# 1R - 427 - 361

## REPORTS

DATE

4-17-12

2

/ R427-36/ RECEIVED OCD 2012 MAY -1 P 1: 50

### EME A-24 EOL 2011

\*

## DISCLOSURE

#### RICE OPERATING COMPANY JUNCTION BOX DISCLOSURE\* REPORT

				BOX LOCA	TION					
SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX D	IMENSIONS	- FEET	
Eunice Monument	A-24 EOL	A	24	19S	36E	Lea	Length	Width	Depth	
Eumont (EME)	A-24 EUL	~	24	195	300	Lea		Eliminated		
LAND TYPE:	BLM	STATE X	FEE LAI	NDOWNER			OTHER			
Depth to Grou	ndwater	57	feet	NN	IOCD SITE	ASSESSME	NT RANKING S	CORE:	20	
Date Started	1/24/	2011	Date Co	Date Completed		<u>1</u> OC	D Witness	No		
Soil Excavated	133.3	cubic yar	ds Ex	cavation Le	ength2	20 Wi	dth <u>15</u>	Depth	12feet	
Soil Disposed	168	cubic yar	ds C	offsite Facility	<u> </u>	Landfarm	Location	Monun	nent, NM	
FINAL ANALYTIC		JLTS:	Samp	ole Date	3/8/20	1	Sample De	pth	12'	

Procure 5-point composite sample of bottom and 4-point composite sample of sidewalls. TPH and Chloride laboratory test results completed by using an approved lab and testing procedures pursuant to NMOCD guidelines.

Sample Location	PID (field) ppm	GRO mg/kg	DRO mg/kg	Chloride mg/kg
BOTTOM COMP.	3.7	<10.0	396	976
4-WALL COMP.	54.9	115	1900	656
BLENDED BACKFILL	15.6	98.2	1200	208

General Description of Remedial Action:

This junction and line were eliminated during

the pipeline replacement/upgrade program. After the former junction box was removed, an investigation was conducted using a backhoe to collect soil samples at regular intervals

producing a 20x15x12-ft excavation. Chloride field tests performed on each sample yielded

elevated concentrations that increased with depth. Organic vapors were measured using a PID which yielded relatively low concentrations. The excavated soil was blended on site, and

representative composite samples of the excavation bottom, the excavation walls, and the

blended backfill were sent to a commercial laboratory for analysis of chloride and TPH. The blended backfill was properly disposed of at a

NMOCD approved facility. The excavation was backfilled with clean imported soil to 5 ft below ground surface (BGS). At 5-4 ft BGS, a 1 ft thick

clay layer was installed with a compaction test performed on 4/7/2011. The excavation was then backfilled with clean imported soil to ground

surface and contoured to the surrounding area. On 11/10/2011, the site was seeded with a blend of native vegetation and is expected to return to

a productive capacity at a normal rate. NMOCD was notified of potential groundwater impact on 4/9/2012.

#### ADDITIONAL EVALUATION IS HIGH PRIORITY

enclosures: p	photos, lab results, PID (fiel	d) screenings, cross-	section diagram, com	paction test, proctor, hyd	Iraulic conductivity,	chloride curve, revegetation form
I HEREBY CERTIF	Y THAT THE INFORM	ATION ABOVE	S TRUE AND CC	MPLETE TO THE B	EST OF MY KN	OWLEDGE AND BELIEF.
SITE SUPERVISOR	Oscar Frayre		ACTOR	$\times \nu$		
REPORT ASSEMBLED BY	Amy C. Ruth	SIGNATURE	Hund	E A	COMPANY	RICE OPERATING COMPANY
PROJECT LEADER	Zach Conder		5-	3./md	DATE	4-17-12

\*This site is a "DISCLOSURE." It will be placed on a prioritized list of similar sites for further consideration.

#### CHLORIDE FIELD TESTS

LOCATION	DEPTH	mg/kg			
bottom comp.	12'	671			
4-wall comp.	N/A	613			
blended backfill	N/A	184			
background	6"	144			
	2'	151			
	4'	149			
vertical delineation trench at 10' south	6'	625			
of source	8'	288			
	10'	662			
	12'	1,019			

#### EME A-24 EOL Unit A, Section 24, T19S, R36E



Site prior to excavation, facing south

1.24.11



Exporting soil, facing west

4.5.11



Compaction test on clay liner, facing north 4.7.11



Collecting sample, facing south

1.24.11



Backfilling site up to 5 ft BGS, facing northeast4.7.11



Seeding site, facing south

11.10.11



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

March 11, 2011

Bruce Baker Rice Operating Company 112 W. Taylor Hobbs, NM 88240

RE: EME A-24 EOL (19/36)

Enclosed are the results of analyses for samples received by the laboratory on 03/08/11 16:20.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydorcarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager

OP)



#### Analytical Results For:

Rice Operating Company Bruce Baker 112 W. Taylor Hobbs NM, 88240 Fax To: (575) 397-1471

Received:	03/08/2011	Sampling Date:	03/08/2011
Reported:	03/11/2011	Sampling Type:	Soil
Project Name:	EME A-24 EOL (19/36)	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Hope S. Moreno
Project Location:	NOT GIVEN		

#### Sample ID: 4-WALL COMP (H100455-01)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					· · · · · ·	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	656	16.0	03/09/2011	ND	416	104	400	0.00		
TPH 8015M	mg,	/kg	Analyze	d By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GR0 C6-C10	115	50.0	03/10/2011	ND	170	85.2	200	0.285		
DR0 >C10-C28	1900	50.0	03/10/2011	ND	173	86.4	200	3.27		
Surrogate: 1-Chlorooctane	123	% 70-130	)							
Surrogate: 1-Chlorooctadecane	114	% 70-130	)							

#### Sample ID: 5 PT BOTTOM COMP (H100455-02)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	976	16.0	03/09/2011	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: CK	<del></del>				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/10/2011	ND	170	85.2	200	0.285	
DRO >C10-C28	396	10.0	03/10/2011	ND	173	86.4	200	3.27	
Surrogate: 1-Chlorooctane	124	% 70-130	)				~1		
Surrogate: 1-Chlorooctadecane	117	% 70-130	)			5	うべ		
						$\bigcirc$			

#### **Cardinal Laboratories**

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages, Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or bort, shall be limited to the amount paid by client for analyses. All claims, including those for neplipence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such climits based upon any of the abort altorist.

Celey D. Kuna

Celey D. Keene, Lab Director/Quality Manager

Page 2 of 5



#### Analytical Results For:

Rice Operating Company Bruce Baker 112 W. Taylor Hobbs NM, 88240 Fax To: (575) 397-1471

Received:	03/08/2011	Sampling Date:	03/08/2011
Reported:	03/11/2011	Sampling Type:	Soil
Project Name:	EME A-24 EOL (19/36)	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Hope S. Moreno
Project Location:	NOT GIVEN		

#### Sample ID: BLENDED BACKFILL COMP (H100455-03)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>208</b> 16.0		03/09/2011	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: CK				<u> </u>	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GR0 C6-C10	98.2	50.0	03/10/2011	ND	170	85.2	200	0.285	
DR0 >C10-C28	1200	50.0	03/10/2011	ND	173	86.4	200	3.27	
Surrogate: 1-Chlorooctane		% 70-130	1						
Surrogate: 1-Chlorooctadecane	108 % 70-1		1						



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Celey Di Kune

Celey D. Keene, Lab Director/Quality Manager

Page 3 of 5



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

#### **Notes and Definitions**

- ND
   Analyte NOT DETECTED at or above the reporting limit

   RPD
   Relative Percent Difference

   \*\*
   Samples not received at proper temperature of 6°C or below.

   \*\*\*
   Insufficient time to reach temperature.
  - Chloride by SM4500CI-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report



#### Cardinal Laboratories

#### \*=Accredited Analyte

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



#### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	101 East Marland, Hobbs, NM (505) 393-2326 FAX (505) 393-																					
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Phone #: 39	3-9174 Fax #:		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	)- <i>-</i>			Add	ress:									Į					
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FOR LAS USE ONLY	le				MATR	IX	f	RESE	RV.	SAMPL	ING	]										
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMF	# CONTAINERS	GROUNDWATER WASTEWATER	SOIL	SLUDGE	OTHER :		OTHER :	DATE	TIME	, ,	1 J J									
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† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

Rage:5 of 5

#### RICE OPERATING COMPANY

#### 122 West Tayor Hobbs, NM 88240 PHONE: (575) 393-9174 FAX: (575) 397-1471 PID METER CALIBRATION & FIELD REPORT FORM

#### Check Model Number:

1

Model: PGM 7300Serial No:Model: PGM 7300Serial No:Model: PGM 7300Serial No:

Serial No: 590-000183 Serial No: 590-000508 Serial No: 590-000504

Model: PGM 7600 Model: PGM 7600 Model: PGM 7600 Serial No: 110-023920 Serial No: 110-013744 Serial No: 110-013676

#### GAS COMPOSITION: ISOBUTYLENE 100PPM / AIR: BALANCE

LOT NO: 930360	EXPIRATION DATE:	4-28-13
METER REA	DING ACCURACY:	00.00

ACCURACY : +/- 2%

SYSTEM	JUNCTION	UNIT	SECTION	TOWN SHIP	RANGE
EME	A-24EOL	A	24	195	34E

SAMPLE ID	PID	SAMPLE ID	PID
4 WALL COMP.	54.9		
4 WALL Comp. 5pt Bottom Comp Bland BACK fillComp	3.7		
Bland BACK F. 11 Comp	15.Le		
		1	
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I verify that I have calibrated the above instrument in accordance to the manufacture operation manual.

SIGNATUE:

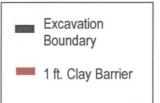
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DATE: 3-8-11

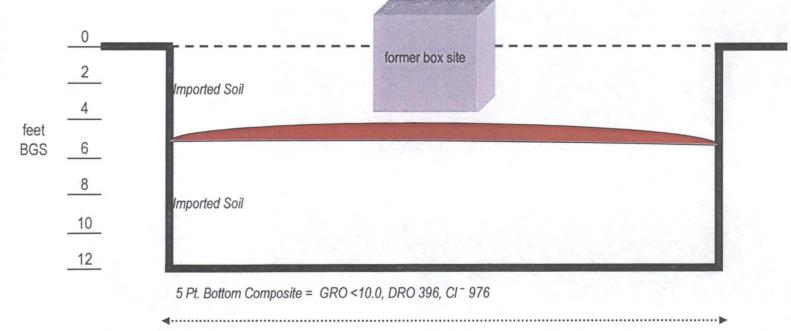
EME A-24 EOL Unit 'A', Sec. 24, T19S, R36E

#### **Excavation Cross-Section**

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20 ft.

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INC		
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#### LABORATORY TEST REPORT PETTIGREW & ASSOCIATES, P.A. 1110 N. GRIMES HOBBS, NM 88240 (575) 393-9827



DEBRA P. HICKS, P.E./L.S.I. WILLIAM M. HICKS. III, P.E./P.S.

То:	Rice Operating Company 122 W. Taylor Hobbs, NM 88240	Material: Coop	per Red Clay
		Test Method:	ASTM: D 2922
Project:	A24 EOL Project No. 2011.1191		
Date of Test:	April 7, 2011	Depth:	See Below
	·	Depth of Probe:	12"

Test No.	Location	% Max	% Moisture	Depth
SG 1	A24 EOL Center of Pit	90.9	13.1	4' Below FSG
				<i>,</i>

Control Density:	102.6 ASTM: D 698									
Required Compaction: 90-95%										
Lab No.:	11 3436-3437									
Copies To:	Rice Operating	.* .								

Optimum Moisture: 20.7%

Densometer ID: 5572 PETTIGREW & ASSOCIATES BY: BY: P.E.

The manual state	TTICRED SHAD							]	PE	<b>T</b> ]	ΓΙ		11 H	W 10 OB (57	N. BS	G1 3, 1	Alf MM	/ES 88	S S 124	ST.	TES.	5, 1	P.A						L			анто н	718	S.M.
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		RECEIVED	Home Office - 1717 East Erwin Stree						
			Tyler, Texas 75702-639						
		ALIG 1 Z ZULI	421 Lab: (903) 595-6402 Fax: (903) 595-611: Area Offices						
		RICE OPERATIN 30 Beech Street HOBBS, NM 707 West Cotton St.	Texarkana, AR         71854         (870)         772-0013           Longview, TX         75604         (903)         758-0402						
Acct ID:	PETTIGREW	File ID: C4965-111	Date Sampled: 07/20/2011						
	: 08/01/2011		Sampled By: Client						
Project:		es General File 2011, Hobbs, NM	By Order Of: Erica Hart						
_ocation:	Job: Rice Operating		Order Number:						
Client:	Pettigrew & Associate	es Hobbs NM							
Contractor:	•								
REPORT:	FLEXIBLE WALL PE	RMEAMETER	LAB NO: 10378 A						
			Test Method: See Below						
	· · · · · · · · · · · · · · · · · · ·	TEST RESULTS	Report No: 1-1355-000009						
			Page 1 of 2						
	НΥ	DRAULIC CONDUCTIVITY DETER	RMINATION						
		LE WALL PERMEAMETER - CON	STANT VOLUME						
	FLEXIB	LE WALL PERMEAMETER - CONS (Mercury Permometer Tes	STANT VOLUME						
Project:	FLEXIB Pettigrew & Associate	LE WALL PERMEAMETER - CONS (Mercury Permometer Tes es, Hobbs, NM, Job: Rice Operating	STANT VOLUME (t)						
Date:	FLEXIB Pettigrew & Associate 7/27/2011	LE WALL PERMEAMETER - CONS (Mercury Permometer Tes	STANT VOLUME (t)						
Date: Project No. :	FLEXIB Pettigrew & Associate 7/27/2011 C 4965-111	LE WALL PERMEAMETER - CONS (Mercury Permometer Tes es, Hobbs, NM, Job: Rice Operating Panel Number: P1 Permometer Data	STANT VOLUME t) : ASTM D 5084 M • reary to Lean Websine 1.7						
Date: Project No. Boring No.: Sample:	FLEXIB Pettigrew & Associate 7/27/2011	LE WALL PER MEAMETER - CONS (Mercury Permometer Tes as, Hobbs, NM, Job: Rice Operating Panel Number: Permometer Data ap = 0.031416 cm2 aa = 0.767120 cm2	STANT VOLUME (t) Control ASTM D 5084 Morcury to Isout R p at Pipet R p 6.7 cm 3						
Date:	FLEXIB Pettigrew & Associate 7/27/2011 C 4965-111 10378 A Lab Molded	LE WALL PER MEAMETER - CONS (Mercury Permometer Tes(Mercury Permometer TesPanel Number:Panel Number:P1Permometer DataP1ap =0.031416 cm2aa =0.767120 cm2M1 =0.030180C =	STANT VOLUME t) : ASTM D 5084 Mercury to isat Roat Equilibrium 1.7 cm 3						

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Wet Wt.samµ Tare or ring W	•	r taro .	<u>539.49</u> 0.0	_9		Before Test		A 44 - A T 4	
•				_9				After Test	
WetWt:ofSa	imple:		539.49	_a		Tare No.:	_A 1	Tare No.:	T 10
Diameter :	2.77	in	7.03	c m 2		Wet Wt.+tare:	884.84	WetWt.+tare	770.82
Length :	2.79	in	7.10	cm		Dry Wt.+tare:	744.29	 Dry Wt.+tare	660.68
Area:	6.02	in ^2	38.83	cm 2		Tare Wit:	147.75	 ⊤are W t:	221.09
Volume: –	16.81	in ^3	275.53	¯cm 3		DryWt.:	596.54	DryWt.:	439.59
UnitWt.(wet):	122.18	pcf	1.96	g/c m ^3		Water Wt.:	140.55	Water Wt.:	110.14
UnitWt.(dry):	98.88	pcf	1.58	_g/cm ^3		% moist.:	23.6	% moist.:	25.1
Assumed Specif	ic Gravity:	2.70	Max Dry I	Density(pcf) =	103.6	OMC =	20.8		
			_	% ofmax = <sup>-</sup>	95.4	+/-OMC =	2.76		
Calculated % s	aturation:	96.00	Void ratio (e)	= -	0.70	Porosity (n)=	0.41		

Charge: Pettigrew & Associates Attn: Jessica Buendia

- Orig: Pettigrew & Associates, Hobbs, NM Attn: Jessica Buendia
- 1-cc Pettigrew & Associates, Hobbs, NM Attn: Erica Hart
- 1-ec Pettigrew & Associates, Hobbs, NM Attn: Jessica Buendia E-Mail: jbuendia@pettigrewius
- 1-ec Pettigrew & Associates, Hobbs, NM Attn: Erica Hart

E-Mail: ehart@pettigrew.us

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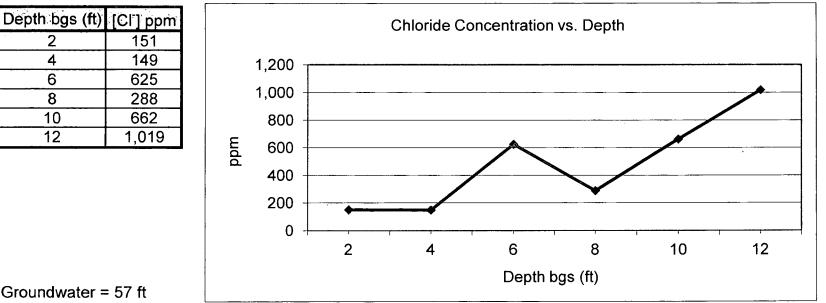
THIS REPORT APPLIES ONLY TO THE STANDARDS OR PROCEDURES INDICATED AND TO THE SAMPLE(S) TESTED AND/OR OBSERVED AND ARE NOT NECESSARILY INDICATIVE OF THE QUALITIES OF APPARENTLY IDENTICAL OR SIMILAR PRODUCTS OR PROCEDURES, NOR DO THEY REPRESENT AN ONGOING QUALITY ASSURANCE PROGRAM UNLESS SO NOTED. THESE REPORTS ARE FOR THE EXCLUSIVE USE OF THE ADDRESSED CLIENT AND ARE NOT TO BE REPRODUCED WITHOUT WRITTEN PERMISSION.

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Unit 'A', Sec. 24, T19S, R36E

Backhoe samples at 10 ft South of the junction (source)



Groundwater = 57 ft

2

4

6

8

10

12



PO Box 5630 Hobbs, NM 88241 Phone: (575) 393-4411 Fax: (575) 393-0293

		VI	EGETAT	ION FO	RM		
1. General II	nformation						
Site nam EME							
A-24 EOL		I.					
U/L	Section	Township	Range	County	Latitude		ngitude
A	24	195	36E	Lea	N-32*38'58.15	w-103	3*18'5.32''
Contact Name:				·			
Email: <u>bbaker</u>	whee-ecs.com	square feet	Man datail	of site attache	4		
Site size:5,600 Additional infor	mation	square reer		of site attache			
Additional infor							
2. Soils	*Do not r	ip caliche subsoils;	caliche rocks bro	ught to the surfa	ace by ripping shall b	e removed.	
Salvaged from s		oremediated	Imported			Depth (in):	
Texture: Sandy		scribe soil & subs	oil: Blow sand	and subsoil ca	aliche		
Soil prep metho	ds: Rip 🗌	Depth(in)	): Disc	Depth	(in): Roll	erpack 🗌	
Date completed:	:4-7-11						
		······			·	······	
3. Bioremed	iation						
Fertilizer			Hay			ther	
Type:						escribe:	
Lbs/acre:	·	<u></u>				cscribe.	
105/ dere.					L	,. <u></u>	
4. Seeding	*Attach se	eed bag tags to this	form. Seed bag to	ngs shall contain	the site name and S-	T-R	
Custom seed mi			Seed mix name:			Seeding date:	11-10-11
Broadcast 🛛 3	LBS BLUE G	RAMA 2.5 LBS	BLUE GRAMA	1			
Method: Portal							
Soil conditions			Damp 🗌 🛛 W	et 🗌			
Photos attached		Observations:					
Number of phot	os:						
5 Cortificat	ion Ibarahu a	wife that the informat	ion in this form and			aat of musike ouder t-	
Name: OSCAR		entry mat the information		e: Environmen	e and complete to the b		e:11/10/11
Name. OSCAN		1	110	e. Environmen		Date	
Signature:	ne						
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