8	_ 360 ⊆	360 0	000	350 U	370 U	380 U
Phenot	108-95-2	⊃: 360	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	⊃ : 380 :	350 U	370 U	380 U
Pyrane	129-00-0	360 ∪	⊃ 986	⊃ 980 8	320 ∩	330	380 (

			APP	APPENDIX L			Ş
			RESULTS OF 161AREFG SIT <sub>1</sub> PHOENI)	RESULTS OF SVOAS IN SOIL 161AREFG SITE INVESTIGATION PHOENIX, ARIZONA			
Semple Number	o c	SB2-04-15-17-01	SB2-04-55-57-01	SB2-04-70-72-01	MB2-02-0-2-01	MB2-02-30-32-01	MB2-02-70-72-01
Semple Usin: Metric	×						
Lab Number:	O	C101215-03A	C101230-01A	C101230-02A	C102089-01A	C102089-03A	C102089-04A
Prep Date:	0	01-Feb-91	29-Jen-91	29-Jen-91	11-Mar-91	11-Mar-91	11-Mer-91
Analysis Date:	6	05-Feb-91	30-Jan-91	30-Jan-91	12-Mar-91	12-Mer-91	12-Mar-01
Unite:		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
GNITOMPOS	840						
NAME	NUMBER						
Benzo(a) pyrene	50-32-8	340 C	370 U	360 ∪	£8.4	340 R	3603
Benzo (b) fluoranthene	205-99-2	340 C	370 U	360 ∪	380 R	340 R	300 A
Benzo(g,h,i)penylene	191-24-2	340 U	370 U	360 U	380 R	340 R	360 R
Benzo (k) fluoranthene	207-08-9	340 E	370 U	360 U	47.5		300 R
Benzyl alcohol	100-51-6	340 U	370 U	360 U	380 FI		300 R
bis(2-Chloroethoxy)methene	111-91-1	340 □	370 U	360 U			300 R
bis(2-Chloroethyl)ether	111-44-4	340 🗆	370 ∪	∩ 09E	380 R	340 R	360 R
bis(2-Chloroisopropyi) either	108-60-1	340	370 U	360 U		340 FI	360 R
bis(2-Ethyfhexyl) phthalate	117-81-7	340	370 U	3000	380 H		78
Butyl benzyl phithelete	85-68-7	240 20 20 20 20 20 20 20 20 20 20 20 20 20	370 U	2000	380 H		360 1
Chrysene	218-01-9	340	320	0.000			2008 1008
Dibenzoturan	132-64-9	2 2 2 2 2 2	3,00	0.000	H 000	2 ( )	
Croenzo (a, n) antiracene	20/-20	2 5	3/00	0.000			x 6
	7-00-40		0.078	0.000			8
	131-11-3	2 2 2	370.0	- 109°		E 0	
Dina - ochd phihalata	117-84-0	2 9	37015	1 98			
Fluoranthene	208-44-0	340	370 U	380 0	380	360 E	
Fluorene	86-73-7	340 €	370 U	360 ∪			300 8
Hexachlorobenzene	118-74-1	340 ∪	370 U	360 U	380 R		360 R
Hexachiorobutaciene	87-68-3	340 U	370 U	360 U	380 R		300 3
Hexachlorocyclopentadiene	77-47-4	3 <b>7</b> 0 €	370 U	360 U	380 R		360 A
Hexachloroethane	67-72-1	0 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	370 U	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	380 R	340 R	360 F
Indeno(1,2,3-cd)pyrene	193-39-5	⊃ : 98:	370 U	360			E 000
leophorone	78-59-1	046	370 0		1 000 m		3000
Naphthalene	91-20-3	⊃ : • :	320	⊃ : 986	380	340 73	66 60 60 60 60 60 60 60 60 60 60 60 60 6
Nitrobenzene	26-26 26-26	0.000	3,000		T 088		300 H
N-Ntrosodphenylamine	96-30-6	) 0 0 0 0	300	3000	200	H 040	2008 2008 2008
N-Nitroso-G-n-propylemine	7-125		3000	0.000	200		
Pentachiorophenoi	6778	0.00	1900	0.000	H 000	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1900 H
Phonemurano	82-01-8	2 5	3/0/2	0.000	200		900
Phenoi	108-89-2		3/00	0.000	200		E 000
ryidie	0-00-621		00%	0.000	X 065	r 25	X 08

### SECULTS OF SYOAS IN SOIL    FIGHWESTIGATION   FIGHWESTIGATION				APPENDIX			2.5
PHOEMIX, ARIZONA   PHOEMIX, ARIZONA			P. P.	SULTS OF SVOA	S IN SOIL		
a busines:  24-Mar-91 24-Mar-91 24-Mar-92 24-Mar-91 24-			<b>A</b> 101	HEFG SITE INVE PHOENIX, ARIZ	ONA		
confection         24 – Mar – 91         24 – Mar – 91         24 – Mar – 91         25 – Mar – 91         25 – Mar – 91         25 – Mar – 91         25 – Mar – 91         26 – 92         26 – 92         26 – 92         26 – 92         26 – 92         26 – 92         26 – 92         26 – 92         26 – 92         26 – 92         26 – 92 </th <th>Sample Number:</th> <th>SBS</th> <th>3-01-0-11/2-01</th> <th>SB3-01-50-51 1/2</th> <th>-01 SB3-01-70-71 1/2-01</th> <th>SB3-03-0-1 1/2-01</th> <th>SB3-03-10-11 1/2-01</th>	Sample Number:	SBS	3-01-0-11/2-01	SB3-01-50-51 1/2	-01 SB3-01-70-71 1/2-01	SB3-03-0-1 1/2-01	SB3-03-10-11 1/2-01
SOIL   SOIL	Sample Date:	24.	-Mar-91	24 - Mar - 91	25-Mar-91		
COMPOUND CAS	Matrix	i	SOL	SOIL	SOF	SOL	SOIL
Sacration	Lab Number:	S	3220-03A	C103220-04A	C103220-11A	C103220-07A	C103220-08A
COMPOUND   CAS   March   Mar	Prep Date:	99	-Mar-91	30-Mar-91	30 - Mar 91	30-Mar-91	30 - Mar - 91
COMPOUND         CAS         ug/kg         ug/kg <t< th=""><th>Analysis Date:</th><th>83</th><th>- Apr 91</th><th>03-Apr-91</th><th>03-Apr-91</th><th>03-Apr-91</th><th>03-Apr-91</th></t<>	Analysis Date:	83	- Apr 91	03-Apr-91	03-Apr-91	03-Apr-91	03-Apr-91
ND CAS  NUMBER  NUMBER  S41-73-1  350 U  340 U  350 U  340 U  350 U  340 U  350 U  360	Units:		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
NUMBER  NUMBER  NUMBER  120-82-1 350 U 340 U 350 U 350 U 360 U 350 U 350 U 340 U 350	COMPOUND	CAS					
120-82-1 350 U 340 U 350 U 350 U 360 U 350 U 360 U 350 U 360 U 360 U 350 U 360 U 360 U 350 U 360 U 360 U 350 U 360	NAME	NUMBER					
95-50-1 350 U 340 U 350 U 106-46-7 350 U 340 U 350 U 106-46-7 350 U 340 U 350 U 106-46-7 350 U 340 U 350 U 1700 U 160 U 1700 U 1	1,2,4 - Trichlorobenzene	120-82-1	350 U	340 ∪	350 U	350 ∪	350 U
106-46-7 350 U 340 U 350 U 106-46-7 350 U 106-46-7 350 U 106-01 350 U 106-67-9 350 U 106-68-2 350 U 106-68-2 350 U 106-68-2 350 U 106-67-9 350 U 106-67-9 350 U 106-67-9 350 U 106-67-9 350 U 106-67-9 350 U 106-67-9 350 U 106-67-0 350 U 106-67-0 350 U 106-14-2 350 U 106-14-2 350 U 106-14-2 350 U 106-14-2 350 U 106-14-2 350 U 106-14-2 350 U 106-14-1 106-1	1,2-Dichlorobenzene	9550-1	350 U	340 ∪	350 U	350 U	350 U
106-46-7 350 U 350 U 1700 U 17	1,3-Dichlorobenzene	541-73-1	350 U	340 U	350 U	350 U	350 U
85-95-4 1700 U 1600 U 1700 U 1	1,4 - Dichlorobenzene	106-46-7	350 U	340 U	350 U	350 U	350 U
88-06-2 350U 340U 350U 350U 10-83-2 350U 340U 350U 350U 350U 350U 350U 350U 350U 35	2,4,5 - Trichlorophenol	95-95-4	1700 U	1600 U	1700 U	1700 U	1700 U
120-83-2 350 U 340 U 350 U 105-67-9 350 U 105-67-9 350 U 105-67-9 350 U 105-67-9 350 U 105-67-9 350 U 105-67-9 350 U 1700 U 1700 U 1700 U 1700 U 1700 U 1700 U 1700 U 1700 U 1700 U 150 U 1700	2,4,6 - Trichlorophenol	88-06-2	350 U	340 ∪	350 U	350 U	350 U
105-67-9 105-67-9 105-67-9 106-67-9 11-28-5 1700 U 11-14-2 1800 U 1700 U	2,4 - Dichlorophenol	120-83-2	350 U	340 U	350 U	350 U	350 U
51-28-5 1700 U 1600 U 1700 U 1700 U 1700 U 1700 U 121-14-2 350 U 340 U 350 U 106-47-8 350 U 340 U 350 U 1700 U 100-02-7 1700 U 1600 U 1700  2,4 - Dimethylphenol	105-67-9	350 U	340 ∪	350 U	350 U	350 U	
121-14-2 350U 340U 350U 350U 360-20-2 350U 340U 350U 350U 340U 350U 350U 340U 350U 350U 350U 350U 350U 350U 350U 35	2,4 - Dinitrophenol	51-28-5	1700 U	1600 ∪	1700 U	1700 U	1700 U
606–20–2 350 U 340 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U 340 U 350	2,4-Dinitrotoluene	121-14-2	350 U	340 U	350 U	350 U	350 U
91-56-7 350 U 340 U 350	2,6-Dinitrotoluene	606-20-2	350 U	340 U	350 U	350 ∪	350 U
95-57-8 350 U 340 U 350 U 350 U 340 U 350 U 340 U 350 U 340 U 350 U 340 U 350 U	2-Chloronaphthalene	91-58-7	350 U	340 U	350 U	350 ∪	350 U
91-57-6 350 U 340 U 350 U 350 U 350 U 350 U 350 U 340 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U 1700 U 1700 U 340 U 350 U 350 U 350 U 350 U 106-47-8 350 U 340 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U 106-44-5 350 U 340 U 350 U 1700 U	2-Chlorophenol	95-57-8	350 U	340 ∪	350 U	350 U	350 U
95-48-7 350 U 340 U 350 U 88-74-4 1700 U 1600 U 1700 U 1700 U 88-75-5 350 U 340 U 350 U 350 U 350 U 340 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U 106-47-8 350 U 340 U 350 U 1700 U	2-Methyln aphtholone	91-57-6	350 ∪	340 U	350 U	350 U	350 U
88-74-4 1700 U 1600 U 1700 U 340 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U 340 U 1700 U 1700 U 1600 U 1700 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U 100-01-6 1700 U 1700	2-Methylphenol	95-48-7	350 U	340 ∩	350 U	350 U	350 U
88-75-5 350 U 340 U 350 U 31-94-1 690 U 680 U 700 U 99-09-2 1700 R 1600 U 1700 U 1700 U 1600 U 340 U 350 U 1700 U	2-Ntrogalline	88-74-4	1700 U	1600 U	1700 U	1700 U	1700 U
91-94-1 690 U 660 U 700 U 99-09-2 1700 R 1600 R 1700 R 199-09-2 1700 R 1600 U 1700 U 1600 U 34-52-1 1700 U 350 U 350 U 106-47-8 350 U 340 U 350 U 106-44-5 350 U 340 U 350 U 100-01-6 1700 U 1600 U 1700 U 100-02-7 1700 U 1600 U 1700 U 120-12-7 350 U 340 U 350 U 120-12-7 350 U 340 U 350 U 120-12-7 350 U 340 U 350 U 120-12-7 350 U 340 U 350 U 1500 U 1700 U 1700 U 1700 U	2-Nitrophenol	88-75-5	350 U	340 C	350 U	350 U	350 ∪
99-09-2 1700 R 1600 R 1700 R 1700 R 1700 R 1700 U 1	3,3'Dichlorobenzidine	91-94-1	∩ 069	089 0	700 U	O 069	700 U
methylphenol 534–52–1 1700 U 1600 U 1700 U 350 U 100–01–6 1700 U 1700 U 1700 U 1700 U 1700 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U 120–12–7 350 U 350 U 350 U 1500 U 1700 U 1500 U 1500 U 1700 U	3-Nitro aniline	89-09-5	1700 R	1600 R	1700 R	1700 R	1700 FI
phenyl ether   101–55–3   350 U   340 U   350 U   100 -01 -6   1700 U   1700 U   1700 U   1700 U   350 U   3	4,6-Dinitro-2-methylphenol	534-52-1	1700 U	1600 U	1700 U	1700 U	1700 U
106-47-8 350 U 340 U 350 U 350 U 360 U 350 U 100-01-6 1700 U 1700 U 1700 U 1700 U 1700 U 350 U 1700 U 1700 U 1700 U 1700 U 1700 U 1700 U	4-Bromophenyl phenyl ether	101-55-3	320 U	340 U	350 U	350 U	350 U
phenyl ether 7005–72–E 350 U 340 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U 100–01 – 6 1700 U 1700 U 1700 U 1700 U 350 U 1700 U 1700 U 1700 U 1700 U 1700 U	4 - Chloroanline	106-47-8	320 ∩	340 U	350 U	350 ∪	350 U
106-44-5 350 U 340 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U 100-02-7 1700 U 1700 U 1700 U 1700 U 350 U 1700 U 1700 U 1700 U 1700 U 1700 U	4 - Chlorophenylphenyl ether	7005-72-5	350 U	340 €	350 U	350 U	350 U
106-44-5 350U 340U 350U 100-01-6 1700U 1700U 1700U 1700U 1700U 1700U 1700U 1700U 1700U 1700U 1700U 1700U 350U 350U 350U 350U 350U 350U 350U 120-12-7 350U 350U 1700U 1700U 1700U	4-Chloro-3-methylphenol	59-50-7	350 U	340 U	350 U	350 U	350 U
100-01-6 1700 U 1600 U 1700 U 120-12-7 350 U 340 U 350 U 150-12-7 350 U 1600 U 1700 U 1700 U 1700 U	4 - Methylphenol	106-44-5	350 U	340 U	350 U	350 U	350 U
100-02-7 1700 U 1600 U 1700 U 350 U	4 - Nitro aniline	100-01-6	1700 U	1600 U	1700 U	1700 ∪	1700 U
83-32-9 350U 340U 350U 208-96-8 350U 340U 350U 120-12-7 350U 340U 350U 65-85-0 1700U 1600U	4 - Narophenol	100-02-7	1700 U	1600 U	1700 U	1700 U	1700 U
208-96-8 350 J 340 J 350 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U 150	Acenaphthene	83-32-9	350 ∪	340 U	350 U	350 U	350 U
120-12-7 350 U 350 U 350 U 65-85-0 1700 U 1600 U 1700 U	Acenaphthylene	208-96-8	350 U	340 ∪	350 U	350 U	350 U
65-85-0 1700U 1600U 1700U	Anthracene	120-12-7	350 U	340 U	350 U	350 ∪	350 ∪
	Benzoic acid	65-85-0	1700 U	1600 U	1700 U	1700 U	38 J
Berzo(e) anthracene 56-55-3 350 U 350 U 350 U 350 U	Benzo(a) anthracene	58-55-3	350 U	340 U	350 U	350 U	350 U

			ADDEADON			
			RESULTS OF SVOAS IN SOIL	SOIL		
		2	IBIAHETU SITE INVESTIGATION PHOENIX, ARIZONA	A STON		
Sample Number:		183-03-20-21 1/2	SB3-03-20-21 1/2-01 SB3-04-0-1 1/2-01	SB3-04-5-6 1/2-01	583-04-15-161/2-(	SB3-04-15-16 1/2-01 MB3-01-0-1 1/2-01
Semole Date.		25 - Mer - 91	24-Mer-01	24 - Mar - 91	24 - Mer .: 91	22-Mer-01
Zetr.	•	SOS.		JOS	SON	108
The state of the s		C103201-00A	C103220-05A	C103220-06A	C103220-134	C103212_014
Pren Date:		30-Mar-91	30~Mar-91	30-Mar-91	30-Mar-91	26 - Mer-91
Analysis Date:	, -	03-Apr-91	03-Apr-91	03 - Apr - 91	03-Apr-91	02Aor91
Units:		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
COMPOUND	CAS					
NAME	NUMBER					
1,2,4 - Trichlorobenzene	120-82-1	340 ∪	340 ∪	350 U	340 ∪	280 ∪
1,2-Dichlorobenzene	95-50-1	340 U	340 ∪	350 U	340 U	380 ∩
1,3-Dichlorobenzene	541-73-1	340 U	340 U	350 U	340 ∪	390 ∩
1,4 - Dichlorobenzene	106-46-7	340 ∪	340 U	350 U	340 C	390 C
2,4,5-Trichlorophenol	95-85-4	1600 U	1700 U	1700 U	1700 U	1900 C
2,4,6 - Trichlorophenol	88-06-2	340 U	340 ∪	350 U	340 ∪	290 €
2,4-Dichlorophenol	120-83-2	340 ∪	340 €	350 U	340 ∪	O 066
2,4-Dimethylphenol	105-67-9	340 U	340 U	350 U	340 ∪	200 €
2,4 - Dinitrophenol	51-28-5	1600 U	1700 U	1700 U	1700 U	1900 UJ
2,4 - Dinitrotoluene	121-14-2	340 U	340 ∪	350 ∪	340 ∪	380 C
2,6-Dinitrotoluene	606-20-2	340 €	340 U	350 U	340 ∪	380 ∩
2-Chioronaphthalene	91~58-7	340 €	340 U	350 U	340 ∪	200 €
2-Chlorophenol	95~57-8	340 U	340 ∪	350 U	340 ∪	⊃ 066
2 - Methyln aphthalene	91-57-6	340 U	340 -	350 U	340 C	⊃ 06E
2-Methylphenol	95-48-7	340 U	340 U	380 0	340 C	2008
2 - Nitro aniline	88-74-4	D 0091	0.0071	0.0071	084	0.008
2-Nitrophenol	88-75-5	340 U	040 0.040	320 0	340 □	0000
3,3' - Dichlorobenzidine	1-36-18	0089	0 069			0.007
G - Maroaniline	2-80-88 83 83	1 000	1202t	8 5	28 E	
4- Brown or broad other	101-155-13	3401	346		3 5	
4-Chloroantine	106-47-8	340 [	340 U	350 U	340 U	3000
4 - Chlorophenylphenyl ether	7005-72-5	340 U	340 U	350 U	340 U	7 068
4 - Chloro - 3 - methylphenol	59-50-7	340 U	340 U	350 ∪	340 U	D 066
4-Methylphenol	106-44-5	340 ∪	340 ∪	350 U	340 €	200 €
4 - Nitrognilline	100-01-6	1600 U	1700 U	1700 U	1700 U	1900 UJ
4 - Nkrophenol	100-02-7	1600 U	1700 U	1700 U	1700 U	1900 C
Acenaphthene	83-32-9	340 U	340 €	320 ∩	340 ∪	D 066
Acenaphthylene	208-96-8	340 ∪	340 ∪	350 ∪	340 ∪	380 C
Anthracene	120-12-7	340 ∪	340 €	350 ∪	340 ∪	380 0
Benzoic acid	65-85-0	1600 U	1700 U	1700 U	1700 U	1900 U
Benzo (a) anthracene	56-55-3	340 ∪	340 ∪	350 U	340 U	390 ∪

		₹	APPENDIX L			15
		RESULTS (	RESULTS OF SVOAS IN SOIL	₹		
		PHOE	PHOENIX, ARIZONA			
Semple Number:	2	33-01-50-51 1/2	-01MB3-01-60-611	MB3-01-50-51 1/2-01MB3-01-60-61 1/2-01MB3-02-0-1 1/2-01	MB3-02-5-61/2-01	5
Sample Date:	22	22-Mar-91	22-Mer-91	23-Mar-91		
Matrix:		SOL	SOIL	SOIL	SOIL	
Lab Number:	2	C103212-02A	C103212-03A	C103220-01A	C103220-02A	
Prep Date:	<b>58</b>	26-Mar-91	26-Mar-91	30 - Mar - 91	30 - Mar - 91	
Analysis Date:	5	01-Apr-91	01 - Apr - 91		02-Apr-91	
Units:		ug/Kg	ug/Kg	ug/Kg	ug/Kg	
COMPOUND	CAS					
ZAME	NUMBER					
1,2,4 - Trichlorobenzene	120-82-1	380 U	360 ∪	350 ∪	340 ∪	
1,2-Dichlorobenzene	95-50-1	380 C	360 U	350 ∪	340 C	
1,3 - Dichlorobenzene	541-73-1	380 ∪	360 U	350 ∪	340 U	
1,4 - Dichlorobenzene	106-46-7	380 ∪	360 U	350 U	340 U	•
2,4,5 - Trichlorophenol	95-95-4	1900 U	1800 U	1700 U	1600 U	
2.4.6 - Trichlorophenol	88-06-2	380 U	360 ∪	350 ∪	340 U	
2.4 - Dichlorophenol	120-83-2	380 U	∩ 09€	350 ∪	340 ∪	
2.4 - Dimethylphenol	105-67-9	380 U	3000	J 056	340 C	
2.4 - Dinitrophenol	51-28-5	1900 UJ	1800 UJ	1700 U	1600 U	
2,4-Dinitrotoluene	121-14-2	380 U	360 ∪	350 U	340 U	
2,6-Dinitrotoluene	606-20-2	380 U	360 U	350 ∪	340 ∪	
2-Chloronaphthalene	91-58-7	380 U	360 U	350 U	340 U	
2-Chlorophenol	95-57-8	380 U	360 U	350 U	340 €	-:
2 - Methyln aphthalone	91-57-6	380 U	360 ∪	350 U	340 ∪	٠
2-Methylphenol	95-48-7	380 U	360 U	350 U	340 ∪	-
2-Nitroaniiline	88-74-4	1900 U	1800 U	1700 U	1600 U	
2-Ntrophenol	88-75-5	380 U	360 U	350 U	340 €	_
3,3'-Dichlorobenzidine	91-94-18	770 U	730 U	710 UJ	1600 UJ	
a-Nitroaniline	88-08-5	1900 UJ	1800 UJ	1700 U	1600 U	
4,6-Dinitro - 2 - methylphenol	534-52-1	1900 U	1800 U	1700 U	1600 U	
4-Bromophenyl phenyl ether	101-55-3	380 U	360 ∪	350 U	340 €	
4 - Chloroeniine	106-47-8	380 0	360 U	350 UJ	340 UJ	
4-Chlorophenylphenyl ether	7005-72-5	380 U	360 U	320 ∪	340 €	
4-Chloro-3-methylphenol	29-20-7	380 U	360 U	380 U	340 C	
4-Methylphenol	106-44-5	380 ∩	360 ∪	380 ∪	340 ∪	
4-Natoeniline	100-01-6	1900 UJ	1800 UJ	1700 U	1600 U	
4 - Ntrophenol	100-05-7	1900 U	1800 U	1700 U	1600 U	
Acenephthene	83-32-8	380 U	360 U	350 U	340 €	-
Acenephthylene	208-96-8	380 U	360 U	350 ∪	340 U	
Anthrecene	120-12-7	380 U	360 U	350 ∪	340 ∪	
Berzoic acid	65-65-0	1900 U	1800 U	1700 U	1600 U	
Benzo(a) anthracene	56-55-3	380 ∪	360 ∪	350 ∪	340 U	
			· · · · · · · · · · · · · · · · · ·			

			ADDEMNIY			
-		RE	RESULTS OF SVOAS IN SOIL	IN SOIL		
		161A	161AREFG SITE INVESTIGATION PHOENIX ARIZONA	TIGATION		
Sample Number:		SB3-01-0-11/2-01	SB3-01-50-51 1/2	-01 SB3-01-70-71 1/	SB3-01-50-51 1/2-01 SB3-01-70-71 1/2-01 SB3-03-0-1 1/2-01	SB3-03-10-11 1/2-01
Sample Date:		24-Mar-91	24-Mar-91	25-Mar-91	25-Mar-91	25-Mar-91
Matrix:		SOIL	SOIL	SOIL	SOIL	SOIL
Lab Number:		C103220-03A	C103220-04A	C103220-11A	C103220-07A	C103220-08A
Prep Date:		30-Mar-91	30Mar-91	30 - Mar-91	30-Mar-91	30-Mar-91
Analysis Date:		03-Apr-91	03-Apr-91	03-Apr-91	03-Apr-91	03-Apr-91
Units:		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
COMPOUND	CAS					
NAME	NUMBER					
Benzo(a) pyrene	50-32-8	350 ∪	340 €	350 U	320 ∩	350 ∪
Benzo(b) fluoranthene	205-99-2	350 ∪	340 €	350 ∪	320 U	350 ∪
Benzo(g.h.)perylene	191-24-2	320 ∩	340 U	320 U	350 U	350 ∪
Benzo(k) fluore: thene	207-08-8	350 U	340 ∪	350 U	320 ∪	320 ∩
Benzyl alcohol	100-51-6	320 C	340 ∪	350 U	320 U	350 U
bis (2 - Chloroethoxy) methane	111-91-1	350 U	340 C	350 ∪	350 ∪	350 U
bis(2-Chloroethyf) ether	111-44-4	320 U	340 U	350 U	320 C	350 U
bis(2-Chloroleopropy) ether	108-60-1	350 U	340 ∪	350 U	350 U	350 U
bis (2 - Ethylhexyl) phthalate	117-81-7	320 U	340 €	320 U	350 U	350 ∪
Butyl benzyl phthalate	85-68-7	350 U	340 ∪	350 U	320 ∪	350 ∪
Chrysene	218-01-9	350 U	340 €	350 U	350 U	56 J
Dibenzofuran	132-64-9	350 U	340 U	350 U	350 U	350 ∪
Dibenzo(a,h) anthracene	53-70-3	350 U	340 U	350 U	350 U	380 ∪
Diethyl phthalate	84-66-2	320 €	340 C	350 U	380 ∪	350 ∪
Dimethyl phthalate	131-11-3	320 ∪	340 €	350 U	320 ∩	320 ∩
Di-n-butyl phthalate	84-74-2	380 €	340 C	320 €	350 U	350 U
Di-n-octyl phthalate	117-84-0	380 ∪	340 □	350 U	320 U	350 ∪
Fluoranthene	206-44-0	320 ∩	340 €	350 U	350 U	Ր 26
Fluorene	86-73-7	350 U	340 €	350 U	350 U	350 ∪
Hexachiorobenzene	118-74-1	350 ∪	340 €	350 U	350 U	350 U
Hexachlorobutadiene	87-68-3	350 U	340 ∪	350 U	350 U	380 ∪
Hexachlorocyclopentadiene	77-47-4	350 U	340 ∪	350 U	320 ∪	350 ∪
Hexachloroethane	67-72-1	350 ∪	340 C	350 U	320 ∩	350 ∪
Indeno(1,2,3-cd)pyrene	193-39-5	350 ∪	340 C	350 U	350 U	320 ∩
Isophorone	78-59-1	350 U	340 ∪	350 U	350 U	350 U
Naphthalene	91-20-3	350 U	340 ∪	350 U	350 U	350 U
Nitrobenzene	98-95-3	320 ∩	340 €	320 U	350 U	350 ∪
N-Nitrosodiphenylamine	86-30-6	350 U	340 ∪	350 ∪	350 U	350 U
N-Nitroso-di-n-propylamine	621-64-7	320 C	340 U	350 U	350 ∪	350 U
Pentachlorophenol	87-86-5	1700 U	1600 U	1700 U	1700 U	1700 U
Phenanthrene	85-01-8	350 ∪	340 ∪	350 U	⊃ 0\$E	7 .
Phenol	108-95-2	320 ∩	340 C	350 U	350 U	380 ∪
Pyrene	129-00-0	350 U	340 ∪	350 U	350 U	110 J

		R 161	APPENDIX L RESULTS OF SVOAS IN SOIL 161AREFG SITE INVESTIGATION PHOENIX, ARIZONA	I SOIL GATION A		21
Sample Number:		3B3-03-20-21 1/2	SB3-03-20-21 1/2-01 SB3-04-0-1 1/2-01	SB3-04-5-61/2-01	SB3-04-15-16 1/2-	SB3-04-15-16 1/2-01 MB3-01-0-1 1/2-01
Sample Date:		25-Mar-91	24-Mar-91	24-Mar-91	24-Mar-91	22-Mar-91
Matrix:		SOIL	SOIL	SOIL	SOIL	SOIL
Lab Number:	•	C103220-09A	C103220-05A	C103220-06A	C103220-13A	C103212-01A
Prep Date:	••	30-Mar-91	30-Mar-91	30-Mar-91	30-Mar-91	26-Mar-91
Analysis Date:		03-Apr-91	03-Apr-91	03-Apr-91	03Apr91	02-Apr-91
Units:		ng/Kg	ug/Kg	ng/Kg	ug/Kg	ng/Kg
COMPOUND	CAS					
NAME	NCMBER			1		
Benzo(a) pyrene	50-35-8	340 U	340 U	350 U	340 ∪	066
Benzo(b)fluoranthene	205-99-2	340 U	340 U	350 ∪	340 U	380 ∩
Benzo(g,h,i) perylene	191-24-2	340 U	340 U	350 U	340 ∪	380 ∩
Benzo(lýfluoranthene	207-08-9	340 U	340 U	320 U	340 ∪	380 ೧
Benzyl alcohol	100-51-6	340 U	340 U	350 ∪	340 ∪	390 U
bis (2 - Chloroethoxy) methane	1-10-111	340 U	340 U	350 U	340 □	390 ח
bis (2-Chloroethyl) ether	111-44-4	340 U	340 C	320 U	340 U	390 U
bis(2-Chloroisopropy) ether	108-60-1	340 U	340 U	350 U	340 ∪	390 U
bis (2 - Ethylhexyl) phthalate	117-81-7	340 U	340 U	350 U	340 U	J 068
Butyl benzyl phthalate	85-68-7	340 U	340 U	350 U	340 ∪	068
Chrysene	218-01-9	340 U	340 U	320 ∩	340 ∪	380 U
Dibenzofuran	132-64-9	340 U	340 U	350 ∪	340 ∪	380 ∩
Dibenzo(a,h) anthracene	53-70-3	340 U	340 U	350 U	340 ∪	380 N
Diethyl phthalate	84-66-2	3800	340 U	350 U	340 C	380 U
Dimethyl phthalate	131-11-3	340 ∪	340 U	350 U	340 U	380 C
Di-n-butyl phthalate	84-74-2	340 U	340 U	350 U	340 €	390 U
Di-n-octyl phthalate	117-84-0	340 C	340 U	350 U	340 C	∩ 06E
Fluoranthene	208-44-0	340 U	340 U	350 U	340 U	300 0
Fluorene	86-73-7	340 C	340 U	350 U	340 €	D 066
Hexachlorobenzene	118-74-1	340 €	340 C	350 U	340 -	390 n
Hexachlorobutadiene	87-68-3	340 C	340 U	350 U	340 C	300 C
Hexachlorocyclopentadiene	77-47-4	340 ∩	340 U	350 U	340 U	∩ 06E
Hexachloroethane	67-72-1	340 C	340 U	350 U	340 C	390 C
Indeno(1,2,3-cd)pyrene	193-39-5	340 ∩	340 U	350 U	340 ∪	380 ח
laophorone	78-59-1	340 U	340 U	350 U	340 €	380 N
Naphthalene	91-20-3	340 ∩	340 U	350 U	340 U	380 n
Nitrobenzene	98-95-3	340 ∪	340 U	350 ∪	340 €	380 ח
N-Nitrosodiphenylamine	86-30-6	340 ∪	340 U	350 U	340 €	390 C
N-Nitroso-di-n-propylamine	62164-7	340 ∪	340 U	350 U	340 €	08€
Pentachiorophenol	87-86-5	1600 U	1700 U	1700 U	1700 U	1900 U
Phenanthrene	82-01-8	340 ∪	340 U	350 ∪	340 €	380 ೧
Phenol	108-95-2	340 U	340 C	380	340 -	D 066
Pyrene	129-00-0	340 ∪	340 U	350 U	340 ∪	390 U

		₹	APPENDIX L		18
		RESULTS 161AREFG	RESULTS OF SVOAs IN SOIL 161AREFG SITE INVESTIGATION	N	
		РНОЕ	PHOENIX, ARIZONA		
Semple Number.		MB3-01-50-51 1/	2-01MB3-01-60-61	MB3-01-50-51 1/2-01MB3-01-60-61 1/2-01MB3-02-0-1 1/2-01	MB3-02-5-6 1/2-01
Sample Date:		22-Mar-91	22-Mar-91	23-Mar-91	
Matrix:		SOIL	SOIL	SOIL	<b>30</b> F
Lab Number:		C103212-02A	C103212-03A	C103220-01A	C103220-02A
Prep Date:		26-Mar-91	26 - Mer-91	30-Mar-91	30~Mar-91
Analysis Date:		01 -Apr-91	01-Apr-91		02-Apr-91
Units:		ug/Kg	ng/Kg	ug/Kg	ug/Kg
COMPOUND	CAS				
NAME	NUMBER				
Benzo(a) pyrene	50-32-8	380 U	360 ∪	350 U	340 U
Benzo(b)fluoranthene	205-99-2	380 C	J 098	350 U	340 ∪
Benzo(g.h.)perylene	191-24-2	380 U	09€	350 U	340 U
Benzo(k)fluoranthene	207-08-9	380 U	360 U	350 U	340 U
Benzyl alcohol	100-51-6	380 U	360 U	350 U	340 U
bis (2 - Chloroethoxy) methans	111-91-1	380 U	360 ∪	350 U	J 03-8
bis (2 - Chloroethyl) ether	111-44-4	380 U	∩ 09E	350 U	340 U
bis(2-Chloroisopropy) ether	108-60-1	380 U	⊃ 09E	350 U	340 U
bis (2 - Ethylhexyl) phthalate	117-81-7	380 U	∩ 09E	350 U	340 U
Butyf benzyl phthelete	85-68-7	380 U		350 U	340 U
Chrysene	218-01-9		360 ∪	350 U	340 ∪
Dibenzofuran	132-64-9	380 C		350 U	340 €
Dibenzo(a,h) anthracene	53-70-3	⊃ 380 3		350 U	340 ∪
Dethyl phthelate	84-66-2	380 €		350 ∪	340 €
Dimethy phthalate	131-11-3	380	360 U	350 U	340 U
Di-n-butyl phthalate	84-74-2	⊃ : 086	360 0	350 U	340 C
Circumstate	117-84-0	2000	0.000	3200	340 0
	206-44-0	000	0.098	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	340
Hexachbrobanzana	118-74-1	1 082		350	
Hexachiorobutadiene	87-68-3	380		320 0	3 5
Hexachlorocyclopentadiene	77-47-4	380 ∪	700€	350 U	340 C
Hexachloroethane	67-72-1	380 U	360 U	350 U	340 U
Indeno(1,2,3-cd)pyrene	193-39-5	380 ∪	360 U	350 U	340 C
leophorone	78-59-1	380 U	∩ 09E	350 U	340 U
Naphthalene	91-20-3	380 U	∩ 09E	350 U	340 U
Nitrobenzene	98-95-3	380 ∪	O 09E	350 U	340 ∪
N-Nitrosodiphenylamine	86-30-6	380 ∪	∩ 096 960	350 U	340 C
N-Nitroso-di-n-propylemine	621-64-7	360 ∪	360 U	350 U	340 U
Pentachlorophenol	87-86-5	1900 C	1800 U	1700 U	1600 U
Phenanthrene	65-01-6	D 000	⊃ :096 :096	350 U	340
neuo.	108-95-2	) 086 86	D 096	3320	340 C
ryione	0-00-62	0000	0 000	O Des	340 U

FIREDLIS OF SYONA IN SOUL				APPENDIX L	IDIX F				٤
SS4-01   SS4-02   SS4-04   SS4-06   S				RESULTS OF S 161AREFG SITE   PHOENIX, .	SVOAS IN SOIL INVESTIGATION ARIZONA				
SS4-01   SS4-02   SS4-02   SS4-03   SS4-04   SS01   SS0									
Section 1975   Sect	Semple Number.		SS4-01	SS4-02	884-03	SS4-04	SS4-05	SS4-06	
Closing—1918   Closing—198	Semple Date:	₩ ₩	-Feb-91	13-Feb-91	13-Feb-91	13-Feb-91	13-Feb-91	13-Feb-91	
Comparison	Metric		<b>80</b>	<b>₩</b>	<b>5</b> 8	<b>1</b> 000		<b>30</b> 6	
QAFFER-91         24-Feb-91         24-Feb-91 <t< th=""><th>Lab Number:</th><th><u>ទ</u></th><th>02192-01B</th><th>C102182-02B</th><th>C102192-03B</th><th>C102192-04B</th><th>C102192-05B</th><th>C102192-06B</th><th></th></t<>	Lab Number:	<u>ទ</u>	02192-01B	C102182-02B	C102192-03B	C102192-04B	C102192-05B	C102192-06B	
March   Marc	Prep Date:	2	-Feb-91	24-Feb-91	24-Feb-91	24-Feb-91	24-Feb-91	24-Feb-91	
UND CAS  NUMBER  1720-182-1 3550 3550 3560 3560 3560 3560 3560 3560	Analysis Date:	Ŕ	-Feb-91	26-Feb-91	16-Mar-91	26-Feb-91	20-Mar-91	19-Mar-91	
NAMERIA NAMERIA SEGU 360U 360U 360U 360U 360U 360U 360U 360	Units:		ug/Kg	ug/Kg	ug/Kg	co/Kg	ολ/gu	og/kgu	
E	COMPOUND	Ş							
nne         170-182-1         350 U         <	NAME	NUMBER							
86-56-1         350 U         <	12.4-Trichlorobenzene	120-82-1	350 U	350 U	360 U	350 U	03€	340 U	
6         561-73-1         350 U	1.2-Dichlorobenzene	95-50-1	360 C	∩ 05E	D 096	∩ 038 038	0000	000	
106-46-7         350 U	1.3-Dichlorobenzene	541-73-1	350 U	350 ∪	360 U	350 U	3€0 ∪	340 U	
oi 86–86–4 1700U 1	1.4-Dichlorobenzene	108-46-7	360 ∪	350 ∪	000€	350 U	350 ∪	340 U	
ol         88-06-2         350 U	2.4.5-Trichlorophenol	95-95-4	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	
150-82-2 350 U 350	2,4,6-Trichlorophenol	88-08-2	350 ∪	350 U	360 U	350 U	∩ 0 <b>5</b> £	340 U	
105-67-9         350 U         350 U         350 U         350 U           151-28-5         1700 U         1700 U         1700 U         1700 U         1700 U           151-14-2         350 U         350 U         350 U         350 U         350 U           86-20-2         350 U         350 U         350 U         350 U         350 U           86-57-8         350 U         350 U         350 U         350 U         350 U           86-78-4         1700 U         1700 U         1700 U         1700 U         1700 U           86-78-5         350 U         350 U         350 U         350 U         350 U         350 U           86-78-6         350 U         1700 U         1700 U         1700 U         1700 U         1700 U           86-78-7         350 U         350 U         350 U         350 U         350 U         350 U           86-78-8         350 U         350 U         1700 U         1700 U         1700 U         1700 U           Mylchenol         534-52-1         1700 U         1700 U         1700 U         1700 U         1700 U           Mylchenol         534-52-1         1700 U         1700 U         1700 U         1700 U         1	2.4 - Dichlorophenol	120-83-2	350 U	D 036	360 U	350 U	350 ∪	340 U	
51-28-5         1700 U	2,4-Dimethylphenol	105-67-9	350 ∪	300 U	360 U	350 U	350 U	340 U	
The control of the	2,4-Dinitrophenol	51-28-5	1700 U	1700 U	1700 U	1700 U	1700 C	1700 U	
606-20-2         350 U         350 U         350 U           87-57-8         350 U         350 U         350 U         350 U           87-57-8         350 U         350 U         350 U         350 U           87-57-8         350 U         350 U         350 U         350 U           88-73-5         350 U         350 U         350 U         350 U           88-73-5         350 U         350 U         350 U         350 U           88-73-5         350 U         350 U         350 U         350 U           88-73-5         350 U         350 U         350 U         350 U           88-73-5         350 U         350 U         350 U         350 U           88-73-5         350 U         350 U         350 U         350 U           91-84-1         400 U         1700 U         1700 U         1700 U           101-55-3         350 U         350 U         350 U         350 U           101-47-8         350 U         350 U         350 U         350 U           106-47-8         350 U         350 U         350 U         350 U           106-44-5         350 U         350 U         350 U         350 U <t< td=""><td>2,4-Dinitrotoluene</td><td>121-14-2</td><td>350 U</td><td>350 U</td><td>J 096</td><td>350 U</td><td>350 U</td><td>340 U</td><td></td></t<>	2,4-Dinitrotoluene	121-14-2	350 U	350 U	J 096	350 U	350 U	340 U	
91-58-7 350 U 350	2,6-Dinitrotoluene	606-20-2	350 U	360 ∪	360 U	360 ∪	350 ∪	340 U	
86–57–8 350 U 350	2-Chloronaphthalene	91-58-7	350 U	350 ∪	360 U	320 ∩	350 ∪	340 U	
## 177-6   350 U   350	2-Chlorophenol	95-57-8	350 U	350 U	000€	350 ∪	350 ∪	340 U	
85–46-7         350 U         350 U         350 U         350 U           86–74-4         1700 U         1700 U         1700 U         1700 U         1700 U           86–75-4         1700 U         1700 U         1700 U         1700 U         1700 U           86–76-5         1700 R         1700 H         1700 U         1700 U         1700 U           methylphenol         534–52-1         1700 H         1700 U         1700 U         1700 U           phenyl ether         106–47-8         350 U         350 U         360 U         350 U           phenyl ether         7005–72-5         350 U         350 U         360 U         350 U           phenyl ether         7005–72-5         350 U         350 U         350 U         350 U           ethylphenol         59–50-7         350 U         350 U         350 U         350 U         350 U           ethylphenol         100-01-6         1700 U         1700 U         1700 U         1700 U         1700 U           100-02-7         1700 U         1700 U         1700 U         1700 U         1700 U         1700 U           100-02-7         1700 U         1700 U         1700 U         1700 U         1700 U <t< td=""><td>2-Methytnaphthalene</td><td>91576</td><td>320 U</td><td>350 U</td><td>360 U</td><td>350 U</td><td>350 U</td><td>340 C</td><td></td></t<>	2-Methytnaphthalene	91576	320 U	350 U	360 U	350 U	350 U	340 C	
88-74-4         1700 U         1700 U         1700 U         1700 U           senzidre         98-75-5         350 U         350 U         350 U         350 U           senzidre         91-96-7         1700 H         1700 U         1700 U         1700 U           -methylphenol         534-52-1         1700 U         1700 U         1700 U         1700 U           ylphenyl ether         101-55-3         350 U         350 U         350 U         350 U           ylphenyl ether         106-47-8         350 U         350 U         350 U         350 U           ylphenyl ether         106-47-8         350 U         350 U         350 U         350 U           ylphenyl ether         106-47-8         350 U         350 U         350 U         350 U           ylphenyl ether         106-47-8         350 U         350 U         350 U         350 U           methylphenol         530 U         350 U         350 U         350 U         350 U           secure         106-47-8         350 U         350 U         350 U         350 U           secure         106-67-7         1700 U         1700 U         1700 U         1700 U           secure         206-86-8 <t< td=""><td>2-Methylphenol</td><td>95-48-7</td><td>320 C</td><td>350 U</td><td>360 U</td><td>350 U</td><td>350 ∪</td><td>340 ∪</td><td>••</td></t<>	2-Methylphenol	95-48-7	320 C	350 U	360 U	350 U	350 ∪	340 ∪	••
88–75–5         350 U         <	2-Nitroaniline	88-74-4	1700 U	1700 [	1700 U	1700 U	1700 U	1700 U	
91–94–1 680 U 1700 H 1700 H 1700 H 1700 H 1700 H 1700 H 1700 H 1700 H 1700 H 1700 H 1700 U 17	2-Nitrophenol	88-75-5	320	) ose	7 09E	) ose		340	
wearty/phenol         534-52-1         1700 H         1700 H <t< td=""><td>3,3' - Dichlorobenzidine</td><td>91-94-1</td><td>069</td><td>000</td><td>710 0</td><td>001</td><td>0000</td><td>0000</td><td></td></t<>	3,3' - Dichlorobenzidine	91-94-1	069	000	710 0	001	0000	0000	
534-52-1 1700 U	3-Nitroenitine	2-08-5	1700 H	1700 H	1700 H	H 8/1	17007	H 00/1	
106-47-6 350 U 1700 U 1700 U 1700 U 1700 U 1700 U 1700 U 1700 U 1700 U 1700 U 1700 U 350 U	4,6-Unitro-2-methyphenol	284-32-1	1,00%	0.00/1		000/1			
7005-72-5 350 U 350 U 360 U 1700 U 1700 U 1700 U 1700 U 1700 U 1700 U 1700 U 360 U	4 - Dromopranyi prenyi eurer	108-47-B					108	<b>3</b>	
59-50-7       350 U       360 U       360 U       360 U       360 U       1700 U       350 U       <	4-Chlomorhandinand after	7005-72-5	) ∩ 95 95	320	□ <b>09</b> 8	7058	1058	☐ <b>9</b>	
106-44-5     350 U     360 U     350 U     1700 U       100-01-6     1700 U     1700 U     1700 U     1700 U       100-02-7     1700 U     1700 U     1700 U     1700 U       83-32-9     350 U     350 U     350 U     350 U       120-12-7     350 U     350 U     350 U     350 U       65-85-0     1700 U     1700 U     42 J     1700 U       56-55-3     350 U     350 U     350 U	4-Chlore-3-methylphenol	29-50-7	350 U	) OS	1000	7 056	1058 350	1000	
100-01-6 1700 1700 1700 1700 1 100-02-7 1700 1700 1700 1700 1 83-32-9 350 350 350 350 350 350 350 1 120-12-7 350 350 350 350 350 350 1 65-85-0 1700 1 1700 1 42 1 1700 U 56-55-3 350 U 350 U 350 U 350 U	4 - Methylphenol	108-44-5	380 0	098 300	709€	⊃ 0 <b>9</b> 6	380	340	
100-02-7 1700 U 1700 U 1700 U 1700 U 1700 U 1700 U 1700 U 1700 U 1700 U 1700 U 1700 U 1700 U 1700 U 120-12-7 350 U 350 U 360 U 360 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U	4-Nitoeniine	100-01-6	1700 U	1700 U	1700 U	1700 U	1700 FI	17001	
83–32–9 350 350 360 350 360 350 360 350 0	4-Nitrophenol	100-02-7	1700 U	1700 U	1700 U	1700 U	1700 C	1700 U	
208-96-8 350 J 350 J 360 J 350 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U 350 U 42 J 1700 U 350 U 350 U 350 U 350 U	Acenaphthene	83-32-9	360 ∪	∩ 05E	00€	350 U	350 U	340 U	
120-12-7 350 J 350 J 360 J 350 U 350 U 350 U 350 U 65-85-0 1700 U 1700 U 42 J 1700 U 350 U 360 U 350 U	Acenaphthylene	208-86-8	320 ∩	360 ∪	360 ∩	200 €	360 U	340 €	
65-85-0 1700 U 1700 U 42.J 1700 U 56-55-3 350 U 350 U 350 U 350 U	Anthracene	120-12-7	320 €	360 ∪	360 U	200€	350 ∪	340 C	
0.000 0.000 0.000 0.000 0.000	Benzolo soid	65-85-0	1700 C	130CT	727	730 C	£ 25	1300	
	Benzo (a) anthracene	26-55-3	330 0	O 068	0.000:	O 063	U 000	340 0	7

			APPE	APPENDIX L			
			RESULTS OF { 161AREFG SITE PHOENIX,	RESULTS OF SVOAS IN SOIL HAREFG SITE INVESTIGATION PHOENIX, ARIZONA			
Section 1		664_04	W 788	20.	200	70 730	7 780
	, (	5		30	55	31.	31.5
Campa Dese:	191	18-180-81	13-1-51	13-1-50-81	13-1-61-81	18-40-1-61	10-10-1-PC
Metrbc		<b>8</b> 0			<b>J</b> OS		<b>10</b> 8
Leb Number:	252	C102182-018	C102192-02B	C102192-03B	C102192-048	C102182-058	C102192-068
Prep Date:	24-F	24-Feb-91	24-Feb-91	24-Feb-91	24-Feb-91	24-Feb-91	24-Feb-91
Analysis Date:	¥-8	26-Feb-91	26-Feb-91	16-Mar-91	26-Feb-91	20-Mar-91	19-Mer-01
Chita:		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Character	SAS	!					
NAME	MARR						
Ben m (e) minere	100mCF	11 056	35011	1100%	11086	1086	11076
Denizo (wyty) en w	206-00-2	36.	1038	3			
Berger (a h Berger	101-24-2	36.	350				
Break (Milling to the control of the	207-08-0	2 2 2	200	3	11036	11 036	
	4. F. L.	36	1				
Denzyi econor				200	0.000		
Dis(Z-Chioroemoxy)memen	1-18-111		0.000	0.095		0000	
	*		0.000		0.000		
bie(2-Chloroleopropyi) ether	108-801	) (8)	0.000	0.000	0.000		
DIS(Z-Emymexyl) promises	1-18-11		0.000	140 1	CO/L	000	
Butyl benzyl phimatate	85-68-7	) ()				270	O CONTRACT
Chrysens	8-10-017			0.000	0.000	O COS	
Dipenzoruran	13K-64-8		0.000	) (See	0.000		
Chonzo (a, ryanumento	2-2-50		0.000	0.000	0.000	000	
Chemy promises	7-90-10		D 065				
	201-101		0.000	0.000	0.000		
	X-1/-10		0.000	0.00%	0.000	5	
Ci-n-octyl primaters	0-10-711		0.000	0.000	0.000	04	
	0-44-000		0.066	200		0.000	
ruorene	/-2/-0B	0000	0 000	1000	000	0000	
Treasure to design the second	67-66-2 67-66-2	3 5 5 5	7 098				
Herechlorocyclopaniadana	77-47-4	38			) 		
Heverhloroethere	1-22-19	350 U	35011	11 086	1 95	= = = = = = = = = = = = = = = = = = =	
Indepo(1.2.3—cdipyrana	183-39-5	350 U	3000	108	0.058	11038	
leorborone.	78-59-1	350 1	T OSE	7098	3501	11038	3
Nachthalene	91-20-3	350 U	320 1	00€	)	1000	
Nitrobenzene	86-98 -86-3	350 U	J 028	∩ 09£	) OS	1000	7000
N-Nitrosodiphenylamino	86-30-6	360 ∪	350 ∪	D 096	350 ∪	0.000	0.000
N-Nitroso-d-n-propylamine	621-64-7	350 ∪	350 U	360 U	350 U	360 U	000
Pentachlorophenol	87-86-5	1700 U	1700 U	1700 U	1700 U	1700 U	1700/1
Phenenthrene	86-01-8	320 C	350 U	∩ 09E	320 ∩	350 U	⊃ <b>0</b> ₹6
Phenol	108952	360 €	350 U	360 0	∩ 050 0	350 ∪	700€
Pyrane	129-00-0	350 U	350 U	360 ∪	350 U	350 U	340 U
	200					İ	2000

		APPENDIX L		21
	RESI 161AR	RESULTS OF SVOAS IN SOIL	IN SOIL TIGATION	
		PHOENIX, ARIZONA	W	
Sample Number: Sample Date:		MB5-01-0-2-02 07-Eab-91	MB5-01-5-7-02 07-Fab-91	MB5-01-70-72-01 07-Feb-91
Matrix				
Lab Number:		C102106-01B	C102106-02B	C102106-03A
Prep Date:		11-Mar-91	11-Mar-91	22-Mar-91
Anaysis Date: Units:		14-mair-91 ug/Kg	I 4 Mar 81 Ug/Kg	22-mar-91 ug/Kg
COMPOUND	SAS			
NAME	NUMBER			
1,2,4Trichlorobenzene	120-82-1	380 R	340 R	340 R
1,2-Dichlorobenzene	95501	380 A	340 R	340 R
1,3-Dichlorobenzene	541-73-1	380 R	340 H	340 R
1,4-Dichlorobenzene	106-46-7	380 H	340 H	100 H
2,4,5-Trichlorophena	80-88-44 4-88-88	2008 H 0008	1600 F	1980 K
2,4,0 - Indiooparend 9.4 Pichlonopend	120-83-2	2000	25.5	200
2.4-Directivities	105-67-9	. E	340 ROR	- C
2,4-Dinitrophenal	51-28-5	1800 R		1600 R
2,4-Dinitrotaluene	121-14-2	380 R	340 R	340 R
2,6—Dinitrotoluene	606-20-2	E 68	340 R	H 050
	91-36-7	2000	E 045	
2-Methylnaphthalene	91-57-6	380 R 08	340 R	- C
2-Methylphenol	95-48-7	380 R	340 R	340 R
2-Nitroenline	88-74-4	1800 R	1600 R	A 0081
2-Nitrophenal 2.2 Dichlomberal from	94-04-1	380 K	X 050	200
3-Ntrogritine	99-09-2	1808E	. 8091 8091	. 808 R 08
4,6-Dinttro-2-methylphend	534-52-1	1800 R	1600 R	1600 R
4-Bromophenyl phenyl ether	101-55-3	380 R	25 E 1	340 B
4-Chloroshiine 4-Chlorothendobend ather	7005775	2008 2008 2008	H 95	100
4-Choro-3-methylphend	59-50-7		340 5	340 E
4-Methylphenol	106-44-5	380 R	340 R	340 R
4-Nitroaniline	100-01-6	1800 R	1600 R	1600 R
4-Nitrophenol	100-02-7	1800 R	1600E	1600 A
Acenephthene	83-32-9	380 H	140 H	340 %
Acenaphthylene	208-96-8	200	25 S	H 000
	1-21-12-1 66 96 A		200	1 0 00 0
benzoc ado Benzo(a)anthracene	56-55-3	380 8	2008 240 8	200

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MB5-01-0-2-02 07-Feb-91 SOIL C10Z106-01B 11-Mar-91 14-Mar-91 14-Mar-91 380 R 380 R 380 R 380 R 380 R 380 R 380 R 380 R 380 R 380 R 380 R 380 R 380 R 380 R 380 R	MB5 - 01 - 5 - 7 - 02  07 - Feb - 91  SOIL  C102106 - 028  11 - Mar - 91  14 - Mar - 91  340 R  340 R  340 R  340 R  340 R  340 R  340 R  340 R  340 R  340 R  340 R  340 R  340 R  340 R	MB5-01-70-72-01 07-Feb-81 8OL C:02:08-03A 22-Mar-91 22-Mar-91 22-Mar-91 340 R 340 R
07-Feb-91 SOL C102106-01B 11-Mar-91 11-Mar-91 11-Mar-91 11-Mar-91 14-Mar-91 196-82-8 380 R 196-82-8 380 R 111-91-1 380 R 111-91-1 380 R 111-81-1 380 R 112-81-7 380 R 138-81-9 380 R 131-11-3 380 R	20L SOL SOL 11-Mar-91 14-Mar-91 14-Mar-91 14-Mar-91 14-Mar-91 340 R 340 R	22 - Mar - 91 22 - Mar - 91 22 - Mar - 91 22 - Mar - 91 22 - Mar - 91 240 R 34
C102106-01B 11-Mar-91 14-Mar-91 14-Mar-91 14-Mar-91 14-Mar-91 10-32-8 20-32-8 20-32-8 20-32-8 20-32-8 20-32-8 390 R 100-51-6 100-51-6 111-91-1 111-91-1 111-91-1 111-91-1 111-81-7 218-01-9 218-01-9 390 R 132-64-9 390 R 132-64-9 390 R 132-64-9 390 R 132-64-9 390 R 132-64-9 390 R 131-11-3 390 R 131-11-3 390 R 131-11-3 390 R 390 R	C102108-02B 11 - Mar - 91 14 - Mar - 91 14 - Mar - 91 14 - Mar - 91 340 R 340 R	20L 20L 22 - Mar - 91 22 - Mar - 91 22 - Mar - 91 24 - 91 25 - 91 26 - 91 26 - 91 26 - 91 26 - 91 27 - 91 28
CICZIOS—018 11—Mar—91 14—Mar—91 14—Mar—91 14—Mar—91 14—Mar—91 10—32—8 205—32—8 205—32—8 205—32—8 205—32—8 205—32—8 205—32—8 205—32—8 100—51—6 111—91—1 111—91—1 111—91—1 111—44—4 380 R 117—81—7 218—01—9 218—01—9 23—70—3 380 R 132—64—9 380 R 132—64—9 380 R 132—64—9 380 R 132—64—9 380 R 133—64—9 380 R 131—11—3 380 R 131—11—3 380 R 380 R	340 R 340 R	22 - Mar - 91 - Mar -
CAS NUMBER 50-32-8 206-30-2 191-24-2 207-08-9 100-51-6 111-44-4 117-81-7 117-81-7 117-81-7 132-64-9 132-64-9 132-64-9 131-11-3 84-68-2 131-11-3	240 R R R R R R R R R R R R R R R R R R R	
CAS NUMBER 50-32-8 205-30-2 191-24-2 207-06-9 110-1 111-91-1 111-91-1 117-81-7 85-68-7 218-01-9 132-64-9 53-01-9 132-64-9 131-11-3 84-68-2 131-11-3	200 20 20 20 20 20 20 20 20 20 20 20 20	
CAS NUMBER 50-32-8 206-99-2 191-24-2 207-08-9 111-91-1 111-91-1 117-81-7 85-68-7 218-01-9 132-64-9 53-70-3 84-66-2 131-11-3 84-74-2	% % % % % % % % % % % % % % % % % % %	
NUMBER 20-32-8 205-30-2 205-30-2 191-24-2 207-08-9 111-44-4 117-81-7 117-81-7 117-81-7 218-01-9 132-64-9 53-70-3 84-88-2 131-11-3	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
50-32-8 206-80-2 191-24-2 207-08-9 111-44-4 118-80-1 117-81-7 218-01-9 53-86-7 53-86-2 131-11-3 84-78-2	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
205-86-2 191-24-2 207-08-9 100-51-6 111-81-1 117-81-7 218-01-9 23-70-3 84-88-2 131-11-3	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	% % % % % % % % % % % % % % % % % % %
191-24-2 207-08-9 100-51-6 111-44-4 108-80-1 117-81-7 218-01-9 132-64-9 53-76-3 84-86-2 131-11-3	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
207-08-9 100-51-6 111-41-4 111-81-1 117-81-7 218-01-9 132-64-9 53-76-3 84-86-2 131-11-3	* * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * *
1001-51-6 111-44-4 106-60-1 117-81-7 216-08-7 23-70-3 53-70-3 84-74-2	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	* * * * * * * * * * * * * * * * * * *
111-91-1 111-44-4 108-60-1 117-81-7 218-01-9 132-64-9 53-70-3 84-86-2 131-11-3	* * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * *
111-141-1 108-60-1 117-81-7 218-01-9 132-61-9 53-70-3 84-68-2 131-11-3	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	* * * * * * * * * * * * * * * * * * *
117-81-7 85-88-7 218-04-9 132-64-9 53-70-3 131-11-3	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
85-68-7 218-01-9 132-64-9 53-70-3 131-11-3	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
218-01-9 132-64-9 53-70-3 84-68-2 131-11-3	26 26 26 26 26 26 26 27 27 27 27 27 27 27 27 27 27 27 27 27	8 8 8 8 8 8 8 8 8 8 8 8 8
132–64–9 scene 53–70–3 84–68–2 131–11–3 late 84–74–2	2 2 2 2 2 2 2 2 2 2 3 2 3 3 3 3 3 3 3 3	9 9 9 9 9 9 9 9 9 9 6 6 6 9 8 8 8 8 8 8
53-70-3 84-68-2 131-11-3 late 84-74-2	9 9 9 9 9 9 8 6 0 9 8 8 8 8	2 2 2 2 2 2 2 3 2 2 2 3 3 4 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
84-66-2 131-11-3 late 84-74-2	340 R R B B B B B B B B B B B B B B B B B B	26 24 24 34 34 34 34 34 34 34 34 34 34 34 34 34
131-11-3 Jate 84-74-2	340 H	240 240 140 140
2-1/-12	****	
0 10 111	2 6	0 474
0-14-10	200	
86-73-7	. C. C.	
robenzene 118–74–1	340 E	9.50 E
87-68-3	340 H	340 R
adjene 77-47-4	340 R	340 F
67-72-1	340 R	340 R
<b>1</b> 0	340 R	340 F
78-87	26 E (	25 E G
E-123-156	E 050	H 050
METUDOSTIZANO SOUTINO	200	
mine 621-64-7	2 5	
87-88-5	1600 H	1600 F
threne 85-01-8	340 R	340 F
108-95-2	340 R	245 B
190-00-0		

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## RESULTS OF INORGANICS IN SOIL 161AREFG SITE INVESTIGATION PHOENIX, ARIZONA

APPENDIX L

		0 0 00	10 03 03 10 0011	100 00 000	MDC 00 6 7 04	WC 00_10_19_	WS_00_10_10_049_048S_03_0_0_0_010
Sample Number:		MB3-01-0-5-01	MD20-00-10-00W	10-2-0-20-COM	10-7-6-30-6-0W	- 15 - 15 - 15 - 15 - 15 - 15 - 15 - 15	
Sample Date:		29-Jan-91	29-Jan-91	28-Jan-91	28-Jen-91	23-Jan - 91	30-Jan-91
Matrix.		liOS	SOIL	SOIL	SOIL	SOIL	SOF
I sh Mimber		C101318-01A	C101318-04A	C101318-04A	C101318-04A	C101318-04A	C101326-01A
Dron Date:		201 Feb 91	20-Feb-91	20-Feb-91	20-Feb-91	20-Feb-91	20-Feb-91
Analysis Date:		13-Mar-91	13-Mar-91	13-Mar-91	13-Mar-91	13-Mar-91	13-Mar-91
Units:		mg/Kg	ш9/Кд	mg/Kg	тауКа	mg/Kg	mg/Kg
Ahminim	7429-90-5	10400	5230	4230			9226
Antimony	7440-36-0	3.9 UJ	3	3.8 W			3.8 LU
Arsenic	7440-38-2	. 1.80 . 1.10	8.2 J	7			~
Barium	7440-39-3	115	93.2	61.3			185 J
Beryllium	7440-41-7	J 64.0	0.36 J	0.2 U			O.4.0
Cadmium	7440-43-9	0.83 U	0.85 U	U 67.0		0.95 ∪	0.81 U
Calcium	7440-70-2	26400	2170	8570		31800	18500 J
Chromium	7440-47-3	24.1 J	16.5 J	129		51.1	8
Cobalt	7440-48-4	10.8	J.6.1	5.9 J		14.3	8.7 J
Copper	7440-50-8	22	7 SE	17.5 J		53.8 J	41.6
	7439-89-6	18900	8490	10700		30300	
l ead	7439-92-1	L 8.0	3.4.	6.4 J		6.3 J	
Magnesium	7439-95-4	8620	2290	3620	3230	10200	6460 J
Mancanese		313 J	7468 J	C 082		362 J	
Mercury	7439-97-6		0.16 U	0.15 R		0.19 R	
Nickel			15.3	17.4		31.1	
Potassium	7440-09-7	1700 J	561 J	C 929		1360 J	
Selenium	7782-49-2	0.42 ∪	0.42 U	O.4 C		0.48 U	
Silver	7440-22-4	 	0.63 ∪	0.6 ∪		26 J	
Society	7440-23-5	7 90Z	127 J	285		7 OES	
Thallism		0.21 U	0.21 ∪	0.2 J		0.24 ∪	
Vanadin	7440-62-2	46.1	19.3 J	329 J		3	
Zinc	7440-66-6	39.9 J	47.4 J	33.8 J		76.4 J	
Ntrate/Nitrite		\$	9.0	3.7	8	\$	8
Organic Lead		1.1 U	1.1 U	<u> </u>	<b>-</b>	1.2 U	1.10

U = Compound not detected J = Estimated value R = Result rejected in

			APP	APPENDIX L			
			RESULTS OF IN 161AREFG SN PHOEN	RESULTS OF INORGANICS IN SOIL 161AREFG SITE INVESTIGATION PHOENIX, ARIZONA			
Sample Number. Sample Date: Matric: Lab Number: Prep Date:		MBS-03-5-7-01 30-Jan-91 SOIL C101326-03A 20-Feb-91	SB2-01-0-2-01 29-Jan-91 SOIL C101317-01A 23-Feb-91	SB2-01-0-2-02 29-Jen-91 SOIL C101317-03A 23-Feb-91	S82-01-50-52-01 29-Jen-91 SOIL C101317-06A 23-Feb-91	SB2-01-56-57-01 29-Jen-91 SOIL C101317-02A 23-Feb-91	882-02-0-2- 22-Jan-91 801. C101215-04A 07-Feb-91
Analysis Date: Units:		13-Mer-91 mg/Kg	13-Mar-91 mg/Kg	13-Mar-91 mg/Kg	13-Mar-91 mg/Kg	13-Mar-91 mg/Kg	13-Mer-91 mg/Kg
Aluminum Antimony Arsenic	7429-90-5 7440-36-0 7440-38-2	8190 3.9 UJ 8.4	12000 3.7 W 7 J	11400 4 UJ 5.7 J	0028 U. 4 U. 4	3550 3.7 LU 8.	12400 4.3 U. 7.9 J.
Berlum Beryllum Cadmium	7440-39-3 7440-41-7 7440-43-9	0.33 J 0.82 U	130 0.6 J U 18.0	118 0.62 J 0.84 U	35.9 L 6.50 L 7.90 U 5.94	58.1 0.4.0 0.8.0	140. 140. 140. 140.
Calclum Chromium Cobalt Copper	7440-70-2 7440-47-3 7440-48-4 7440-50-8	32800 J 26.2 8 J 8 J 8 J	27800 20.5 J 10.6 88.9 J	25800 22.3 J 10.4 J 42.2 J	2790 11.9.1 6.8.3 35.2.1	2310 3723 5123	33100 J 23.8 12.5 25.8 J
lron Leed Magnesium Mangenese Mercury Nickel Nickel Selenium Selenium	748-8-6 748-8-1 748-98-1 748-97-6 7440-02-0 7440-22-4 7441-22-4	16200 18.4 J 6090 J 250 J 0.16 R 14.6 1600 J 0.42 U 1.7 J	17200 33.5 J 8360 361 0.16 R 25.2 3420 J 0.41 U 1.4 J	17700 194 8810 355 0.16 R 23.8 3060 J 0.4 U 1.7 J	9320 222 274 274 0.16 R 10.8 0.44 U 1.2 J	2.1 J 2570 2772 2772 0.16 R 11.1 509 J 0.41 U 0.6 U	20402 5.9.0 11200.1 390.1 390.1 27.7 27.3 26.70.1 0.44.U 1.7.1
Thefilium Vanadium Zinc Nitrate/Nitrite Organic Lead	7440-28-0 7440-62-2 7440-68-6	0.21 U 47.9 J 79.6 J	96.4 196.4 196.4 196.4	78.2 J 78.4 J	0.45.0 19.86 1.0.1.0.1.0.1.0.1.0.1.0.1.0.1.0.1.0.1.0	0.41 0.48 14.6 1.7.3 1.7.7	432 J 432 J 46.7 J
-							

- Compound not detected

J = Estimated value

R = Result rejected in

deta validation

			PHOENIX	PHOENIX, ARIZONA			
Sample Number:		SB2-02-10-12-01	SB2-02-70-72-01	SB2-04-0-2-01	\$82-04-55-57-01	SB2-04-70-72-01	MB2-02-0-2-01
			18-UBC-27	16-UEC-27	23-181-52	23-181-91 19-181-91	08-Feb-91
ab Number:		C101215-06A	C101215-10A	SOIL C101215-11A	C101230-014	SOL. C101230-024	SOL SOLONO SOLON
Prep Date:		07-Feb-91	07-Feb-91	07-Feb-91	23-Feb-91	23-Feb-91	08-Mer-91
Analysis Date:		13-Mar-91	13-Mar-91	13-Mar-91	13-Mar-91	13-Mar-91	18-Mer-91
June:		mgrkg	E SAN	mg/Kg	mo/Ko	mg/Kg	mg/Kg
Auminum	7429-90-5	2400	7310	13000	13600	653	000
Antimony	7440-36-0	3.9 (1)	4.2 W	3	34	3.7 (2)	42 W
Arsenic	7440-38-2	J. 8.4	J. 6.8)	10 J	G.8.J	7	6.4
Berium	7440-39-3	68.5 J	1.25 L. 25	143 J	152	36.1 J	115
Beryffum	7440-41-7	0.41 U	0.44 U	0. 4. U	0.72 J	0.45 J	0.30
Cadmium	7440-43-9	0.82 U	0.89 ∪	0.87 U	0.86 U	0.81 U	5.5
Calcium	7440-70-2	14200 J	3780	31700 J	F 0985	2430	52500
Chromium	7440-47-3	17.3	22.6	22.6 25.6	35.9	7 80	19.6
Coper	7440-48-4	80   		12.3	11.4	4.5 4	₽,6 1
	7440-30-8	200 200 200 200 200 200 200 200 200 200	67.8 J	35.4	7.9	24.6 J	39.2
<b>10</b>	245 B - 647	14/00	950	20/02	19100	7570	15900
Megnesism	7430 06 4	U.S.8	3.2 3	6.8 - 00F0	3.2	2.6 J	<u> </u>
Manganese	7439-96-5	1 02+	2000	20/00	36	2400	023
Mercur	7439-97-6	E 81.0	0.17 B	3 C	17.0	24.0	3 5
Nickel	7440-02-0	14.9	15.6	282	35.9	- T- S- C-	- «
Potassium	7440-08-7	914.0	£ 888	3580 J	1130.1	700	200.
Selenium	7782-49-2	0.4℃	0.43 ∪	0.44 U	0.43 U	0.40	0.45 U
	7440-22-4	1.4.1	0.67 U	3.7.5	1.3 J	L 58:0	1.8.1
Sodium	7440-23-5	577 J	C822	1110	336 J	186	788
	7440-28-0	0.40 D.40	0.43 ∪	0.44 U	0.43 U	0.4 U	0.45
Vanadum	7440-62-2	43.2 J	41.2 J	4.7.2	24.1	15.5 J	33.0
Zinc	7440-66-6	27.8 J	47.5 J	51.2 J	130 J	43.9 J	127 J
Nitrate/Nitrite							

U = Compound not detected
J = Estimated value
R = Result rejected in
deta validation

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## RESULTS OF INORGANICS IN SOIL 161AREFG SITE INVESTIGATION PHOENIX, ARIZONA

Sample Number.		MB2-02-30-32-01	MB2-02-70-72-01	SS4-01	20-16S	884-00	10-168
Sample Date:		06-Feb-91	06-Feb-91	13-Feb-91	13-Feb-91	13-Feb-91	13-Feb-91
Metric		SOIL		8	10s	# <b>O</b> S	2
Lab Number:		C102069-03A	C102089-04A	C102192-01A	C102192-02A	C102192-03A	C102192-04A
Prep Date:		08-Mar-91	06-Mar-91	08Mar-91	08-Mar-91	08-Mar-91	08-Mer-91
Analysis Date:		18-Mar-91	18-Mar-91	18-Mar-91	18-Mar-91	18-Mer-91	18-Mer-91
Chite:		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Auminum	7429-90-5	2880	4040	6310	6240	6140	6620
Antimony	7440-36-0	4.5	3	3	300	3	3
Arsenic	7440-38-2	3.1	7.2 J	2.7 J	32.1	7 6.60	200
Barium	7440-39-3	Z7.1 J	51.2 J	74.5	74.2	73.7	622
Beryffum	7440-41-7	0.21 J	0.55 J	0.28 J	0.36	0.33	7 78 0
Cadmium	7440-43-9	0.81 U	0.87 U	0.84	0.83 U	0.64	D 140
Calcium	7440-70-2	1670 J	3310 J	C 00589	21400 J	21900 J	19000
Chromium	7440-47-3	'n	8.6	85.5	2.0	13.3	2
Spek	7440-48-4	3.5.5	6.5	6.5 J	<b>6.9</b>	6.4 J	3.6
Spper	7440-50-8	19.L	24.1 J	7=	39.6	25.3 J	16.1 J
<u>100</u>	7439-89-6	C 0229	8710 J	8740	8620	9556	8629
Peg	7439-92-1	J 6.8	4.3 L	10.2 J	J 4.8	7 <b>6.99</b>	12.5 J
Megnesium	7439-85-4	20 <del>5</del> 0 J	2880 J	4830 J	4310 J	4580 J	7 09LS
Manganese	7439-86-5	<b>2.</b> 7	<b>%</b>	<b>3</b>	<b>902</b>	189	<u>\$</u>
Mercury	7439-97-6	0.16 A	0.16 R	0.16 R	0.16 R	0.16 R	0.16 R
Nickel Nickel	7440-02-0	J. 4.0	11.4	11.5	10.5 J	11.6	70.0
Potessium	7440-09-7	543	574 J	1670 J	1570 J	1390 J	1400
Selenium	7782-49-2	D.4.0	0.41 U	0.41 U	0.42 U	0.43 U	0.43 U
SEVE	7440-22-4	0.61 C	0.75 J	0.82	0.62 U	0.82 J	0.63 U
Sodium	7440-23-5	252	246 J		163 J	191 L 191	146.
Theffum	7440-28-0	0.4°C	0.41 U	0.41 U	0.42 U	0.43 U	0.45 U
Vanadium	7440-62-2	12.6	28	16.7	1.01	10.0	19.2
Zhe	7440-66-6	30.6 J	34.2 J	C 4.14	29.8	7#	۲ <i>1</i> 2
Nitrate/Atrite							
Organic Lead							

U = Compound not detected
J = Estimated value
R = Result rejected in
data validation

Sample Number: Sample Date: Metric: Lab Number:		\$\$4-05 13-Feb-91 \$OIL C102192-05A	\$\$4-06 13-Feb-91 \$OIL C102192-06A	MB5-01-0-2-01 07-Feb-91 SOIL C102106-01A	MBS-01-5-7-01 07-Feb-91 SOIL C102106-02A	MB5-01-70-72-01 07-Feb-91 SOIL C102106-03A
Prep Date: Analysis Date: Units:		08-Mar-91 18-Mar-91 mg/Kg	08-Mar-91 16-Mar-91 mg/Kg	08-Mar-91 18-Mar-91 mg/Kg	05-Mar-91 18-Mar-91 mg/Kg	08-Mar-91 18-Mar-91 mg/Kg
Aluminum	7429-90-5 7440-36-0	6470 3.9 UJ	4390 3.7 UJ	10500 4 UJ	3670 3.7 UJ	37.0 LU 7.8
Berlin	7440-39-3 7440-41-7	67.4 67.4	4 4 4 5 4 4 4	115	2.5. 2.0.	6.9 152 184 0
Calcium	7440-43-9 7440-70-2	U 88.0 33300	0.81 U 1900 L 00004	0.87 U 23100 J	0.75 U 67.0 U 65001	0.25 0.78 0.3620 0.3620
Chromium Cobalt	7440-47-3 7440-48-4	10.5 5.55	4.00 10.00	18.8 10.6 J	8. 8. 8. 5. 9. 5.	1.0 1.0
Copper	7440-50-8 7439-89-6	16 J 10200	8.8 L 6.90 L 0.00	24.7 J 17200	9.3 J 9330	36.7 J 8480
Lead	7439-92-1 7439-95-4	9.4 J 4310 J	7.3 J 4390 J	10.8 J 8950 J	3690 L	2.6 J
Manganese	7439-96-5 7439-97-6	189 0.16 R	133 0.16 R	358 0.17 R	132 0.15 R	736 0.15 R
Nickel Potessium	7440-02-0 7440-08-7	12.1	L 7 J	24.3	11.1	17.8
Selenium	7782-49-2	0.40 U.40	2.4.0 2.4.0 2.4.0	0.44 U -	0.39 C	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Sodium	7440-23-5	219 J	194	497 J	453 -	178 J
Vanadium Zino	7440-62-2 7440-66-6	21.2	13.6 22.6 J	36 53.7 J	20.5	22.6 57.5 J
Nkrate/Nkrite Organic Lead				28 1.1 U	7.5 1 U	0.2 1 U

## APPENDIX M TABULATION OF WATER ANALYTICAL RESULTS

		ARIZONA
M YOUNGLAND	RESULTS OF VOAS IN WATER	161 AREFO SITE INVESTIGATION PHOENIX,
		76

		MWS-01-01A	MWS-01-02	MWS-02-01	MWS-02-02	MWS-02-02	MWS-02-02 DUP
Semple Date:		15-Apr-91	24-Jun-91	12-Apr-91	28-Jun-91	28-Jun-91	28-Jun-91
Lab Number:		BB3291	BB8943	BB3074	BB9147	BB9147 DL	BB9148
Analysis Date:		24-Apr-91	29-Jun-91	23-Apr-91	03-Jul-91	03-Jul-81	05-Jul-91
		į					
COMPOUND		CNITS					
1,1,1—Trichloroethane		200		کر در		<b>5</b>	ک ده
1,1,2,2—Tetrachioroethane	79-34-5 ug/L	<b>⊃</b> 6	20	SUL	20	<b>20</b> ∪	20
1,1,2-Trichloroethane	79-00-5 ug/L	<b>∂</b> 8		20	2€	<b>→</b>	08
1,1 - Dichloroethane	75-34-3 ug/L	<b>⊃</b> 80	2€	20	20	J 01	20
1,1-Dichloroethene	75-35-4 ug/L	28		25	20	± 0 €	2€
1,2-Dichloroethane	107-06-2 ug/L	30	20	20	90	10 0	20
1,2-Dichloroethylene	540-59-0 ug/L	7.	2	<b>2</b> 0	os S	•	2€
1,2-Dichloropropane	78-87-5 ug/L		20	20	2€	10 U	3 C
2-Butanone	76-93-3 ug/L		±0 ∪ 0±	10 U	10 C	28	<b>20</b> ℃
2-Hexanone	591-78-6 ug/L	. 10 U	<b>10 C</b>	10 U	10 U	28	<b>10</b> ∪
4-Methyl-2-pentanone	108-10-1 ug/L	70 01	9	10 0	10 C	28	<b>10</b> ∪
Acetone	67-64-1 ug/L	U 01	10 €	10 U	10 C	28	10 €
Benzene	71-43-2 ug/L	. · · · · · · · · · · · · · · · · · · ·	20	8	220 E	230 D	110
Bromodichloromethene	75-27-4 ug/L	30	20	20	2€	<b>10</b>	<b>D</b> 8
Bromoform	75-25-2 ug/L	70.5	60	20	20	10 C	20
Bromomethane	74-83-9 ug/L	01	± 0 €	10 U	<b>10</b> ∪	⊃ & &	10 C
Carbon disuffide	75-15-0 ug/L	<b>10</b>	S	<b>2</b> €	202	10 UJ	20
Carbon Tetrachioride		n	<b>6</b>	20	20	10 U	20
Chlorobenzene	_		2	<b>⊃</b>	26		20
Chloroethane	75-00-3 ug/L		<b>10</b> ∪	10 U	E 01	8	<b>10 ∪</b>
Chloroform		<b>.</b>		20	20	10 C	3C
Chloromethane		Ē	<b>10 ℃</b>	10 C	10 C	28	5 2
cie-1,3-Dichloropropene	10061-01-5 ug/L	KO.		20	25	10 U	20
Dibromochloromethene	124-48-1 ug/L	NO.	2€	20	<b>2</b> ∩	<b>5</b>	20
Ethylbenzene	100-41-4 ug/L		2€	20	2€	10 U	20
Methylene chloride	75-09-2 ug/L	<b>40</b>		26	2	10 U	2€
Styrene			2∪	<b>2</b> €	20	10 U	<b>2</b> €
Tetrachiorethene	127-18-4 ug/L	<b>10</b>		<b>2</b> ∩	2€	0 01	<b>⊃</b> \$
Toluene		<b>IO</b>		7	20	10 U	20
Total xylenes	-	in .		<b>O</b> 34		10 U	7-
trans 1,3- Dichloropropene	10061-02-6 ug/L			20	<b>2</b> €	⊃ 6	3 C
Trichloroethene	7901-6 ug/L		2€	•	20	<b>→</b>	٦ 8
Vinyl Acetate	108-05-4 ug/L		5 5	10 ∪	10 U	28	10 U
Vinyl chloride	75-01-4 ug/L	J 91	<b>20</b>	10 0	10 C	28	10 0
Vinyi chloride	7501-4 ug/L		1.8 U	0.50	1.8 U		1.8 U
Organic Lead	76n	100		100 €	100 t		100 UJ
TPH	J/BEL	<b>3</b> -	<b>-</b>	~	<b>-</b>		<b>5</b>

U = Compound not detected
J = Estimated value
E = Estimated concentration above quantitation limits
R = Result rejected in validation

			16	RESU 161 AREFG SITE	RESULTS OF VOAS IN WATER SITE INVESTIGATION PHOENIX, ARIZONA (cont.)	WATER PHOENIX, ARIZ	CONA
					(cont.)		
Sam ble Number:			T1-01-01A	T2-01-01A	T3-01-01A	T4-01-01A	T5-01-01A
Sample Date:			19-Apr-91	19-Apr-91	19-Apr-91	19-Apr-91	19-Apr-91
Lab Number: Analysis Date:			883994 30-Apr-91	883995 30-Aor-91	BB3996 30-Apr-91	BB3997 30-Apr91	BB3993 30-Apr-91
	CASE			4			
COMPOUND	NUMBER	UNITS					
1,1,1-Trichloroethane	71-55-6 u	ug/L	2 ∪	90	<b>2</b> ∪	5 U	20
1.1.2.2 - Tetrachloroethane	79-34-5	ug/L	9	90	20	20	250
1.12—Trichtoroethane		705			25		75
1 1 - Dichloroethane		3 2			) = V		2
		<b>3</b> 2			2 4		
	. (	7			) (		
1,2-Dichloroethane		7				20	
1,2-Dichloroethylene	540-59-0 r	19/L	20	2€	26	2	200
1,2-Dichloropropane	78-87-5	ug/L	9	90	<b>2</b> €	20	<b>₽</b>
2-Butanone	78-93-3 u	ug/L	10 A	10 R	T 01	10 R	10 A
2-Hexanone	591-78-6	מאר	10 0	10 0	70 □	100	100
4-Methyl-2-pentanone		달	10 0	10 U	10 U	10 U	10 01
Acetone		ng/L	99	10 U	10 C	10 0	110
Benzene	_	ng/L	) s	200	) S	ns	∩ <b>\$</b>
Bromodichloromethane		ua/L	20	90	20	O S	200
Bromoform		מאר	20	26	26	20	26
Bromomethane		ug/L	10 U	10 U	100	10 U	10 U
Carbon disutfide		ug/L	5 U	S U	9	20	20
Carbon Tetrachloride		ug/L	2 C	20	D'S	20	28
Chlorobenzene	108-90-7	UQ/L	<b>O</b> S	20	20	20	28
Chloroethane	75-00-3	ug/L	10 0	10 U	10 U	10 0	100
Chloroform	67-66-3	מאלר	<b>⊃</b> s	20	2 0	20	28
Chloromethane		ار اور	10 0	100	<b>10</b> €	10 0	10 C
cis-1,3-Dichloropropene	5	מאר	9	90	9	9 n	26
Dibromochloromethane	124-48-1	4	20	20	20	20	28
Ethylbenzene	100-41-4	ug/L	<b>∂</b>	90	9 0	20	20
Methylene chloride	75-09-2	מס/ר	20	9	9	20	250
SYLEGE	100-42-5 L	ילא. הפיל	20	20		2∪	2 0
Tetrachlorethene	127-18-4	<u> </u>		20		20	O S
Toluene	_	ug/L		9 0		20	2 0
Total xylenes	7	ار اور		90			78
trans-1.3-Dichloropropene	9	, po	3 U	2 €		200	28
Trichloroethene	79-01-6	ug/L	20	20	20	20	20
Vinvi Acetate	<b>-</b>	יפע. מפר		10 €	100	10 0	100
Virvi chioride	75-01-4	الج	10 U	10 U	701	10 0	100
Vinyl chloride		ng/L					•
Organic Lead		, John					
TPH		ma/L	2	7	7	) T	0.

					RES	APPENDIX IN MATER	WATER		
				~	161 AREFG SITE	INVESTIGATION (co	SITE INVESTIGATION PHOBUIX, ARIZONA (cont.)	ZOWA	
			MWS-03-01	WWS-03-C	MWG_04_04	MANS-04-04	MANS-04-00	WWS-M-	PS-2-04
Serios Date:			10-Apr-91	28-Jun-91	11-Apr-91	11-Apr-91	27Jun-91	27	09-Aor-91
Leb Number:			882914	BB9149	BB2915	BB2915 DL	BB9096	BB9096 DL	BB2623
Analysis Date:			23-Apr-91	03-Jul-91	23-Apr-91	24-Apr-91	01-Jul-91	02-Jul-91	19-Apr-81
	CASE								
COMPOUND	NUMBER	STINO							
1,1,1 - Trichloroethene	71-55-6 u	ug/L	2€	20	2€	± 00 €	90	⊃ 052 7	20
1,1,2,2—Tetrachioroethane	79-34-5 u	ug/L	20	5 5	20	100	20	280 0	20
1,1,2 - Trichloroethane	79-00-5	Zan Zan	20	SU	20	180 U	20	⊃ 052 20	20
1,1-Dichloroethane	75-34-3	ng/L	50	50	7	100 t	90	∩ 0\$2 7	20
1,1 - Dichloroethene		ug/L	5	50	SU	100 U	90	250 U	7
1,2-Dichloroethane	107~06-2 u	ug/L	2∪	20	20	100 t	20	⊃ 09Z	20
1,2-Dichloroethylene	0	ug/L	2	20	9 0	100 t	5	⊃ 05% 7	57
1,2-Dichloropropane	78-87-5 u	ug/L	2€	DS SU	90	100 L	30	⊃ <b>9</b> €	3 C
2-Butanone	78-93-3 u	ug/L	10 CL	10 U	10 U	<b>200</b> C	<b>10</b> €	200	10 R
2-Hexanone	591-78-6 u	ug/L	10 U	10 U	10 C	200 C	10 ∪	200 €	<b>₩</b>
4-Methyl-2-pentanone	108-10-1 u	ug/L	10 C	10 C	10 U	2002	10 C	200	<b>10</b> U
Acetone		rgy.	10 U	<b>⊅</b>	± 00 €	<b>200</b> 0	220	2005	10 U
Benzene	71-43-2 u	ug/L	20	28	1900 E	1100 D	1700 E	1900 0	790 E/820 D
Bromodichloromethane		절	20	200	OS.	100	20	∩ 092 7	20
Bromoform		ug/	200	20	<b>⊃</b> \$	1001	20	⊃ 092 2	26
Bromomethane		Jan Jan	10 0	±0 €	10 C	<b>200</b> C	10 U	⊃ 00g	30
Carbon disutifide		rgy.	20	<b>S</b>	90	100 t	3C	2002	S
Carbon Tetrachloride		ug/L	20	26	26	100 t	26	20 20 20 20	26
Chlorobanzene	_	ug/l.	20	20	250	100	90	2022	<b>∂</b> 8
Chloroethane	75-00-3 u	ug/L	<b>10</b>	10 t	10 C	⊃ 800 800	10 U	⊃ 00S	3
Chloroform		rgs.	20	20	20	100 L	30	⊃ 0\$2	20
Chloromethane	74-87-3 u	ug/	10 C	<b>⊅</b>	10 U	<b>200</b>	10 C	2008	<b>10</b> €
cia-1,3-Dichloropropene	က	ug/L	50	20	20	<b>2</b>	2€	⊃ 052 700 700 700 700 700 700 700 700 700 70	<b>2</b> Ω
Dibromochloromethane		ዿ	20	3C	20	100 100	2€	<b>⊃ 052</b>	D.S.
Ethylbenzene	•	Jon Jon	2€	<b>3</b> C	420 E	310 D	420 E	230 EX	ĸ
Methylene chloride		rg/	20	S S	20	<b>20</b>	20	⊃ <b>9</b> 82	2
Styrene		ug/L	20	20	<b>2</b> 0	<b>2</b>	90	⊃ 952 7	20
Tetrachlorethene		ug/L	2€	SU.	2€	± 180 1	20		<b>2</b>
Toluene		ug/L	20	20	3 089 E	200S	550 E	350 0	23
Total xylenes		γgr	<b>2</b> C	20	1000 E	C 083	630 E	008	R
trans-1,3-Dichloropropene	9	78	20	<b>2</b> Ω	2€	180 180	90	⊃05% 700	3€
Trichloroethene		ug/L	=	20	5C.	<b>2</b>	7	⊃ 05% 7	<b>O</b>
Vinyl Acetate	108-05-4 u	ug/L	<b>10</b> ∪	<b>10 U</b>	10 0	⊃ 80 80	<b>5</b>	200s	<b>1</b> 0 □
Vinyt chloride		ug/L	<b>₽</b>	<b>10</b>	<b>0</b>	2002	10 C	200 €	<b>5</b>
Vinyl chloride	75-01-4 u	ug/L	0.5 ∪	1.8 ∪	0.5 U		1.8 ∪	:	0.5 C
Organic Lead	3	ug/L	± 8 ± 5	180 UJ	<b>100</b> €		100 t		<b>6</b> ⊃
Ter		mg/L	<u>a</u>	10	7		3.1		<b>-</b>

APPENDIX M RESULTS OF VOAS IN WATER 161 AREFG SITE INVESTIGATION PHOENIX, ARIZONA (cont.)

Sample Number		DO 0 00	OC 0 00	1/1/1/ 00 04A	144/4 OO OO	TAMES OF AS	LALIN AN AN
Sample Date:		20-21-00	20-12-06 20-1-1001	18Ar01	24 - 1:0 - 01	10-40-01	Merc-Uc-Uc
Lab Number:		BB9150	BB9150 DL	BB3808	BB8795	882911	B89092
Analysis Date:		05-Jul-91	05-Jul-91	26-Apr-91	26-Jun-91	23-Apr-91	01-34-91
		و					
CANDOLINO	ŗ						
1,1,1-Trichloroethane				20	20	20	သ
1,1,2,2-Tetrachloroethane		<b>3</b> €		2∪	<b>⊃</b> 9	<b>⊃</b> 9	28
1,1,2-Trichloroethane	79-00-5 ug/L	m <sub>s</sub>		SU	9 0	20	20
1,1-Dichloroethane	75-34-3 U(VL	3		50	20	7	200
1,1 - Dichloroethene	75-35-4 ug/L	38	2002	20		9	DS.
1,2-Dichloroethane	107-06-2 ua/L	36		50	26	90	26
1,2-Dichloroethylene	540-59-0 ug/L	300	200	<b>€</b>	်က		
1,2-Dichloropropane	78-87-5 ug/L	3 C			ng S	26	
2-Butanone	78-93-3 ug/L	<b>₩</b>	<b>400</b> ∪	± 0 €	5 R	_	
2-Hexanone	591-78-6 ug/L	<b>5</b>	400 €	10 U	10 U	10 C	<b>10</b>
4-Methyl-2-pentanone	<b>~</b>	<b>3</b> €		10 U	10 C	10 0	
Acetone		36	<b>→</b>	10 C	10 C	<b>3</b> €	
Benzene		2100 E	6200 D	20	3 0	20	
Bromodichloromethane		3€	⊃ <b>002</b>	20	20	20	
Bromoform		3€	_	20	<b>2</b> €	20	200
Bromomethane		<b>5</b>		<b>5</b>	10 U	<b>5</b>	<b>10</b> C
Carbon disulfide		36	2002	90	2 ∪	20	20
Carbon Tetrachloride		ms em	200 C	90	2 ∪		20
Chlorobenzene	7	38		5 U	2 ∪	90	<b>⊃</b> \$
Chloresthane		# 0F		10 C	10 U	<b>5</b>	<b>10</b> ∪
Chloroform		36	⊃ 800 800	20	20	20	20
Chloromethane	74-87-3 ug/L	<b>\$</b>		10 U	± 0 €	<b>⊅</b>	10 C
cis-1,3-Dichloropropene	10061-01-5 ug/L	3 2 8		2€	<b>2</b> €	20	26
Dibromochloromethane	_		⊃ 2002		20	SU SU	20
Ethylbenzene	<b>-</b>		4300	2∪	<b>⊃</b> s	20	၁
Methylene chloride			⊃ <b>00</b> 2	20	9 0	20	20
Styrene	100-42-5 ug/L		⊃ 2002	20	20	90	2€
Tetrachlorethene			⊃ 802	2€	2€	20	<b>2</b> €
Toluene		57		2 ∪	2∪	20	20
Total xylenes	1330-20-7 ug/L		260 D	2 ∪	2∪	20	<b>D</b> \$
trans-1,3-Dichloropropene	10061~02-6 ug/L	5 E		2 ∪	2 €	20	<b>?</b>
Trichloroethene		5 ₩	⊃ 002	~	2	50	7
Vinyl Acetate	4	3	<b>400</b> ℃	10 C	<b>0</b>	± 0 €	<u>ا</u>
Vinyl chloride		<b>5</b> ∃		10 C		10 C	± 0 €
Vinyl chloride	75-01-4 ug/L	1.8 U		0.5 ∪	1.8 U	0.5 U	1.8 ∪
Organic Lead	Ngu Ngu	± 00 €					
TPH	mg/L	3.1		7		-	<b>-</b>

				161 AREFG	RES STE	283	WATER PHOENIX, ARIZONA	
						(cont.)		
Sample Number:			MW3-01-01	MW3-01-01	MW3-01-02	MW3-01-02	MW3-02-01A	MW3-02-01A-DUP
Sample Date:			11-Apr-91	11Apr-91	28-Jun-91	28-727-91	17-Apr-91	17-Apr-91
Analysis Date:			23-Apr-91	23-Apr-91	03-Jul-91	03~Jul-91	26-Agr-91	26-Agr-91
ON DOMOS	CASE	STIME	[					
1 1 1 Trichlomethere	74_55_6		= 8	5		Ę	=	=
1, 1, 1 = 11CHOUGHOUS	0-00-17	<b>1</b>	3 8	8 8	2 2	3		ם ה
1, 1, 2, 2 — Teleborrathana	5-00-67	20.5	3 2		ם ה	3 5	ה ע ה	) = n w
1 1-Dichlocathana	75=34=3	<b>3</b> 5	3 %		2 5	35		2 5
1.1 – Dichloroethene	75-35-4	4	2 S	38	) (3)	200	) C	2 6
1,2-Dichloroethane	107-06-2	7	282		200	1001		200
1,2-Dichloroethylene	540-59-0	rgi Van	∩%		4	180		25
1,2-Dichloropropane	78-87-5	ug/L	<b>⊃</b> 82	<b>⊃</b> 05	20	1001		20
2-Butanone	78-93-3	ng/	709	1001	10 U	2002	10 U	10 U
2-Hexanone	591-78-6	νgν γ	⊃0S	1001	10 ∪	200 C	100	10 U
4-Methyl-2-pentanone	108-10-1	lgi.	<b>⊃0</b> 6		10 0	700Z	100	10 U
Acetone	67-64-1	760	⊃0S	100 1	10 U	00Z	10 U	10 0
Benzene	71-43-2	Jgn Jgn	1300E	1200 D	1500 E	26000	DS.	20
Bromodichloromethane	75-27-4	Ngv L	28€	∩ <b>0</b> \$	20	1001	20	ns S
Bromoform	75-25-2	Z Z	28		20	100 1	SU SU	ns
Bromomethane	74-83-9	ug/L	20 €	100 1	10 U	200∩	10 U	10 C
Carbon disulide	75-15-0	ug/L	<b>⊃%</b>	706	3,	140 BD	20	20
Carbon Tetrachloride	56-23-5	ug/L	<b>⊃</b> 82	200		± 100 1	20	20
Chlorobenzene	108-90-7	ug/L	⊃ 82	⊃ 8	90	100t	9 0	DS.
Chloroethane	75-00-3	rg/	3	100 100	10 R	200 R	10 U	J 6
Chloroform	67-66-3	گر ا	ວ: %	⊃ ;	20	100 1	20	20
Chloromethane	74-87-3	δ,	D 05	9 0 1	<b>10</b> 1		10 U	
cis-1,3-Dichloropropene	10061-01-5	ug/L	<b>⊃</b> 8	⊃ : SS :	200	28	20	) S
Dibromochioromethane	124-48-1	5	⊃ : & :	2 S	200		25	⊃: 2
	100-41-4 26 00 57		2 2	3 5		780	2	) (
	7-80-C/	֓֞֞֜֞֜֝֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֡֓֓֓֓֓֓֡֓֡֓֡֓֡	3 8		ב ה	38	ָה בּי היי	) (
Tatrachicathene	100-42-5	<b>3</b> 5	⊃ = 8 %	8	2 2		2 4	2
	100 - 001		3 8	8 9	) = 0	3 5		
Total vylenes	1330-20-7	<b>1</b> 2	= = 3	3 5	) (	35	ב ה ג	) = 0 40
trans13Dichloronone	10061-00-6		3 %	3 5	=	3 5		ב סי
Trichloroathene	79-01-6		38	38	) <del>-</del>	28	9 6	) - e
Viny Acetate	108-05-4	Jon Jon	200	1001	101	2000	100	
Vinyl chloride	75-01-4	Jon Jon	200	1001	100	200 C	10 U	<b>10</b>
Vinyl chloride	75-01-4	Z Z	0.5 U	0.5∪	1.8∪		0.5∪	0.5 U
Organic Lead		ης.	100 U		± 50 €		100 L	100 t
HH		mg/L	10	*	3.8		2	10

				161 AREFG	MESULTS O SITE INVES		WATER PHOENIX, ARIZONA	
Sample Number:			MW3-02-02	2	DUMW4-01-01	MW4-01-02	MW4-02-01A	MW4-02-02
Sample Date:			Z7-Jun-91 RB9145	27-Jun-91	08-Apr-91 BR2471	26-Jun-91 PROPET	16-Apr-91 passon	28-Jun-91
Analysis Date:			03-Jul-91	03-Jul-91	19-Apr-91	02-Jul-91	25-Apr-91	28-Jun-82
	CASE							
COMPOUND	NUMBER	STIND						
1,t,t-Trichioroethane	71-55-6	Z	20	3 5	20	20	20	<b>⊋</b> 9
1,1,2,2-Tetrachloroethane	79-34-5	ug/L	5 U	90	20	06	20	26
1,1,2-Trichloroethane	79-00-5	ng/	90	90	S U	90	20	20
1,1-Dichloroethane	75-34-3	ug/L	50	2∪	20	20	20	79
1,1-Dichloroethene	75-35-4	ug/L	20	90	90	90	2 0	28
1,2-Dichloroethane	107-06-2	νδη V	26	20	20	79	20	28
1,2-Dichloroethylene	540-59-0	γgn	3.1	2	2∪	9	20	26
1,2-Dichloropropane	78-87-5	ng/L	90	50	20	50	20	20
2-Butanone	78-93-3	NgV.	<b>10</b> □	10 01	10 R	10 C	10 C	<b>⊅</b>
2-Hexanone	591-78-6	ug/L	100	10 0	<b>3</b> €	<b>→</b>	<b>→</b>	<b>5</b>
4-Methyl-2-pentanone	108-10-1	ug/L	<b>10</b> €	10 C	10 U	<b>10</b> □	<b>⊅</b>	<b>⊅</b>
Acetone	67-64-1	ng/L	<b>10</b> □	100	<b>3</b>	<b>10</b>	<b>→</b>	<b>5</b>
Benzene	71-43-2	ug/L	25	20	20	2 0	20	28
Bromodichloromethane	75-27-4	ug/L	20		2€	90	20	20
Bromoform	75-25-2	rg Va	50		20	20	a s	28
Bromomethane	74-83-9	Jgn Jgn	10 U	•	<b>5</b> ₩	<b>10</b> □	<b>3</b> €	<b>5</b>
Carbon disutfide	75-15-0	<b>Ag</b>	ms 2 m	n sm	20	20	ΩS	⊃ <b>9</b>
Carbon Tetrachloride	56-23-5	ng/	08		<b>2</b> ∪	90	38	26
Chlorobenzene	108-90-7	Jg.	90	S	9 0	9 €	<b>⊃</b> \$	26
Chloroethane	75-00-3	ug/L	TO R	_	<b>5</b>	10 U	<b>10</b> ∪	<b>5</b>
Chloroform	67-66-3	ug/	20		20	20		28
Chloromethane	74-87-3	ug/L	<b>5</b>	_	<b>0</b>	<b>20</b>		
cis-1,3-Dichloropropene	10061-01-5	ug/	20		ns 2			⊃9
Dibromachloromethane	124-48-1	ng/	20		ns 2		<b>2</b> €	2
Ethytbenzene	100-41-4	₽ J	20	S	20			⊃ <b>9</b>
Methylene chloride	75-09-2	Z Z	20	S.				26
Styrene	100-42-5	Ŕ	20		<b>ာ</b>			
Tetrachiorethene	127-18-4	λgo V		20	2 €	2€	20	2
Toluene	106-88-3	Ngv	90	20	2€			2
Total xylenes	1330-20-7	ug/L	20	20	2 €			⊃ <b>s</b>
trans-1,3-Dichloropropene	10061-02-6	ug/L		20	S W	2€	<b>2</b> €	
Trichloroethene	79-01-6	ug/.	37	20	20	20	⊃ <b>s</b>	<u>ي</u>
Vinyl Acetate	108-05-4	ug/L	<b>⊅</b>		<b>₽</b>	<b>10</b> ∪	<b>→</b>	<b>5</b>
Vinyl chloride	75-01-4	γgs	20℃		<b>5</b>		<b>5</b> ⊃	
Vinyl chloride	75-01-4	ug/L	1.8 ∪		0.5 ∪	1.8 ∪	0.5 ∪	1.8 C
Organic Lead		Z Z	3 3	<b>5</b>				
ТРН		mg/L	10	10	10	10	7	10

			APPENDIX M				
		RESULTS	RESULTS OF SVOAS IN WATER	WATER			
		161 AREFG PHO	161 AREFG SITE INVESTIGATION PHOENIX, ARIZONA	GATION A			
Sample Number:		MWS-01-01A	MWS-01-02	MWS-02-01	MWS-02-02	MWS-02-02 DI	JPMWS-03-01
Sample Date:		15-Apr	24-Jun-91	12-Apr-91	28-Jun-91	28-Jun-91	10-Apr-91
Lab Number:		BB3305	BB8943	BB3090	BB9173	BB9173	BB2834
Prep Date: Analysis Date:		18-Apr-91 29-Apr-91	09-Jul-91	17 - Apr - 91 19 - Apr - 91	09-Jul-91	09-Jul-91	17 - Apr - 91 19 - Apr - 91
	CASE						
COUMPOUND	Œ						
1,2,4 - Trichlorobenzene	_			10 t			<b>5</b>
1,2-Dichiprobenzene	,			2 5			2 5
1,3-Dichiobenzene	- 1	2 5	2 5	2 \$	2 5	2 5	2 5
1,4—Orcinotobelicelle 2,4,8—Trichtorophoni	100-40-7 UG/L			2 5			2 5
2.4.6—Trichlorophenol	_	5 5 5	5 0 ∪ 0	5 5			) O
2,4-Dichbropherol	8	<b>10</b>	10 0	10 U		10 R	100
2,4 - Dimethylphenol	105-67-9 ug/L	10 U	10 U	10 U			<b>5</b>
2,4 - Dinitrophenol	51-28-5 ug/L	⊃ 20 20		20 CT			IJ Se
2,4-Dinitrotoluene	Q	10 U	10 U	10 U	<b>10</b> ∪	10 C	10 U
2,6-Dinitrotoluene	N	10 C	<b>\$</b>	10 U			<b>20 ℃</b>
2-Chloronaphthalene		10 C	<b>5</b>	10 U	5 5		5 5
2-Chloropherol		<b>1</b> 0 €	O :	<b>1</b> 0 :		<b>5</b>	<b>2</b> €
2-Methylnaphthalene	·	<b>5</b> €	10 C	<b>₽</b>			<b>5</b>
2-Methylphenol		2 5	0 2			2 5	001
	88-74-4 UG/L	8 5	8 5	8 5	8 5	2 2 2 3 4	96 5
3.3'-Dichlorobenzidine		2 2 8	⊇ &	2 8		: ⊃ ? &	2 8
3-Nitroaniline	~	20 €	20 ℃	O 08	20 €	⊃ 0S	20 €
4,6-Dinitro-2-methylphenol	_	ى 20 د	D 02	7 09		50 R	∩ <b>0</b> S
4-Bromophenyl phenyl ether			<b>10</b> ∪	<b>10</b> C		<b>2</b> 0 €	<b>20</b> ℃
4-Chloroaniline		100	<b>10</b> ∪	10 €	<b>10</b>	5 5	± 0 €
4-Chlorophenylphenyl ether	က	<b>10</b>	10 C	<b>10</b>			<b>5</b>
4-Chloro-3-methylphenol		10 U	10 U	<b>10</b> ℃		<b>5</b>	10 U
4-Methylphenol		10 C	<b>10</b> ∪	<b>10</b> ∪	<b>10</b> □	10 R	<b>20</b>
4-Nitroaniline		D 0S	⊃ 82	∩ 0S	∩ 020	⊃ 93	⊃ <b>0</b> \$
4-Nitrophenol	_		⊃ <b>S</b> S	⊃ 0S		80 F	⊃ 0\$
Acenaphthene			<b>2</b> €	10 t	<b>5</b>	<b>₽</b>	
Acenaphthylene		⊃ ;	<b>⊃</b> :	⊃ <b>;</b>	<b>•</b>	⊃ <b>6</b>	) 1 1 1 1
Antiniacene	120-12-1 ng/L	0	2	2	021	2	2

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COURTIONS   COUR			-	APPENDIX M RESULTS OF SYOAS IN WATER 161 AREFG SITE INVESTIGATION PHOENIX, ARIZONA	IDIX M YOAs IN WATER INVESTIGATION ARIZONA			
CAREE  COUNTY  WARRIEST LANTS  COUNTY  WARRIEST LANTS  COUNTY	Sample Number: Sample Date: Lab Number: Prup Date: Analysis Date:		MW8-03-02 28-Jun-91 889175 05-Jul-91 09-Jul-91	11-Apr-91 182345 17-Apr-91 17-Apr-91	MMS-04-02 27-Jun-91 B90111 03-Jul-91 06-Jul-91	P8-2-01 09-Apr-91 882x3 15-Apr-91 17-Apr-91	P6-2-02 29-Jun-91 889130 05-Jul-91 09-Jul-91	10-747-62-614 18-747-61 888888 23-747-61 16-184y-61
### 120-82-1 ug/L 101 101 101 101 100 100 100 100 100 10	CHIODRICO	_						
## \$54-75-1 ug/L 101 101 101 101 101 101 101 101 101 10	1,2,4-Trichlorobenzene		<b>10</b> C	10C	200	<b>3</b>	<b>5</b>	2
## 100-146-7 ug/L 100 100 100 100 100 100 100 100 100 10	1,2-Dichloroberzene		<b>⊅</b>	<b>9</b>	<b>J</b>	<b>\$</b>	<b>9</b>	2
## 100	1,3-Dichloroberzene	_	<b>5</b>	<b>5</b>	<b>5</b> ⊃ <b>5</b>	<b>5</b>	<b>5</b>	2
100   100	1,4-Dichlorobenzene		<b>5</b>	<b>1</b>	<b>9</b>	<b>2</b>	<b>2</b>	<b>9</b>
### 100-12-2 Ug/L 101 101 101 101 101 101 101 101 101 10	2,4,5-Trichlorophenol		⊃:	) ()	8 :	8	3 8	2
102-05-2-2 ug/L 100 100 100 100 100 100 100 100 100 10	2,4,6—Trichlorophenol		) 	<b>?</b> ;	5 E	<b>2</b> ;	<b>?</b>	<b>2</b> 9
10-12-7-9 ugh.  10-14-2 ugh.	Z.4-Dichiprophenol		29	9	5 ; E (	2	⊋;	2 ;
121-14-2 ug/L  121-14-2 ug/L  121-14-2 ug/L  121-14-2 ug/L  122-14-2 ug/L  122-14-2 ug/L  122-14-2 ug/L  122-14-2 ug/L  122-14-2 ug/L  122-12-2 ug/L  123-12-2 ug/L  133-12-2 ug/L  134-12-2 ug/L  135-13-2 ug/L  135-13-2 ug/L  135-13-2 ug/L  135-13-2 ug/L  135-13-2 ug/L  135-13-2 ug/L  135-13-2 ug/L  135-13-2 ug/L  135-13-2 ug/L  135-13-2 ug/L  135-13-2 ug/L  135-13-2 ug/L  135-13-2 ug/L  135-13-2 ug/L  135-13	24-Carreny Change	3		2 5	r a	* a	2 5	2 5
### 606-20-2 ug/L	2.4-Dintendaliane	0	3 9	2 2	: = ?	: 5 5	) <del>-</del>	3 9
### 91–98 – 7 ug/L 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10	26-Distroplyere		5 5 5	<b>\$</b>	2 2	5 5	\$ \$ \$	2 2
### 96-57-6 ug/L 10U 10U 10R 10U 10R 10U 10U 10U 10U 10U 10U 10U 10U 10U 10U	2-Chloronaphthelene		3 C	<b>3</b>	<b>D</b>	<b>10</b>	2	2
#### 91–57–6 ug/L 10	2-Chlorophenol	_	5	5 5	# OF	<b>A</b> 64	200	200
80-48-7 ugh. 100 100 100 100 100 100 100 100 100 10	2-Mothytraphthelene		25	ر د ز	⊋ :	\$ ;	<b>2</b> :	<b>2</b>
### 7005-72-3 ug/L	2-Menychenol	٦.	2:	2	¥ ;	E :	) 9	2
### 100 - 1	2-Minoshine	* *	)     	<b>3</b> \$	2 2 3 4	8 5	3 8 8	8 5
### 100 -2 ug/L 50 U 50 U 50 U 50 U 50 U 50 U 50 U 50	3.3" — Dichloscherziehe	? ~	28	2 8	2 8	2 8	2 8	28
mol         534-52-1         50 U         50 U         50 R         50 R           101-55-3         ug/L         10 U	3-Nitroeniline		3	38	36	3	3	28
New Total 55-3 ug/L         100 to to to to to to to to to to to to to	4,6-Dintro-2-metrychenol	_	200	200	E 98	8	30S	28
106-47-6 ug/L         10 U	4-Bromophenyl phenyl ether		3 2	<b>16</b>	5 5	<b>5</b>	<b>⊅</b>	<b>₽</b>
7 7005-72-3 ug/L 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10	4-Chloroeniline		<b>5</b>	<b>⊅</b>	<b>5</b>	10 U	<b>5</b>	2
39–50–7     ug/L     10 U     10 H     10 H       100–44–5     ug/L     10 U     3 J     10 H     10 H       100–02–7     ug/L     50 U     50 U     50 U     50 U       100–02–7     ug/L     10 U     10 U     10 U     10 U       208–36–8     ug/L     10 U     10 U     10 U     10 U       120–12–7     ug/L     10 U     10 U     10 U     10 U	4-Chlorophenylphenyl ether	ů	J 6	\$ ⊃	<b>5</b>	<b>5</b>	2	2
108-44-5 ug/L     100     3J     10R     10R       100-01-6 ug/L     50U     50U     50U     50U       100-01-6 ug/L     50U     50U     50R       100-01-7 ug/L     10U     10U     10U       206-96-8 ug/L     10U     10U     10U       120-12-7 ug/L     10U     10U     10U	4-Chloro-3-methylphenol		<b>⊅</b>	<b>5</b>	5 Æ	5 A	<b>\$</b>	2
100-01-6 ug/L 50U 50U 50U 50U 50U 50U 50U 50U 50U 50U	4-Methylphenol		<b>5</b>	70	5 E	5 5 8	5 5	2
not 100-02-7 ug/L 50 U 50 U 50 R 50 R mme 85-32-9 ug/L 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10	4-Nitroeniine		O 05	⊃ 8	200	2 8	<b>&gt;</b>	<b>S</b>
THE SC-32-9 UGA 10U 10U 10U 10U 10U 10U 10U 10U 10U 10U	4-Nitrophenol		3 8	3: 8:	CC :	8	2 28	8
Agree 228–96–8 u.g/. 10U 10U 10U 10U 10U 10U 10U	Acenephilhene		<b>⊃</b>	9	<b>9</b>	<b>\$</b>	<b>9</b>	2
10.0 10.0 10.0 10.0	Acemephilitylene		9	2		<b>9</b>	<b>5</b>	<b>9</b>
	(Antidocus	1	001	200	700	000	70.0	

U= Compound not detected

J= Estimated value

E= Estimated concentration above quantitation lim

					APPEI	APPENDIX M				ı
PROCEEDING   15 AREFG STE ANY SETTION   19 ARE					RESULTS OF S	YOAS IN WATER				
Processor   Proc					161 AREFG SITE	INVESTIGATION				
Description         Web Collected         Web Coll					PHOENIX	, ARIZONA				
Decided	Sample Number:			MWS-01-01A	MW8-01-02	MW8-02-01	MW8-02-02	MW8-02-02 DUP	MW8-03-01	ļ
thick         BBSADO         BBBSADO         BBBSADOO         BBBSADOO         BBBSADOO         BBBSADOO         BBBSADOO         BBBSADOO         BBBSADOO	Sample Date:			15-Apr-91	24-Jun-91	12-Apr-91	28-Jun-91	26-Jun-91	10-Apr-91	
### 19-46-49 10-44-49 10-44-49 10-44-49 100-44	Lab Number:			883305	BB6943	BB3090	889173	889173	862834	
District	Prep Date:			18-Apr-91	01 Jul 91	17 - Apr-91	05-Jul-91	16-JM-91	17 - Apr - 91	
Section   Sect	Armiysis Date:			29-Apr-91	09-Jul-91	19-Apr-91	00-34-91	00-Jul-91	19-Apr-01	- 1
Section   Sect	Benzoicacid	65-65-0	ğ	208		208		80		
Machine   Mach	Benzolelanthracene	56-55-3	절	<b>5</b>	5 €	J 01	<b>5</b>		J 01	
Microscopic   Microscopic	Benzo(a)pyrene	50-32-8	궣	<b>10</b>	10 U	J 01	J 0 L	<b>5</b>	<b>J D</b>	
State	Benzo(b) Rioranthene	205-99-2	ş	<b>5</b>	10 U	10 C	5 5	J 62	<b>J 6</b> L	
March   Marc	Benzo(g.h.))perylene	191-24-2	Ž,	<b>10</b> C	<b>5</b>		5 5	5	5 5	
Interception   100   1	Benzo(k)fluomnthene	207-08-9	ş	<b>5</b>	5 5		<b>5</b>	5 5	5 5	
Intercontrol production   111-14-4	Benzyl alcohol	100-51-6	됳	<b>5</b>	<b>5</b> 00	J 02	5 5	5 5	5	
111-44 ug/L   101   10	bis 2 - Chloroethoxy) methers	111-91-1	ş	J 01	<b>5</b>	<b>.</b> 6 ∪	<b>.</b> 5	10 C	<b>5</b>	
17-81-7   19-80-1   190   19	bis 2 - Chloroethyf) ether	111-44-4	ዿ	<b>J</b>	<b>⊅</b>	10 U	J 01	<b>5</b>	\$ 5	
The control of the	bis 2 - Chlorolsopropy() ether	106-60-1	7	10 C	5 5	5 5	<b>⊅</b>	<b>3</b>	5 5	
100   100	bis 2 - Ethythexyt) phthabts	117-81-7	ğ	<b>5</b>	<b>10</b>	10 C	J 01	3 <b>6</b> 2	5 5	
12.2 - 01 - 0 ug/L   10 U	Butyl benzyl phthalate	65-68-7	Ž	10 U	J 01	5 5	<b>J</b> 05	<b>3</b> 00	<b>\$</b> ⊃	
Administration         152—64—9         ug/L         100	Chrysene	218-01-9	Ž	<b>5</b>	<b>J</b> 6	<b>5</b>	10 C	J 62	5 5	
Sylication         53 – 70 – 3 ug/L         10 U         10	Dibenzofutan	132-64-9	ዿ	<b>10</b>	<b>10</b>	10 C	<b>5</b>	J 6	200	
pictolishies         84–66–2         ug/L         10 U	Dibenzo(e,h)anthracene	53-70-3	ş	10 C	<b>16</b>	J 01	3 5	5 5	ئ ت	
13 - 14 - 3 ug/L   10 U   10	Diethyl phthalate	24-68-2	る	<b>10</b> C	5 5	<b>5</b>	<b>5</b>	5 D	5 5	
Local princip	Dimethyl phthelate	131-11-3	ž	<b>.</b> 6	5 5	<b>J</b> 0-	<b>5</b> ⊃ <b>6</b>	10 C	<b>5</b>	
cotyl pitfallate         117–64-0 ug/L         100         100         100         100           here         205–44-0 ug/L         100         100         100         100         100           coroberzene         118–74-1 ug/L         100         100         100         100         100           coroberzene         118–74-1 ug/L         100         100         100         100         100           coroberzene         67-68-3 ug/L         100         100         100         100         100           corospicioperia diene         67-72-1 ug/L         100         100         100         100         100           corospicioperia diene         67-72-1 ug/L         100         100         100         100         100           incomplement         67-72-1 ug/L         100         100         100         100         100         100           ince         250-30-5 ug/L         100         100         100         100         100         100           ince         250-30-6 ug/L         100         100         100         100         100         100           ince         250-6 ug/L         100         100         100         100         100 <th>Di-n-butyl phthalate</th> <th>84-74-2</th> <th>Ž</th> <th><b>10</b> C</th> <th>5 J</th> <th>5 5</th> <th><b>10</b> C</th> <th>5 5</th> <th>5 5</th> <th></th>	Di-n-butyl phthalate	84-74-2	Ž	<b>10</b> C	5 J	5 5	<b>10</b> C	5 5	5 5	
beine         206-44-0         ug/L         10 U	Di-n-octyl phthalate	117-84-0	됳	<b>.</b> 5	<b>5</b>		5 5	5 5	5 5	
ee -73-7         ug/L         10 U	Fluoranthene	206-44-0	됳	± 5 €	7 P	10 t	5 5	10 U	5 5	
toroberzene         116–74–1         10U	Fluorene	86-73-7	ž	<b>2</b>	J 0 L	5 5	J 01	<b>5</b>	5 5	
broobuildine         87 – 68 – 3 ug/L         10 U         10 U         10 U           broobuildine         87 – 68 – 3 ug/L         10 U         10 U         10 U         10 U           forcestioneral distriction         77 – 47 – 4 ug/L         10 U         10 U         10 U         10 U           forcestioneral distriction         167 – 20 ug/L         10 U         10 U         10 U         10 U           incomplement of the control of	Hexachiorobenzene	118-74-1	支	<b>5</b>	J 0 L	J 01	<b>5</b>	J 61	5 5	
torocyclopertediane         77-47 - 4 ug/L         10 U	Herachlorobutadiene	87-68-3	す	<b>5</b>	10 U	10 t	5 5	J 65	5 5	
100   100	Heranchlorocyclopentadiene	77-47-4	절	<b>5</b>	J 01	10 OF	<b>₽</b>	5 5	3	
1,2,3—cd)pyrene         193–39–5         ug/L         10 U         10 U </th <th>Herachioroethane</th> <th>67-72-1</th> <th>절</th> <th>10 t</th> <th><b>70</b></th> <th>700</th> <th>J 05</th> <th>20</th> <th>5</th> <th></th>	Herachioroethane	67-72-1	절	10 t	<b>70</b>	700	J 05	20	5	
one         78–59–1         ug/L         10 U         <	Indeno(1,2,3-cd)pyrene	193-39-5	ź	10 C	5 5	<b>⊃</b> •	5 5	J 01	5 5	
siene         91-20-3         ug/L         10 U	kophorone	78-59-1	ž	<b>5</b>	<b>5</b>	5 5	10 U	5 5	5 5	
nzere         96–95–3         ug/L         10 U	Naphthalene	91-20-3	ጀ	<b>5</b>	16 C	5 5	<b>⊅</b>	J 05	5 5	
seciplemytamine         86–30–6         ug/L         10 U         10 U <th>Mirobenzene</th> <th>86-85-3</th> <th>ğ</th> <th><b>J</b></th> <th>5 5</th> <th><b>10 t</b></th> <th>16 U</th> <th>J 61</th> <th>5 5</th> <th></th>	Mirobenzene	86-85-3	ğ	<b>J</b>	5 5	<b>10 t</b>	16 U	J 61	5 5	
sec-di-n-propylamine         621-64-7         ug/L         10 U         1	N-Mirosodiphenylamine	98-30-6	る	<b>10</b>	J 6	± 0 €	5 5	5 5	2 P	
vicrophenol 67-66-5 ug/L 50 U 50 U 50 U 50 B threne 85-01-6 ug/L 10 U 10 U 10 U 10 U 108-95-2 ug/L 10 U 10 J 10 J 10 U 10 U	N-Nitroso-di-n-propylamine	621-64-7	ž	<b>5</b>	J 6	<b>5</b> ∪ <b>6</b>	J 6	J 01	5 5	
threne 85–01–6 ug/L 10U 10U 10U 10U 10U 10U 10U 10U 10U 10U	Pertechlorophenol	87-08-5	ž	28	2 8	<b>7</b> 86	<b>&gt; 06</b>	E 98	<b>2</b>	
108-95-2 ug/L 10 U 10 U 10 U 10 U 10 U	Phenanthrene	85-01-8	3	<b>5</b>	5 5	5 5	J 6	J 02	5 5	
129-00-0 ug/L 10 U 10 U 10 U	Phenol	108-95-2	ž	<b>\$</b>	±0 €	10 t	T E	# 0t	5	
	Pyrene	129-00-0	Z V	10 U	10 U	10 U	10 U	10 U	10 U	

U = Compound not detected J = Estimated value R = Result rejected in validation

ALTENDIA W	HENCE TO OF STORE IN WAIRE	161 AREFG SITE INVESTIGATION	PHOENIX ARIZONA
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Sample Number:		MWS-03-02	MWS-04-01	MWS-04-02	P8-2-01	P8-2-02	MW1-02-01A
Sample Date:		28-Jun-91	11-Apr-91	27-Jun-91	09-Apr-91	29-Jun-91	18Apr81
Lab Number:		889175	BB2835	889111	882633	BB0150	883838
Prep Date:		05-Jul-91	17-Apr-91	03-Jul-91	15-Apr-91	16-7r-90	23-Apr-#1
Analysis Date:		08-Jul-91	19-Apr-91	08-Jul-91	17-Apr-91	16-77-00	16 - Mary - 91
COUMPOUND	CASE NUMBER UNITS						
Berzoic acid	65-85-0 uo/L	200	200	S	er Sr	98	799
Berzolalenthracene	_	J 05		100	30	2	2
Bertzofalovrene	_	J 01	J 01	. O.	. O		2 2
Benzo(b)fluoranthene	- N	<b>10</b>	10 C	J 01	J 01	200	200
Benzo(a.h.)penylene	191-24-2 ug/L	<b>10 C</b>	<b>3</b> 6	J 01	10 C	200	2 2 2
Benzoftifluoranthene	_	10 C	J 01	U 01	J 01	J 01	2
Benzył alcohol	100-51-6 ug/L	<b>5</b>	10 C	10 C	10 E	7 P	2 2
bis(2Chibroethoxy)methane	111-91-1 ug/L	<b>10</b>	<b>10</b> C	10 C	10 C	<b>5</b>	2
bis(2-Chbroethyl)ether	111-44-4 ug/L	<b>10</b> C	10 C	10 C	262	200	201
bis(2-Chbroisopropyf) ether	_	<b>5</b>	10 C	10 C	J 01	J 61	701
bis (2 Ethyfhexyf) phthalate	_	10 t	100	J 01	J 05		2
Butyl benzyl phthelide	85-68-7 ug/L	<b>10</b> C	10 C	10 C	<b>2</b>	J 92	79
Chrysens	216-01-9 ug/L	5	<b>J</b> 0	10 C	10 t	10 C	201
Dibermofuran	•	<b>10</b> C	<b>10</b>	10 C	<b>5</b>	10 C	<b>3</b>
Dibergo(a,h)anthracene	53-70-3 ug/l	<b>J</b> 01	10 U	10 U	J 05	J 01	2
Diethyl phtheinte		100	10 C	100	<b>10</b>	10 C	202
Ofmethyl phthalate	131-11-3 ug/L	<b>10</b> C	100	3 O C	10¢	10 C	<b>3</b>
Di-n-butyl phthalate		10 U	10 C	<b>10</b>	5 5	5 5	25
Di-n-octyl phthalate		10 U	10 C	10 C	<b>5</b>	<b>.</b> 6	<b>J</b> 9
Fluoranthene	0	10 0	10 U	10 C	5 5	3 5	<b>3</b>
Fluorene	96-73-7 ug/L	J 01	J 6	30 0	<b>5</b>		25
Hemchlorobenzene	_	10 C	) (1)	10 P	J 05	J 0	<b>⇒</b>
Herachiorobuladiene		) 	) )	100	200	J 0	20
Hexachiorocyclopentaciene		10 C	200	<b>1</b> 00	<b>⊃</b> :	) 	<b>→</b>
Hexachioroedhane		0.00	25		) ot	30 C	2
Indeno(1,2,3-cd)pyrene	193-39-5 ug/L	10 t	) O C	) 	) •	<b>9</b>	<b>9</b>
Rephorone		2	) ·	0.0	) (	<b>₽</b>	25
Malphanemen		2	7.	7	2	8	) : 
Netobergene	_	000	) (1)	000	2	2	<b>⊃</b> :
N-Nitrosodiphenylamine	Ξ.	) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	001	<b>10</b>	) 	<b>5</b>	2
N-Ntroso-di-n-propytemine		100	000	100	) or	<b>⊃</b> :	2
Pertachlorophenol	87-86-5 ug/L	⊃: 86:	) S	<b>S</b>	86 °	000	2 8
Phenanthrene		) (1)	10 U	20 C	<b>5</b>	<b>5</b>	<b>7</b>
Phenol	_	) O C	7 (		5 E :	<b>7</b>	<b>9</b>
Pyrene	128-00-0 ug/L	0.01	<b>D Q L</b>	0 04	<b>D</b>	100	2
- Commercial and deduction							

U = Compound not detected J = Estimzied value R = Result rejected in validation

Sample Number: San Sample Date: San Lab Number: San Lab Number: Lab Lab Number: Lab Lab Number: Lab Lab Analysis Date: Lab Anal	Sample Number: Sample Date: Ab Number: Yep Date:					THURMAN AMEDIAN						
CAS CAS CAS CAS CAS CAS CAS CAS CAS CAS				MWB-01-01A 15-Agr-81 883280 18-Agr-81	MWS-01-02 24-Jun-01 888947 63-14-81	12-Apr-01 12-Apr-01 883000 18-Apr-01	26-34-02-02 26-34-91 889167	26-147-61 26-147-61 886168	10-Apr-01 10-Apr-01 983829	1000-03-02 10-74-01 10-74-01	10-707-01 10-707-01	20-20-00 10-17-52 20-20-00
CAS CAS COUNTS NUMBER UNTS NAMES UST AL 7440-28-0 UST. An 7440-28-0 UST. An 7440-28-2 UST.	- Const			22-Agr-61	16-1750	23-Apr-01	12-Jul-81	12-34-01	22-Apr-91	12-34-01	10 - V- 21	3
7428-86-5 ugf. At 7440-84-9 ugf. At 7440-84-9 ugf. At	GRINOS	CAS				i						
7440-38-0 ug/. 7440-88-2 ug/.	aminum.	7428-80-5	3	2	200	2		7.4.0	F 1 / 29	7 904	9	1
7440-36-2 LOA	Antimony	7440-36-0	ş	200	28	206	8	2	8	8	9	9
	Trent	7440-36-2	ž	5.4 SR	<b>6.2</b> J	6.7 J		7.4.5	7.0.4	3.4.8	6.7.4	799
2	5	7440-38-3	둏	<b>\$6.7</b> 5	46.6 J	79.8		. <b>8</b>	77.2	7002	47.4	7.00
<b>5</b>	E E	7440-41-7	ž	2	2	<b>-</b>		<b>&gt;</b>	-	-	2	2
7440-43-8 ugh	dmirm	7440-43-8	셯	<b>3</b>	2	2	<b>2</b>	2	3	3	2	3
<b>5</b>	total	7440-70-2	支	<b>20</b>	0000	71500		67900	96200	90808	81400	20808
7440-47-9 ug/L	romitm	7440-47-3	ž	5	<b>5</b>	10 C		<b>5</b>	•		200	200
Cobelt 7440-48-4 ugf. Cot	T T	7440-48-4	¥	28	28	2 8		2	28		28	2
Cepper 7440-50-9 ug/L Cot		7440-50-8	4	5 5	7 7 7	<b>10</b> ℃		<b>5</b>	\$		19.2 J	2 2
from 7430-48-6 ug/L from	<b>-</b>	7438-88-6	¥	12.4	1.0.E	2.2.		14.9	79.5		70.4	15.0
	2	7438-82-1	ž	2	3	<b>35</b> 8		3	20		26	2
7438-96-4 ugf. H	- Cheeken	7438-96-4	ş	22600	24800	28700		2750	2000		1000	2000
3		7438-86-5	ž	49.0	⊋	2		<u>\$</u>	3.9		2	2
3	rouy	7450-87-6	ž	0.2 CW	0.2 0.2	6 2		0.20	0.2 5%		0.8 U	0.2 U
Mere 7440-02-0 ug/. Met	Ī	7440-02-0	7	28	> &	2 8		28	28	2	2	2
ş		7440-08-7	둏	- O	8	2		5170	25			
4	etentra	7762-48-2	ž	8 C8	3	₹ ~		3	¥5 8			
	<u> </u>	7440-22-4	둏	<b>⊋</b>	7 <b>9</b> .	26		2	2			
Sodium 7440-23-5 ug/L Sod		7440-23-5	ş	136000	138000	122000		120000	107000			•
_	Ę	7440-28-0	ş	2 2	32	*5°		3	2			
Variation 7440-62-2 ugf. Van	magen	7440-62-2	ş	<b>5</b>	5	<b>10</b>		200	200		70.0	
_	9	7440-06-6	ş	27.0	16.6	\$	24.3 J	12.4 J	Z	28.4	***	70.12
NBrato 14797 - 55 - 8 mg/L NBr	•	14787-66-8	Age	50	2.4	2	7	2	Č			
MP-16 mg/L NB-	2		may	20	20	2	2	2	2	. ~		

U = Compound not detected
J = Estimated value
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						CAST COLOR	TAXABLE TAX			
					4	RESULTS OF INORGANICS IN WATER	MORGANICS IN IVA	TES		
					•	161AREFG SITE PHOEND	161AREFG SITE INVESTIGATION PHOENIX, ARZONA	>		
Samole Number:			MW2-02-02 DUP	MW4-01-01	MW4-01-02	MW4-02-01A	11A MW4-02-02	MW5-01-01A	MANS-OI-01A-DUP	MWS-01-02
Sample Date:			25-Jun-91	08-Apr-91	26-Jun-91	16-Apr-91	26-Jun-91	16-Apr-91	16-Apr-91	20-1-52-52
Leb Number:			BB3060	BB2474	<b>BB9101</b>	BB3510	BB8062	BB3678	BB3679	
Prep Date:			03-Jul-91	16-Apr-91	03-Jul-91	24-Apr-91	03-Jul-91	24Apr91	24Apr91	F-7-8
Analysis Date:			16-7r-81	1	03-Jul-91	25-Apr-91	03-74-81	25-Apr-91	25-Apr-91	00-14-91
	S¥3									
COMPOUND	NUMBER	CNITS								
Atminum	7429-90-5	705	<b>20</b>	<b>40</b> ∪		59.6 5	707		50.3	7.8
Antimony	7440-36-0	5	200	200		300	<b>⊃ ⊗</b>		<b>⊃</b>	2
Arenic	7440-38-2		5.48	25 C		8.4	14.2		3.6 J	S.1.5
Paris II	7440-39-3	5	47.58	217	186.	121 J	118	99.96	54.5	228
Bereitin	7440-41-7	4	7	2		2	2		2	2
Cadmium	7440-43-9	404	⊃ <b>s</b>	20					26	<b>3</b>
Calcium	7440-70-2	7	4962	181000					96500	00730
Chromium	7440-47-3	4	100	100					<b>5</b>	<b>5</b>
Cobell	7440-48-4	Ą	28	200				28	⊃ &	28
Copper	7440-50-8	ਬੂ	21.88	100				10.1	<b>⊅</b> 01	7
5	7439-89-6	ş	14.48	12)				24.2 J	50.5	18.2
9	7439-92-1	亨	20	20	2 m		20	20	2N	2
Macnesium	7439-95-4	Ą	1986	61900				26700	<b>8</b>	2720
Mendense	7439-96-5	Ą	2.18	16.8			2 U	2U	50	2
Mercury	7439-97-6	Ą	0.2 U	0.2 U			0.2 U	0.21	0.20	020
Zeke	7440-02-0	4	28	28			2	28	<b>≈</b>	2
Potassium	7440-09-7	7	4653 B	1770			76.	4380	489	
Selentum	7782-49-2	Ą	20	<b>₹</b>				2	2	<b>3</b> €
SEVE.	7440-22-4	ዿ	20	20	18.8	G.9		2€	3	723
Sodium	7440-23-5	4	136184	238000				143000	130000	18000
The Figure	7440-28-0	4	20	2 CM				20	08	3
Vanadium	7440-62-2	ş	10.48	10 €		<b>6</b>	36.95	<b>10</b>	<b>10</b> C	2
Zino	7440-66-6	す	20.3	38.3	27.7	10.8 J	12 J	10.2 J	2	78.8
	9 20 200.7	1						76	6	8
	0-00-18/41							20	20	20

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