1R -

REPORTS

DATE:

2002



ALLSTATE ENVIRONMENTAL SERVICES, LLC



P.O BOX 11322 MIDLAND, TEXAS 79702 OFFICE: (915) 682-3547 FAX: (915) 682-4182

> SEP 24 2002 Environmental Bureau Oil Conservation Division

September 16, 2002

Mr. Wayne Price
New Mexico OCD
1220 S. Saint Francis Dr.
Santa Fe, NM 87505
SUBJECT: Closure Report – Saga U.D. Sawyer SWD Pit

Dear Mr. Price,

On September 3, 2002, Allstate Environmental Services, contracted by Saga Petroleum, began completion of the closure plan at the Saga U.D. Sawyer salt water disposal pit located 5 miles east of Crossroads in Lea County, New Mexico.

Having decreased the TPH and Chloride levels to the requirements of the State, the bottom of the pit was covered with a 20 mil sheet of plastic lining, then backfilled with the remainder of soil around the pit, followed by native area soil to complete the backfill plus an 18" cap to allow for settlement and drainage. The area will be reseeded with native grasses in the spring of 2003.

Included in this report are photos of the area and a diagram of the subsurface arrangement of the liner and soil.

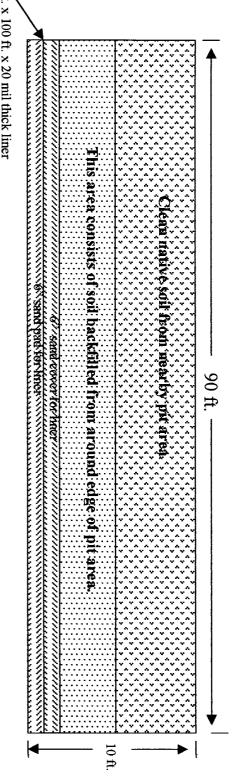
Please feel free to call Hamp Kerby, 915-528-5716, or Bobby Blackwood, 505-631-3744, with any questions or concerns regarding this closure report.

Sincerely,

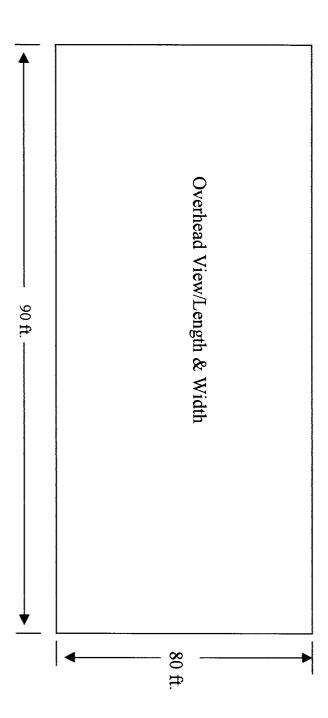
C. H. Kerby

Detailed Horizontal Sketch of U.D. Sawyer Pit Site as of Sept. 6, 2002

4074 cu. yds. Clean fill soil



100 ft. x 100 ft. x 20 mil thick liner

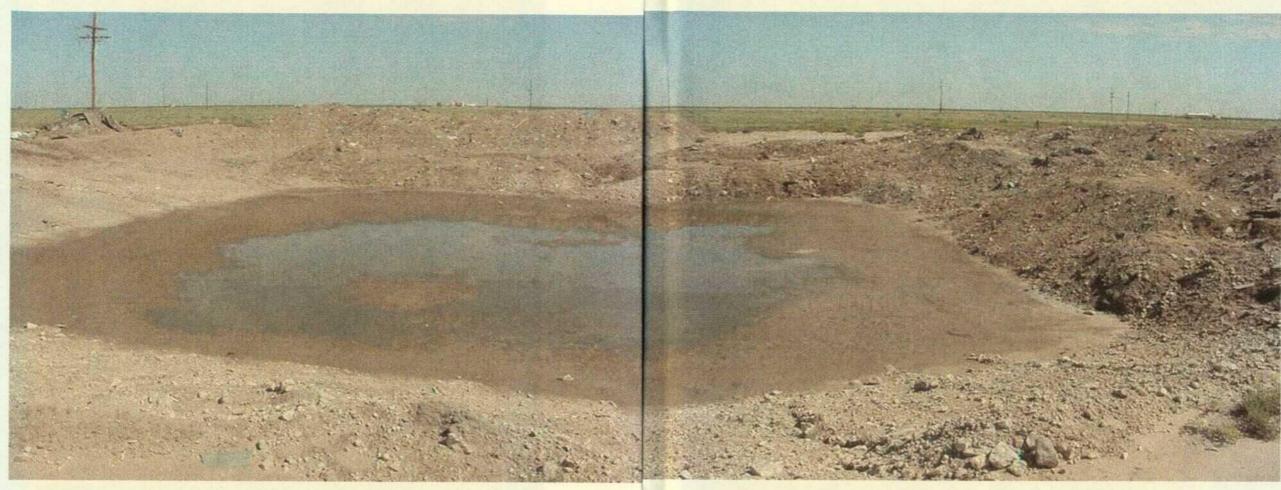




Saga Petroleum U. D. Sawyer Swo Pit Sept. 7, 2002



Saga Petroleum U. D. Sawyer SWD Pit Sept. 5, 2002



Aug. 29, 2002 Saga Peti U. D. Sawyer SWD Pit

Price, Wayne

From:

Sent:

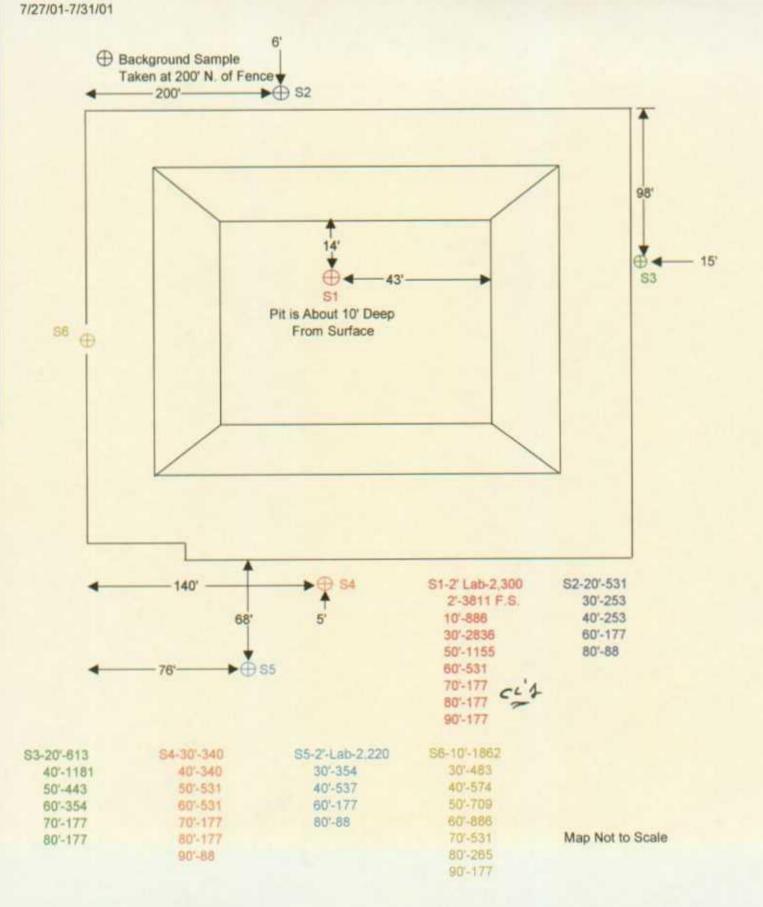
To:

Subject:

Price, Wayne
Thursday, March 28, 2002 2:41 PM
'ALLSTATEENV@aol.com'
Saga Projects- 1R0316 Todd Lower San Andres Unit Pit; and 1R0337 UD Sawer water pit

What is the status of the two projects?

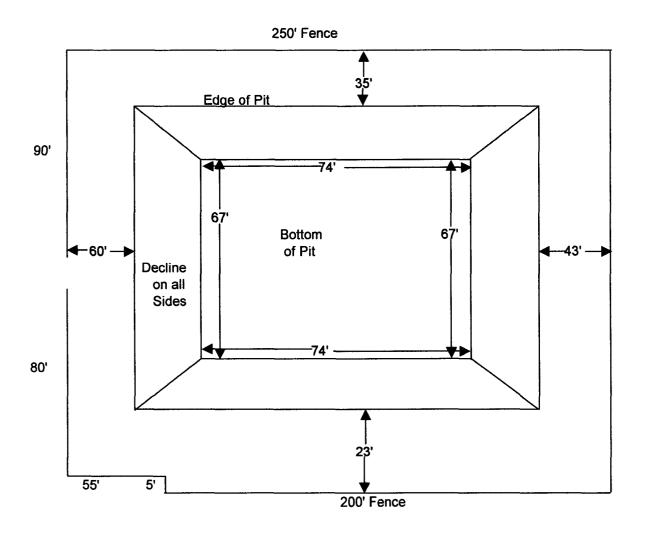




Saga Petroleum U.D. Sawyer Salt Water Disposal Crossroads, NM

Sec. 34-T-95-R-36E Lea, Co. Unit A 7/27/01-7/31/01





Map Not to Scale

Price, Wayne

From:

Price, Wayne

Sent: To: Monday, July 01, 2002 2:55 PM 'ALLSTATEENV@aol.com'

Subject:

RE: (no subject)

APPROVED!

Please be advised that NMOCD approval of this plan does not relieve Saga of liability should their operations fail to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD approval does not relieve Saga of responsibility for compliance with any other federal, state, or local laws and/or regulations.

----Original Message----

From: ALLSTATEENV@aol.com [mailto:ALLSTATEENV@aol.com]

Sent: Monday, July 01, 2002 2:51 PM

To: wprice@state.nm.us Subject: (no subject)

Wayne, the attachment is the letter (dated 4-10-02) I last sent ammending other plans we have sent in. Analytical and maps/sketches are attached to previous plans.

Price, Wayne

From: Sent: ALLSTATEENV@aol.com Monday, July 01, 2002 2:51 PM

To:

wprice@state.nm.us

Subject:

(no subject)



Saga Sawyer Plan, amends Jan. ...

Wayne, the attachment is the letter (dated 4-10-02) I last sent ammending other plans we have sent in. Analytical and maps/sketches are attached to previous plans.

April 10, 2002

New Mexico Oil Conservation Division 1220 S. Saint Francis Drive Santa Fe, New Mexico 87505 Attn: Mr. Wayne Price

SUBJECT: Saga Petroleum L.L.C. U.D.Sawyer Salt Water Pit – Near Crossroads, N. M.

Dear Mr. Price,

On behalf of Saga Petroleum, Allstate Environmental Services would like to submit the following closure plan for the subject site in northern Lea County, New Mexico.

Based on information (enclosed) accumulated and provided in the closure plan from August 11, 2001, Allstate in concurrence with Saga, proposes that the bottom of the pit area be lined with a layer of 20 mil thick plastic sheeting, then the excavated material forming the berm around the pit be pushed in over the top of the barrier material. Clean soil will then be used to finish filling in the depression, brought back to grade and seeded with native grasses.

This plan serves as an amendment to the plan dated January 11 of this year. Your time in reviewing and replying to this plan is greatly appreciated.

Sincerely,

Hamp Kerby, Allstate Environmental Services

APPROVAL

Joe Clement, Engineer - Saga Petroleum, LLC

Price, Wayne

From:

Price, Wayne

Sent:

Thursday, January 10, 2002 3:07 PM

To:

'ALLSTATEENV@aol.com'

Subject:

RE: Saga U.D. Sawyer Salt Water Pit

Dear Hamp:

Please modify the orignal proposal to reflect the changes. OCD will then review for approval. Please send me the contact name and address of the operator.

----Original Message----

From: ALLSTATEENV@aol.com [mailto:ALLSTATEENV@aol.com]

Sent: Thursday, December 13, 2001 10:25 AM

To: wprice@state.nm.us

Subject: Saga U.D. Sawyer Salt Water Pit

Wayne,

I visited with Randy this morning about the two questions: 1) encounter any ground water in drilling? He said no water...2) Clay or Kiln dust pit bottom? He said the pit is still open. A couple of weeks ago you and Randy talked in Hobbs and he said you mentioned going another 20 ft. down with the pit, then sealing it and back filling it with the berm. We intend to use kiln dust to seal the bottom of the pit. We will proceed when we know you approve.

Randy is working in the Jal area and asked me to reply to you.

Regards,

Hamp Kerby for Randy



ALLSTATE ENVIRONMENTAL SERVICES, LLC



ON CONSCIPLION DIV.

P.O BOX 11322 MIDLAND, TEXAS 79702 OFFICE: (915) 682-3547 FAX: (915) 682-4182

IR0337

August 31, 2001

New Mexico Oil Conservation Division 1220 S. Saint Francis Dr. Santa Fe, New Mexico 87505 Attn: Wayne Price

Dear Mr. Price:

Enclosed please find the closure plan for the U.D. Sawyer Salt Water Pit.

I will e-mail a copy to you, if you will let me know your e-mail address. You can reach me at (915)682-3547.

Thank you,

Peggy Swails



August13, 2001

churk FARMER

New Mexico Oil Conservation Division 1220 S. Saint Francis Drive Santa Fe, New Mexico 87505 ATTN: Mr. Wayne Price

Dear Mr. Price,

Saga Petroleum L.L.C. of Midland, Texas would like to submit for your review and approval the following closure plan for the U.D. Sawyer Salt Water Pit located in the Lea County New Mexico, whose legals are, Section 34- Township 95- Range 36E- Unit A.

<u>History</u>

The pit was used by the previous operator of the lease as a produced saltwater containment in the production of oil. The impoundment was lined at the onset of it's use, but due to the lack of use, the fiberglass liner deteriorated and the containment became unlined in some areas.

On July 31,2001 Allstate Environmental Services L.L.C. (AES) delineated the pit area using an air rotary drilling rig with a split spoon sampling tool. Five (5) soil bores were drilled to a depth of eighty (80) feet to ninety (90) feet. (See map APPENDIX B) Split spoon samples were taken at ten (10) foot intervals except for S-1, and there was a two (2) foot sample taken being that this soil bore was in the bottom of the containment.

Fax (915) 684-0829

The samples taken during the delineation process were titrated on site by AES employees (see map APPENDIX B). Some surface samples and bottom hole samples were transported to Environmental Labs of Texas for confirmatory analysis(see analytical).

Soil bores S-1 and S-5 were analyzed for total metals using EPA methods SW 846-7470, 6010B, BTEX using methods EPA SW 846-8021bB, 5030, TPH using methods EPA SW 846-8015M, GRO-DRO chlorides –methods EPA SW 846-9253(see ANALYTICAL). A background sample was taken from a neutral location and analyzed for total metals, BTEX, TPH, and chlorides using the same methods as above (see ANALYTICAL).

*NOTE- Soil bore S-5 is located across the lease road south of the contaminated area on a pipeline right of way (see map APPENDIX B).

Plan of Action

Saga Petroleum L.L.C. after examining the information obtained from the State Engineers Office Roswell, New Mexico (see APPENDIX C) concerning the depth to groundwater in the area of the U.D. Sawyer Saltwater containment, two (2) wells were drilled. One, northwest of the ranch house and the other southeast of the containment proving, that very little if any water exists under the pit. These two (2) wells were drilled in proximity of the pit, one to a depth of 180 feet (see APPENDIX C) with only "seep water", the other to a depth of 200 feet with no water. Thru the analytical obtained during delineation (see ANALYTICAL) and the depth to groundwater report, (see APPENDIX C) the threat of contamination affecting the water in the area is nil.

Saga Petroleum L.L.C. would like to propose that a barrier of either clay or cement kiln dust (CKD) be placed over the bottom of the containment area to prevent any upward wicking. Once the barrier is in place the berms of the containment will be pushed in over the top of the barrier material. Clean soil will then be used to finish filling in the depression and the area will be brought back to grade. Revegetation will be with native grasses of the area next spring.

The landowner, Mr. Joe Ed Williams has been apprised of this plan and is in agreement with it.

Your time in reviewing this plan is greatly appreciated.

Approvals

Charles Farmer, Manager – Saga Petroleum, LLC.

7. Joe Ed Williams, Landowner – Sawyer Ranch

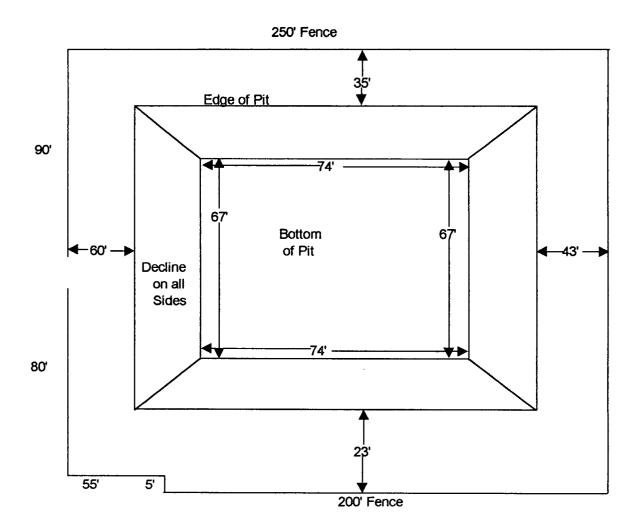
 $\frac{g-27-0}{Date}$

APPENDIXES

Saga Petroleum U.D. Sawyer Salt Water Disposal Crossroads, NM

Sec. 34-T-95-R-36E Lea, Co. Unit A 7/27/01-7/31/01





Map Not to Scale

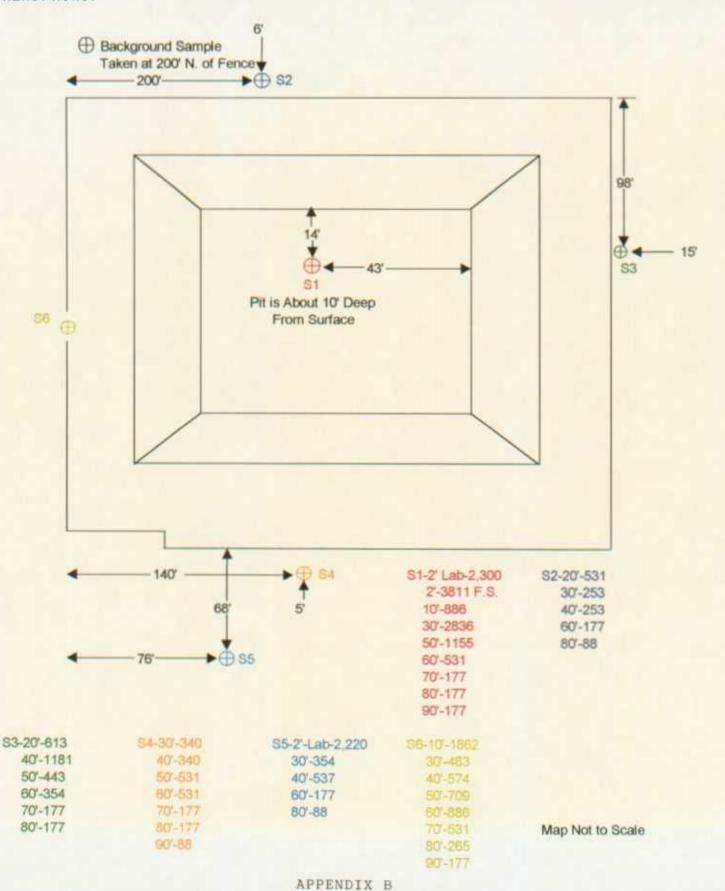
APPENDIX A

Saga Petroleum

U.D. Sawyer Salt Water Disposal

Crossroads, NM Sec. 34-T-95-R-36E Lea, Co. Unit A 7/27/01-7/31/01





OFFICE OF THE STATE ENGINEER

DISTRICT II

1900 W. 2nd STREET

ROSWELL, N.M. 88201 FAX # (505) 623-8559

Fax Transmittal Lead Sheet									
DATE: 8/14/01	NUMBER OF PAGES ATTACHED:								
ATTENTION: Fram									
ORGANIZATION:									
SECTION:									
FROM: Juan Hernandez									
SECTION:									
PHONE #:									
comments: well logs									
TIME SENT: 5'50	FAX # TO: 915- 682-4182								
TELECOPIER OPERATOR:	JA								

APPENDIX C

entyrop to beging a security of the security of the entering and the entering of the entering

इ. ५०व (११ ५) १	_		Section 1.	WELL RE	INFORMATION	N Single of the Single Owner		
કુ ઝાલા હતા કેલ્પ્લ A) Owner of	gweigh ned) well	Bo	bby Lewis	មាលសុសប្រើបាន	eng Legren," (bin diri	Owner	's Well No	
Street or	rost Utilice A	daress	<u> </u>					
City and	State	Cr	ossroads,	N.M. 00.			_	
eli was drilled	under Permi	::No <u>, данае, р</u>	<u> </u>	<u>46 97 195</u>	and is located	in the:		
a	_ ¼	¼ ¼ <u>_</u>	¼ of Sec	tion	Township _	Rang	ge	N.M.P.
b. Tract	No	of Map No		of ti	ne			
		of Block No.						
		d ingress				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	an i t	
d. X= the	7 - 7 15 5 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	efeet, Y=		feet, l	N.M. Coordinate	System -		Zone Gran
) Drilling C	ontractor	A Trail of	v 35279.4€1863	<u>172 170 1</u>	113-12 / Tred (c)	License No		
			· -					
evation of lan	d surface of .		Lana a	at w	cll is	ft. Total depth o	of well	 1
mpleted well	is 🗆 s	shallow 🔲	irtesian.		Depth to water	upon completion o	of well	
		: Sec	tion 2. PRINC	IPAL WATI	ER-BEARING ST	ΓRΑΤΑ		
Depth	n Peet	Thickness in Feet			f Water-Bearing I			ated Yield
From	To	III FEEL				(ganons	per minute)	
			7			,		· · · · · · · · · · · · · · · · · · ·
			++					
11	********	 						
Diameter	Pounds	Threads		3. RECORI n Feet	O OF CASING	· · · · · · · · · · · · · · · · · · ·		Perforations
(inches)	per foot	per in.	Тор	Bottom	Length (feet)	Type of Shoe	Fro	
. Withit								
		1 1						
								
		<u> </u>			ļ			
· · · · · · · · · · · · · · · · · · ·			A		DING AND CEM	ENTING		
Depth i	п геег.; То	Hole Diameter	್ರಹಣ್ಣSacks of Mu		Cubic Feet of Cement	Method	of Placeme	ent
V.	7.		Maice.	7447			· • • • • • • • • • • • • • • • • • • •	_ · · · · · · · · · · · · · · · · · · ·
		:	2845 T	17 1143			 ·	
. , , 6,	2.33		8342 4	"V 0/ / \	1.66.22000			<u> </u>
	, .;	<u> </u>	ji Taniyota	1.75.				
gging Contra			22		NG RECORD			
dress	<u> </u>		.,			e in Depth in Fe	et	Cubic Feet
gging Method e-Well Plugge		,			No.		Bottom	of Cement
gging approve	ed by:	:	7 7 52 73	Train	1 2			
		State Eng	ineer Represer	itative	3			
 			<u> </u>					
e Received		Typed	FOR USE C 10/24/75		ngineer onl	<u>Y</u>		
1.01.2	1. 27	takana Ma ik ana	;LU/24/15	Ouac	96.2.1	FWL	* *	FSL
				•	+ + 5 9 55 5 4 1			

mounts on the second of the parameter of the same of the second of the s

STATE ENGINEER OFFICE WELL RECORD AT A MANAGEMENT

	f well					Owner's	Well No	
City and	State							
ll-was:drilled	i under Permit	Not be the o	T.B.O.C.O.	/emsi:	_ and is located	in the:		
a	_ ¼ ;	4	¼ of S	ection	Township	Range		N.M.P
b. Tract	No	of Map No.		of the				
Subai	itulatur Arzioiti recorde	99.35	.)	······································	ounty. Mokko of 3	er (j. 1885). Elek	٠.	
d. X=	 	feet, Y=		fcet, N.	M. Coordinate	System	<u></u>	Zone
Drilling (Contractor	* 5995	<u> </u>	<u> 14 - 22 - 13 - 1</u>	<u> 1977) (1883)</u>	_ License No		
dress							~	
illing Began							_ Size of hole.	
vation of la	nd surface or _	<u> </u>		at wel	1 is	_ ft. Total depth of	well	
mpleted wel	lis 🗆 s	hallow 🔲 a	rtesian.		Depth to water	upon completion of	well	
- Deeth	in-Gant	Sec	ion 2. PRII	NCIPAL WATER	R-BEARING ST	RATA		Viala
From	To	in Feet		Description of	Water-Bearing F	ormation	Estimated (gallons per	
		 		1 				
			<u>. </u>					
		1						
					· · · · · · · · · · · · · · · · · ·			
			·					
2				7777 3030 000				
				- (1 1 1 1 1 1 1 1				
				on 3. RECORD				
Diameter	Pounds	Threads	Depth	in Feet	Length	Type of Shoe	Perfe	rations
(inches)	per foot	per in.	Top	Bottom	(feet)	Type of Shoe	From	
(inches)		per in.					From	To.
(Menes)		per in.				i	From	То
(inches)		per in.					From	To
(inches)		per in.					FIOM	To
(inches)		per in.					rion	To
(inches)							From	То
(mules)	282		X e g p		NG AND CEM	PINTING	Floin	То
		Section	on 4. RECO	RD OF MUDDI				То
			on 4. RECO	RD OF MUDDI	NG AND CEM.		of Placement	To
Depth From	in Feet	Section Hole	on 4. RECO	RD OF MUDDI	bic Feet Cement	Method		То
Depth	in Feet	Section Hole	on 4. RECO	RD OF MUDDI ks Cu fud of	bic Feet Cement	Method		To
Depth From	in Feet	Section Hole	on 4. RECO	RD OF MUDDI ks Cu fud of	bic Feet Cement	Method		To
Depth	in Feet	Section Hole	on 4. RECO	RD OF MUDDI	bic Feet Cement	Method		To
Depth From	in Feet	Section Hole	on 4. RECO	RD OF MUDDI	bic Feet Cement	Method		To
Depth From	in Feet \(\text{To} \)	Section Hole	on 4. RECO	IRD OF MUDDI	bic Feet Cement	Method		To
Depth From	in Feet	Section Hole	on 4. RECO	IRD OF MUDDI	bic Feet Cement	Method		To
Depth From	in Feet	Section Hole Diameter	on 4. RECO	IRD OF MUDDI	GRECORD	Method	of Placement	
Depth From	in Feet	Section Hole Diameter	on 4. RECO	IRD OF MUDDI	bic Feet Cement	Method Depth in Fe	of Placement	
gging Contra dress gging Metho te Well-Plugge	in Feet	Section Hole Diameter	on 4. RECO	IRD OF MUDDI	GRECORD	Method Depth in Fe	of Placement	ubic Feet
gging Contra dress gging Metho te Well-Plugge	in Feet	Section Hole Diameter	on 4. RECO	IRD OF MUDDI	GRECORD No.	Method Depth in Fe Top B	of Placement	ubic Feet
Depth From	in Feet	Section Hole Diameter	on 4. RECO	IRD OF MUDDI	GRECORD 1 2	Method Depth in Fe	of Placement	ubic Feet
Depth From	in Feet	Section Hole Diameter	Section of Representation of Management of M	iks College of the co	GRECORD No. 1 2 4	Method Depth in Fe Top B	of Placement	ubic Feet
Depth From gging Contra dress gging Metho ie Well-Plugge	in Feet	Section Hole Diameter	Section of Representation of Management of M	IRD OF MUDDI	GRECORD No. 1 2 4	Method Depth in Fe Top B	of Placement	ubic Feet
Depth From	in Feet	Section Hole Diameter State Engi	Section of Representation of Management of M	on 5. PLUGGIN	GRECORD No. 1 2 3 4	Method Depth in Fe Top B	of Placement et Cottom co	ubic Feet

Depth	in Feet	Thickness	Section 6. LOG OF HOLE Color and Type of Material Encountered
From	То	in Feet	
0	32		Surface and caliche
32	55	<u> </u>	Sandrock with stringers of sand
.55	76		Sandy clay
76	114	-	Sand and gravel with layers of sandy clay
114	118		Cemented gravel
118	136		Yellow clay
136	160		Blue shale
160	165		Sandy clay
165	172	1 4.5	Sand and gravel with layers of sandy clay
172	178		White clay
178	180		n en en man en
			War to the second secon
"Seep"	water.		
			;
		-	
	· · · · ·	to to set ;	e especialistic consequences and a second consequences and a second consequence of the consequences and a second consequence of the consequences are second consequences and a second consequences are second consequences and a second consequence of the consequences are second consequences and a second consequence of the consequences are second consequences are secon
		200.	्रे । अन्य में शाम्य भाग भाग भाग सम्बद्धाः अस्ति । । ।
			grant grant to the Hamiltonian that grant is
			and the second of the second o
			and the second s
			The second secon

Section 7. REMARKS AND ADDITIONAL INFORMATION

Location: 9.36.34.222134

Depth of Well: 1805

Owner: Bobby Lewis Year Completed: August 1973

Elevarion: 4021

(500) from east line, 640 from north line, 230 north of oil field road)

Commence of the State of the St

การสำหนัง

Hole by Texaco tanks W-NW of ranch house.

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

WART AT CARGO COMPA

E. H. Sumruld

Driller

INSTRUCTIONS: This form " ruld be executed in triplicate, preferably typewritten, and submitted to propriate district office of the State Engineer. All ns, except Section 5, shall be answered as completely and accurately drilled, repaired or deenened a new this form is used as a plusteing record only Section 1/a) and Continues

ossible when any well is

Depth		Thickness	Color and Type	of Material Encou	intered
From	То	in Feet	gi, garaga Tugʻil 16 yang 1771 umayar 28 (18)		antotod —
0	26		Caliche	STATE OF THE STATE	and the control of the second
26	55	2771-12	Sandrock		
55	74		Sandy clay	1	
74	112		Sand and gravel with laye	rs of clay	admu jermini Kan
112	117		Cemented gravel		
117	134		Yellow clay		
134	167		Blue clay and limestone		
167	178		Sand and shale		
178	182		White clay		
-	<u> </u>	. 170 -1756	20 Mau 1 1 2 2 4 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4	pporas	en et grantistin
182	200	15 m 2002.10	Redated company of the company of th	KPR1-W7	
-				:	·
		1	: : : : : : : : : : : : : : : : : : : :	<u>, </u>	<u> </u>
			:	:	
No water.		45.24	fus Busines (final)		TORN IN
	* .		्याम् विद्वारम् । इक्स्प्रेयः	1200 X 200	30 5
			0888,473 (CEO CERA)		-
					· · · · · · · · · · · · · · · · · · ·
					<u> </u>
		(10.1)	Wilder State of March Descrip	framesky.	Send was per an a star.
		7	A NO LANGE TO A LANGE RANGE OF	3.327 FV	AND THE SECOND STREET, AND THE SECOND
		e ever a la	There y Light on the	क्षा स्टेक्स्स्म १९ व्हा १८८ । व	A CAN DESCRIPTION OF THE PARTY
			in the section of section of the sec	7. J. Mar. 425. 1	Paramatan and American
.		1.2	ering that the transfer sports		ात क्षेत्रस ्ट इ.स.
		-	the control of the co		
	· · · · · · · · · · · · · · · · · · ·	Section 7	PEMARKS AND ADDITIONAL THE	NEW APPROXIMATION	18410 make 71 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		Section /	REMARKS AND ADDITIONAL INFO		
Owner:	n: 9.36. Bobby.L	34.224343 ewis	(635) from ea Elevation: 4020'	sst line, 900 (21	from north line) ' south of oil field
		error versions	and the second second		
	-		The second section of the sect		CART TO THE STATE
This ho	leoby Tex	aco Tank Ra	ttery W/NW of ranch house.	ងដែល (១០)	
21125-110			a participate of the property of the second second company and the second secon		
		en fares.			

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

agar agao<u>go e. H. Sumruld</u>

DOMAIG MERSONS ALVES

Driller

INSTRUCTIONS: This form ' ruld be executed in triplicate, preferably typewritten, and submitted to of the State Engineer. All one, except Section 5, shall be answered as completely and accurately ossible when any well is drilled, repaired or deepened. The this form is used as a plugging record only Section 1(a) and Section 5, and be completed.

ANALYTICAL

Environment:	Environmental Lab of Texas, Inc. 12600		Werl I-20 Eart Odesta, Texas 79763 915] 563-1800 FAX (915) 563-1713		4-OF-CUSTO	ODY RECO	CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST	IS REQUEST	
Project Manger: TS 12 L Y 6	svie 1 das	Phone #: 9 FAX #: 9	915/682-3547 915/682-4182		*	analysis request	EQUEST		
Company Name & Address: ALLESTATE SE	SERVICES ENVIRONMENTAL,	ENTAL, MIDLAND,	TEXAS						
1	1	Project Name	::						
SACA S	5.W. P.T								
		Sampler Signature	aturt						
)		N	PRESERVATIVE SAMP		a sA g	# ellisto	5 <u>.</u> £(
LAB # FIE	PELD CODE CONTAINE	Olume/Amoun	HCL 1003 1008 1008 1008 1008 1008 1008 1008	BMI: 118X 81)2(I) 118.1	rclp Metals. Fotal Metals A TCLP Votatile	CLP Semi V	מיציאוינו		
- 2	10,	s	1				- - - - - ×		
] ,	20,	×	1/27	10,30					
**									
	,					-			
Relinquished by: CARLOS LUJAN	Date: 8-6-0	Thurs:	Received by: Jeans merrany	REMARKS	Rec.	21.5	2,	RusH today	1.8
Relinquished by:	Dates	Thees	Ë						
Relinquished by:	Date	Thecr	Received by Laboratory:						· .
									7



ALLSTATE SERVICES ENVIRONMENTAL ATTN: MR. B.R SULLIVAN P.O. BOX 11322

MIDLAND, TEXAS 79702 FAX: 682-4182

Sample Type: Soil

Sample Condition: Intact/ 21.5 deg C

Project #: Saga SW Pit
Project Name: None Given
Project Location: Sec 34 T95 R36E

Sampling Date: 07/27/01 Receiving Date: 08/06/01 Analysis Date: 08/06/01

ELT#	FIELD CODE	Chloride mg/kg	,
0101280-01 0101280-02	S-1-20'	1200 2480	

QUALITY CONTROL	5050
TRUE VALUE	5000
% INSTRUMENT ACCURACY	101
SPIKED AMOUNT	2500
ORIGINAL SAMPLE	
SPIKE	1200
SPIKE DUP	3630
	3630
% EXTRACTION ACCURACY	97
BLANK	<5.0
RPD	0.0

Methods: EPA SW 846-9253

Raland K. Tuttle

B-6-01

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Environmental Lab of Texas, Inc.

Property Saga SWA+ Project Name 5292 Propert Loc # 0A Fax No: 915-682-4182 Company Name ALLSTATE SERVICES ENVIRONMENTAL Billy Sullivery Phone, 915 563 1800 Fax 915-563-1713 Company Address MIDLAND ___ TEXAS __ Telephone No: 682-3547 Sampler Signature Project Manager City/State//ip 12600 West 1-20 Fast Odessa, Texas 79763

		F								_				M. I.				
		}	TAT bisbrist					-									•	
	_	_	PUSH TAT (Pre-Schedule	_	_+						-				٠.		d	
	_							<u> </u>			<u> </u>			Z				
				_						-			-	70	,			
_	_							<u> </u>	<u> </u>	<u> </u>	<u> </u>			با رح	9			
								<u> </u>		ļ	<u> </u>			1	•			
								<u> </u>			<u> </u>			<u>.</u>				
							-	<u></u>						Sample Containers Intact? Temperature Upon Receipt	į			
Ц	4	_	0000181508 x316	2				<u> </u>				\vdash		Sample Containers Infac Temperature Upon Rece				
\sqcup	- 1		Santalovimas				<u> </u>			-		<u> </u>		200				
	4	_	29lit6l0V					Ļ						onta	•			
\sqcup		98	2H CO IO DO BE 2A SA SISSEM							<u> </u>	<u> </u>	\sqcup		S H	·			
ICLP.	٢	L	050/050 W\$106 He.	,	_			Ļ.	. ,		<u> </u>	<u>'</u>		D E 4	5 !			
إ	3		500-12001 X1 HGT		!		!		L.,	L				S =	<u> </u>		,	
i	,		. 9.7 hd.		‡			<u> </u>		<u> </u>			_		١٠٤		1 2	1/30
		L	∷- e+ (;) ≈	زح ا				<u> </u>		<u> </u>		,			. E		1 mg	\approx
	1	Ì	(ylipacz) sariO				· •——	, 	<u> </u>		<u> </u>			1	-		_	
	- 1	valer.	102	<u> </u>	i						<u> </u>	<u>'</u>) (
		2	z 5 pnq 6 t		! 		! ——	!			! !				Date		0316	0-1
	- (Ľ	VV81e*					_		i 	<u> </u>	! '			1=			Ġ
	- {	П	Olyfei (20ecify)					1						<u> </u>				<u></u>
	ĺ		alon							!				ĺ			1	
		tive	OS H		<u> </u>				!		<u> </u>	نـــــ		<u> </u>				
		Ş	N9C⊬					L]				1		}	
		Preservative	i3H							1 _]				;		i	,
]	ONE				; — !		i						ŀ		1	Ž
		١	÷2!									1		}	!		ĺ	3
	,	Ч	No of Containers								1			I	j		(ξ,
			3,7,0 0,7,0 0,7				 	├	!	-	├-		<u> </u>	{	!		i	Ġ
							ĺ	1	ĺ		İ			<i>i</i> !				7
			Time Sampled	3	ļ			1	}	I	}	•		}	1		ì	4
				10			!					. 1	1	ļ			5	Á
		1	}	Щ.			-	1					-	•			E	3
			,	10%	, ;					1	1		,		Perenved try		Received by ELOI	Za.
			Dalomed aled	'					į	1	!				1 8		ervo	
			ı	1-5			1			ļ					2		290	IJ
							1	1	-	 ;		•		1			$\overline{}$	·
							!	\$	1				:		ي ر	Ö	ان. اتا	
							1	ĺ	}		1	İ	ĺ	1	, unc	0111	1-	
							1	}	l	i	}	:		1				
							•	:	{	{	i				1.	1.5.1-4	!	
				>.			1			!	Ì	1	i	i :	Jale	`	7	
			FIELD CODE	1			ļ		i	ĺ	ļ	ί	ĺ		1	پر		
			ו	1 8					j	1	į	[l į	1	-		†-	
			뿐	100	-		!	1		İ	ĺ	i		i	:			
			}	0		1		Ì		}	!	}	1					
				100	1	}	}	1	}	Ì	1	}	ļ	[1			
			1	SHG Background	1		1	l i		}	}	1	ı				Ì	
			İ	19	-	1		{		}	1	1	!		1			
				ι	L	_	1	_	1	1	<u> </u>	-		1	\ .	. <	1	
				10-18 61010				1			1			£	1	JH,	Y.	
			AB # (tab uses only)	9				1	1	1	1		1	Special Instructions	1	\mathcal{E}_{L}	6	
			8	7				•	1					iş i	ig.	σ'	Ş	
			1 2	ľ				1] <u>-</u>	Relinquished by	1	Ret inquished by	
			1	Ş) ad	eline	1	١٤	
				Ι¢	•	1	1	100	1	1	1	* (*)	100	\varsag{\sigma}	íœ		α	



"Don't Treat Your Soil Like Dirt!" ALLSTATE SERVICES ENVIRONMENTAL

ATTN: MR. B.R. SULLIVAN

P.O. BO 11322

MIDLAND, TEXAS 79702

FAX: 682-4182

Sample Type: Soil

Sample Condition: Intact/ Iced/ 7.5 deg. C

Project #: Saga SW Pit Project Name: Saga Project Location: None Given Sampling Date: 07/31/01 Receiving Date: 08/01/01 Analysis Date: 08/03/01

TOTAL METALS (mg/kg)

	Field Code	Ag	As	Ва	Cd	Cr	Нд	Pb	Se
0101254-01	Saga Background	0 677	1.78	52.8	1.36	6.37	ND	3.39	ND
	REPORT LIMIT	0.100	0.400	0.050	0.050	0.100	0.100	0.550	0.200
	QUALITY CONTROL TRUE VALUE % INSTRUMENT ACCURACY ORIGINAL SAMPLE SPIKED AMOUNT SPIKE SPIKE DUP % EXTRACTION ACCURACY BLANK RPD	1.04 1.00 104 <0.100 50.0 48.1 49.1 98 <0.100 2.06	1.01 1.00 100 <0.400 10.0 8.89 9.20 92 <0.400 3.31	0.998 1.00 100 <0.050 50.0 46.8 46.6 93 <0.050 1.07	0.993 1.00 99 <0.050 10.0 9.12 9.19 92 <0.050 1.09	0.993 1.00 99 <0.100 50.0 45.5 46.8 94 <0.100 3.24	0.017 0.015 111 <0.100 0.015 0.017 0.018 111 <0.100 8.04	0.990 1.00 99 <0.550 50.0 46.7 45.5 93 <0.550 0.00	1.01 1.00 10.1 <0.200 10.0 8.22 8.09 81 <0.200 1.23

ND= Not detected at report limit.

METHODS: EPA SW 846- 3050, 7470, 60108

----- --- --- ---- ----- ------ Toyan 70765 • /915) 563-1800 • Fax (915) 563-1713



ALLSTATE SERVICES ENVIRONMENTAL

ATTN: MR. B.R SULLIVAN

P.O. BOX 11322

MIDLAND, TEXAS 79702

FAX: 682-4182

Sample Type: Soil

Sample Condition: Intact/ Iced/ 7.5 deg C

Project #: Saga SW Pit Project Name: Saga Project Location: None Given Sampling Date: 07/31/01 Receiving Date: 08/01/01 Analysis Date: 08/02/01

 ELT#
 FIELD CODE
 Chloride mg/kg

 0101254-01
 Saga Background
 71

QUALITY CONTROL	5140
TRUE VALUE	5000
% INSTRUMENT ACCURACY	103
SPIKED AMOUNT	5000
ORIGINAL SAMPLE	87
SPIKE	5670
SPIKE DUP	5760
% EXTRACTION ACCURACY	112
BLANK	<5.0
RPD	1.57

Methods: EPA SW 846-9253

Ralandt Juice

8-3-01 Date



ALLSTATE SERVICES ENVIRONMENTAL ATTN: MR. B.R. SULLIVAN P.O. BOX 11322 MIDLAND, TEXAS 79702 FAX: 682-4182

Sample Type: Soil

Sample Condition: Intact/ Iced/ 7.5 deg C

Project #: Saga SW Pit Project Name: Saga Project Location: None Given Sampling Date: 07/31/01 Receiving Date: 08/01/01 Analysis Date: 08/01/01

ELT#	FIELD CODE	BENZENE mg/kg	TOLUENE mg/kg	ETHYLBENZENE mg/kg	m,p-XYLENE mg/kg	o-XYLENE mg/kg
0101254-01	Saga Background	<0.025	<0.025	<0.025	<0.025	<0.025

OLIA, TTV CONTROL	0.094	0.094	0.089	0.178	0.093
QUALITY CONTROL					
TRUE VALUE	0.100	0.100	0.100	0.200	0.100
% INSTRUMENT ACCURACY	94	94	89	89	93
SPIKED AMOUNT	0.100	0.100	0.100	0.200	0.100
ORIGINAL SAMPLE	< 0.025	< 0.025	< 0.025	< 0.025	<0.025
SPIKE	0.111	0.109	0.108	0.206	0.115
SPIKE DUP	0.106	0.111	0.103	0.197	C.110
% EXTRACTION ACCURACY	106	111	103	99	110
BLANK	< 0.025	<0.025	< 0.025	<0.025	<0.025
RPD	5	2	5	5	5

METHODS: EPA SW 846-8021B ,5030

Raland K. Tuttle

8-3-01 Date



ALLSTATE SERVICES ENVIRONMENTAL

ATTN: MR. B.R SULLIVAN

P.O. BOX 11322

MIDLAND, TEXAS 79702

FAX: 682-4182

Sample Type: Soil

Sample Condition: Intact/ Iced/ 7.5 deg C

Project #: Saga SW Pit Project Name: Saga Project Location: None Given Sampling Date: 07/31/01 Receiving Date: 08/01/01

Analysis Date: 08/01/01

ELT#	FIELD CODE	GRO C6-C10 mg/kg	DRO >C10-C28 mg/kg	
0101254-01	Saga Background	<10	98	

QUALITY CONTROL	569	556
TRUE VALUE	500	500
% INSTRUMENT ACCURACY	114	111
SPIKED AMOUNT	476	476
ORIGINAL SAMPLE	<10	<10
SPIKE	506	535
SPIKE DUP	501	558
% EXTRACTION ACCURACY	106	112
BLANK	<10	<10
RPD	1	4

Methods: EPA SW 846-8015M GRO/DRO

Raland K. Tuttle

8-3-0/ Date CHAIN OF CUSTODY RECORD AND ANALYSIS RECORTS!

Environmental Lab of Texas, Inc.

A bisonsia SUSH TAT (P.e.Scnedule 3,5% Sanice Contamers Intad? Tempi rature Upon Receipt aboratory Comments: 91EX 80218/5030 Propert Name 5420 Weisis As Ag Ba Cu Cr Pt 119 Se نَ 090/095 M2/05 491 3014 9001/500: X1 Ha1 P.C. # Project Loc 5:50 ar.d. ä 0111 33784877578CL A, padst value: 95 7-3061 1005/ 0,1,1 چ ∂يوڙ ۽ .ale.v (A, deds i94iO 400% Far No. 9.15-682-4182 os -...;e₁₄ 130 al 11:10 Copano month 02-£3.] Zo of Containers 17.00 0800 Company Name ALLSTATE SERVICES ENVIRONMENTAL DA CITE SAMI Recoved by FLOT 17.11 Mecessed by 7-27-01 Date Samoled いのいな Phone 915 563-1800 Fax 915-563 1713 B. C Sullivan Sampler Signature R. G. Lathan TEXAS 750-01 S. FIELD CODF Telephone No 682=3547 Company Address MIDLAND. 512' Project Manager City/State/7ip: 12600 West E20 Fast Odessa, Texas 79763 Special Instructions LAB # (lab use only) Reunquished by 01012di-cd



ALLSTATE SERVICES ENVIRONMENTAL ATTN: MR. B.R SULLIVAN P.O. BOX 11322 MIDLAND, TEXAS 79702

FAX: 682-4182

Sample Type: Soil

Sample Condition: Intact/ Iced/ 3.5 deg C Project # Saga SW Pit Project Name: Saga Project Location: None Given

Sampling Date: 07/27/01 Receiving Date: 07/30/01 Analysis Date: 07/30/01

ELT#	FIELD CODE	Chloride mg/kg	
0101241-01	S1 2'	2300	
0101241-02	55 2'	1100	

QUALITY CONTROL	5140
TRUE VALUE	5000
% INSTRUMENT ACCURACY	103
SPIKED AMOUNT	5000
ORIGINAL SAMPLE	1860
SPIKE	7440
SPIKE DUP	7530
% EXTRACTION ACCURACY	112
BLANK	< 5.0
RPD	1.20

Methods: EPA SW 846-9253



ALLSTATE SERVICES ENVIRONMENTAL

ATTN: MR. B.R SULLIVAN

P.O. BOX 11322 MIDLAND, TEXAS 79702

FAX: 682-4182

Sample Type: Soil

Sample Condition: Intact/ Iced/ 3.5 deg C Project #: Saga SW Pit

Project Name: Saga Project Location: None Given Sampling Date: 07/27/01 Receiving Date: 07/30/01 Analysis Date: 07/30/01

ELT#	FIELD CODE	GRO DRO C6-C10 >C10-C28 mg/kg mg/kg
0101241-01 0101241-02	S1 2' S5 2'	<10 <10 <10 <10

QUALITY CONTROL	500	485
TRUE VALUE	500	500
% INSTRUMENT ACCURACY	100	97
SPIKED AMOUNT	476	476
ORIGINAL SAMPLE	<10	<10
SPIKE	474	424
SPIKE DUP	457	459
% EXTRACTION ACCURACY	96	96
BLANK	<10	<10
RPD	4	8

Methods: EPA SW 846-8015M GRO/DRO



ALLSTATE SERVICES ENVIRONMENTAL

ATTN: MR. B.R. SULLIVAN

P.O. BO 11322 MIDLAND, TEXAS 79702 FAX: 682-4182

Sample Type: Soil

Sample Condition: Intact/ Iced/ 3.5 deg. C

Project #: Saga SW Pit Project Name: Saga Project Location: None Given Sampling Date: 07/27/01 Receiving Date: 07/30/01 Analysis Date: 08/03/01

TOTAL METALS (mg/kg)

ELT#	Field Code	Ag	As	Ва	Cd	Cr	Hg	Pb	Se
C101241-01	S1 2'	ND	2.86	241	0.955	5.67	ND	ND	ND
0101241-02	S5 2'	ND	7.67	365	1.63	6.75	ND	1.06	ND
	REPORT LIMIT	0.100	0.400	0.050	0.050	0.100	0.100	0.550	0.200
	QUALITY CONTROL	1.04	1.01	0.998	0.993	0.993	0.017	0.990	1.01
	TRUE VALUE	1.00	1.00	1.00	1.00	1.00	0.015	1.00	1.00
	% INSTRUMENT ACCURACY	104	100	100	99	99	111	99	101
	ORIGINAL SAMPLE	< 0.100	< 0.400	<0.050	< 0.050	< 0.100	< 0.100	<0.550	< 0.200
	SPIKED AMOUNT	50.0	10.0	50.0	10.0	50.0	0.015	50.0	10.0
	SPIKE	48.1	8.89	46.8	9.12	45.5	0.017	46.7	8.22
	SPIKE DUP	49.1	9.20	46.6	9.19	46.8	0.018	46.5	8.09
	% EXTRACTION ACCURACY	98	92	93	92	94	111	93	81
	BLANK	< 0.100	< 0.400	< 0.050	:0.050	<0.100	< 0.100	< 0.550	< 0.200
	RPD	2.06	3.31	1.07	1.09	3.24	8.04	0.00	1.23

ND = Not detected at report limit.

METHODS: EPA SW 846- 3050, 7470, 6010B

Paland K Tuttle

8-3-0 / Date



ALLSTATE SERVICES ENVIRONMENTAL ATTN: MR. B.R. SULLIVAN P.O. BOX 11322 MIDLAND, TEXAS 79702 FAX: 682-4182

Sample Type: Soil

Sample Condition: Intact/ Iced/ 3.5 deg C

Project #: Saga SW Pit Project Name: Saga Project Location: None Given Sampling Date: 07/27/01 Receiving Date: 07/30/01 Analysis Date: 07/30/01

ELT#	FIELD CODE	BENZENE mg/kg	TOLUENE mg/kg	ETHYLBENZENE mg/kg	m,p-XYLENE mg/kg	o-XYLENE mg/kg
0101241-01	S1 2'	<0.025	<0.025	<0.025	<0.025	<0.025
0101241-02	S5 2'	<0.025	<0.025	<0.025	<0.025	<0.025

QUALITY CONTROL TRUE VALUE % INSTRUMENT ACCURACY	0.088 0.100	0.086 0.100	0.086 0.100	0.180 0.200	0.088 0.100
SPIKED AMOUNT	88 0.100	86	86	90	880
ORIGINAL SAMPLE	<0.025	0.100 <0.025	0.100 <0.025	0.200 <0.025	0.100
SPIKE	0.090	0.090	0.088	0.196	<0.025 0.092
SPIKE DUP % EXTRACTION ACCURACY	0.089	0.089	0.087	0.192	0.091
BLANK	90 <0.025	90 <0.025	88	98	92
RPD	1	1	<0.025 1	<0.025 2	<0.025

METHODS EPA SW 846-80218 ,5030

Raland K. Tuttle

Date

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Environmental Lab of Texas, Inc.

TAT bisbnsi2 SINDSADZ-919) TAT HZUR Project # 5092 5 4 2017 Sample Containers Intact? Pemperature Upon Receip Analyze Fo aboratory Comments BTEX 60218/5030 Pigeci Name 5294 29lijsloV Metals: As Ag Ba Cd Cr Pb Hg Se TOTAL M ORCIORO METOR HAT PO# 9001/S001 XT H9T Project Loc 1 817 HdI 1130 105/CL/SAR/EC Olhei (specify) pos 10-1-8 Osle Water Other (Specify) Fax No: 915-682-4182 `о\$ н NOOH ЮH ONH 201 No. of Containers Company Name ALLSTATE SERVICES ENVIRONMENTAL Time Sampled Received by FLOT 10.1% Received by 7.31-0 Date Sampled Tune B.14 Sell1204 Phone, 915-563 1800 Fax 915 563 1713 Company Address MIDLAND __TEXAS 10.1.8 Date FIELD CODE Telephone No. 682-354 ,00 70, 55-60 54.701 28 53 18 Sampler Signature: City/State/Zip: Project Mariager (S) ∤ऄ 12600 West 1 20 East Odessa, Texas 79763 Š 8 ಕ Special Instructions: 9101252 Jul AB# (lab usa only) Relinquished by Arthrequished by



ALLSTATE SERVICES ENVIRONMENTAL ATTN: MR. B.R SULLIVAN P.O. BOX 11322

MIDLAND, TEXAS 79702 FAX: 682-4182

Sample Type: Soil

Sample Condition: Intact/ Iced/ 7.5 deg C

Project #' Saga Unit Project Name: Saga Project Location: None Given Sampling Date: 07/31/01 Receiving Date: 08/01/01 Analysis Date: 08/02/01

ELT#	FIELD CODE	Chloride mg/kg	
0101252-01	S1 70°	87	
0101252-02	S2 60'	177	
0101252-03	S3 70'	80	
0101252-04	S4 70'	47	
0101252-05	S5 60'	71	
0101252-06	S6 90'	71	

QUALITY CONTROL	5140
TRUE VALUE	5000
% INSTRUMENT ACCURACY	103
SPIKED AMOUNT	5000
ORIGINAL SAMPLE	87
SPIKE	5670
SPIKE DUP	5760
% EXTRACTION ACCURACY	112
BLANK	<5.0
RPD	1.57

Methods: EPA SW 846-9253

Ral- dk/www

8-3-0/ Date