

LINN ENERGY

2130 W. Bender Blvd. Hobbs, NM 88241 Phone 575.738.1739

McClay Federal #7 2RP-1924 2RP-1959

Termination Request

API No. 3001510370

Release Date: September 8th, 2013 & September 24th, 2013

Unit Letter C, Section 33, Township 18S, Range 30E

Rice Environmental Consulting & Safety

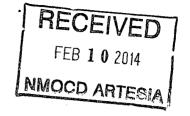
P.O. Box 2948, Hobbs, NM 88241 Phone 575.393.2967

February 6th, 2014

Mike Bratcher

New Mexico Energy, Minerals, & Natural Resources Oil Conservation Division, Environmental Bureau – District 2 811 S. First St. Artesia, NM 88210

> RE: CAP Report and Termination Request Linn Energy McClay Federal #7 (2RP-1914) McClay Federal #7 (2RP-1959) UL/C sec. 33 T18S R30E API No. 3001510370



Mr. Bratcher:

Linn Energy (Linn) has retained Rice Environmental Consulting and Safety (RECS) to address potential environmental concerns at the above-referenced site.

Background and Previous Work

The site is located approximately 7.5 miles south of Loco Hills, New Mexico at UL/C sec. 33 T18S R30E. This site is located in an area of no known groundwater.

Two releases occurred at the site in September 2013. The first (2RP-1914), which occurred on September 8th, 2013, was a release of 4 barrels of produced water and 1 barrel oil from a hole in the bottom of the heater. All the fluid remained in the lined heater dike. A vacuum truck was called to the site and recovered all the fluid. NMOCD and BLM were notified of the release on September 10th, 2013 and NMOCD approved the initial C-141 on September 19th, 2013.

The second release (2RP-1959), which occurred on September 24th, 2013, was a release of 10 barrels of oil. When the heater was restarted, a valve was not opened. The heater exceeded operating pressure and blew oil through the pressure relief valve on the top of the heater. None of this fluid was recovered. NMOCD and BLM were notified on the release on September 26th, 2013 and NMOCD approved the initial C-141 on October 2nd, 2013 (Appendix A).

Together the two releases covered 2,486 sq ft of lease pad and pasture land. RECS personnel were on site beginning on September 10th, 2013 and then on September 30th, 2013 to assess the releases. The first release was in the lined dike surrounding the heater and was not sampled. Soil samples from the surface and with depth were taken from the second release (Figure 1). The samples were field tested for chlorides and organic vapors and representative samples were taken to a commercial laboratory for analysis (Appendix

B). Point 1 returned laboratory chloride, GRO, DRO and BTEX below regulatory standards beginning at 6 inches. Point 2 returned laboratory chloride, GRO, DRO and BTEX below regulatory standards beginning at 1 foot. Point 3 returned laboratory chloride, GRO, DRO and BTEX below regulatory standards beginning at 8.5 feet.

A Corrective Action Plan (CAP) for the first release (2RP-1914) was sent to NMOCD and BLM on September 30th, 2013 and approved by BLM on October 30th, 2013 and by NMOCD on November 15th, 2013. As part of the CAP, the caliche above the liner would be removed and taken to a NMOCD approved facility for disposal. Clean caliche would be imported to the site to replace the contaminated caliche.

A CAP for the second release (2RP-1959) was sent to NMOCD and BLM on October 29th, 2013 and approved by BLM the same day. NMOCD approved the CAP on November 15th, 2013. As part of the CAP, the release area around Point 1 and Point 2, indicated that this area would reach acceptable standards by 6 inches bgs. Thus, this area would be scraped down 6 inches and a 5 point bottom composite would be taken to a commercial laboratory to show that the chloride level is below 1,000 mg/kg and the combined GRO/DRO reading is below 1,000 mg/kg.

The area around Point 3 will be excavated to depth of 4 ft bgs. The walls of the excavation would be advanced horizontally until laboratory analyses showed the walls to have a chloride reading below 1,000 mg/kg and combined GRO/DRO below 1,000 mg/kg. At the base of the 4 ft bgs excavation, a 20 mil reinforced poly liner would be installed at properly seated (Figure 2).

All excavated soils would be taken to a NMOCD approved facility for disposal. The 6 inch scrape and the 4 ft excavation would be backfilled with clean, imported soil to ground surface and contoured to the surrounding location. The site would be seeded with a blend of native vegetation. Vegetation acts as an infiltration barrier for the site, since plants capture water through their roots thereby reducing the amount of water traveling through the vadose zone to groundwater.

CAP Report

On November 6th, 2013, CAP activities began at the site. The area inside the treater berm, the contaminated berm, the 6 inch scrape and the 4 foot excavation were completed and a total of 228 yards of contaminated soil was taken to a NMOCD approved facility for disposal.

A total of 72 yards of clean caliche was imported to the site to backfill the treater area and replace the contaminated berm. The remaining caliche was backfilled into the 4 foot excavation.

Once the 4 foot excavation was completed, wall samples were taken to a commercial laboratory for analysis to confirm all constituents were below regulatory standards (Appendix C). At the base of the 6 inch scrape, a 5 point bottom composite was taken

and sent to a commercial laboratory for analysis. The bottom composite returned a chloride value of 320 mg/kg, a DRO value of 306 mg/kg and GRO and BTEX values of non-detect. This data was sent to BLM and NMOCD with a request to backfill the site. BLM approved the site to be backfilled on November 25^{th} , 2013 and NMOCD approved the site to be backfilled on December 2^{nd} , 2013.

A trench was installed along the periphery of the 4 foot excavation and a 20-mil reinforced poly liner was key set into the excavation. A total of 108 yards of top soil was imported to site to serve as backfill. The liner was padded with 6 inches of the top soil and the remaining caliche was backfilled over the padded liner. A sample of the imported top soil was taken to a commercial laboratory and returned a laboratory chloride reading of 64 mg/kg. The 6 inch scrape and the remainder of the 4 foot excavation was backfilled with the imported top soil and the area was contoured to the surrounding location.

On December 10th, 2013, soil amendments were added to the pasture area and the site was seeded with LPC seed mix.

Photo documentation of these activities can be found in Appendix D.

Given that the site was remediated per the approved CAP and backfilled with clean, imported soil, Linn respectfully requests that the site be granted 'remediation termination' and site closure. Final C-141s for both sites can be found in Appendix E.

RECS appreciates the opportunity to work with you on this project. Please call Hack Conder at (575) 393-2967 or me if you have any questions or wish to discuss the site.

Sincerely,

Lara Weinheimer Project Scientist RECS (575) 441-0431

Attachments:

Figure 1 – Initial Sampling Data

Figure 2 – Proposed CAP Activities

Figure 3 – Excavation Data

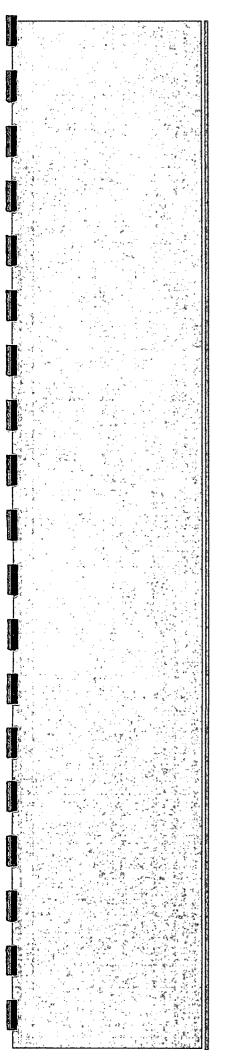
Appendix A – Initial C-141s

Appendix B - Initial Sampling Lab

Appendix C – CAP Activities Labs

Appendix D – Photo Documentation

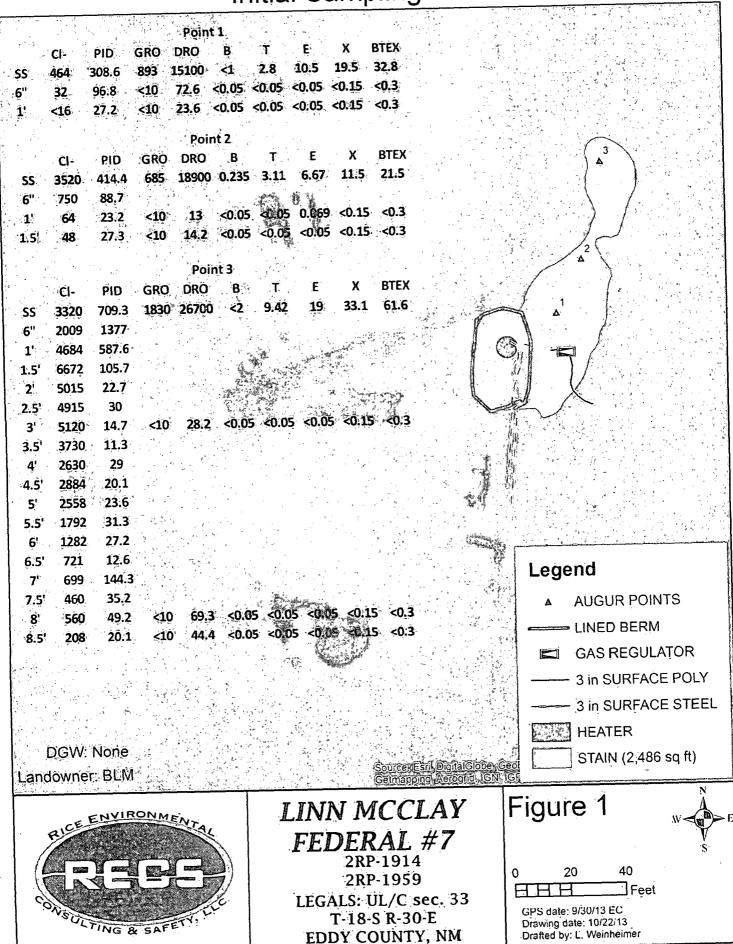
Appendix E – Final C-141s



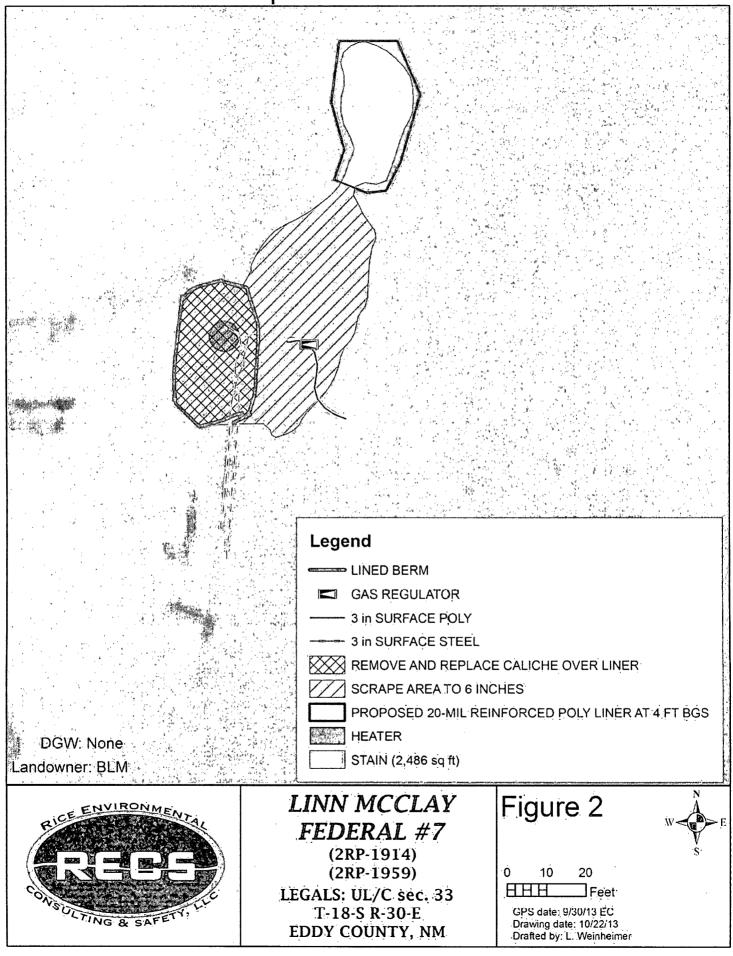
Figures

RICE Environmental Consulting and Safety (RECS) P.O. Box 2948, Hobbs, NM 88241 Phone 575.393.2967

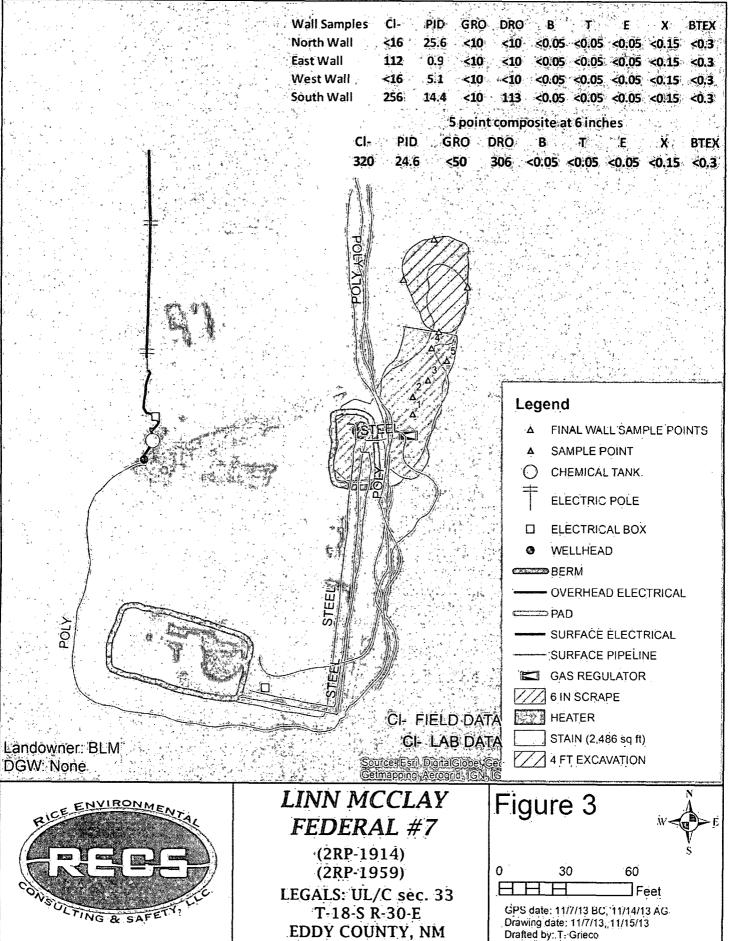
Initial Sampling Data



Proposed CAP Activities



Excavation Data



Appendix A Initial C-141s

RICE Environmental Consulting and Safety (RECS) P.O. Box 2948 Hobbs, NM 88241 Phone 575.393.2967

strict i	C	1		
25 N. Fronch 107, 110058, NM 38240 strict 11. 01, W. Grand Weinige, Artesia, MM 88210		and Natural Resources	ÉP 1 0 2013	Êorinî:C ⁺ Î4 ReMeci Octoberd 0;20
01'W. Grand Avenue, Artesia, NM,88210' strict III'			CD ARTES!	ที่ดูสู่ไม่ก่อใจ เป็รมาโต Office เสรียง เป็น 19:15:22 NMA
<u>strict III</u> 00 Kio Bražos Koad, Azibe, NM 87410, strict IV.	1220 Sout	th St. Françis Dr.	Lacor	dúnce+Mili, f3:i-5/53 mMN
20 S. Sl. Francis Di., Santa FS, NM 87505	and the second	e, NM 87505		
		in and Corrective Ac	tion	-
IJMW 13262528	98	ÖPERATOR 3	_ 🔀 Thitial R	eporte Eihal Reg
aine of Company: Linn Operating ddress: 2130 W. Bender, Hobbs, N		Contact: Brian Wall? Telephone No: 575-738-1739		
acility Name: McClay Federal # 7		Facility Type: Oil Producer.	······	
urface Owner: Fédéral	Mineral@wner		API-Noi-3	001510370.
	LOCÁTIC	N OF RELEASE		
Jnii Leiter Section Township. (R Q 33 1.85	ange: Feet from the Nor 30E 330t		iust/West Line Qi West	્યદ્વાયું યુદ્ધતું જ
	Laŭinute: 32.7103208597(55 Looginude:=103.98017513	0974	
	191 - 19 - 19 - 19 - 198 - 198 - 198 - 198 - 198 - 198 - 198 - 198 - 198 - 198 - 198 - 198 - 198 - 198 - 198 -	E OF RELEASE	· · · ·	
gperof.Release=Produced Water=/ Oil		Volume of Release: 4661st 1bb		ivered 4 bbls/ 1 bbl
ource of Release: Heater	na ta	 Date and Holir of Occurrence; 109/08/2013 12:00am 	Date and Ho 09/08/2013	n of Discovery:
ana ana any ana amin'ny ana <u>ana amin'ny amin'ny amin'ny ana amin'ny ana amin'ny ana amin'ny ana amin'ny amin'ny</u>			ijġlier-Νϻ [®] ΟΟΟΟ	<u></u>
Ne Whom 2 Brian ³ Wall Vasa, Walercourse Reached 2	/gs 🖾 No.	Date and Hour 09/10/2013; IFXES Volume Imputions the	Watercourse.	
ومشتر ومناكلته تناور المتسجيس والم		-		
fa Wajercourse was timpacted. Describe	intition w	· ¥	•	
* •		i		
Describe/Cause of Broblemiand Remedia	TANIAR DALANCE REAL STRAT	A State of the sta		
Vertuck Counseles in a character of the bar	Metallit akilar Baie Hudd	annolaicaici in vioc buse thilfe-		
25		je 	, the state of the second s	
Zesember Aren A Dected and Gleanon Act		ilça pickeçi up with vazçum truck e	auptied heater ; Gaus	e-degradation;
ટેં Desember Area A Decied and Gleanop Act	ເຫຼົາ ປາສຸເຊດ, ກາງ All ເປັນຜູ້ອີກ, ຈີນຊີຊີ	area picked up will varequit truck o	ingplied heater: Gails	ດ ປຸດຄືໃນຖາກໃຫ້ນະ
				• • • • • • • • • • • • • • • • • • •
hereby-certify-thật thự từ tộ như tổ ngiye gườ động: altong chược điệ required tố ra dhiế health đợt bệ chữ tổ nhiện tri the ág ngila their operations have thiled to tac rahe chy hững chư that dự tộn, NMOQ	ີ່ງ ແມ່ງຈັບຮູ້ 15 (ກາເຮັ ແກະໄດ້ດັກກິໄດ້ເຮັ ໄດ້ ກວດກາ ແກ້ປີໃນ້າ (h)ດ. ດີຊາໃສ່ ແລະໄດ້ແລະ ດັກກິໂສິກຮູ້ຊຸດໃຫຍ່ (ຊາໃສ່ 1 ລັດກວດກໍ່ by) ດູ່ແລະໄດ້ໄປ ກິເວີດັ່ງໃນ ເມື່ອ ໄດ້ຊຸດີເປັນກິດດີ ວ່າລັດຮັດກິເລີດຮັດໃນ ເມື່ອ ໄດ້ ຊີ ໃ ກິດກວດກິ	The best of my knowledge and une notifications and perform corrections the NMOOD marked as 7[113] (Kep ate containing for that bose a threa	lerstand that pursuan venictions for the star off" does not relieve the protond when si	t to NMOCD rules and s which thay entlinger the operator of thability rise water, human health
herebyscertily that the internation gives egulations all offers are required to re ablic health arther rivironments (the ar health their operations have thiled to ade rathereny fromment. throaddition, WMOG	ີ່ງ ແມ່ງຈັບຮູ້ 15 (ກາເຮັ ແກະໄດ້ດັກກິໄດ້ເຮັ ໄດ້ ກວດກາ ແກ້ປີໃນ້າ (h)ດ. ດີຊາໃສ່ ແລະໄດ້ແລະ ດັກກິໂສິກຮູ້ຊຸດໃຫຍ່ (ຊາໃສ່ 1 ລັດກວດກໍ່ by) ດູ່ແລະໄດ້ໄປ ກິເວີດັ່ງໃນ ເມື່ອ ໄດ້ຊຸດີເປັນກິດດີ ວ່າລັດຮັດກິເລີດຮັດໃນ ເມື່ອ ໄດ້ ຊີ ໃ ກິດກວດກິ	the best of my knowledge and une notifications and perform eddrech the NMOCD marked as 7 (ina) the ate containing for that hose a threa thes not relieve the operator of re-	lerstand that pursuan venictions for the star off" does not relieve the protond when si	i to NMOCD miles and s which may contain the che operator of the film rates which my other filmes which my other
Rereby certify that the information gives end then solve of the information gives ablic health or the fer vironments of the bould their operations have third to ade rule cover operations have third to a cover in the cover operations have and over could detail states of the of have and over could all of the states of the of third and the	ີ່ງ ແມ່ງຈັບຮູ້ 15 (ກາເຮັ ແກະໄດ້ດັກກິໄດ້ເຮັ ໄດ້ ກວດກາ ແກ້ປີໃນ້າ (h)ດ. ດີຊາໃສ່ ແລະໄດ້ແລະ ດັກກິໂສິກຮູ້ຊຸດໃຫຍ່ (ຊາໃສ່ 1 ລັດກວດກໍ່ by) ດູ່ແລະໄດ້ໄປ ກິເວີດັ່ງໃນ ແລະ (ຊາໃສ່ 1 ລັດກວດກໍ່ by) ດູ່ແລະເດີຍ ທີ່ກິດຮູ້ນີ້ໃນ ແລະ (ຊາໃສ່ 1 ລັດກວດການ ວ່າລັດຮູ້ອຸດທາດຮູ້ນີ້ໃນ ແລະ (ຊາໃສ່ 1 ລັດກວດການ	The best of my knowledge and une notifications and perform eddrech the NMOCD marked as 7 (ina). Kep ate containing for that hose a threa does not relieve the operator of re- CON_CONS	lerstand that mirstan vesicitions Toro tleast on "store not refleve the protond wher, st poins billing for conf ERVATION D	i to NMOCD miles and s which may contain the che operator of the film rates which my other filmes which my other
herebweertile-that the information gives suthations all operators are required forg abile health arthereity informents (the are neither to be all and the are the are reflective from ent. the addition, NMOC Heral (state: or local lows and/or regulation initiature:	ີ່ງ ແມ່ງຈັບຮູ້ 15 (ກາເຮັ ແກະໄດ້ດັກກິໄດ້ເຮັ ໄດ້ ກວດກາ ແກ້ປີໃນ້າ (h)ດ. ດີຊາໃສ່ ແລະໄດ້ແລະ ດັກກິໂສິກຮູ້ຊຸດໃຫຍ່ (ຊາໃສ່ 1 ລັດກວດກໍ່ by) ດູ່ແລະໄດ້ໄປ ກິເວີດັ່ງໃນ ແລະ (ຊາໃສ່ 1 ລັດກວດກໍ່ by) ດູ່ແລະເດີຍ ທີ່ກິດຮູ້ນີ້ໃນ ແລະ (ຊາໃສ່ 1 ລັດກວດການ ວ່າລັດຮູ້ອຸດທາດຮູ້ນີ້ໃນ ແລະ (ຊາໃສ່ 1 ລັດກວດການ	the best of my knowledge and une notifications and perform eddrech the NMOCD marked as 7 (ina) the ate containing for that hose a threa thes not relieve the operator of re-	lerstand that mirstan vesicitions Toro tleast on "store not refleve the protond wher, st poins billing for conf ERVATION D	i to NMOCD miles and s which may contain the che operator of the film rates which my other filmes which my other
hereby certify that the information gives suthations all operations are required for ablic health arther civing ments the are hould their operations have thiled to ac- rule civing mach. the addition, NMOC Heral, state: or local laws and/or regulation itenature:	ີ່ງ ແມ່ງຈັບຮູ້ 15 (ກາເຮັ ແກະໄດ້ດັກກິໄດ້ເຮັ ໄດ້ ກວດກາ ແກ້ປີໃນ້າ (h)ດ. ດີຊາໃສ່ ແລະໄດ້ແລະ ດັກກິໂສິກຮູ້ຊຸດໃຫຍ່ (ຊາໃສ່ 1 ລັດກວດກໍ່ by) ດູ່ແລະໄດ້ໄປ ກິເວີດັ່ງໃນ ແລະ (ຊາໃສ່ 1 ລັດກວດກໍ່ by) ດູ່ແລະເດີຍ ທີ່ກິດຮູ້ນີ້ໃນ ແລະ (ຊາໃສ່ 1 ລັດກວດການ ວ່າລັດຮູ້ອຸດທາດຮູ້ນີ້ໃນ ແລະ (ຊາໃສ່ 1 ລັດກວດການ	The best of my knowledge and un notifications and perform correcti the NMOCD marked as 7Final dep ate containfination that pose a threa does not relieve the optimion of re OH_CONS Approved by District Supervisor	Icrstand Brat pursuan ceactions Tory Eleast or "does not relieve the product which si sponsibility for conf ERWATION D	i to NMOCD rules and s which may entimiter the operator of thability rules water, human health higher with any other WISION:
herebweertily-that the information gives outlations all operators are required for ablic health arthereity information of the are neither the perations have thiled to ade rule cive troperations that dution, NMOC Hered, state: or local have and/or regulation interaction of the state of the state interaction of the state of the state of the state interaction of the state of the state of the state interaction of the state of the state of the state of the state interaction of the state of th	ການກ້ອງຊີ 15 (ກາເຊິ ແກະໄຊດາ້າງກໍໄດ້ເຊັ 16 ກ່ວງກີ່ (ແກ້ຢູ່ໃນ້າງກິ່ງໄດ້. ອິຊາໃສ່ມີ ແຕ່ເຊັ້າຂອງ ອັດກິດອີກຊີ ເປັນ ເຊັ່ງເປັນ ເຊັ່ງເປັນ ເຊັ່ງ ຄຸ່ມແຂງ ທີ່ການອີກເປັນ ເຊັ່ງ ເປັນ ເຊັ່ງ ເປັນ ເອັດເຊັ່ງ ແມ່ນ ເຊັ່ງ ເປັນ ເຊັ່ງ ເປັນ ເຊັ່ງ ເປັນ ເອັດເຮັ	Inc best of my knowledge and une notifications and perform correction the NMOOD marked as 7[1nd] Rep ate containing for that pose a threa does not refleve the operator of re CONS Approved by Disorter Supervisor Approved by Disorter Supervisor	Icrstind Urat porsum venctions Tory Elevis or "does not relieve the prot of which si sponsibility for conf ERN'A FION' D ERN'A FION' D LENPIRITON Dat	n to NMOCD rules and s Which may entimized the operator of this this rules water, future health italice with this other IVISION: Summing other Summing of the states of the states of the states of the states of
Nereby certify-that the information gives egulations all operations are required for a dult health operations have thiled to ac rule civit connect. The ideal affects at each of the investment of the ideal denative of the investment of the investment denative of the investment of the investment interaction of the investment of the interaction of the investment of the investment of the investment of the interaction of the investment of the inv	rabóyé is truč indicomplete to sport and/or file certain actease ceptaince of a certain actease dualety investigate and remedi Discorptinice of a certain remedi ions.	The best of my knowledge and un notifications and perform correcti the NMOCD marked as 7Final dep ate containfination that pose a threa does not relieve the optimion of re OH_CONS Approved by District Supervisor	Icrstind Urat porsum reactions Tory Elevis or "does not relieve the ground when si sponsibility for conf ERNATION D ERNATION D LENpiration Dat	i to NMOCD rules and s which may entimiter the operator of thability rules water, human health higher with any other WISION:
Nereby certify-that the information gives egulations all operations are required for a dult health operations have thiled to ac rule civit connect. The ideal affects at each of the investment of the ideal denative of the investment of the investment denative of the investment of the investment interaction of the investment of the interaction of the investment of the investment of the investment of the interaction of the investment of the inv	rubové is trué indicomplete to sport and/or file certain arclease ceptance of a Certain arclease dualety investigate and remedi Sacceptance of a Certain remedi Sacceptance of a Certain remedi ions	The best of my knowledge and une notifications and perform correction the NMOCD marked as Tring Rep does not relieve the optimized of re- containing that rose of the <u>OIL CONS</u> Approved by District Supervisor Approved by District Supervisor (Conditions of Approval) Conditions of Approval) regiation per OCO Rule & Guid proval by BLM: <u>SUBMIT REM</u>	lerstind that purstan eactions for the test of "does not relieve the protect which si soons billity for com <u>ERNATION' D</u> Lepiration Dat elines, &	n to NMOCD rules and s Which may entimized the operator of this this rules water, future health italice with this other IVISION: Summing other Summing of the states of the states of the states of the states of
Desember Area A Decied and Geomon Act Thereby certify that the intornation of the end atoms all operators are required for oblic health operations have thiled to re- oblic health operations have thiled to ac- rethe covironment. Unraddition, NMOCI enter the covironment. Unraddition, NMOCI enter of the operations have thiled to ac- rethe covironment. Unraddition, NMOCI enter of the operation the operation inter Name: Brian, Wall inter Name: Brian, Wall inter Construction Ebreman III. Email Address the all of Indenergy com- tacts of 9/10/2013	rubové is trué indicomplete to sport and/or file certain arclease ceptance of a Certain arclease dualety investigate and remedi Sacceptance of a Certain remedi Sacceptance of a Certain remedi ions	Inc best of my knowledge and une notifications and perform correction the NMOCD marked as Tring Kep does not refleve the operator of re Containing the contract of the Containing of Approval 15 Approval 15 Approval 15 Containing of Approval Containing of Approval Containing of Approval Containing of Approval Containing of Approval Containing of Approval	lerstind that purstan eactions for the test of "does not relieve the protect which si soons billity for com <u>ERNATION' D</u> Lepiration Dat elines, &	n to NMOCD rules and s Which may entimized the operator of this this rules water, future health italice with this other IVISION: Summing other Summing of the states of the states of the states of the states of

*

<u>Distriction par nausz (Missiel Missiel Mi Missiel Missiel Mis</u>	TNew Mexico s and Natural Resources. SEP 2:6 2013 ervation Division th St. Erancis Dr. Fe, NM 87505	The SEC
Release Notificatio	on and Corrective Action	To see the second secon
Name of Company: Linn Operating 269324	OPERATOR: [X]. (hiti Contact: Brian Wall	abReport E. Final Report.
Address: 2130 W. Bender (Hobbs, NM, 88240) Facility:Name: McClay Federal # 7	Facility, Type: Qili	
Surface Owner: Federal:		7 3001510370s.
LÓCATI	ON OF RELÉASE	· · · · · · · · · · · · ·
	th/South Line Ecct from the East/West Line North 1650 West	County Ethior
(Láĩ(huợc):32;7]03208597	Ġঽ৾ঽ৾৾ৢ৾৾ Ĺ ৹ৢ৾য়ৣঢ়৾৾৻৻৻৻৻৻ৼৼৢৼৗ৾৾৻ঢ়৾ঽ৾৾৻৾৾৾য়৾৾৾য়৾ঀ৾৾য়৾	a an
	EOFRELEASE	
Nype of Released Oil . Source of Released leater		(cenvereil: 0) Hourol, Discovery: 13
Was Immediate Notice Civen?	d Mike Burton: BUM Mike Dratcher: NM OCD	······································
4By:Whom?dBrian Wall WaşarWhoregourse Renelied?	Date and Hour 09/26/2013/3/3/45am 4.5.Y.ES. Volume Impacifie, the Wateredus er-	?
II n Wittercourse anis amoneied. Describe fully ??	13	<u></u>
າDeseribe Coulse of Problem ລາງປີ Repeting Action Taken, 1 Missed ope ທ່າວມີຢູ່ມີ ກ້ອງຮອບເອົາຍຸໃຊ້ມີເຊິ່າໃນອີກດີ ເປັນຍຸໂອກີເອົາ.	װוֹוָשָּׁ Yalve אָפּוֹפּה ופּגּוּוֵיוווֹזָבָּ/well(נו) פּוּופּד פּאַפָּפּטּלע קר	erating.pressure blewoil
Describe Area Affected and Gleanup Action Taken : : continuinated se	וו נסָישָׁי וְפָוּשָׁאַיָּשָׁ מַחַל זירטן געריין געריין געריין געריין געריין געריין געריין געריין געריין געריי	ເບົາຕະບູ້ພັກຈະຫຼຸດທີ່ເຮົາ
	Ц.	
tin statistica sector		i
I. Upreby certify that the information given above is true and complete the comp	e notificationstand perform corrective actions for rel the MOCD indified as "Final Report does not rel have contamination that bosed threat to broath wate	ເຊັ່ມຮູດຮ້າງເປັນເອົາເອົາເອົາເອົາເອົາເອົາເອົາເອົາເອົາເອົາ
Signature: TSU	TOILCONSERVATION	DIVISION
Printed Nume: Brian Wall	Approved by District Supervisors	Ne Semuer
affillez Construction Forenand II.	ApprovalOCI 02 2013 Expiration	Dîlê:
1. 11-mail Address-byall@linneflerey.com -Date: 09/26/2015	ີ່ ເດືອກຢາງແລະຮູດກັບຄາດຈາກເອົາ ລາກວ່າກາງກໍ່ຮູດເວັ້ວນີ້ Rule & Guidelines, &	
Aitach Additional Sheets [Necessary)	oval by BLM <u>SUBMIT REMEDIATION</u>	2-RP= 1959
ی بیست ۱ ۱ ۱	en e	

Appendix B Initial Sampling Lab

RICE Environmental Consulting and Safety (RECS) P.O. Box 2948 Hobbs, NM 88241 Phone 575.393.2967



October 22, 2013

JACOB KAMPLAIN

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: MC CLAY FEDERAL #7

Enclosed are the results of analyses for samples received by the laboratory on 10/16/13 8:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accredited analytes.

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 (V1, 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,

. .

Celeg D. Keine

Celey D. Keene Lab Director/Quality Manager



.

Analytical Results For:

RICE ENVIRONMENTAL CONSULTING & SAFETY JACOB KAMPLAIN 419 W. CAIN HOBBS NM, 88240 Fax To: (575) 397-1471

•	Received:	10/16/2013	Sampling Date:	10/09/2013
	Reported:	10/22/2013	Sampling Type:	Soil
	Project Name:	MC CLAY FEDERAL #7	Sampling Condition:	Cool & Intact
	Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
	Project Location:	NOT GIVEN		

Sample ID: POINT 1 @ SURFACE (H302503-01)

BTEX 8021B	mg	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	10/18/2013	ND	1.93	96.4	2.00	1.36	
Toluene*	2.80	1.00	10/18/2013	ND	1.99	99.3	2.00	2.92	
Ethylbenzene*	10.5	1.00	10/18/2013	ND	2.01	100	2.00	2.99	
Total Xylenes*	19.5	3.00	10/18/2013	ND	5.85	97.4	6.00	2.79	
Total BTEX	32.8	6.00	10/18/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL 141 % 89.4-126

mg/	′kg	Analyze	d By: AP					
Result	Reporting Limit	Analyzed	Method Blank	BS	· % Recovery	True Value QC	RPD	Qualifier
464	16.0	10/17/2013	ND	416	104	400	0.00	
mg/	'kg	Analyze	d By: MS					S-06
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
893	200	10/17/2013	ND	191	95.3	200	2.37	
15100	200	10/17/2013	ND	191	95.5	200	3.62	
172 5	% 65.2-14	0						
	Result 464 mg/ Result 893 15100	464 16.0 mg/kg Result Reporting Limit 893 200 15100 200	Result Reporting Limit Analyzed 464 16.0 10/17/2013 mg/kg Analyzed Result Reporting Limit Analyzed 893 200 10/17/2013 15100 200 10/17/2013	ResultReporting LimitAnalyzedMethod Blank46416.010/17/2013NDmg/kgAnalyzed By: MSResultReporting LimitAnalyzedResultReporting LimitAnalyzed1510020010/17/2013ND	Result Reporting Limit Analyzed Method Blank BS 464 16.0 10/17/2013 ND 416 mg/kg Analyzed By: MS Method Blank BS Result Reporting Limit Analyzed By: MS BS 893 200 10/17/2013 ND 191 15100 200 10/17/2013 ND 191	Result Reporting Limit Analyzed Method Blank BS % Recovery 464 16.0 10/17/2013 ND 416 104 mg/kg Analyzed By: MS Method Blank BS % Recovery Result Reporting Limit Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery 893 200 10/17/2013 ND 191 95.3 15100 200 10/17/2013 ND 191 95.5	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC 464 16.0 10/17/2013 ND 416 104 400 mg/kg Analyzed By: MS Method Blank BS % Recovery True Value QC Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC 893 200 10/17/2013 ND 191 95.3 200 15100 200 10/17/2013 ND 191 95.5 200	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD 464 16.0 10/17/2013 ND 416 104 400 0.00 mg/kg Analyzed By: MS Method Blank BS % Recovery True Value QC RPD Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD 893 200 10/17/2013 ND 191 95.3 200 2.37 15100 200 10/17/2013 ND 191 95.5 200 3.62

Surrogate: 1-Chlorooctadecane 527 % 63.6-154

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 tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whotsoever 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 imitation, business interruptions, loss of uses 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 claim is based upon any of the above statef resons or otherwise. Result relate only to the samples to the interruption hall with the reproduced exception hall with the paperoval Cardinal.

Celuz D. Kune

Celey D. Keene, Lab Director/Quality Manager



RICE ENVIRONMENTAL CONSULTING & SAFETY JACOB KAMPLAIN 419 W. CAIN HOBBS NM, 88240 Fax To: (575) 397-1471

Received:	10/16/2013	Sampling Date:	10/09/2013
Reported:	10/22/2013	Sampling Type:	Soil
Project Name:	MC CLAY FEDERAL #7	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: POINT 1 @ 6" (H302503-02)

BTEX 8021B Analyzed By: MS mg/kg Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Analyte Result 0.050 10/18/2013 ND 1.93 96.4 2.00 1.36 Benzene* < 0.050 Toluene* < 0.050 0.050 10/18/2013 ND 1.99 99.3 2.00 2.92 Ethylbenzene* < 0.050 0.050 10/18/2013 ND 2.01 100 2.00 2.99 2.79 Total Xylenes* 10/18/2013 ND 5.85 97.4 6.00 < 0.150 0.150 Total BTEX 10/18/2013 ND < 0.300 0.300

Surrogate: 4-Bromofluorobenzene (PIL 105 % 89.4-126

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/17/2013	ND	416	104	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/17/2013	ND	189	94.6	200	4.47	
DRO >C10-C28	72.6	10.0	10/17/2013	ND	181	90.6	200	1.79	

Surrogate: 1-Chlorooctadecane 110 % 63.6-154

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 tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whitstoever shall be deemed waived unless made in writing and received by claims, including, within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental 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 claim is based upon any of the above stated reasons or otherwase. Results relate only to the samples identified above. This reproduced exception in full with writting approval of claimal Laborations.

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



RICE ENVIRONMENTAL CONSULTING & SAFETY JACOB KAMPLAIN 419 W. CAIN HOBBS NM, 88240 Fax To: (575) 397-1471

Received:	10/16/2013	Sampling Date:	10/09/2013	
Reported:	10/22/2013	Sampling Type:	Soil	
Project Name:	MC CLAY FEDERAL #7	Sampling Condition:	Cool & Intact	
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson	
Project Location:	NOT GIVEN			

Sample ID: POINT 1 @ 1' (H302503-03)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/21/2013	ND	1.93	96.4	2.00	1.36	
Toluene*	<0.050	0.050	10/21/2013	ND	1.99	99.3	2.00	2.92	
Ethylbenzene*	<0.050	0.050	10/21/2013	ND	2.01	100	2.00	2.99	
Total Xylenes*	<0.150	0.150	10/21/2013	ND	5.85	97.4	6.00	2.79	
Total BTEX	<0.300	0.300	10/21/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE 104 % 89.4-126

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/17/2013	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS			<u>-</u> ·		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/17/2013	ND	189	94.6	200	4.47	
DR0 >C10-C28	23,6	10.0	10/17/2013	ND	181	90.6	200	1.79	

Surrogate: 1-Chlorooctadecane 106% 63.6-154

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 tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by clardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be lable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subcidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims based upon any of the above stated reasons or otherwise. Results relate only to the samples claimifed above. This reproduced excepts in full with writering altowardset.

Celeg D.Kune

Celey D. Keene, Lab Director/Quality Manager



RICE ENVIRONMENTAL CONSULTING & SAFETY JACOB KAMPLAIN 419 W. CAIN HOBBS NM, 88240 Fax To: (575) 397-1471

Received:	10/16/2013	Sampling Date:	10/09/2013
Reported:	10/22/2013	Sampling Type:	Soil
Project Name:	MC CLAY FEDERAL #7	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: POINT 2 @ SURFACE (H302503-04)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.235	0.050	10/18/2013	ND	1,93	96.4	2.00	1.36	
Toluene*	3.11	0.050	10/18/2013	ND	1.99	99.3	2.00	2.92	
Ethylbenzene*	6.67	0.050	10/18/2013	ND	· 2.01	100	2.00	2.99	
Total Xylenes*	11.5	0.150	10/18/2013	ND	5.85	97.4	6.00	2.79	
Total BTEX	21.5	0.300	10/18/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL 383 % 89.4-126

Chiloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3520	16.0	10/17/2013	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS				<u>_</u>	S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	685	200	10/17/2013	ND	189	94.6	200	4.47	

Surrogate: 1-Chlorooctadecane 242 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Lability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whitsoever 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, atfiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims based oney stater descores or otherwise. Results relate only to the samples destified abore. This perforts thall not be reproduced exception. In full with writem approval of Cardinal Laboratories.

Celeg D. Kune

Celey D. Keene, Lab Director/Quality Manager



RICE ENVIRONMENTAL CONSULTING & SAFETY JACOB KAMPLAIN 419 W. CAIN HOBBS NM, 88240 Fax To: (575) 397-1471

Received:	10/16/2013	Sampling Date:	10/09/2013
Reported:	10/22/2013	Sampling Type:	Soil
Project Name:	MC CLAY FEDERAL #7	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: POINT 2 @ 1' (H302503-05)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/18/2013	ND	1.93	96.4	2.00	1.36	
Toluene*	<0.050	0.050	10/18/2013	ND	1.99	99.3	2.00	2.92	
Ethylbenzene*	0.069	0.050	10/18/2013	ND	2.01	100	2.00	2.99	
Total Xylenes*	<0.150	0.150	10/18/2013	ND	5.85	97.4	6.00	2.79	
Total BTEX	< 0.300	0.300	10/18/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL 108 % 89.4-126

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/17/2013	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	· Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/17/2013	ND	189	94.6	200	4.47	
DRO >C10-C28	13.0	10.0	10/17/2013	ND	181	90.6	200	1.79	
Surrogate: 1-Chlorooctane	105	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	110	% 63.6-15	4						

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 tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whitsboever 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 incidental 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 claim is based to how stater reasons or otherwise. Results relate only to the samples individed above. This reproduced except in full with writen approval of Cardinal Laboratories.

Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager

.



RICE ENVIRONMENTAL CONSULTING & SAFETY JACOB KAMPLAIN 419 W. CAIN HOBBS NM, 88240 Fax To: (575) 397-1471

Received:	10/16/2013	Sampling Date:	10/09/2013	
Reported:	10/22/2013	Sampling Type:	Soil	
Project Name:	MC CLAY FEDERAL #7	Sampling Condition:	Cool & Intact	
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson	
Project Location:	NOT GIVEN			

Sample ID: POINT 2 @ 1.5' (H302503-06)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/18/2013	ND	1.93	96.4	2.00	1.36	
Toluene*	<0.050	0.050	10/18/2013	ND	1.99	99.3	2.00	2.92	
Ethylbenzene*	<0.050	0,050	10/18/2013	ND	2.01	100	2,00	2.99	
Total Xylenes*	<0.150	0.150	10/18/2013	ND	5.85	97.4	6.00	2.79	
Total BTEX	<0.300	0.300	10/18/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL 101 % 89.4-126

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/17/2013	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/17/2013	ND	189	94.6	200	4.47	
DRO >C10-C28	14.2	10.0	10/17/2013	ND	181	90.6	200	1.79	

Surrogate: 1-Chlorooctadecane 120 % 63.6-154

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 tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence 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 lable for incidental or consequential damages, including, writhout finitation, 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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D.Keene

Celey D. Keene, Lab Director/Quality Manager

Page 7 of 13



RICE ENVIRONMENTAL CONSULTING & SAFETY JACOB KAMPLAIN 419 W. CAIN HOBBS NM, 88240 Fax To: (575) 397-1471

Received:	10/16/2013	Sampling Date:	10/09/2013
Reported:	10/22/2013	Sampling Type:	Soil
Project Name:	MC CLAY FEDERAL #7	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: POINT 3 @ SURFACE (H302503-07) BTEV 00318

...

BIEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<2.00	2.00	10/18/2013	ND	1.93	96.4	2.00	1.36	
Toluene*	9,42	2.00	10/18/2013	ND	1.99	99.3	2.00	2.92	
Ethylbenzene*	19.0	2.00	10/18/2013	ND	2.01	100	2.00	2.99	
Total Xylenes*	33.1	6.00	10/18/2013	NĎ	5.85	97.4	6.00	2.79	
Total BTEX	61.6	12.0	10/18/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL 117 % 89.4-126

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP		<u></u>			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3320	16.0	10/17/2013	ND	416	104	400	0.00	
ТРН 8015М	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1830	200	10/17/2013	ND	189	94.6	200	4.47	
DRO >C10-C28	26700	200	10/17/2013	ND	181	90.6	200	1.79	

Surrogate: 1-Chlorooctadecane 984 % 63 6-154

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 tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsever shall be deemed waived unless made in writing and received by Cardinal and which thirty (30) days after completion of the applicable service. In one vent shall be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by clent, its subsidiaries, affiliates or successors arising out of or related to the performance of the services thereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Kune

Celey D. Keene, Lab Director/Quality Manager



RICE ENVIRONMENTAL CONSULTING & SAFETY JACOB KAMPLAIN 419 W. CAIN HOBBS NM, 88240 Fax To: (575) 397-1471

Received:	10/16/2013	Sampling Date:	10/09/2013
Reported:	10/22/2013	Sampling Type:	Soil
Project Name:	MC CLAY FEDERAL #7	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		
Troject Location.	NOT GIVEN		

Sample ID: POINT 3 @ 3' (H302503-08)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/18/2013	ND	1.93	96.4	2.00	1.36	
Toluene*	<0.050	0.050	10/18/2013	ND	1.99	99.3	2.00	2.92	
Ethylbenzene*	<0.050	0.050	10/18/2013	ND	2.01	100	2.00	2.99	
Total Xylenes*	<0.150	0.150	10/18/2013	ND	5.85	97.4	6.00	2.79	
Total BTEX	<0.300	0.300	10/18/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE 105 % 89.4-126

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5120	.16.0	10/17/2013	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS				<u> </u>	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/17/2013	ND	189	94.6	200	4.47	
DRO >C10-C28	28.2	10.0	10/17/2013	ND	181	90.6	200	1.79	
Surrogate: 1-Chlorooctane	104	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	110	% 63.6-15	4						

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 tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatspeever 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 lable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurved 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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This reproduced except in full with writen approval of Cardinal Laboratories.

Celeg Di Keine

Celey D. Keene, Lab Director/Quality Manager



RICE ENVIRONMENTAL CONSULTING & SAFETY JACOB KAMPLAIN 419 W. CAIN HOBBS NM, 88240 Fax To: (575) 397-1471

Received:	10/16/2013	Sampling Date:	10/09/2013
Reported:	10/22/2013	Sampling Type:	Soil
Project Name:	MC CLAY FEDERAL #7	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: POINT 3 @ 8' (H302503-09)

BTEX 8021B	mg,	/kg	Analyze	d By: MS				_	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/18/2013	ND	1.93	96.4	2.00	1.36	
Toluene*	. <0.050	0.050	10/18/2013	ND	1.99	99.3	2.00	2.92	
Ethylbenzene*	<0.050	0.050	10/18/2013	ND	2.01	100	2.00	2.99	
Total Xylenes*	<0.150	0.150	10/18/2013	ND	5.85	97.4	6.00	2.79	
Total BTEX	<0.300	0.300	10/18/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL 101 % 89.4-126

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	10/17/2013	ND	416	104	400	0.00	
TPH 8015M	, mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/17/2013	ND	189	94.6	200	4.47	
DRO >C10-C28	69.3	10.0	10/17/2013	ND	181	90.6	200	1.79	
Surrogate: 1-Chlorooctane	109	% 65.2-14	10						
Surrogate: 1-Chlorooctadecane	120	% 63.6-15	4						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and chent's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for neglogence and any other cause whitsoever shall be deemed waived unless made in writing and received by claims, including those for neglogence and 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 claims is assub-stater assume sort otheres.

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



RICE ENVIRONMENTAL CONSULTING & SAFETY JACOB KAMPLAIN 419 W. CAIN HOBBS NM, 88240 Fax To: (575) 397-1471

Received:	10/16/2013	Sampling Date:	10/09/2013
Reported:	10/22/2013	Sampling Type:	Soil
Project Name:	MC CLAY FEDERAL #7	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: POINT 3 @ 8.5' (H302503-10)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/18/2013	ND	1.93	96.4	2.00	1.36	
Toluene*	<0.050	0.050	10/18/2013	ND	1.99	99.3	2.00	2.92	
Ethylbenzene*	<0.050	0.050	10/18/2013	ND	2.01	100	2.00	2.99	
Total Xylenes*	<0.150	0.150	10/18/2013	ND	5.85	97.4	6.00	2.79	
Total BTEX	<0.300	0.300	10/18/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL 99.1 % 89.4-126

116%

63.6-154

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	10/17/2013	ND	416	104	400	0.00	
TPH 8015M	015M mg/kg		Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/17/2013	ND	189	94.6	200	4.47	
DR0 >C10-C28	44.4	10.0	10/17/2013	ND	181	90.6	200	1.79	

Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whitsbacever shall be deemed walved unless made in writing and received by Cardinal wthin 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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the sample's identified above. This reproduced except in full with writen approval of Cardinal Laboratories.

Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Notes and Definitions

S-06 [.]	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-4X	The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
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

PLEASE NOTE: Liability and Damages. Cardinal's liability and chent's exclusive remedy for any claim ansing, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatscever 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 claim is based upon any of the above stated reasons or observice. Results relate only to the sample identified above. This reproduced exception thall work marken payroval of Cardinal Laboratories.

Celing Di Kune

Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 13 of 13



101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

Company Name	" linn										LL 70 ANALYSIS REQUEST													
Project Manage	" Linn " Jacks Kamphin						Ρ.	0. #:									·			1				ŀ
Address:	/						Company:								Ś									
City: Hobbs	State: NM	Zip	: 88	3240	•		Attn:]		· ·	6	1			1].				
Phone #:	Fax #:		•				Å	ddress	: .	• 1							Į.].			
Project #:	Project Owner	•:		•			Ci	ty:				• •		IΣ		Í	5	1		Ľ				·
Project Name:							St	ato:		Zi	p:		Chlorides	2		Texas TPH	Complete Cations/Anions						· ·.	· ·
Project Locatio	n: Miclay Foderal #7						PI	none #	:].5	801	BTEX	Г о	l ∺	TDS						
	Kyle Schnaidt						Fa	ax #:					12			ä	Ö		l	- 1º	ł			· .
FOR LAB USE ONLY	· ··		Γ		MAT	RIX	-T	PRES	ERV	4	SAMPL	ING	1つ	H		ିତ	e							•
		(C)OMP	<u>,</u>	щ												-	e					·		
	O amonto I D		LER	WATE	Ě	·			,	ŀ			1		÷.,		ΙĔ			1				
Lab I.D.	Sample I.D.	B OR	IA			ш	1	BASE									1 2			· ·		• •		
HBORED	2	(G)RAI	# CONTAINERS	GROUNDWATER	WAS I EWATER SOIL	OIL	OTHER	ACID/BASE	OTHER		DATE	TIME				Į. –						·		
noun	Point 1@ Surface	10	甼	<u>0</u> .	≤ 0 X	<u>o </u>	10	N N	2 0		10-4-13	11:45			17		-	+		<u> </u>		i kan ja Mili		
2	Point 2@6"	1.	\overline{f}	\vdash	à		+-	T a	-	+	10-4-13	11:50	17	1	V			 -		<u> </u>		7.9%.7 Gv#-1	1225) 12772 -	
3	Point 2006 Point 201'	6	T		- X	-	+	q)	╈	(11:55	Ť	15	V		· · ·							<u> </u>
Ŭ Ŭ	point 7. D. Surface	6	Ť		X		1-	X		1		12:00	~	1				†				2. A.		
3	point 2 p 1	6	1	ŀ	X			Q	7			12:05	V	1	.1	·								
<u> </u>	point 2 0, 1.5	6	1					X	<u>'</u>			12:10	1		\checkmark	,				·			• •	
7	point 3 @ Surface	6			X	·		4			_/_	12:15	1	~	V						<u> </u>			<u> </u>
- 46	point3 P 3'	6	1		X			. 0			_/	12:20	↓	1	V	L		<u> </u>			<u> -</u>	I		
9	point 3 @ 8.	6	1		X			X			-{	k:25	 ✓		_	<u>.</u>		<u> </u>	· ·	<u> </u>	ļ			ļ
	Doin 4.3 (2-8-5 Damages, Cardinal's liability and client's exclusive remedy for a	6	 m adai	ing whet		n contra			· .	d to th		12:30	y the		V			1				i i		<u> </u>
analyses, All claims includi	ing those for negligence and any other cause whatsoever shall be cardinal be flable for inc idental or consequental damages, including	deeme	d waiv	ed unles:	s made in v	writing ar	nd rec	eived by C:	ardinal	l within	n 30 days afti	er completion of t	The applic	abla										
affiliates or successors aris Relinguished B	ing out of or related to the performance of services hereunder by (ardina	l rega	rdiess of ved E	whether st	uch clain	iş ba	sed upon a	ny of t	the ab	ove stated re	Phone Re	se.		e [7]	No	Add'I	Phone	#:					
	10-16-13		1		Ĩ.	h			•			Fax Resu	lt:					Fax #:	<i>n</i> .	·····				
Kyle S Relinguished B	haaidt 18:45	4	L	Ľ	Le	$\underline{\mathcal{H}}$	Ľ	ND	Ø	n		REMARK					•							
Relinguished B	Date:	18	cei	ved E	Sy:		: ·					kschr												
	-Time:										Клогтал@rice-ecs.com кjones@riceswd.com; jkamplain@rice-ecs.com													
Delivered By	: (Circle One)				ample			C	HEC	KEY	BY:													
Sampler - UPS	- Bus - Other:				De Yes	THY	s		Å	閉	ľ	hcond	per@	yrice	-ecs	.com	ι; L γ	veint	neim	er@	rice-	ecs.	com	
L	<u></u>		_	Ļ] No		Q :		4		۵.	L	·				•						<u> </u>	

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-24%

Appendix C CAP Activities Labs

RICE Environmental Consulting and Safety (RECS) P.O. Box 2948 Hobbs, NM 88241 Phone 575.393.2967



November 19, 2013

JACOB KAMPLAIN RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: MC CLAY FEDERAL #7

Enclosed are the results of analyses for samples received by the laboratory on 11/15/13 16:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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 (V1, 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,

Celeg D. Kune

Celey D. Keene Lab Director/Quality Manager



RICE ENVIRONMENTAL CONSULTING & SAFETY JACOB KAMPLAIN 419 W. CAIN HOBBS NM, 88240 Fax To: (575) 397-1471

Received:	11/15/2013	Sampling Date:	11/15/2013
Reported:	11/19/2013	Sampling Type:	Soil
Project Name:	MC CLAY FEDERAL #7	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	T18S R30E		

Sample ID: EAST WALL (H302804-01)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/18/2013	ND	1.98	99.2	2.00	5.01	
Toluene*	<0.050	0.050	11/18/2013	ND	1.96	98.2	2.00	5.59	
Ethylbenzene*	<0.050	0.050	11/18/2013	ND	1.95	97.4	2.00	5.81	
Total Xylenes*	<0.150	0.150	11/18/2013	ND	5.71	95.2	6.00	5.49	
Total BTEX	<0.300	0.300	11/18/2013	ND ·				•	

Surrogate: 4-Bromofluorobenzene (PIL 106 % 89.4-126

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	11/18/2013	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/18/2013	ND	215	108	200	0.572	
DRO >C10-C28	<10.0	10.0	11/18/2013	ND	210	105	200	2.06	

Surrogate: 1-Chlorooctadecane 82.2 % 63.6-154

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 tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whitsoever shall be deemed waived unless made in writing and received by claims, including within thin'y (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, whother hairy (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, whother hairy (30) days after completion of or related to the performance of the services foreunder by Cardinal, regardless of whether such claims based upon any of the above stated reasons or otherwise. Results relate only to the sample's leading dow. This reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



RICE ENVIRONMENTAL CONSULTING & SAFETY JACOB KAMPLAIN 419 W. CAIN HOBBS NM, 88240 Fax To: (575) 397-1471

Received:	11/15/2013	Sampling Date:	11/15/2013
Reported:	11/19/2013	Sampling Type:	Soil
Project Name:	MC CLAY FEDERAL #7	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	T18S R30E		

Sample ID: SOUTH WALL (H302804-02)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/18/2013	ND	1.98	99.2	2.00	5.01	
Toluene*	<0.050	0.050	11/18/2013	ND	1.96	98.2	2.00	5.59	
Ethylbenzene*	<0.050	0.050	11/18/2013	ND	1.95	97.4	2.00	5.81	
Total Xylenes*	<0.150	0.150	11/18/2013	ND	5.71	95.2	6.00	5.49	
Total BTEX	<0.300	0.300	11/18/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL 107 % 89.4-126

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	11/18/2013	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/18/2013	ND	215	108	200	0.572	
DRO >C10-C28	113	10.0	11/18/2013	ND	210	105	200	2.06	
Surrogate: 1-Chlorooctáne	69.9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	83.9	% 63.6-15	4						

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 tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within (30) days after completion of the applicable service. In no event shall Cardinal be lable for incidental or consequential damages, including, without finitation, 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 claim is based upon any of the abuve state reasons or otherwise. Results relate only to the samples identified above. This reproduced exception hall with written approval of Cardinal Laboratories.

Celuz D. Kune

Celey D. Keene, Lab Director/Quality Manager



RICE ENVIRONMENTAL CONSULTING & SAFETY JACOB KAMPLAIN 419 W. CAIN HOBBS NM, 88240 Fax To: (575) 397-1471

Received:	11/15/2013	Sampling Date:	11/15/2013	
Reported:	11/19/2013	Sampling Type:	Soil	
Project Name:	MC CLAY FEDERAL #7	Sampling Condition:	Cool & Intact	
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson	
Project Location:	T18S R30E			

Sample ID: WEST WALL (H302804-03)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/18/2013	ND	1.98	99.2	2.00	5.01	
Toluene*	<0.050	0.050	11/18/2013	ND	1.96	98.2	2.00	5.59	
Ethylbenzene*	<0.050	0.050	11/18/2013	ND	1.95	97.4	2.00	5.81	
Total Xylenes*	<0.150	0.150	11/18/2013	ND	5.71	95.2	6.00	5.49	
Total BTEX	<0.300	0.300	11/18/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL 108 % 89.4-126

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP				•	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/18/2013	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/18/2013	ND	215	108	200	0.572	
DRO >C10-C28	<10.0	10.0	11/18/2013	ND	210	105	200	2.06	
Surrogate: 1-Chlorooctane	83.8	% 65.2-14	0						

Surrogate: 1-Chlorooctadecane 94.0 % 63.6-154 .

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Lability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within (130) 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 incidented by client, its substituines, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims based using service.

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



RICE ENVIRONMENTAL CONSULTING & SAFETY JACOB KAMPLAIN 419 W. CAIN HOBBS NM, 88240 Fax To: (575) 397-1471

Received:	11/15/2013	Sampling Date:	11/15/2013
Reported:	11/19/2013	Sampling Type:	Soil
Project Name:	MC CLAY FEDERAL #7	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	T18S R30E		

Sample ID: NORTH WALL (H302804-04)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					<u></u>
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	11/18/2013	ND	1.98	99.2	2.00	5.01	
Toluene*	<0.050	0.050	11/18/2013	ND	1.96	98.2	2.00	5,59	
Ethylbenzene*	<0.050	0.050	11/18/2013	ND	1.95	97.4	2.00	5.81	
Total Xylenes*	<0.150	0.150	11/18/2013	ND	5.71	95.2	6.00	5.49	
Total BTEX	<0.300	0.300	11/18/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL 107 % 89.4-126

Chloride <16.0 1	ing Limit Analyzed 5.0 11/18/2013	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
	5.0 11/18/2013						•
		ND	432	108	400	0.00	
TPH 8015M mg/kg	Analyzed	d By: MS					
Analyte Result Report	ing Limit Analyzed	Method Blank	BS	% Recovery,	True Value QC	RPD	Qualifier
GRO C6-C10 <10.0 10	0.0 11/18/2013	ND	215	108	200	0.572	
DRO >C10-C28 <10.0 1	0.0 11/18/2013	ND	210	105	200	2.06	

Surrogate: 1-Chlorooctadecane 88.1 % 63.6-154 ·

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 tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence 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 lable 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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Kune

Celey D. Keene, Lab Director/Quality Manager



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 SM4500Cl-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

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waved 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 substanties, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the sample: identified above. This proof shall not be reproduced execution. Influ with mitten approval of Cardinal.

Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager

* PIISH *

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603

(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

Company Name: 2505	<i>BILL 76</i>	BILL TO ANALYSIS REQUEST				
Project Manager: Jacob Kamplain	P.O. #:					
Address:	Company:		0			
City: Hobbs State: NM Zip: 88240	Attn:					
Phone #: Fax #:	Address:		(as TPH Cations/Anions			
Project #: Project Owner:	City:					
Project Name: Linn McClacy Federal #7	State: Zíp:	< 15 les	TPH ions/			а. С.
Project Location: TISS R305	Phone #:	Chlorides PH 8015 BTFX		DS		
Sampler Name: Amber Amrts	Fax #:		exas e Caf			
FOR LAB USE ONLY MATRI	IX PRESERV SAMPLING	BH CP				
H30580A Samble I'D' #CONTAINERS #CONTAINERS #Soll Samble I'D'	SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER: BWIL BWIL BWIL		Te			
1 Sattidale Gill V	11-15-13 9:00	VVV				
2 Southwall GII V		~~~				
3 West wall Gill V		~ ~ ~	·			
4 North Wall GI 1	11-15-189:45	~ ~ ~	4	 		
ļ				<u>}</u>	_ 	<u>↓</u>
<u>├───</u>						
┠────┤	╶┼╼┼╌╢─┾╍┽╴╢╍╍╌┈╢			<u> </u>		<u> </u>
						<u> </u>

PLEASE NOTE: Liability and Damages. Cardina's liability and client's exclusive remedy for any claim exising whether based in contract or tant, shall be limited to the emount paid by the client for the enalyses. All claims including those for negligence and any other cause whatsoever shall be denreed walved unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinat be liable for incidental ar consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiartes, effiliates or successors arising out of or related to the performance of services thereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Received Bv Time (D elinguished By Date: Received By: Time: Delivered By: (Circle One) Sample Condition Cool Intect Cool Sampler - UPS - Bus - Other:

+ Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

email results

knorman@rice-ecs.com hconder@rice-ecs.com; Lweinheimer@rice-ecs.com; kjones@riceswd.com; Lpena@riceswd.com; sedwards@rice-ecs.com agroves@rice-ecs.com Page 7 of 7



November 21, 2013

JACOB KAMPLAIN RICE ENVIRONMENTAL CONSULTING & SAFETY LLC 419 W. CAIN HOBBS, NM 88240

RE: MC CLAY FEDERAL #7

Enclosed are the results of analyses for samples received by the laboratory on 11/14/13 16:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

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 (V1, 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,

Celez D. Keine

Celey D. Keene Lab Director/Quality Manager



RICE ENVIRONMENTAL CONSULTING & SAFETY JACOB KAMPLAIN 419 W. CAIN HOBBS NM, 88240 Fax To: (575) 397-1471

Received:	11/14/2013	Sampling Date:	11/14/2013
Reported:	11/21/2013	Sampling Type:	Soil
Project Name:	MC CLAY FEDERAL #7	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	T18S R30E		

Sample ID: 5 PT. COMPOSITE (H302788-01)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	11/18/2013	ND	2.14	107	2.00	2.60	
Toluene*	<0.050	0.050	11/18/2013	ND	2.12	106	2.00	2.40	
Ethylbenzene*	<0.050	0.050	11/18/2013	ND	2.12	106	2.00	2.58	
Total Xylenes*	<0.150	0.150	11/18/2013	ND	6.19	103	6.00	2.34	
Total BTEX	<0.300	0.300	11/18/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL 113 % 89.4-126

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	11/21/2013	ND	432	108	400	0.00	
TPH 8015M mg/kg		/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	11/15/2013	ND	182	91.1	200	5.05	
DRO >C10-C28	306	50.0	11/15/2013	ND	182	90.8	200	6.00	
Surrogate: 1-Chlorooctane	81.7	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	141	% 63.6-15	4						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any daim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whetsoever 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 lable 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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



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 SM4500Cl-B does not require samples be received at or below $6^{\circ}C$
	Samples reported on an as received basis (wet) unless otherwise noted on report

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 tort, shall be limited to the amount paid by client for analyses. At claims, including those for negligence 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 chaim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full written approval of Cardinal Laboratories,

Celey D.Kune

Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

4 of

Page



ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abliene, TX 79603 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

Company Name		· · · · · · · · · · · · · · · · · · ·	BILL T	6	•		ANAL	YSIS	REQUE	ST		
Project Manage	"Jacobkamphin		P.O. #:	· · · · · · · · · · · · · · · · · · ·					•			
Address:			Company: RECS	>			S					. •
City: Hobbs	State: NN	M Zip: 88240	Attn:				L D					
Phone #:	Fax #:	· · · · · · · · · · · · · · · · · · ·	Address:				- Iu	·	•			
Project #:	Project Ov		City:	i	ω Σ		s/t		-	·		
Project Name:	inn Energy McClay	Federai#7	State: Zip:		12 jé	XITPH						}
Project Locatio	n: T185 R307 0	·	Phone #:	•	Chlorides PH 8015	BTEX vac TF	Cations/Anions	TDS				
Sampler Name:	Pimber Groves		Fax #:		일 꾸	BTE	Ü					.].
FOR LAB USE ONLY		MATRIX	PRESERV. SAN		E E	L A	e la			Ì.		
		S S S				· '	ble					
Lab I.D.	Sample I.D.	(G)RAB OR (C)ON # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	SLUDGE OTHER: ACIDIBASE: ICE / COOL OTHER: VD				Complete					
H302788		(G)RA # CON GROL WAST SOIL	SLUDGE OTHER: ACID/BAS OTHER: VD OTHER:	TE TIME					·			
	5 ot. Comate.	GIV	11-144	132:00 1		~						
	÷											
	·			· ·								
						<u></u>	· · ·	ļ	·	ļ	·	
		╺╍┨╼┨╼┨╼┼┊┼╶┼╼┽		<u>_</u>	_			-+				
	i					—— <u> </u>		<u> </u>	<u> </u>		·	····
<u></u>		╾┛┓┫╾┨╾┼╾┼╼┾									· · ·	
<u></u>	·	╾╌┨╼┨╌┨╌┼╼┼							<u> </u>	<u> </u>		
· · · · · · · · · · · · · · · · · · ·		╶──┨─┨╍┨╾┼╾┼╌┼╌╢					-	1		1		

PLEASE NOTE: Liability and Damages. Cardina's liability and client's exclusive remedy for any claim arising whether based in contract or tork, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed wived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be flatte for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profils incurred by client, its subsidiartes, afficiency successing arising out of or incident to the performance of services hereunder by Cardinal, repartiess of Wether events claim by based upon any of the above stated reasons or of therwise.

Relinquished By:	Pate 4-13 Received By:	Phone Result: 🛛 Yes 🖾 No Add'l Phone #:
1 Hmby fintes	14:45 Ddi Henson	Fax Result:
Relifiquished By:	Date: Received By:	email results
	Time:	knorman@rice-ecs.com hconder@rice-ecs.com; Lweinheimer@rice-ecs.com; kjones@riceswd.com;
Delivered By: (Circle One)	Sample Condition CHECKECIBY:	Lpena@riceswd.com; sedwards@rice-ecs.com
Sampler - UPS - Bus - Other:	Cool Intect	agroves@rice-ecs.com

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-244.6



November 18, 2013

JACOB KAMPLAIN

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: MC CLAY FEDERAL #7

Enclosed are the results of analyses for samples received by the laboratory on 11/13/13 10:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited certif.html.

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 (V1, 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,

Celez D. Keine

Celey D. Keene Lab Director/Quality Manager



Analytical Results For:

RICE ENVIRONMENTAL CONSULTING & SAFETY JACOB KAMPLAIN 419 W. CAIN HOBBS NM, 88240 Fax To: (575) 397-1471

11/13/2013	Sampling Date:	11/12/2013	
11/18/2013	Sampling Type:	Soil	
MC CLAY FEDERAL #7	Sampling Condition:	Cool & Intact	
NONE GIVEN	Sample Received By:	Jodi Henson	
NOT GIVEN			
	11/18/2013 MC CLAY FEDERAL #7 NONE GIVEN	11/18/2013Sampling Type:MC CLAY FEDERAL #7Sampling Condition:NONE GIVENSample Received By:	11/18/2013Sampling Type:SoilMC CLAY FEDERAL #7Sampling Condition:Cool & IntactNONE GIVENSample Received By:Jodi Henson

Sample ID: IMPORTED SOIL (H302765-01)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/15/2013	ND	416	104	400	3.92	

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 tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence 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 incidential 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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Kune

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

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 tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be limited to the amount paid by client for analyses. All claims, including those for negligence 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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey Di Keine

Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 4 of



ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

Company Name:	RECS							1	a ka	H H	11	-[] A 2 []						ANA	LYSI	S RE	QUE	.ST	•		
Project Manager: Jacob Kamplain P.O. #:								•							ŀ										
Address:								с	omp	any:	:			,				S		•					
City:	· · · · ·	State: NM	Zip	5: 8 8	240			A	ttn:							•		<u> </u>	· ·	·					
Phone #:						A	ddre	ss:					•			A U				.					
Project #:		Project Owne	r:-					City:				. ·	· ഗ	Σ		T	s/				· ·				
Project Name:	in a Energy McCloy Fed		•		State:					Zip:		Chlorides	8015		TPH	l D									
Project Location	: McCloy Fed	Leral #7						Р	hone	e #:				, i	l 00	BTEX	s.	ati	TDS						
Sampler Name:	Chris Flore	s						F	ax #:					Ř	T	Ш Ш	Texas	U U	H H		1			•	
FOR LAB USE ONLY		• .	. .			MAT			PR	ESER	<u> </u>	SAMPL	NG .	U U	TPH	· ·	l e	et							
Lab I.D. H <i>302765</i>	Sample	I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER SOIL	OIL .	SLUDGE	ACID/BASE:	ICE / COOL	OTHER:	DATE	ТІМЕ					Complete Cations/Anions							
1	Imported	Soil	G								4	11-12-13	3:00 pm	X											
																								•	
														·		· .	,		ļ		ļ	<u> </u>			
·	····				_								· · ·	· ·					ļ	ļ		<u> </u>	<u> </u>		i
·		· · · · · ·		┨─┦					-		-	•					—					· i			
				┟╌╢					-		-+						<u> </u>				1				
	······		÷ <u> </u>	┨╌┨	-		\vdash					•					· · · ·	[<u>+</u>			
·····				╉	-+						╡					<u> </u>					·				
	·······	· · · ·	+						1	$\uparrow \uparrow$			· · ·								1	·			
PLEASE NOTE: Liebility and	d Darnages, Cardinal's liability and o	lient's exclusive remedy for	any cla	im arisin	g whet	her based	in con	tract or 1	ort, she	ll be limi	ited to	o the emount pa	id by the client for	the			·	•	•						

analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cerdinal within 30 days effer completion of the applic service. In no event shall Cardinal be labble for incidental or consequential damages; including without (it imitation, business Interruptions, bost of use, or hoss of profits incurred by client, its subskilaries, efficience or successors affaints or of or protect to the performance of services beautified to the protect service of the phone stated transport or otherwise.

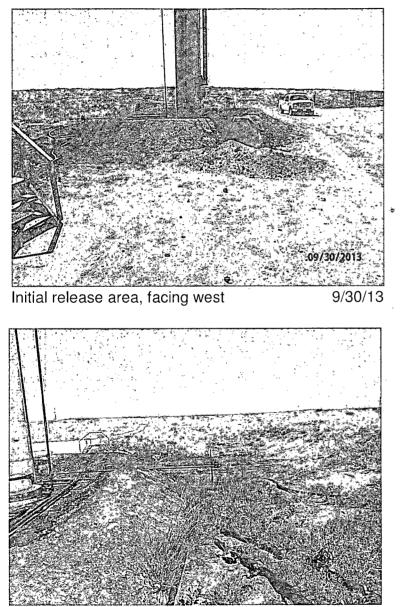
Relinquished By:	Date: R	Received By:		Phone Result:
nl de	11-13-13	A.O. O. W.		Fax Result: 🛛 Yes 🖾 No 🛛 Add'i Fax #:
Chin Flan	Time: 45	Modi ser	ison	REMARKS:
Relinquished By:	Date: R	Received By:		email results
	Time:	· .	•) kamplain@rice-ecs. com
· · · · · · · · · · · · · · · · · · ·				Signature and the second and the sec
Delivered By: (Circle One)		Sample Condition	CHECKED BY:	
Sampler - UPS - Bus - Other:	•	Cool Intact	CAN	CFloves@rice-ecs.com

+ Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

Appendix D Photo Documentation

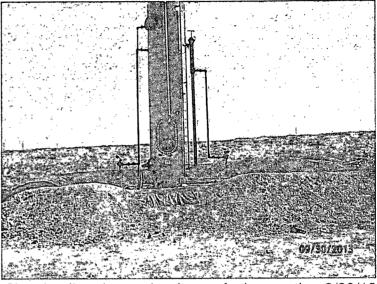
RICE Environmental Consulting and Safety (RECS) P.O. Box 2948 Hobbs, NM 88241 Phone 575.393.2967

Linn McClay Federal #7 Unit Letter C, Section 33, T18S, R30E

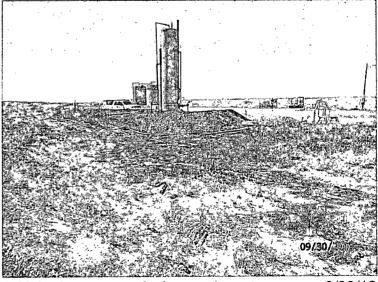


Initial release area, facing east

9/30/13

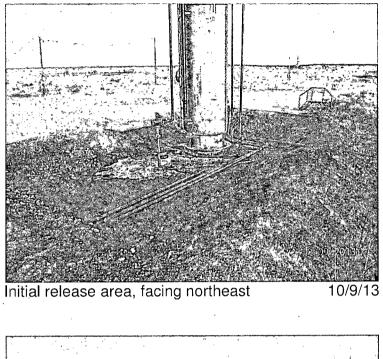


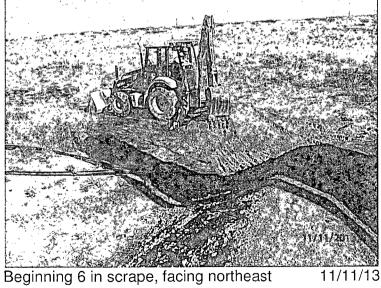
Showing liner beneath release, facing south 9/30/13

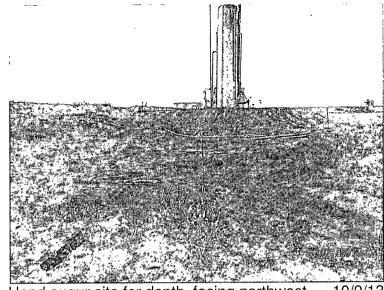


Initial release area, facing northwest

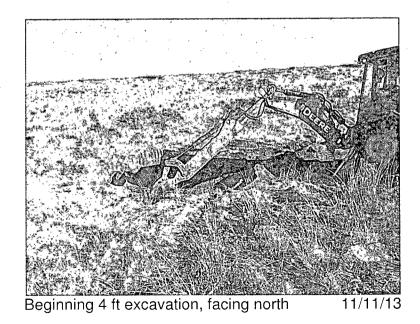
9/30/13

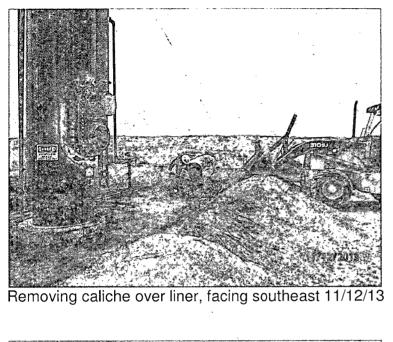


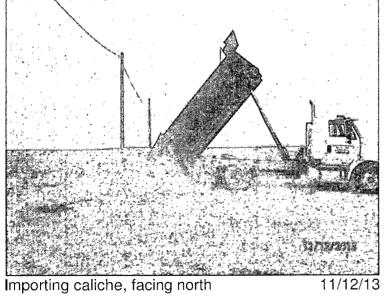


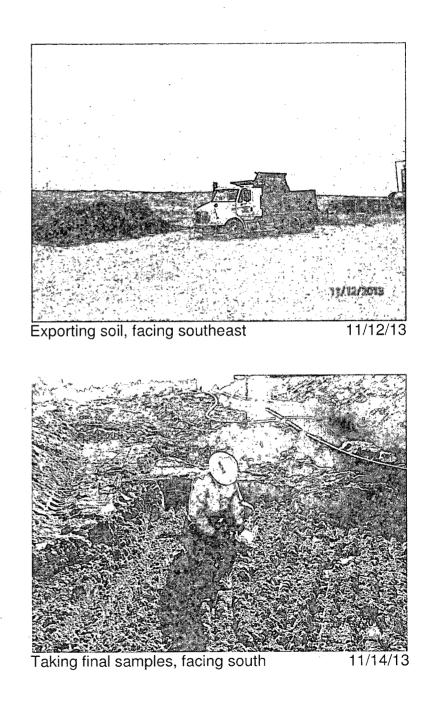


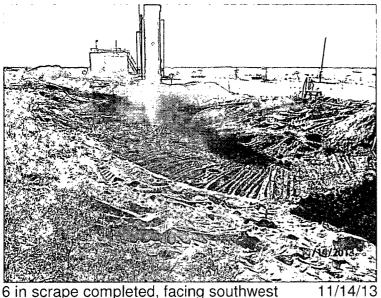
Hand augur site for depth, facing northwest 10/9/13



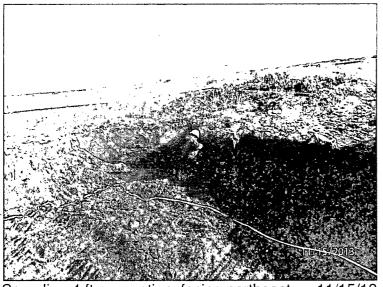




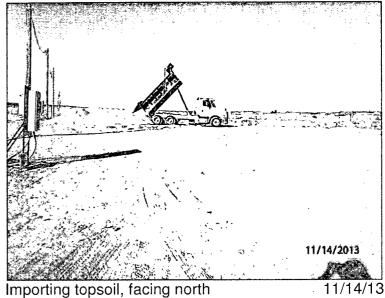


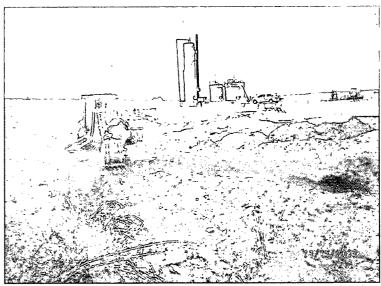


6 in scrape completed, facing southwest

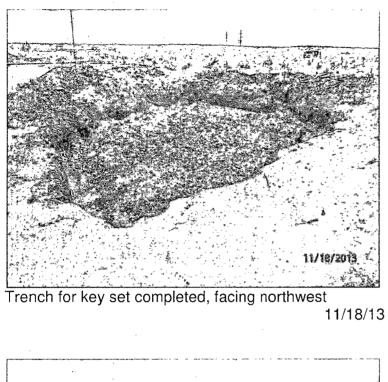


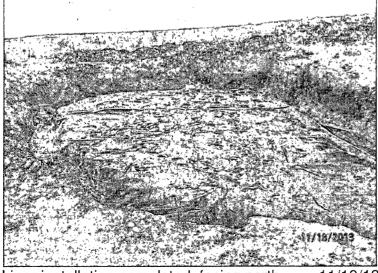
Sampling 4 ft excavation, facing northeast 11/15/13



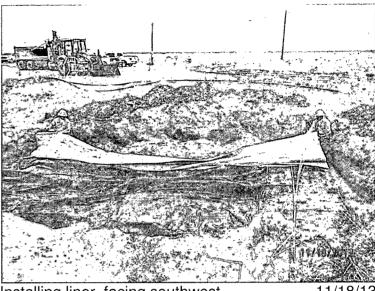


Installing trench to key set liner, facing south 11/15/13



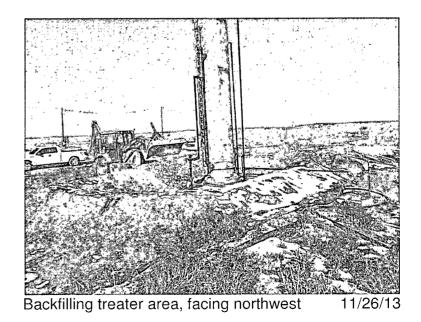


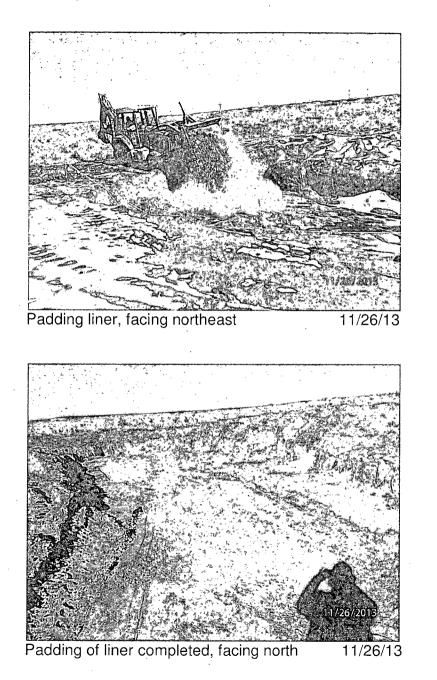
Liner installation completed, facing north 11/18/13

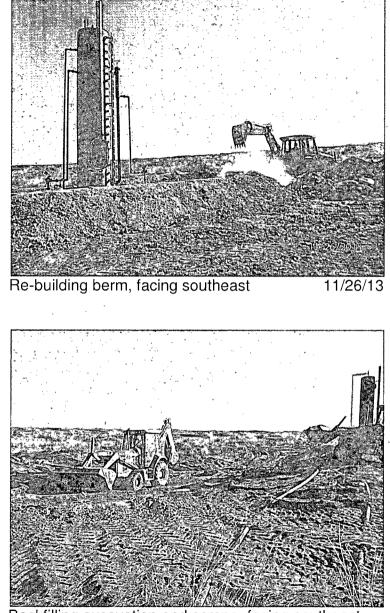


Installing liner, facing southwest

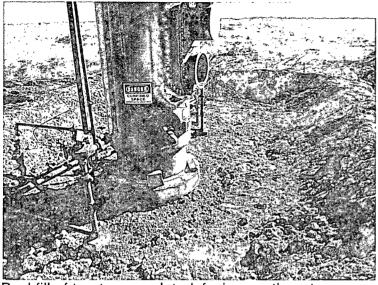
11/18/13





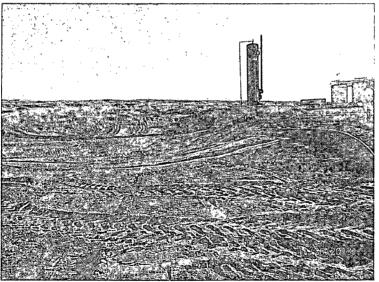


Backfilling excavation and scrape, facing southeast 11/26/13

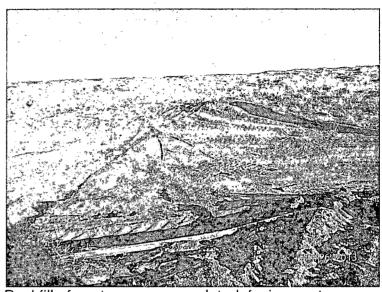


Backfill of treater completed, facing southeast

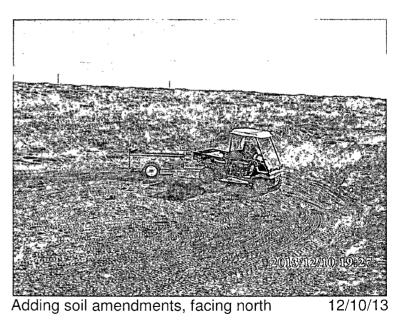
11/26/13

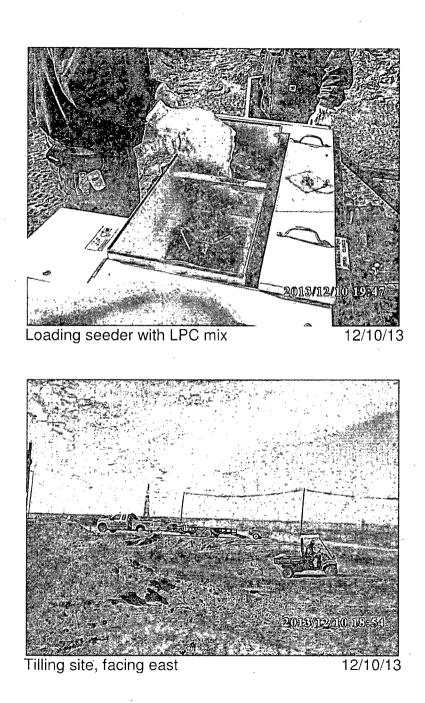


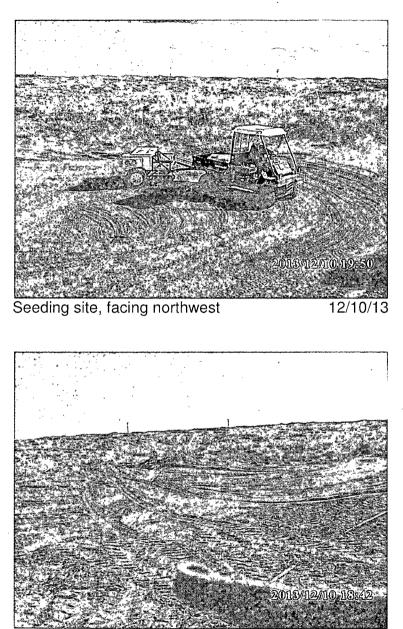
Backfill of pasture area completed, facing south 11/26/13



Backfill of pasture area completed, facing east 11/26/13







Site completed, facing northeast

12/10/13

Appendix E Final C-141s

RICE Environmental Consulting and Safety (RECS) P.O. Box 2948 Hobbs, NM 88241 Phone 575.393.2967

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

	OPERATOR	Initial Report	🛛 Final Report
Name of Company: Linn Operating	Contact: Brian Wall		
Address: 2130 W. Bender Hobbs, NM 8824) Telephone No.: 806-367-0645	;	
Facility Name: McClay Federal #7	Facility Type: Oil Producer		•
Surface Owner: Federal	Mineral Owner	API No · 3001510	270

Bullace Ow	ner. i euer	ai		I WINCIU C	wher		- IIIII							
	LOCATION OF RELEASE													
Unit Letter C	Section 33	Township 18S	Range 30E	Feet from the 330	North/South Line North	Feet from the 1650	East/West Line West	County Eddy						

Latitude <u>32.7103208597655</u> Longitude <u>-103.980175130974</u>

NATURE OF RELEASE

Type of Release: Produced Water/ Oil	Volume of Release: 4bbls/ 1bbl Volume Recovered: 4bbls/ 1bbl									
Source of Release: Heater	Date and Hour of Occurrence:	Date and Hour of Discovery:								
	9/8/2013 12:00 am	09/08/2013								
Was Immediate Notice Given?	If YES, To Whom?									
🛛 Yes 🗌 No 🗌 Not Required	ed Mike Burton- BLM Mike Bratcher- NM OCD									
By Whom? Brian Wall	Date and Hour 09/10/2013									
Was a Watercourse Reached?	If YES, Volume Impacting the Watercourse.									
🗌 Yes 🖾 No										
If a Watercourse was Impacted, Describe Fully.*										
Describe Cause of Problem and Remedial Action Taken.* Hole in bottom	of heater inside base ring All fluid	in dike area nicked up with vacuum truck								
emptied in heater. Cause degradation.										
	*									
Describe Area Affected and Cleanup Action Taken.* A total of 31 sq ft o	f the lined, bermed area surrounding t	he heater was affected. RECS personnel								
arrived on site on September 10th, 2013. The site was photographed and										
occurred outside the liner. The contaminated caliche above the liner was	removed and taken to a NMOCD app	roved facility for disposal. Clean caliche								
was imported to the site to replace the contaminated caliche.		· ·								
I hereby certify that the information given above is true and complete to	the best of my knowledge and underst	and that pursuant to NMOCD rules and								
regulations all operators are required to report and/or file certain release r										
public health or the environment. The acceptance of a C-141 report by the	ie NMOCD marked as "Final Report"	does not relieve the operator of liability								
should their operations have failed to adequately investigate and remedia	te contamination that pose a threat to	ground water, surface water, human health								
or the environment. In addition, NMOCD acceptance of a C-141 report of	loes not relieve the operator of respon	sibility for compliance with any other								
federal, state, or local laws and/or regulations.										
	OIL CONSER	VATION DIVISION								
Simpling Irod Philad										
Signature: Fred B Wall										
Printed Name: Brian Wall	Approved by Environmental Specialist:									
Title: Construction Foreman II	Approval Date:	Expiration Date:								
	- pp.o. at Duto.									
E-mail Address: bwall@linnenery.com	Conditions of Approval:									
	1 4	Attached								

Phone: 806-367-0645

Date: 2/5/14 * Attach Additional Sheets If Necessary

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

	Release Notification and Corrective Action														
						OPERAT	ſOR	[Initia	al Report	\boxtimes	Final Report			
Name of Co						Contact: Brian Wall									
Address: 21				40		Telephone No.: 806-367-0645									
Facility Nar	ne: McCla	y Federal #7	7			Facility Type: Oil									
Surface Ow	ner: Feder	al		Mineral C	Wner				API No	.: 3001510	370				
				LOCA	ΙΟΙΤΑ	ION OF RELEASE									
Unit Letter C	Section 33	Township 18S	Range 30E	Feet from the 330		South Line North	Feet from the 1650	1	est Line est	County	County Eddy				
		La	titude:	<u>32.7103208597</u>			::	5130974	·						
Turra a f D ala	01				URE	OF REL	Release: 10 bbls	ī	Volumo E	Recovered: (<u> </u>				
Type of Release Source of Re		er					lour of Occurrenc	e:		Hour of Dis		:			
Was Immedia	ate Notice (Yes [] No 🗍 Not R	equired	If YES, To									
By Whom? E	Brian Wall					Date and H	lour 09/26/2013 7	7:45am							
Was a Water			Yes 🛛] No			lume Impacting t		course.						
If a Watercou	irse was Im	pacted, Descr	ibe Fully.	*											
			dial Actio	n Taken.*: Missed	opening	valve when res	starting well. Heater	r exceeded	operating	pressure blew	v oil thro	ugh pressure			
Describe Cause of Problem and Remedial Action Taken.*: Missed opening valve when restarting well. Heater exceeded operating pressure blew oil through pressure relief valve on top of the heater. Describe Area Affected and Cleanup Action Taken.*: The release covered 2,486 sq ft of lease pad and pasture land. RECS personnel were on site beginning on September 30 th , 2013 to assess the releases. Soil samples from the surface and with depth were taken from the release. The samples were field tested for chlorides and organic vapors and representative samples were taken to a commercial laboratory for analysis. Point 1 returned laboratory chloride, GRO, DRO and BTEX below regulatory standards beginning at 1 foot. Point 3 returned laboratory chloride, GRO, DRO and BTEX below regulatory standards beginning at 1 foot. Point 3 returned laboratory chloride, GRO, DRO and BTEX below regulatory standards beginning at 1 foot. Point 3 returned laboratory chloride, GRO, DRO and BTEX below regulatory standards beginning at 1 foot. Point 3 returned laboratory chloride, GRO, DRO and BTEX below regulatory standards beginning at 1 foot. Point 3 returned laboratory chloride, GRO, DRO and BTEX below regulatory standards beginning at 1 foot. Point 3 returned laboratory chloride, GRO, DRO and BTEX below regulatory standards beginning at 1 foot. Point 3 returned laboratory chloride, GRO, DRO and BLM on October 29 th , 2013 and Approved by BLM the same day. NMOCD approved the CAP on November 15 th , 2013. On November 6 th , 2013, CAP activities began at the site. The areaining caliche was backfilled for the action of the 4 foot excavation. Once the 4 foot excavation was completed, wall samples were taken to a commercial laboratory for analysis. To bottom composite returned a chloride value of 320 mg/kg, a DRO value of 306 mg/kg and GRO and BTEX values of non-detect. This data was sent to BLM and NMOCD with a request to backfill the site. BLM approved the site to be backfilled on November 25 th , 2013 and NMOCD approved the site to be backf											des and ow regulatory laboratory er 29 th , 2013 a inside the MOCD emaining o confirm all nalysis. The nd NMOCD or 2 nd , 2013. A soil was le of the post excavation pasture area ms all operators The ly investigate				
Signature:	Fred B	s Wall				OIL CONSERVATION DIVISION									
Printed Name	e: Brian Wa	11				Approved by Environmental Specialist:									
Title: Constru	uction Fore	man II				Approval Da	te:	E	Expiration	Date:					
E-mail Addre	ess: bwall@)linnenergy.co	om			Conditions o	f Approval:			Attached	i 🗌				

Phone: 806-367-0645

* Attach Additional Sheets If Necessary

2/5/14

Date: