<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District [[1301 W. Grand Avenue, Artesia, NM 88210 10 Rio Brazos Road, Aztec, NM 87410 strict IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Submit 2 Copies to appropriate

District Office in accordance with Rule 116 on back side of form

Form C-141

Revised October 10, 2003

Release Notification and Corrective Action OPERATOR Interim Report Final Report John H. Hendrix Corporation Carolyn Doran Haynes Name of Company Contact 110 N. Marienfeld, Midland, TX 79702 Address Telephone No. 432-684-6631 Facility Name Brunson C Facility Type area east-northeast of facility Surface Owner P. Brunson West Mineral Owner Lease No. LOCATION OF RELEASE Feet from the Unit Letter Section Township Range North/South Line Feet from the East/West Line County **T22S R37E** Lea

Latitude Longitude

NATURE OF RELEASE Volume of Release Volume Recovered Type of Release HISTORICAL HYDROCARBON HISTORICAL HISTORICAL Date and Hour of Occurrence Date and Hour Discovery Source of Release HISTORICAL UNKNOWN HISTORICAL If YES, To Whom? Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required By Whom? Date and Hour Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. ☐ Yes ☒ No a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

The area had historical, weathered hydrocarbon hardpan located east northeast of the Brunson C battery and surrounded by both abandoned and active oil/gas transportation pipelines of multiple ownership. JHHC voluntarily performed multiple housekeeping actions to return the surface to productive vegetation capacity. Mr. Greg Holt, leaseholder for Mrs. West, has been informed of all activities.

Describe Area Affected and Cleanup Action Taken.*

An approx. 7,200 ft² area was excavated and 4,057 yd³ of impacted soils were transported to the JHHC landfarm (NM-2-21). A two-ft compacted clay layer was installed at the bottom of the excavation and then backfilled with clean soils purchased from the landowner. The final topsoil layer was then reseeded and the remediated area has since achieved productive vegetative capacity. In accordance with conditional agreement with OCD for the preceding actions, a monitoring well was installed along the downgradient side (SSE) of the area and 4 quarters of monitoring for BTEX, chloride, and TDS was performed to determine groundwater quality at the site, BTEX concentrations are less than WOCC standards (below lab detection limits). An off-site upgradient source(s) is (are) likely responsible for the elevated chloride (5.150 mg/L) and TDS (10,200 mg/L) concentrations in groundwater at the site, most likely from the Eunice Gas Plant located only 400 ft north and one or more of at least nine historical environmental cases as identified on attached maps and report. A chloride concentration of 480 mg/kg obtained from a composited soil sample collected at the base of the excavation demonstrates the remediated area is not the source for chloride/TDS impact. Additional information is attached to document remedial actions taken and support the conclusion of offsite impact.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other

Signature: Cause Ano Ham	OIL CONS	ERVATION D	DIVISION
Printed Name: Carolyn Doran Haynes	Approved by District Supervisor	••	
Title:	Approval Date:	Expiration Da	ale:
Date: 0/-/8-20/3 Phone: 432-684-6631	Conditions of Approval:		Attached

^{*} Attach Additional Sheets If Necessary

District I
1625 R. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410 District IV

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State of New Mexico DEC 0 4 2008 Energy Minerals and Natural Resources 0 4 2008

Form C-141 Revised October 10, 2003

Oil Conservation Division OBBS (1220 South St. Francis Dr. Santa Fe, NM 87505

District Office in accordance with Rule 116 on back side of form

OPERATOR Initial Report Final Report Final Report Final Report Final Report Address 110 N. Martenfield, Midland, TX 79702 Telephone No. 575-590-5689				Kele	ease Nomicat	10I	i and Co	orrective A	ction	1			٠
Name of Company John H. Hendrix Corporation Contact Carolyn Doran Haynes Address 110 N. Marierfield, Midland, TX 79702 Telephone No. 575-390-5689							OPERA'	TOR			al Report		Final Repor
Facility Name	Name of Co	mpany	John H. He	ndrix Co	poration		Contact	Carolyn D	oran H				
Surface Owner P. Brusson West Mineral Owner Lease No.				ienfeld, N	Midland, TX 79702				9689				
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Approved by District Supervisor: Secretary Secretary Printed Name: Carolyn Doran Haynes Approved by District Supervisor: Secretary Secretary Approved by District Supervisor: Secretary Secretary Approved by District Supervisor: Secretary Secretary Conditions of Approved: \$5 13 09 E-mail Address: cdoranhaynes@jhhc.org Conditions of Approved: \$5 3 09 Conditions of Approved: \$5 3 09	regulations all public health should their of or the environ	Il operators or the envi operations l oment. In a	are required to ronment. The nave failed to and addition, NMC	o report as acceptant idequately ICD accep	nd/or file certain relea ce of a C-141 report b investigate and reme	se no y the diate	otifications a NMOCD m contaminati	nd perform correct arked as "Final R on that pose a thr	ctive act teport" d reat to gr	ions for rel loes not rel round wate	eases which ieve the oper r, surface wa	may en ator of ter, hur	danger liability nan health
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rich Dr., Hobbs, NM 88240 District II
1301 W Grand Avenue, Artesia, NM 88210
Pistrict III
000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised October 10, 2003

Oil Conservation Division 1220 South St. Francis-Santa Fe, NM 87505

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Printed Name	: Caroly	n Doran Hayn	es			Approved by	District Supervis	<u>QNWE</u>	NTAL E	NGINEER	
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E-mail Addre		haynes@jhhc.		ne: 575-390-9689		Conditions of	Approval:			Attached []	79

* Attach Additional Sheets If Necessary



CERTIFIED MAIL RETURN RECEIPT NO. 7099 3400 0017 1737 1827

February 18, 2010

Mr. Geoffrey Leking New Mexico Oil Conservation Division, Environmental Bureau 1625 N. French Drive Hobbs, Mexico 88240

RE: Corrective Action Plan (1RP-2179)
Brunson C Battery
Township 22 South, Range 37 East, Section 3, Lea County, NM

Dear Mr. Leking:

John H. Hendrix Corporation (JHHC) has retained Trident Environmental to address historical impact located east-northeast of the Brunson C Battery which is also surrounded by both abandoned and active oil/gas transportation pipelines of multiple ownership. JHHC is voluntarily performing this housekeeping action to return the surface to productive capacity.

Background

The Brunson C Battery is located at township 22 south, range 37 east, section 3, unit letter P approximately one mile southeast of Eunice, New Mexico, as shown on the attached Site Location Map (Figure 1). Land in the site area is primarily utilized for natural oil and gas production and pasture land for cattle grazing.

Groundwater in the site area occurs within the High Plains aquifer under water table (unconfined) conditions (Hart and McAda, 1985) at a depth of approximately 75 to 94 feet below ground surface (based on USGS and NMOSE online databases).

Description of Work Performed

In accordance with the work plan submitted to the District 1 NMOCD office on May 12, 2009, and the NMOCD-approved Form C-141 (Attachment A), excavation and removal of petroleum hydrocarbon-impacted soils was conducted over an approx. 7,200 ft² area which is the extent where productive and healthy vegetation was reached. Excavation terminated at a depth of approx. 10 ft below ground surface (bgs) which was the maximum extent capable using the backhoc due to the indurated caliche layer encountered. A total of 3,517 yd³ was transported to the centralized surface waste management facility operated by JHHC (NM-02-021). Photo documentation of the completed excavation is included in Appendix B.

Soil Sampling Results

Target concentrations for closure and sample collection were as follows:

- o 1,000 mg/kg TPH
- 100 ppm OVM, and/or 10 mg/kg benzene, and 50 mg/kg BTEX (EPA Method 8021B).
- One sample consisting of a composite from a grab sample collected along each wall (north, south, east and west sides).
- o One five-point composite sample from the floor of the excavation.

Composite soil samples, as described above, were collected and submitted to Cardinal Laboratories in Hobbs, NM, for analysis of total petroleum hydrocarbons (TPH) and benzene, toluene, ethylbenzene, and xylenes (BTEX) using EPA Methods 8015 and 8021B, respectively. The analytical results are summarized in the table below. The laboratory analytical reports and chain of custody documentation are included in Attachment C.

Sample (Depth)	Sample Type	Benzene	BTEX	GRO	DRO	TPH
		(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Floor (10 ft bgs)	5-pt Composite	< 0.050	0.636	40	2,010	2,050
Wall (6 ft bgs)	4-pt Composite	< 0.050	<0.300	<10	686	686

Corrective Action Plan

Target concentrations for closure have been met for the walls and productive and healthy vegetation has been reached at the perimeter of the excavated area. Although the target concentration for TPH was not met for the floor, there was an indurated caliche layer encountered at approximately 10 ft bgs. Therefore, JHHC proposes to install a one-ft compacted clay layer at the bottom of the excavation (10 ft bgs) prior to backfilling with clean soils purchased from the landowner. The final topsoil layer will then be re-seeded to restore the pasture land to productive vegetative capacity. The proposed corrective actions are protective of the surface vegetation and groundwater. Mr. Greg Holt, leaseholder for the landowner, has been informed.

Upon completion of the work described above, a Final C-141 form with supporting documentation will be prepared by Trident Environmental describing the clay layer installation and backfilling procedures for submission to the District 1 OCD office in Hobbs.

JHHC – Brunson C Battery T22S-R37E-Section 3, Unit Letter P February 18, 2010

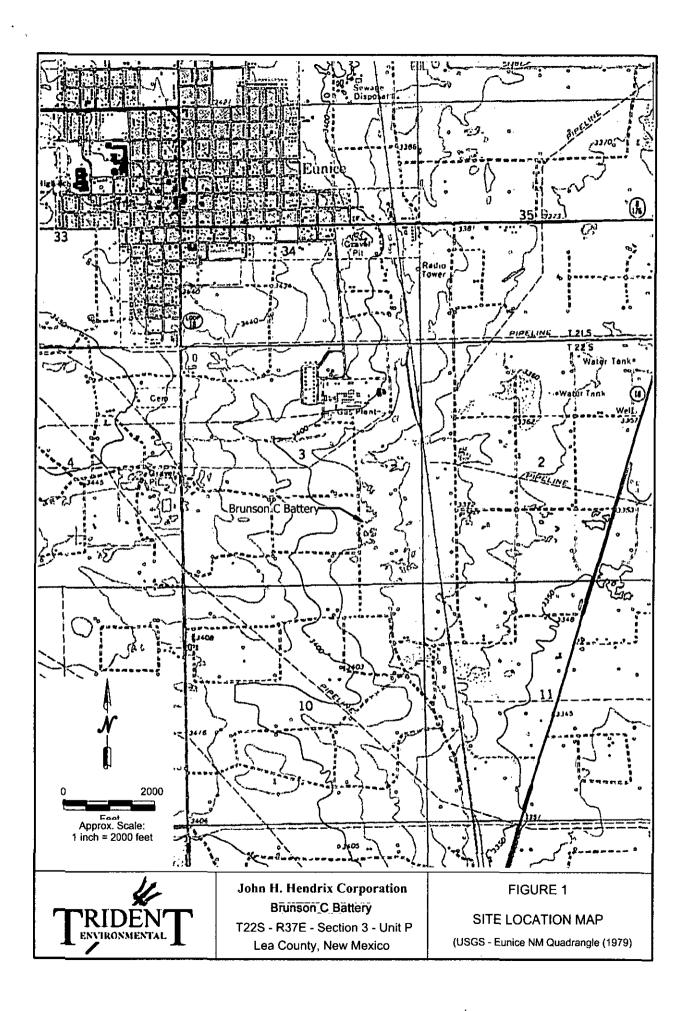
We appreciate the opportunity to work with you on this project. Please feel free to call me at 432-638-8740 or Carolyn Haynes at 575-390-9689, if you have any questions.

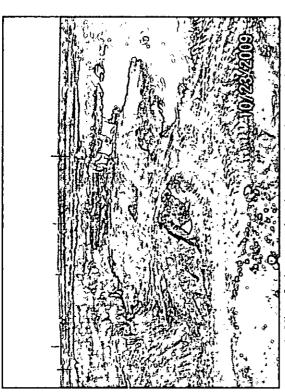
Sincerely,

Gilbert J. Van Deventer, REM, PG Trident Environmental - Project Manager

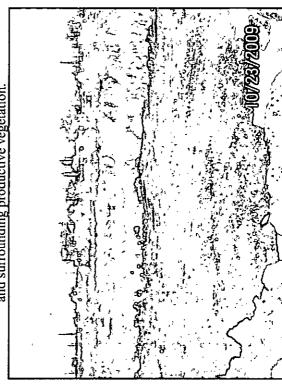
cc: Carolyn Haynes (JHHC)

enclosures: site location map, C-141s, photo documentation, analytical reports





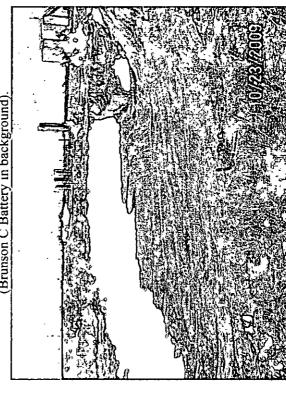
1: View facing east showing completed excavation and surrounding productive vegetation.



3: View facing northwest showing north wall and floor (Oxy tank battery shown in background).



2: View facing west showing floor, and south and west walls (Brunson C Battery in background).



 View facing southwest showing south wall and tank battery in background.



ANALYTICAL RESULTS FOR JOHN H. HENDRIX CORPORATION ATTN: CAROLYN HAYNES P.O. BOX 910 **EUNICE, NM 88231** FAX TO (575) 394-2653

Receiving Date: 10/23/09

Reporting Date: 10/28/09

Project Owner: JOHN H. HENDRIX CORPORATION

Project Name: BRUNSON C BATTERY

LAB NO. SAMPLE ID

Project Location: T22S, R37E, SEC 3, LEA CO., NM

Sampling Date: 10/23/09

Sample Type: SOIL

Sample Condition: COOL & INTACT @ 60C

Sample Received By: ML

Analyzed By: AB/ZL

GRO DRO ETHYL . TOTAL (C6-C10) (>C10-C28) BENZENE: TOLUENE BENZENE XYLENES (ma/ka) (mg/kg) (mg/kg) (mg/kg) (mg/kg) (mg/kg)

	-				
10/26/09	10/26/09	10/27/09	10/27/09	10/27/09	10/27/09
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422	434	0.043	0.046	0:047	0.134
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84.4	86.8	86.0	92.0	94.0	89.3
6.5	8.0	<1.0	<1.0	<1.0	<1.0
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METHODS: TPH GRO & DRO - EPA'SW-846 8015 M; BTEX - SW-846 8021B.

TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE, AND TOTAL XYLENES. Not accredited for GRO/DRO.

*TPH second surrogate outside historical limits due to matrix interference.



ANALYTICAL RESULTS FOR JOHN H. HENDRIX CORPORATION ATTN: CAROLYN DORAN HAYNES P.O. BOX 910 EUNICE, NM 88231

Receiving Date: 10/23/09 Reporting Date: 10/26/09

Project Owner: JOHN H. HENDRIX CORPORATION

Project Name: BRUNSON C BATTERY

Project Location: T22S, R37E, SEC 3, LEA COUNTY NM

Analysis Date: 10/23/09 Sampling Date: 10/23/09 Sample Type: SOIL

Sample Condition: COOL & INTACT @ 6°C

Sample Received By: ML

Analyzed By: HM

LAB NO.	SAMPLE ID		CI (mg/kg)
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Quality Cont	rol		500
True Value 0	2C :		500
% Recovery			100
Relative Per	cent Difference		< 0.1

METHOD: Standard Methods 4500-CFB

Note: Analysis performed on a 1:4 w:v aqueous extract.

Not accredited for chloride.

Chemi

Date

Page 1 of 1

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Leking, Geoffrey R, EMNRD

From:

Leking, Geoffrey R, EMNRD

Sent:

Tuesday, March 30, 2010 4:07 PM

To:

'Gil Van Deventer'

Subject:

RE: Corrective Action Plan - Brunson C Battery (1RP-2179)

Gil

Please provide proof that ground water in Unit Letter P of Section 3-22S-37E is greater than 50 feet below ground surface (bgs) as the map at NMOCD indicates that water is at approximately 30 feet bgs. Thank you.

Geoffrey Leking Environmental Engineer NMOCD-Hobbs

From: Gil Van Deventer [mailto:gilbertvandeventer@suddenlink.net]

Sent: Thursday, February 18, 2010 9:23 AM

To: Leking, Geoffrey R, EMNRD

Cc: Carolyn Haynes

Subject: Corrective Action Plan - Brunson C Battery (1RP-2179)

Good Morning Geoff:

As agent for John H. Hendrix Corporation, Trident Environmental submits the attached *Corrective Action Plan* for the Brunson C Battery (NMOCD Case # 1RP-2179) located in T22S-R37E-Sec 3, Lea County, NM. One complete hard copy will be sent to you via USPS Certified Mail (# 7099 3400 0017 1737 1827) today.

We look forward to your reply to the proposed corrective actions. Please feel free to contact me at 432-638-8740, or Carolyn Haynes with JHHC at 575-390-9689.

Thank you, Gil

Gilbert J. Van Deventer, PG, REM

Trident Environmental P. O. Box 7624, Midland TX 79708 Work/Mobile: 432-638-8740

Fax: 413-403-9968 Home: 432-682-0727

CONFIDENTIALITY NOTICE

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CERTIFIED MAIL RETURN RECEIPT NO. 7099 3400 0017 1737 1827

February 18, 2010

Mr. Geoffrey Leking New Mexico Oil Conservation Division, Environmental Bureau 1625 N. French Drive Hobbs, Mexico 88240 FEB 1 9 2010 HOBBSOCD

RE: Corrective Action Plan (1RP-2179)

Brunson C Battery

Township 22 South, Range 37 East, Section 3, Lea County, NM

Dear Mr. Leking:

John H. Hendrix Corporation (JHHC) has retained Trident Environmental to address historical impact located east-northeast of the Brunson C Battery which is also surrounded by both abandoned and active oil/gas transportation pipelines of multiple ownership. JHHC is voluntarily performing this housekeeping action to return the surface to productive capacity.

Background

The Brunson C Battery is located at township 22 south, range 37 east, section 3, unit letter P approximately one mile southeast of Eunice, New Mexico, as shown on the attached Site Location Map (Figure 1). Land in the site area is primarily utilized for natural oil and gas production and pasture land for cattle grazing.

Groundwater in the site area occurs within the High Plains aquifer under water table (unconfined) conditions (Hart and McAda, 1985) at a depth of approximately 75 to 94 feet below ground surface (based on USGS and NMOSE online databases).

Description of Work Performed

In accordance with the work plan submitted to the District 1 NMOCD office on May 12, 2009, and the NMOCD-approved Form C-141 (Attachment A), excavation and removal of petroleum hydrocarbon-impacted soils was conducted over an approx. 7,200 ft² area which is the extent where productive and healthy vegetation was reached. Excavation terminated at a depth of approx. 10 ft below ground surface (bgs) which was the maximum extent capable using the backhoe due to the indurated caliche layer encountered. A total of 3,517 yd³ was transported to the centralized surface waste management facility operated by JHHC (NM-02-021). Photo documentation of the completed excavation is included in Appendix B.

Soil Sampling Results

Target concentrations for closure and sample collection were as follows:

- o 1,000 mg/kg TPH
- o 100 ppm OVM, and/or 10 mg/kg benzene, and 50 mg/kg BTEX (EPA Method 8021B).
- One sample consisting of a composite from a grab sample collected along each wall (north, south, east and west sides).
- One five-point composite sample from the floor of the excavation.

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Sample (Depth)	Sample Type	Benzene (mg/kg)	BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	TPH (mg/kg)
Floor (10 ft bgs)	5-pt Composite	<0.050	0.636	40	2,010	2,050
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Corrective Action Plan

Target concentrations for closure have been met for the walls and productive and healthy vegetation has been reached at the perimeter of the excavated area. Although the target concentration for TPH was not met for the floor, there was an indurated caliche layer encountered at approximately 10 ft bgs. Therefore, JHHC proposes to install a one-ft compacted clay layer at the bottom of the excavation (10 ft bgs) prior to backfilling with clean soils purchased from the landowner. The final topsoil layer will then be re-seeded to restore the pasture land to productive vegetative capacity. The proposed corrective actions are protective of the surface vegetation and groundwater. Mr. Greg Holt, leaseholder for the landowner, has been informed.

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We appreciate the opportunity to work with you on this project. Please feel free to call me at 432-638-8740 or Carolyn Haynes at 575-390-9689, if you have any questions.

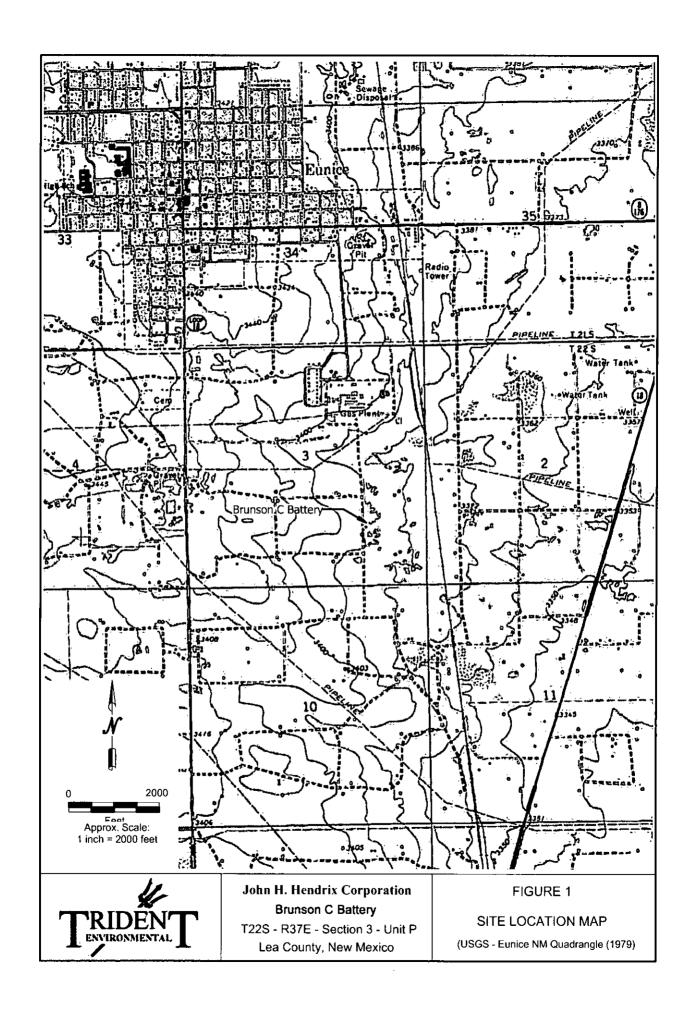
Sincerely,

Gilbert J. Van Deventer, REM, PG

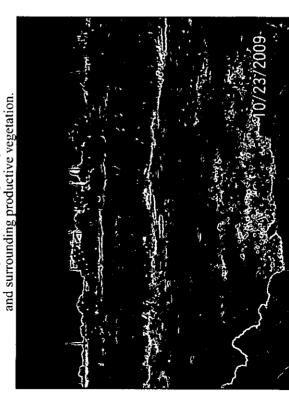
Trident Environmental - Project Manager

cc: Carolyn Haynes (JHHC)

enclosures: site location map, C-141s, photo documentation, analytical reports



1: View facing east showing completed excavation and surrounding productive vegetation



3: View facing northwest showing north wall and floor (Oxy tank battery shown in background).

JHHC – Brunson C Battery T22S-R37E-Section 3, Unit Letter P



2: View facing west showing floor, and south and west walls (Brunson C Battery in background).



 View facing southwest showing south wall and tank battery in background.



ANALYTICAL RESULTS FOR JOHN H. HENDRIX CORPORATION ATTN: CAROLYN HAYNES P.O. BOX 910
EUNICE, NM 88231
FAX TO (575) 394-2653

Receiving Date: 10/23/09 Reporting Date: 10/28/09

te: 10/28/09

Project Owner: JOHN H. HENDRIX CORPORATION.

Project Name: BRUNSON C BATTERY

Project Location: T22S, R37E, SEC 3, LEA CO., NM

Sampling Date: 10/23/09

Sample Type: SOIL

Sample Condition: COOL & INTACT @ 60C

Sample Received By: ML

Analyzed By: AB/ZL

LAB NO SAMPLE ID	GRO (C _e -C ₁₀) (mg/kg)	DRO₃ (>C₁0-C₂8) (mg/kg)	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL BENZENE (mg/kg)	XYLENES (mg/kg)
ANALYSIS DATE:	10/26/09	10/26/09	10/27/09	:: <10/27/09	10/27/09	10/27/09
H18567-1 FLOOR	40.0	2,010	<0.050	0.109	0.058	0.469
H18567-2 WALL*	<10.0	, 686	<0.050	<0.050	0.227	<0.300
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Quality Control	422	434	0.043	0.046	0.047	0.134
True Value QC	500	500			0.050	
% Recovery	84.4	86.8			94.0	89.3
Relative Percent Difference	6.5	.8.0	<1.0	.<1.0	性可能 以,<1.0	<1.0

METHODS: TPH GRO'& DRO EPA SW-846 8015 M; BTEX - SW-846 8021B.

TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE,

AND TOTAL XYLENES: Not accredited for GRO/DRO:

*TPH second surrogate outside historical limits due to matrix interference:

Lab Director

Date:



ANALYTICAL RESULTS FOR
JOHN H. HENDRIX CORPORATION
ATTN: CAROLYN DORAN HAYNES
P.O. BOX 910:
EUNICE, NM 88231

Receiving Date: 10/23/09 Reporting Date: 10/26/09

Project Owner: JOHN H. HENDRIX CORPORATION

Project Name: BRUNSON C BATTERY

Project Location: T22S, R37E, SEC 3, LEA COUNTY NM

Analysis Date: 10/23/09 Sampling Date: 10/23/09

Sample Type: SOIL

Sample Condition: COOL & INTACT @ 6°C

Sample Received By: ML

Analyzed By: HM

LAB NO. SAMPLE ID	(mg/kg)
等H18567-1。 FLOOR (3480
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	1.
Quality Control	500
True Value QC	500
% Recovery	100
Relative Percent Difference	< 0.1 -

METHOD: Standard Methods 4500-CIB

Note: Analysis performed on a 1.4 w.v. aqueous extract.

Not accredited for chloride:

to the telephone

Chemist >

Date

[um Around Time ∼ Ş4 Hours] OUEST SPLP Chloride gil@trident-environmental.com Additional Fax Number: Chlorides (325,3 / SM4500,B) Solids (SM2540C) (Circle or Specify Method No.) cdoranhaynes@jhhc.org CO3' HCO3) Anions (Cl. SO4, CHAIN-OF-CUSTODY AND ANALYSIS Cations (Ca, Mg, Na; K) Page Moisture Content CC/WS Semir Anti- 8570C/625 8260B/624 BC/WS API ĝ BCI Š ICLP Pesticides ANALYSIS REQUEST TCLP Semi Volatiles LAB Order ID# ج جes Email Results to: ₹ CLP RCRA Metals: Ag As Ba Cd Cr Pb Se Hg Total RCRA Metals: Ag As Ba Cd Cr Pb Se Hg PAH 8270C Phone Results Fax Results REMARKS M2108 H91 BTEX 8021B 80218/602 BATM 00 TIME) SAMPLING 23.9 Cardinal Laboratories, Inc. PO. Box 3040 Midland TX 79702-3040. cdoranhaynes@jhhc.org Этйо Gil Van Deventer Time: PRESERVATIVE (SOT\žno!) 9noN METHOD CE Sampler Name; OS2H John H. Hendrix Corporation OSHEN HOG (Meiāls) Carolyn Haynes HCL (BIEX) (Street, City, Zip) (432) 684-6631 Brunson C Battery SCUDGE Sample Condition (of #216 MATRIX Company: 3 - BIA Z SOIL **MATER** ddress Received by Yes. # сойтьійекѕ S qmo(O) to dsi(O) (575) 394-2653 *T22S, R37E, Sec 3, Lea County/NM John H. Hendrix Corporation - Bus - Other PO Box 910, Eunice NM 88231 John H. Hendrix Corporation Delivered By: (Circle One) 200 . ४ ४ Hobbs New ·Fax (575) 393-2476 (575) 394-2649 · UPS Carolyn Haynes, Tel (575) 393-2326; ompany Name: oject Manager; oject Location ONLY AB USE Sampler. #95

Gonzales, Elidio L, EMNRD

From:

Hill, Larry, EMNRD

Sent:

Tuesday, November 02, 2010 1:08 PM

To:

Johnson, Larry, EMNRD

Cc:

Leking, Geoffrey R, EMNRD; Gonzales, Elidio L, EMNRD

Subject:

FW: Notification of Sampling Activities / JHHC CSWMF NM-2-0021

Attachments:

gil.vcf

From: Gil Van Deventer [mailto:gil@trident-environmental.com]

Sent: Tuesday, November 02, 2010 7:52 AM

To: Jones, Brad A., EMNRD

Cc: Carolyn Haynes; Hill, Larry, EMNRD

Subject: Re: Notification of Sampling Activities / JHHC CSWMF NM-2-0021

I meant Wednesday Nov 3rd. - had my dates wrong. Nov 3rd is when we have a backhoe scheduled. If you have any questions please feel free to contact me at 432-638-8740 or Carolyn Haynes with JHHC at 432-684-6631.

Thanks Gil

Gilbert J. Van Deventer, PG, REM

On 10/27/10 5:54 PM, Gil Van Deventer wrote:

Facility: John H. Hendrix Corp. Centralized Surface Waste Management Facility (NM-2-0021)

Location: W/2 NW/4, W2 SW/4, Section 15, Township 24 South, Range 36 East, Lea County, New Mexico

Acitivity: Treatment and vadose zone sampling

Scheduled Date: November 4, 2010

Brad:

On behalf of John H. Hendrix Corp. (JHHC) please let this email serve as notification for the annual sampling of the treatment and vadose zone at the above-referenced facility. Work will be conducted in accordance with permit # NM-2-0021 and lab results will be submitted to NMOCD within 45 days following receipt from the laboratory.

If you have any questions please feel free to contact me at 432-638-8740 or Carolyn Haynes with JHHC at 432-684-6631.

Thanks - Gil

Gilbert J. Van Deventer, PG, REM Trident Environmental P. O. Box 12177, Odessa TX 79768

Work: 432-682-0008

JHH C 135 30430.



January 11, 2013

Mr. Geoffrey Leking New Mexico Oil Conservation Division, Environmental Bureau 1625 N. French Drive Hobbs, Mexico 88240

HOBBS OCD

JAN 3 0 2013

RECEIVED

RE: Completion of Remedial Actions (Final C-141)
Brunson C Battery (1RP-2179)

Township 22 South, Range 37 East, Section 3, Lea County, NM

Dear Mr. Leking:

As agent for John H. Hendrix Corporation (JHHC), Trident Environmental submits this report and final C-141 form (Attachment A) to describe and document completion of remedial actions at the above-referenced facility. Copies of the *Corrective Action Plan*, initial C-141 forms, and NMOCD email correspondence are included in Attachment B. JHHC voluntarily performed this housekeeping action to return the surface to productive vegetation capacity.

Background

The Brunson C Battery is located at township 22 south, range 37 east, section 3, unit letter P approximately one mile southeast of Eunice, New Mexico, as shown on Figure 1 (Site Topographic Map). Land in the site area is primarily utilized for oil and gas production and pasture land for cattle grazing.

Groundwater in the site area occurs within the High Plains (alluvium and/or Ogallala Formation) aquifer under water table (unconfined) conditions (Hart and McAda, 1985) at a depth of approximately 35 feet below ground surface. The prevailing direction of groundwater flow is to the south-southeast in that area.

Description of Work Performed

An approximately 7,200 ft² area was excavated which is the extent where productive and healthy vegetation was reached, and 4,057 yd³ of impacted soils were transported to the JHHC landfarm (NM-2-21) as described in more detail in the previously submitted *Corrective Action Plan* (Attachment B). After obtaining approval from OCD on June 10, 2010 (email, Attachment B), a two-ft compacted clay layer was installed at the bottom of the

excavation and then backfilled with clean soils purchased from the landowner. The final topsoil layer was then re-seeded. In accordance with OCD's conditional approval of the *Corrective Action Plan* to progress forward with the backfilling activities, a monitoring well was installed along the downgradient side (SSE) of the area on September 28, 2011, after landowner negotiations were finalized, to assess groundwater quality at the site over a four quarter period. A copy of the well construction diagram and lithologic log is included in Attachment C. Photo documentation of backfilling activities and monitoring well construction is attached.

Groundwater Monitoring Results

Groundwater samples were collected and submitted to local laboratories (Cardinal Laboratories in Hobbs NM or Xenco Laboratories in Odessa TX), for analysis of benzene, toluene, ethylbenzene, and xylenes (BTEX) using EPA Method 8021B, and for chloride and total dissolved solids (TDS), using Standard Methods 4500Cl-B and 160.1, respectively. Results of four quarters of monitoring for BTEX, chloride, and TDS are tabulated below and depicted on the Site Groundwater Monitoring Map (Figure 2). The laboratory analytical reports, chain of custody documentation, and the field sampling data form are included in Attachment D.

Sample Date	Depth to Groundwater (feet BTOC)	Chloride (mg/L)	TDS (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethyl- benzene (mg/L)	Xylene (mg/L)
10/05/11	40.10	6,360	11,400	< 0.001	< 0.002	< 0.001	< 0.004
01/24/12	40.17	6,000	11,000	< 0.001	< 0.001	< 0.001	< 0.003
04/15/12	40.19	6,000	11,000	<0.001	<0.001	<0.001	<0.003
08/29/12	40.27	5,150	10,200	<0.001	< 0.001	< 0.001	<0.003

BTEX concentrations are less than WQCC standards and consistently below lab detection limits. Chloride and TDS concentrations at the site exceed NMWQCC standards of 250 mg/L and 1,000 mg/L, respectively, as would be expected for regional groundwater impairment (see conclusions).

Conclusions

A chloride concentration of 480 mg/kg obtained from a composited soil sample collected at the bottom of the excavation on October 29, 2009, demonstrates the remediated area at the Brunson C Battery is not the source for chloride/TDS impact.

The lack of any measurable BTEX concentrations in the on site monitoring well further demonstrates JHHC operations have not impacted groundwater at the site.

An off-site upgradient source(s) is (are) likely responsible for the elevated chloride and TDS concentrations in groundwater at the site, possibly from the Eunice Gas Plant located less than a ¼ mile north and one or more of at least nine historical environmental investigations with NMOCD-assigned case numbers in section 3 as identified on Figure 1. The Eunice Gas Plant has been undergoing groundwater monitoring for over a decade under its Discharge Plan (GW-005) requirements due to extensive petroleum hydrocarbon and brine impacts from their past operations. Based on the most recently accessible results from a November 11, 2010 sampling event at the gas plant, chloride and TDS concentrations for the four upgradient wells closest to MW-1 at the Brunson C Battery are listed as follows:

Summary of Chloride/TDS Concentrations in Nearby Monitoring Wells

Sample Date	Chloride (mg/L)	TDS (mg/L)	Distance from MW-1 at Brunson C Battery
MW-14	43,900	68,500	1,500 ft North-Northeast
MW-19	12,100	21,200	1,120 ft Northeast
MW-20	2,760	6,420	700 ft North
MW-21	4,210	7,310	1,300 ft North

Figure 3 is a Site Vicinity Map depicting the chloride and TDS concentrations for the four Targa monitoring wells referenced above and the single monitoring well at the Brunson C Battery. The highly impacted Targa monitoring wells strongly suggest that the gas plant is a source of regional impact extending southward onto property where JHHC has operations. The exact source of the brine impact at the Eunice Gas Plant is not known, however Targa operates an active saltwater disposal well (SWD-1; API # 30-025-22583) which is located in close proximity, and upgradient, of the most severe brine-impacted groundwater (MW-14).

The Site Vicinity Topographic Map (Figure 1) identifies NMOCD-assigned case numbers for numerous environmental investigations by various operators involving past releases that have taken place in close proximity to the Brunson C Battery. Based on the limited data available in the NMOCD online database, these other investigations did not include groundwater assessment even though chloride impact into the vadose zone was documented in several cases. In some cases chloride impact was not even assessed even though it should have been a constituent of concern. These sites, along with other potential undocumented off site releases, may also be a source of the regional impact. The Site Vicinity Aerial Map (Figure 4) depicts the site in relation to other oil & gas operations including an Oxy tank battery, numerous pipelines, oil wells, and the Eunice Gas Plant where there is a saltwater disposal well, large landfarming areas, closed pits, and past releases.

Closure

JHHC has thoroughly and successfully remediated the historical petroleum hydrocarbon impact to the vadose zone via massive source removal, installation of a clay layer to inhibit downward migration, and restoration of vegetation capacity. Groundwater assessment for this site demonstrates there is no petroleum hydrocarbon impact to groundwater on site and that the source of chloride and TDS impact is from an upgradient off site source.

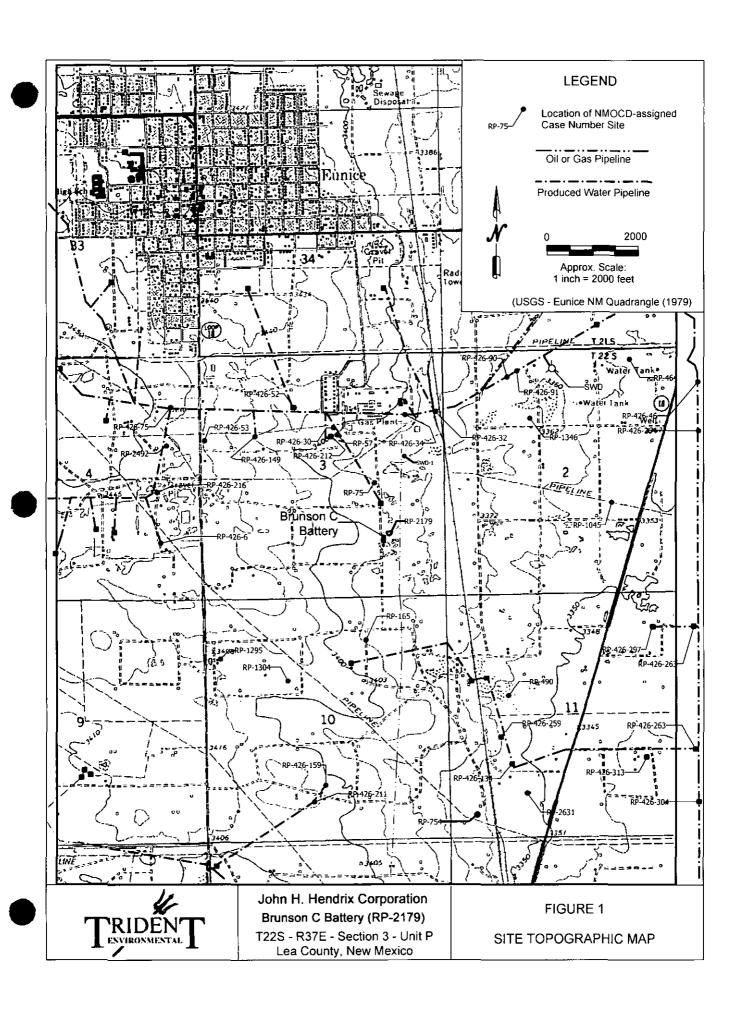
On behalf of JHHC, we look forward to receiving NMOCD approval of the enclosed final C-141. Please feel free to call me at 432-638-8740 or Carolyn Haynes at 432-684-6631, if you have any questions.

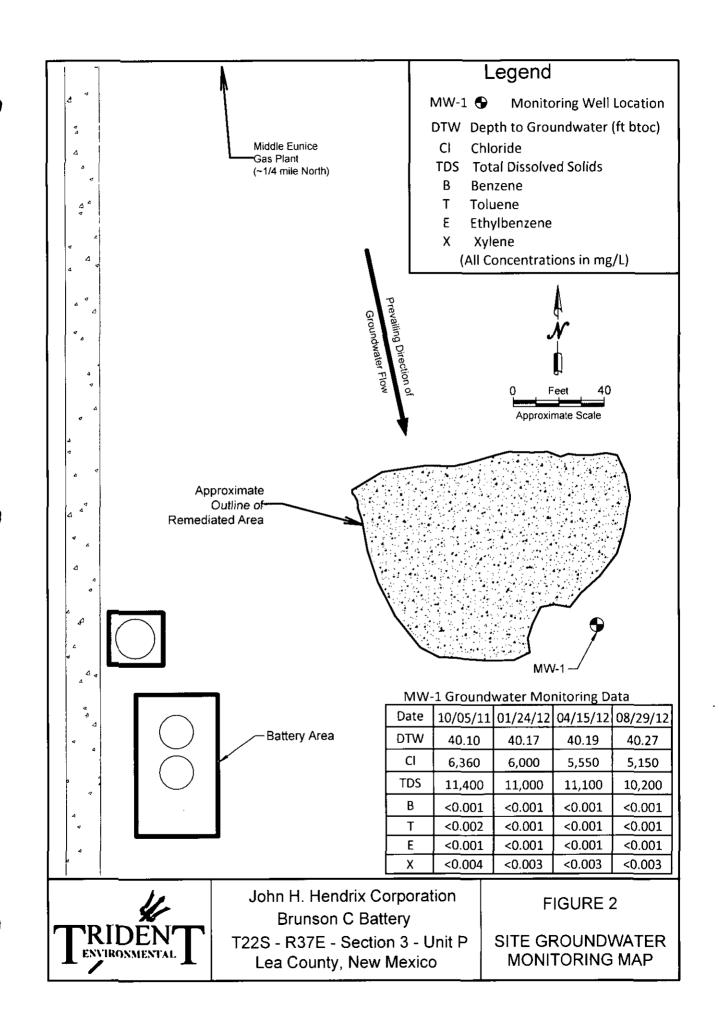
Sincerely,

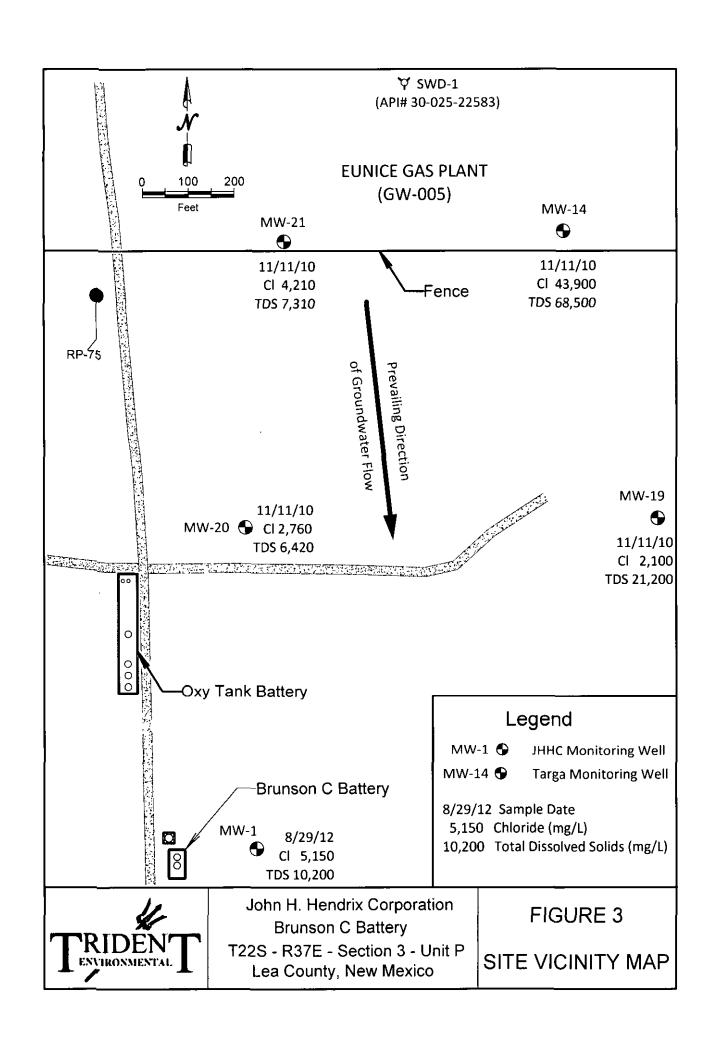
Gilbert J. Van Deventer, REM, PG Trident Environmental - Project Manager

cc: Carolyn Haynes (JHHC)

enclosures: site maps, photo documentation, Corrective Action Plan, C-141 forms, analytical reports







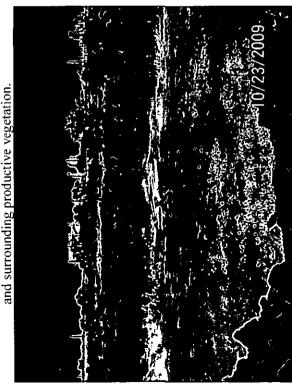




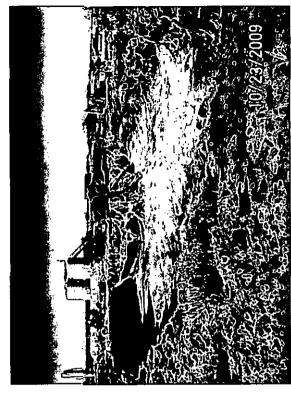
John H. Hendrix Corporation Brunson C Battery T22S - R37E - Section 3 - Unit P Lea County, New Mexico FIGURE 4
SITE VICINITY
AERIAL MAP



1: View facing east showing completed excavation and surrounding productive vegetation.



3: View facing northwest showing north wall and floor (Oxy tank battery shown in background).



2: View facing west showing floor, and south and west walls (Brunson C Battery in background).



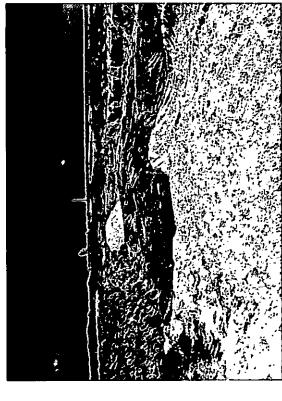
View facing southwest showing south wall and tank battery in background.



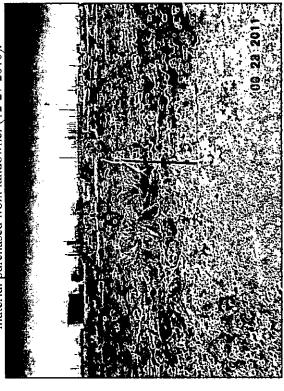
5: View facing north-northeast showing two-ft layer of clay at base of excavation (11/20/2010).



?: View facing east-northeast showing completed backfill to grade.



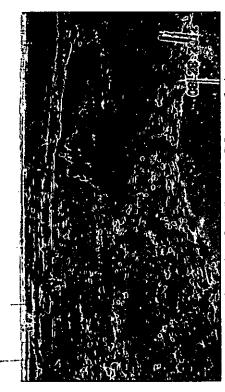
 View facing east showing backfilling with sand & caliche material purchased from landowner (12-27-2010).



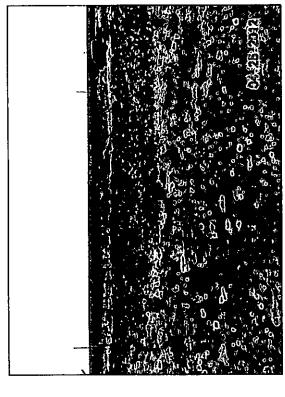
8: View facing north showing completed backfill. Gas plant in background and staked location for MW-1 in foreground.



9: View facing northwest showing drilling activity during installation of monitoring well MW-1.



11: View taken from Brunson C Battery facing northeast showing return of vegetation.



View facing south-southeast showing return of vegetation.



 View facing west showing return of vegetation With Brunson C Battery in background.



CERTIFIED MAIL RETURN RECEIPT NO. 7099 3400 0017 1737 1827

February 18, 2010

Mr. Geoffrey Leking New Mexico Oil Conservation Division, Environmental Bureau 1625 N. French Drive Hobbs, Mexico 88240

RE: Corrective Action Plan (1RP-2179)

Brunson C Battery

Township 22 South, Range 37 East, Section 3, Lea County, NM

Dear Mr. Leking:

John H. Hendrix Corporation (JHHC) has retained Trident Environmental to address historical impact located east-northeast of the Brunson C Battery which is also surrounded by both abandoned and active oil/gas transportation pipelines of multiple ownership. JHHC is voluntarily performing this housekeeping action to return the surface to productive capacity.

Background

The Brunson C Battery is located at township 22 south, range 37 east, section 3, unit letter P approximately one mile southeast of Eunice, New Mexico, as shown on the attached Site Location Map (Figure 1). Land in the site area is primarily utilized for natural oil and gas production and pasture land for cattle grazing.

Groundwater in the site area occurs within the High Plains aquifer under water table (unconfined) conditions (Hart and McAda, 1985) at a depth of approximately 75 to 94 feet below ground surface (based on USGS and NMOSE online databases).

Description of Work Performed

In accordance with the work plan submitted to the District 1 NMOCD office on May 12, 2009, and the NMOCD-approved Form C-141 (Attachment A), excavation and removal of petroleum hydrocarbon-impacted soils was conducted over an approx. 7,200 ft² area which is the extent where productive and healthy vegetation was reached. Excavation terminated at a depth of approx. 10 ft below ground surface (bgs) which was the maximum extent capable using the backhoe due to the indurated caliche layer encountered. A total of 3,517 yd³ was transported to the centralized surface waste management facility operated by JHHC (NM-02-021). Photo documentation of the completed excavation is included in Appendix B.

Soil Sampling Results

Target concentrations for closure and sample collection were as follows:

- o 1,000 mg/kg TPH
- 100 ppm OVM, and/or 10 mg/kg benzene, and 50 mg/kg BTEX (EPA Method 8021B).
- One sample consisting of a composite from a grab sample collected along each wall (north, south, east and west sides).
- One five-point composite sample from the floor of the excavation.

Composite soil samples, as described above, were collected and submitted to Cardinal Laboratories in Hobbs, NM, for analysis of total petroleum hydrocarbons (TPH) and benzene, toluene, ethylbenzene, and xylenes (BTEX) using EPA Methods 8015 and 8021B, respectively. The analytical results are summarized in the table below. The laboratory analytical reports and chain of custody documentation are included in Attachment C.

Sample (Depth)	Sample Type	Benzene	BTEX	GRO	DRO	TPH
		(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Floor (10 ft bgs)	5-pt Composite	< 0.050	0.636	40	2,010	2,050
Wall (6 ft bgs)	4-pt Composite	< 0.050	< 0.300	<10	686	686

Corrective Action Plan

Target concentrations for closure have been met for the walls and productive and healthy vegetation has been reached at the perimeter of the excavated area. Although the target concentration for TPH was not met for the floor, there was an indurated caliche layer encountered at approximately 10 ft bgs. Therefore, JHHC proposes to install a one-ft compacted clay layer at the bottom of the excavation (10 ft bgs) prior to backfilling with clean soils purchased from the landowner. The final topsoil layer will then be re-seeded to restore the pasture land to productive vegetative capacity. The proposed corrective actions are protective of the surface vegetation and groundwater. Mr. Greg Holt, leaseholder for the landowner, has been informed.

Upon completion of the work described above, a Final C-141 form with supporting documentation will be prepared by Trident Environmental describing the clay layer installation and backfilling procedures for submission to the District 1 OCD office in Hobbs.

JHHC – Brunson C Battery T22S-R37E-Section 3, Unit Letter P February 18, 2010

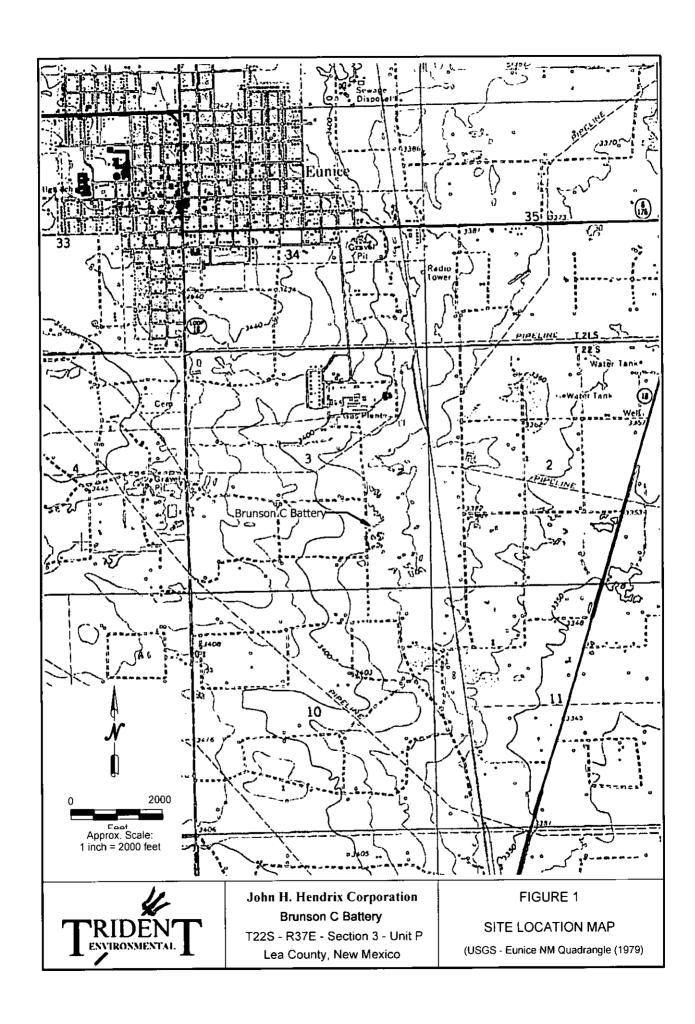
We appreciate the opportunity to work with you on this project. Please feel free to call me at 432-638-8740 or Carolyn Haynes at 575-390-9689, if you have any questions.

Sincerely,

Gilbert J. Van Deventer, REM, PG Trident Environmental - Project Manager

cc: Carolyn Haynes (JHHC)

enclosures: site location map, C-141s, photo documentation, analytical reports

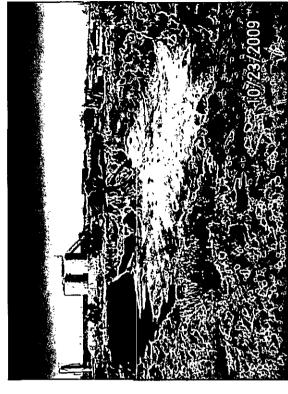


1: View facing east showing completed excavation and surrounding productive vegetation.

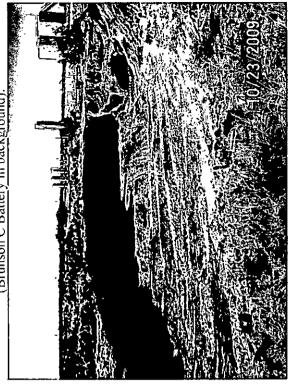


View facing northwest showing north wall and floor (Oxy tank battery shown in background).

JHHC – Brunson C Battery T22S-R37E-Section 3, Unit Letter P



2: View facing west showing floor, and south and west walls (Brunson C Battery in background).



View facing southwest showing south wall and tank battery in background.



ANALYTICAL RESULTS FOR JOHN H. HENDRIX CORPORATION ATTN: CAROLYN HAYNES

P.O. BOX 910 EUNICE, NM 88231 FAX TO (575) 394-2653

Receiving Date: 10/23/09 Reporting Date: 10/28/09

Project Owner: JOHN H. HENDRIX CORPORATION

Project Name: BRUNSON C BATTERY

Project Location: T22S, R37E, SEC 3, LEA CO., NM

Sampling Date: 10/23/09 Sample Type: SOIL

Sample Condition: COOL & INTACT @ 60C

Sample Received By: ML.

Analyzed By: AB/ZL

LAB NO. SAMPLE ID	GRO (C ₅ -C ₁₀) (mg/kg)	DRO (>C ₁₀ -C ₂₈) (mg/kg)	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)
ANALYSIS DATE:	10/26/09	10/26/09	10/27/09	10/27/09	10/27/09	10/27/09
H18567-1 FLOOR	40.0	2,010	<0.050	0.109	0.058	0.469
H18567-2 WALL*	<10.0	686	<0.050	<0.050	0.227	<0.300
Quality Control	422	434	0.043	0.046	0.047	0.134
True Value QC	500	500	0.050	0.050	0.050	0.150
% Recovery	84.4	86.8	86.0	92.0	94.0	89:3
Relative Percent Difference	6.5	8.0	<1.0	<1.0	<1.0	<1.0

METHODS: TPH GRO & DRO - EPA SW-846 8015 M; BTEX - SW-846 8021B.

TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE, AND TOTAL XYLENES. Not accredited for GRO/DRO.

*TPH second surrogate outside historical limits due to matrix interference.

Lab Director

Date



ANALYTICAL RESULTS FOR JOHN H. HENDRIX CORPORATION ATTN: CAROLYN DORAN HAYNES P.O. BOX 910 EUNICE, NM 88231

Receiving Date: 10/23/09 Reporting Date: 10/26/09

Project Owner: JOHN H. HENDRIX CORPORATION

Project Name: BRUNSON C BATTERY

Project Location: T22S, R37E, SEC 3, LEA COUNTY NM

Analysis Date: 10/23/09 Sampling Date: 10/23/09 Sample Type: SOIL

Sample Condition: COOL & INTACT @ 6°C

Sample Received By: ML

Analyzed By: HM

	CI
LAB NO. SAMPLE ID	(mg/kg)
H18567-1 FLOOR	480
Quality Control	500
True Value QC	500
% Recovery	100
Relative Percent Difference	< 0.1

	T
METHOD: Standard Methods	4500-CIB

Note: Analysis performed on a 1:4 w:v aqueous extract.

Not accredited for chloride.

Chemi:

Date

10/29/09

Turn Around Time ~ 24 Hours COUEST SPLP Chloride Additional Fax Number: gil@trident-environmental.com Chlorides (325.3 / SM4500 B) Total Dissolved Solids (SM2540C) cdoranhaynes@jhhc.org Circle or Specify Method No.) CHAIN-OF-CUSTODY AND ANALYSIS Anions (CI, SO4, CO3, HCO3) Cations (Ca, Mg, Na, K) Moisture Content 3C/MS Semi, Vol. 8270C/625 BCWS API 8560B/624 ŝ TCLP Pesticides ANALYSIS REQUEST TCLP Semi Volatiles LAB Order ID # Yes Yes TCLP Volatiles Email Results to: TOLP RORA Metals; Ag As Ba Cd Cr Pb Se Hg Loral RCRA Metals: Ag As Ba Cd Cr Pb Se Hg Phone Results PAH 8270C Fax Results REMARKS M8108 H9T BIEX 8021B MTBE 80218/602 움 8 **HIME** SAMPLING Cardinal Laboratories, Inc. 10-23-09 10-23-09 cdoranhaynes@jhhc.org **BTAQ** PO Box 3040, Midland TX 79702-3040 Gil Van Deventer None (lons/TDS) PRESERVATIVE METHOD ICE Sampler Name Date: ⁷OS²H CHECKED BY: John H. Hendrix Corporation OSHEN HNO² (*Netals*) Carolyn Haynes Received By (Laboratory Staff) HCF (BLEX) Address: (Street, City, Zip) Sample Condition (of #26 Brunson C Battery SCUDGE BILL TO Company: (432) 684-6631 MATRIX ЯΙΑ roject Manager: TIOS roject Name: **MATER** Received by: # CONTAINERS ل| qmo(Q) to det(Q) Ü T22S, R37E, Sec 3, Lea County NM (575) 394-2653 500 PO Box 910, Eunice NM 88231 FIELD CODE John H. Hendrix Corporation John H. Hendrix Corporation Hat. Floor (Circle One) (Street, City, Zip) = × × × arland - Hobbs, New Tel (575) 393-2326. Fax (575) 393-2476 Carolyn Haynes (575) 394-2649 Relinguíshed by: Relinquished by roject Manager. company Name: roject Location Delivered By: LAB USE ONLY LAB# ddress:

(Initials)

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Sampler - UPS - Bus - Other:



Subject: RE: Corrective Action Plan - Brunson C Battery (1RP-2179) **From:** "Leking, Geoffrey R, EMNRD" <GeoffreyR.Leking@state.nm.us>

Date: 06/07/10 1:05 PM

To: "Gil Van Deventer" <gil@trident-environmental.com>

CC: "Carolyn Haynes" <cdoranhaynes@jhhc.org>

Gil

The NMOCD agrees with the statements made below in yoiur email. JHHC should proceed with the path forward as described below.

Geoffrey Leking Environmental Engineer NMOCD-Hobbs 1625 N. French Drive Hobbs, NM 88240

Office: (575) 393-6161 Ext. 113

Cell: (575) 399-2990

email: geoffreyr.leking@state.nm.us

From: Gil Van Deventer [mailto:gil@trident-environmental.com]

Sent: Monday, June 07, 2010 11:51 AM

To: Leking, Geoffrey R, EMNRD

Cc: Gil Van Deventer; Carolyn Haynes

Subject: Re: Corrective Action Plan - Brunson C Battery (1RP-2179)

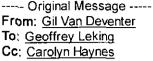
Geoff

Per our conversation at your office the morning of June 3rd, it is my understanding that you have approved the *Corrective Action Plan* for the Brunson C Battery (NMOCD Case # 1RP-2179) under the condition that JHHC installs a downgradient monitoring well, and that JHHC collects groundwater samples for four quarters to determine groundwater quality conditions. A site map is attached to depict the approximate location of the monitoring well outside the southeast corner of the excavation subject to existing flow lines, drilling rig accessibility, safety concerns, such that it will characterize downgradient conditions. Groundwater samples will be analyzed for BTEX, chloride, and TDS. Based on information at the OCD office in Hobbs, groundwater is expected to occur at approximately 35 ft below ground surface; therefore it is expected that the 2-inch diameter monitoring well will have a total depth of approx 50 ft with 20 ft of well screen. If it is determined that groundwater conditions meet WQCC standards or they are at or below background levels after four quarters of sampling the monitoring well may be plugged in accordance with NMOSE requirements.

Please confirm your agreement with the above so that we may initiate backfilling the excavation with the compacted clay layer and clean soils purchased from the landowner, and install the monitoring well.

Thank you, Gil

Gilbert J. Van Deventer, PG, REM Trident Environmental
PO Box 12177
Odessa TX 79768-2177
432-638-8740 (Office/Mobile)
413-403-9968 (Fax)



Sent: Thursday, February 18, 2010 11:22 AM

Subject: Corrective Action Plan - Brunson C Battery (1RP-2179)

Good Morning Geoff:

As agent for John H. Hendrix Corporation, Trident Environmental submits the attached *Corrective Action Plan* for the Brunson C Battery (NMOCD Case # 1RP-2179) located in T22S-R37E-Sec 3, Lea County, NM. One complete hard copy will be sent to you via USPS Certified Mail (# 7099 3400 0017 1737 1827) today.

We look forward to your reply to the proposed corrective actions. Please feel free to contact me at 432-638-8740, or Carolyn Haynes with JHHC at 575-390-9689.

Thank you, Gil

Gilbert J. Van Deventer, PG, REM

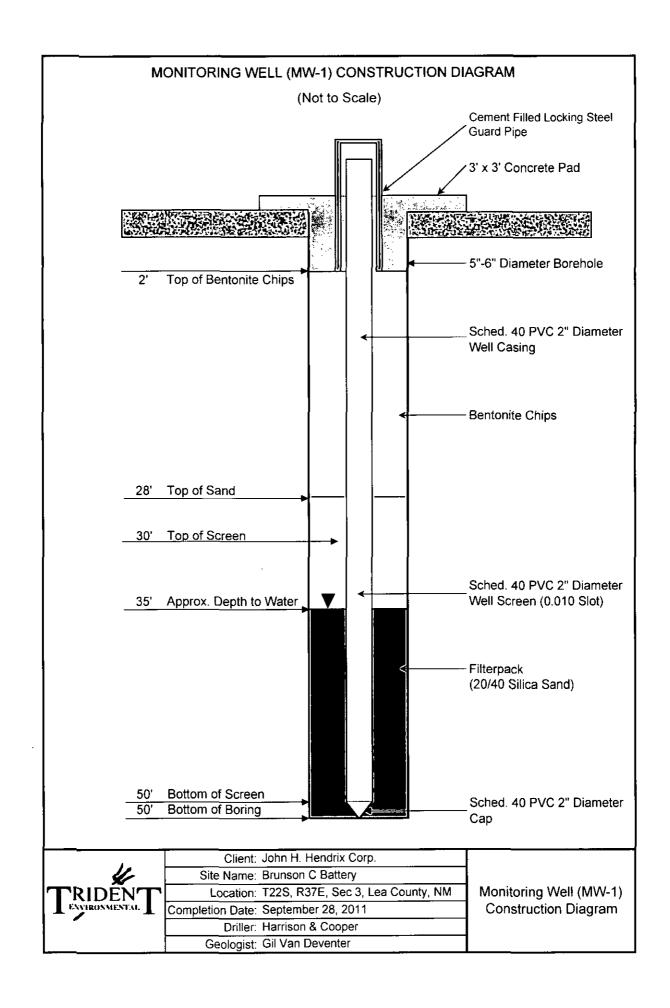
Trídent Environmental P. O. Box 7624, Midland TX 79708 Work/Mobile: 432-638-8740 Fax: 413-403-9968

Home: 432-682-0727

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LITHOLOGIC LOG AND MONITORING WELL CONSTRUCTION DIAGRAM ONITOR WELL NO.: MW - 1 TOTAL DEPTH: 50 feet below ground surface CLIENT: John H. Hendrix Corp. SITE ID: Brunson C Battery COUNTY: Lea CONTRACTOR: Harrison & Cooper, Inc. RILLING METHOD: Air Rotary STATE: New Mexico LOCATION: T22S-R37E-Sec 3-Unit P ENVIRONMENTAL START DATE: 09/28/11 OMPLETION DATE: 09/28/11 FIELD REP.: Gil Van Deventer COMMENTS: Montoring well located adjacent to southeast side of excavation. Latitude: N 32°25' 2.3", Longitude: W 103° 8' 46.5" Sample LITHOLOGIC DESCRIPTION: USCS Туре LITHOLOGY, COLOR, GRAIN SIZE, SORTING, ROUNDING, CONSOLIDATION, DISTINGUISHING FEATURES Sand, fine-medium grained, light brown (5 YR 5/6), subrounded, moderately sorted, dry OHE COL SW 1040 Cuttings Sand, fine-medium grained, light brown (5 YR 5/6), subrounded, moderately sorted, dry Caliche, pinkish-gray (5 YR 8/1), indurated and fractured, dry 10 1042 Cuttings CAL Bentonite Hole Plug Bentonite Hole Plug Caliche, pinkish-gray (5 YR 8/1), indurated and fractured, dry 15 1044 Cultings 8 8 Sand, fine grained, light brown (5YR 6/4), subrounded, moderately well sorted with calcium carbonate and caliche, grayish-crange (10 YR 7/4), dry 1045 Cuttings 20 Sched 40 PVC Blank Casing SM/CAL Sand, fine grained, light brown (5YR 6/4), subrounded, moderately well sorted with calcium carbonate and caliche, grayish-orange (10 YR 7/4), dry 25 1047 Cuttings 'n Sand, fine grained, light brown (5YR 6/4), subrounded, moderately well sorted with calcium carbonate and caliche, grayish-orange (10 YR 7/4), dry 30 1048 Cuttings Sand, medium grained, light brown (5 YR 5/5), subrounded, moderately well sorted, dry Slots Screen with 0.010 Machined Sand, fine-medium grained, light brown (5 YR 6/4), subrounded, moderately sorted (bimodal), dry 35 1049 Cuttings ... Groundwater encountered at ~38 ft bgs Sand, fine-medium grained, light brown (5 YR 5/6), subrounded, moderately sorted (bimodal), damp 1050 Cuttings 40 SW Dameter Sand, fine-medium grained, light brown (5 YR 5/6), subrounded, moderately sorted (bimodal), wet 1052 Cuttings 45 N

Sand, medium grained, light brown (5 YR 5/6), subrounded, moderately well sorted, wet

1054 Cuttings

51/2



January 30, 2012

CAROLYN DORAN HAYNES

JOHN H. HENDRIX CORPORATION

P. O. BOX 3040

MIDLAND, TX 79702

RE: BRUNSON C BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 01/24/12 12:27.

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/qa/lab 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.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

JOHN H. HENDRIX CORPORATION CAROLYN DORAN HAYNES P. O. BOX 3040 MIDLAND TX, 79702

Fax To:

(575) 394-2653

Received:

01/24/2012

Sampling Date:

01/24/2012

Reported:

01/30/2012

Sampling Type:

Water

Project Name:

BRUNSON C BATTERY

Sampling Condition:

Cool & Intact

Project Number:

JHHC

Sample Received By:

Jodi Henson

Project Location:

T22S, R37E, SEC 3, LEA COUNTY, NM

Sample ID: MW-1 (H200171-01)

BTEX 8260B	mg/	L	Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.001	0.001	01/30/2012	ND	0.022	110	0.0200	10.1	
Toluene*	< 0.001	0.001	01/30/2012	ND	0.019	97.0	0.0200	10.4	
Ethylbenzene*	< 0.001	0.001	01/30/2012	ND	0.020	100	0.0200	10.1	
Total Xylenes*	<0.003	0.003	01/30/2012	ND	0.060	100	0.0600	10.7	
Surrogate: Dibromofluoromethane	119%	6 59.8-16	7			.			
ogate: Toluene-d8	88.2 9	6 75.2-11	5						
Surrogate: 4-Bromofluorobenzene	93.0 %	6 53.7-12	0						
Chloride, SM4500CI-B	mg/	L	Analyze	d By: AP	_				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	7200	4.00	01/25/2012	ND	104	104	100	7.41	
TDS 160.1	mg/	L	Analyze	d By: HM		·			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	11800	5.00	01/25/2012	ND	238	99.2	240	1.50	

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*=Accredited Analyte

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Celeg D. Kune

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

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.

ND

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

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Celeg D. Kune

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Analytical Report 429107

for John H. Hendrix Corp.

Project Manager: Carolyn Haynes
Brunson C Battery
John H. Hendrix Corporation
14-OCT-11

Collected By: Client



Celebrating 20 Years of commitment to excellence in Environmental Testing Services



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-10-6-TX), Arizona (AZ0765), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002) Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054) New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610) Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AAL11), West Virginia (362), Kentucky (85) Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)
Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)
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Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)
Xenco Tucson (EPA Lab code: AZ000989): Arizona (AZ0758)





14-OCT-11

Project Manager: Carolyn Haynes John H. Hendrix Corp. P.O. Box 910 1310 N. 18th Street Eunice, NM 88231

Reference: XENCO Report No: 429107

Brunson C Battery

Project Address: T22S, R37E, Sec 3, Lea County NM

Carolyn Haynes:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 429107. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 429107 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron II

Odessa Laboratory Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

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Sample Cross Reference 429107



John H. Hendrix Corp., Eunice, NM

Brunson C Battery

Sample Id MW-1 Matrix W **Date Collected** 10-05-11 15:34

Sample Depth

Lab Sample Id

429107-001

CASE NARRATIVE



Client Name: John H. Hendrix Corp. Project Name: Brunson C Battery



Project ID:

John H. Hendrix Corporat

Work Order Number: 429107

Report Date: 14-OCT-11 Date Received: 10/06/2011

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Final 1.000



Project Location: T22S, R37E, Sec 3, Lea County NM

Contact: Carolyn Haynes

Project Id: John H. Hendrix Corporation

Certificate of Analysis ummary 429107

John H. Hendrix Corp., Eunice, NM

Project Name: Brunson C Battery

Date Received in Lab: Thu Oct-06-11 04:45 pm

Project Manager: Brent Barron II Report Date: 14-OCT-11

	Lab Id:	429107-001
Analysis Domostod	Field Id:	MW-1
valentas veduesieu	Depth:	
	Matrix	WATER
	Sampled:	Oct-05-11 15:34
BTEX by EPA 8021B	Extracted:	Oct-12-11 09:00
	Analyzed:	Oct-12-11 20:00
	Units/RL:	mg/L RL
Benzene		001000 CIN
Toluene		ND 0,00200
Ethylbenzene		001000 CIN
m_p-Xylenes		ND 0.00200
o-Xylene		00100 CIN
Total Xylenes		ND 0.00100
Total BTEX		000000 CIN
Chloride by E300	Extracted:	
	Analyzed:	Oct-07-11 16:57
	Units/RL:	mg/L RL
Chloride		6360 125
TDS by SM2540C	Extracted:	
	Analyzed:	Oct-10-11 17:00
	Units/RL:	
Total dissolved solids		11400 5.00

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interperations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Odessa Laboratory Manager

Brent Barron II

Final 1,000

Page 5 of 15



Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantiation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- 11 The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director, Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- **BRL** Below Reporting Limit.
- **RL** Reporting Limit

MDL Method Detection Limit SDL Sample Detection Limit LOD Limit of Detection

PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ Outside XENCO's scope of NELAC Accreditation.

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Page □of 15 Final 1.000



Form 2 - Surrogate Recoveries

Project Name: Brunson C Battery

rk Orders: 429107,

Project ID: John H. Hendrix Corporation

Lab Batch #; 872241

Sample: 429107-001 / SMP

Matrix: Water Batch:

Units: mg/L Date Analyzed: 10/12/11 20:00	SU	RROGATE R	ECOVERY	STUDY	
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]	[
1,4-Difluorobenzene	0.0274	0.0300	91	80-120	
4-Bromofluorobenzene	0.0283	0.0300	94	80-120	

Lab Batch #: 872241

Sample: 612636-1-BLK / BLK

Batch:

Matrix: Water

Units: mg/L Date Analyzed: 10/12/11 11:37	SU	RROGATE R	RECOVERY	STUDY	
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1,4-Difluorobenzene	0.0270	0.0300	90	80-120	
4-Bromofluorobenzene	0.0281	0.0300	94	80-120	

Lab Batch #: 872241

Sample: 612636-1-BKS / BKS

Batch:

Matrix: Water

Units: mg/L	Date Analyzed: 10/12/11 10:06	SU	RROGATE R	ECOVERY S	STUDY	
ВТЕ	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
•	Analytes			[D]		
,4-Difluorobenzene		0.0273	0.0300	91	80-120	
4-Bromofluorobenzene		0.0273	0.0300	91	80-120	

Lab Batch #; 872241

Sample: 612636-1-BSD / BSD

Batch: 1

Matrix: Water

Units: mg/L	Date Analyzed: 10/12/11 10:28	SU	RROGATE R	ECOVERY	STUDY	-
BTE	X by EPA 8021B Analytes	Amount Found A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	1111aly (CS	0.0266	0.0300	89	80-120	
4-Bromofluorobenzene		0.0280	0.0300	93	80-120	

Lab Batch #: 872241

Sample: 429163-003 S / MS

Batch: 1

Matrix: Water

Units: mg/L	Date Analyzed: 10/12/11 20:23	SU	RROGATE R	ECOVERY:	STUDY	
ВТЕ	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	Analytes	0.0286	0.0300	95	80-120	
4-Bromofluorobenzene		0.0286	0.0300	88	80-120	

^{*} Surrogate outside of Laboratory QC limits

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: Brunson C Battery

rk Orders: 429107,

Project ID: John H. Hendrix Corporation

Lab Batch #: 872241

Sample: 429163-003 SD / MSD

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 10/12/11 20:45	SU	RROGATE R	ECOVERY	STUDY	
BTEX by EPA 8021B	Amount Found [A]	True Amount B	Recovery %R	Control Limits %R	Flags
Analytes			D		
1,4-Difluorobenzene	0.0283	0.0300	94	80-120	
4-Bromofluorobenzene	0.0291	0.0300	97	80-120	

^{*} Surrogate outside of Laboratory QC limits

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

results are based on MDL and validated for QC purposes.



BS / BSD-Kecoveries



Project Name: Brunson C Battery

Work Order #: 429107

Analyst: ASA

Lab Batch ID: 872241

Date Prepared: 10/12/2011

Batch #: 1

Sample: 612636-1-BKS

Project ID: John H. Hendrix Corporation Date Analyzed: 10/12/2011

Matrix: Water

Units: mg/L		BLAN	BLANK/BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY	PIKE/B	LANKS	PIKE DUPL	ICATE F	RECOVE	RY STUD	Y	
BTEX by EPA 8021B	Blank Sample Result	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	BIK. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes		<u> </u>	c	<u>=</u>	至	Result [F]	[6]				
Benzene	<0.00100	0.100	0.100	001	001.0	0.0968	16	3	70-125	25	
Toluene	<0 00200	0.100	0.102	102	001.0	0.0992	66	3	70-125	25	
Ethylbenzene	<0.00100	0.100	0.107	107	00100	0.104	104	3	71-129	25	
m_p-Xylenes	<0.00200	0.200	0.215	108	0.200	0.210	105	2	70-131	25	
o-Xylene	<0.00100	0.100	0.109	109	001.00	0.106	901	3	71-133	25	

: BRB
Analyst

Lab Batch ID: 872003

Batch #: 1 Sample: 872003-1-BKS

Date Prepared: 10/07/2011

Matrix: Water

Date Analyzed: 10/07/2011

Units: mg/L		BLAN	BLANK/BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY	PIKE / B	LANKS	PIKE DUPL	ICATE I	RECOVE	RY STUD	γ	
Chloride by E300	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Bik. Spk Dup. %R	RPD	Control Limits %R	Control Limits %RPD	Flag
Analytes		l _B l	C	īai	[E]	Result [F]	<u>5</u>				
Chloride	<0.500	0.01	9.01	106	10.0	10.6	901	0	80-120	20	

Relative Percent Difference (RPD = 200*(C-F)/(C+F)| Blank Spike Recovery [D] = 100*(C)/[B] Blank Spike Duplicate Recovery [G] = 100*(F)/[F] All results are based on MDL and Validated for QC Purposes



BS / BSD Kecoveries



Project Name: Brunson C Battery

Work Order #: 429107 Analyst: WRU

Sample: 872135-1-BKS

Lab Batch 1D: 872135

Date Prepared: 10/10/2011

Batch #:

Project ID: John H. Hendrix Corporation Date Analyzed: 10/10/2011

Matrix: Water

2

80-120

93

878

0001 Ξ

92

816

1000

<5.00

Total dissolved solids

Analytes

Flag Control Limits %RPD BLANK/BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY Control Limits %R RPD % Blk. Spk Dup. %R IGI Blank Spike Duplicate Result [F] Spike Added Blank Spike %R [D] Blank Spike Result ICI Spike Added <u>~</u> Blank Sample Result TDS by SM2540C Units: mg/L

Relative Percent Difference RPD = 200*[(C-F)/(C+F)] Blank Spike Recovery [D] = 100*(C)/[B] Blank Spike Duplicate Recovery [G] = 100*(F)/[E] All results are based on MDL and Validated for QC Purposes



Form 3 - MS Recoveries

Project Name: Brunson C Battery



Work Order #: 429107

ab Batch #: 872003 Date Analyzed: 10/07/2011

QC- Sample ID: 429107-001 S

Date Prepared: 10/07/2011

Project 1D: John H. Hendrix Corporation Analyst: BRB

Batch #:

Matrix: Water

Reporting Units: mg/L	MATI	RIX / MA	TRIX SPIKE	RECO	VERY STU	DY
Inorganic Anions by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result C	%R [D]	Control Limits %R	Flag
Chloride	6360	2500	8440	83	80-120	

Matrix Spike Percent Recovery [D] = 100*(C-A)/BRelative Percent Difference {E} = 200*(C-A)/(C+B)All Results are based on MDL and Validated for QC Purposes





MSD Recoveries Form 3 - MS



Project Name: Brunson C Battery

Work Order #: 429107

Lab Batch ID: 872241

Date Analyzed: 10/12/2011

QC-Sample ID: 429163-003 S Date Prepared: 10/12/2011

Batch #:

VSV Analyst:

Matrix: Water

Project ID: John H. Hendrix Corporation

Reporting Units: mg/L		Σ	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY	/MAT	RIX SPIF	KE DUPLICA'	re rec	VERY S	STUDY		
BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added	Spiked Sample Spiked Result Sample C %R	Spiked Sample %R	Spike Added (E)	Duplicate Spiked Sample Result [F]	Spiked Dup. %R	RPD	Control Limits %R	Control Limits %RPD	Flag
Benfene	CD.00100		0.0949	56	0	901.0	901	11	70-125	25	
Coluene	C0.00200	0.100	0.0956	%	001.0	0.107	101	111	70-125	25	
Ethylbenfene	00100:00	0.100	0660:0	66	0.100	0.112	112	12	71-129	25	
mEp-Eylenes	E0.00200	0.200	061.0	95	0.200	0.213	107	11	70-131	25	
o-Dylene	C0.00100	0.100	0.0963	%	0.100	0.109	601	12	71-133	25	

Matrix Spike Percent Recovery [D] = 100*(C-A)BRelative Percent Difference RPD = 200*(C-L)(C+L)B

 $\Box D = \Box ot \ Detected D = Present \ Below \ Reporting \ Limit(B = Present in \ Blank(I)R = \Box ot \ Refinested II = filter ference \Box A = \Box ot \ Applicable D = See \ \Box arrative \ LEQL = Estimated \ Quantitation \ Limit$

Page 12 of 15

Matrix Spike Duplicate Percent Recovery [II] = 100*(EA)/E

Final 1.000



Chloride

Sample Duplicate Recovery



Project Name: Brunson C Battery

Work Order #: 429107

Lab Batch #: 872003

Project 1D: John H. Hendrix Corporation

Date Analyzed: 10/07/2011 16557

Date Prepared: 10/07/2011

Analyst: BRB

20

QC- Sample ID: 429107-001 D

Batch #:

Matrix: Water

SAMPLE/SAMPLE DUPLICATE RECOVERY Reporting Units: mg/L Sample Control Chloride by E300 Parent Sample RPD Result Duplicate Limits Flag Result %RPD [A][B] Analyte

Lab Batch #: 872135

Date Analyzed: 10/10/2011 17(00

Date Prepared: 10/10/2011

6360

Analyst: WR□

6350

QC- Sample ID: 429105-001 D

Batch #:

Matrix: Water

Reporting Units: mg/L	SAMPLE /	SAMPLE	DUPLIC	ATE REC	OVERY
TDS by SM2540C	Parent Sample Result [A]	Sample Duplicate Result	RPD	Control Limits %RPD	Flag
Analyte		B		l	
Cotal dissolved solids	5670	5940	5	30	

Spike Relative Difference RPD 200 * [(B-A)/(B+A) □ All Results are based on MDL and validated for QC purposes. BRL - Below Reporting Limit

Final 1.000

12600 West I-20 East - Odessa TX				۱ [']		,	ł	'	İ	•				ပ	¥	Q	ñ	SO	5	CHAIN-OF-CUSTODY AND ANALYSIS	₹Q.	Ą	ĭ		Æ	REQUEST	ST	
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(LAB USE)		(G)rab or (C	# CONTA	MATER SOIL	ЯІА	SLUDGE	HCL (BTE HNO ₃ (Me	² OSH _B N	ICE H ⁵ 201	None (Ior		∃TAQ	TIME 803	MTBE 802 8TEX 802	12108 H9T	07 <u>S8</u> HA9	Total RCR	TCLP Vola	TCLP Sem	RCI	ecwa vo	GC/MS Se	O enutatioM Solione (€	3) aneite∂ (3) enein∧	Total Disso	Chlorides (SPLP Chic	Turn Arour
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Delivered By:	(Circle One)	Sample Condition	Conditio				снескер ву	ED B)	ن	~	7								obig gil@	cdoranhaynes@jhhc.org gil@trident-environmental.com	ayne int-e	es@ invir	ino.	c.or nen	g tal.c	Εο		
Sampler -	UPS - Bus - Other:	Se ≻ Z	* o	Xes No	<u> </u>		(Initials)			≃کنو	THE SAME OF THE SA										i						ļ	



XENCO Laboratories

Atlanta, Boca Raton, Corpus Christi, Dallas Houston, Miami, Odessa, Philadelphia

Phoenix, San Antonio, Tampa

Document Title: Sample Receipt Checklist

Document No.: SYS-SRC

Revision/Date: No. 01, 5/27/2010

Effective Date: 6/1/2010 Page 1 of 1

Prelogin / Nonconformance Report - Sample Log-In

Client Tredent				
Date/Time: 10/6(1)				
Lab ID#: 479107				•
Initials: 1/2				
Sample Receipt Che	cklist			
1. Samples on ice?	Blue	Water	No	
2. Shipping container in good condition?	(% 5)	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?) XES	No	N/A	
4. Chain of Custody present?	(es)	No		_
5. Sample instructions complete on chain of custody?	(Yes	No		
6. Any missing / extra samples?	Yes	/No		
7. Chain of custody signed when relinquished / received?	Ses (Ses	No.		
8. Chain of custody agrees with sample label(s)?	Xes	No		
9. Container labels legible and intact?	6	No		
10. Sample matrix / properties agree with chain of custody?	(Fee	No -		
11. Samples in proper container / bottle?	Yes	No		
12. Samples properly preserved?	(es)	No	N/A	
13. Sample container intact?	Yes	No		
14. Sufficient sample amount for indicated test(s)?	Yes	No		
15. All samples received within sufficient hold time?	Yes	No		
16. Subcontract of sample(s)?	(Fes	No	N/A	
17. VOC sample have zero head space?	Yes	No	N/A	
18. Cooler 1 No. Cooler 2 No. Cooler 3 No.	Cooler 4 No).	Cooler 5 No.	
bs /S °C ibs °C ibs	°C lbs	°c	lbs	°c
Nonconformance Docur	nentation			
Contact: Contacted by:		Date/Time:_		
Regarding:	·			<u></u>
Corrective Action Taken:		<u> </u>		
				*. "3
Check all that apply: ☐ Cooling process has begun shortly after sample condition acceptable by NELAC 5.5.8.3.1. ☐ Initial and Backup Temperature confirm out of	a.1.	•	rature	

□ Client understands and would like to proceed with analysis



August 31, 2012

CAROLYN DORAN HAYNES

JOHN H. HENDRIX CORPORATION
P. O. BOX 3040

MIDLAND, TX 79702

RE: BRUNSON C BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 08/29/12 12:40.

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/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.

Celeg D. Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

JOHN H. HENDRIX CORPORATION CAROLYN DORAN HAYNES P. O. BOX 3040 MIDLAND TX, 79702

Fax To:

(575) 394-2653

Received:

08/29/2012

Sampling Date:

08/29/2012

Reported:

Water

08/31/2012

Sampling Type:

Project Name:

BRUNSON C BATTERY

Sampling Condition:

** (See Notes)

Project Number:

JHHC

Sample Received By:

Jodi Henson

Project Location:

T22S, R37E, SEC 3, LEA COUNTY, NM

Sample ID: MW-1 (H202081-01)

BTEX 8260B	mg/	L	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.001	0.001	08/30/2012	ND	0.020	99.3	0.0200	0.505	
Toluene*	< 0.001	0.001	08/30/2012	ND	0.020	102	0.0200	0.927	
Ethylbenzene*	< 0.001	0.001	08/30/2012	ND	0.022	109	0.0200	1.32	
Total Xylenes*	<0.003	0.003	08/30/2012	ND	0.060	100	0.0600	1.06	
Surrogate: Dibromofluoromethane	116%	6 59.8-16	7				-		
ogate: Toluene-d8	101 %	6 75.2-11	5						
Surrogate: 4-Bromofluorobenzene	84.2 %	6 53.7-12	0						
Chloride, SM4500CI-B	mg/l		Analyze	d By: AP		1 10			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	5150	4.00	08/30/2012	ND	100	100	100	3.92	
TDS 160.1	mg/l	L	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	10200	5.00	08/30/2012	ND	219	91.2	240	1.93	

*=Accredited Analyte Cardinal Laboratories

PLEASE NOTE: Liability and Darnages 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 analysis. All claims, including those for negligence and any other cause whatspewer shall be deemed waved unless made in writing and eceived 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 use, or loss of great incidences of whether such am 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



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: Usability and parrages. Cardinal's habity and client's eviduality
Celeg D. Keene

Page 1 of



May 02, 2012

CAROLYN DORAN HAYNES

JOHN H. HENDRIX CORPORATION

P. O. BOX 3040

MIDLAND, TX 79702

RE: BRUNSON C BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 04/25/12 13:00.

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/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.

Celey D. Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

JOHN H. HENDRIX CORPORATION CAROLYN DORAN HAYNES P. O. BOX 3040 MIDLAND TX, 79702

Fax To:

(575) 394-2653

Received:

04/25/2012

Sampling Date:

04/25/2012

Reported:

Sampling Type:

Project Name:

05/02/2012

Water

BRUNSON C BATTERY

Sampling Condition:

Cool & Intact

Project Number:

JHHC

Sample Received By:

Jodi Henson

Project Location:

T22S, R37E, SEC 3, LEA COUNTY, NM

Sample ID: MW-1 (H200949-01)

BTEX 8260B	mg/L		Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.001	0.001	05/01/2012	ND	0.022	112	0.0200	7.82	
Toluene*	< 0.001	0.001	05/01/2012	ND	0.020	102	0.0200	3.78	
Ethylbenzene*	<0.001	0.001	05/01/2012	ND	0.020	102	0.0200	4.80	
Total Xylenes*	<0.003	0.003	05/01/2012	ND	0.062	103	0.0600	4.40	
Surrogate: Dibromofluoromethane	105 %	59.8-16	1						
ogate: Toluene-d8	99.8 %	5 75.2-11.	5						
Surrogate: 4-Bromofluorobenzene	89.1 %	53.7-12	0						
Chloride, SM4500CI-B	mg/L		Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	5550	4.00	04/27/2012	ND	100	100	100	3.92	
TDS 160.1	mg/L		Analyze	d By: HM			-		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	11100	5.00	04/26/2012	ND	220	91.7	240	0.428	

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Upublity and Damages. Cardinal's liability and identis exclusive remedy for any daim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All daims, including those for negligence and any other cause whatsoever shall be deemed waved unless made in writing and received by Cordinal 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 incurried by dient, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such darm 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 & Kune

Celey D. Keene, Lab Director/Quality Manager

Page □ of 4



Notes and Definitions

ND Ahalyte 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 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 damages, including, without limitation, business interruptions, loss of profits incidently by client, it is subclaimed, affiliated 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 approved of Cardinal Laboratomes.

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

SIS REQUEST								-	(0	8) S2400	3, HC 1s (SM M4500	94, CC	ons (Ca, 1 liona (Cl, Sc tal Dissolve alorides (32 PLP Chlorid	Α Χ Τα (S)	+								Additional Fax Number:		Ç	out a magnes @m.c.org gil@trident-environmental.com
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+	וו	Bilt. 10 Company: John H. Hendrix Corporation	l			PO Box 3040, Midland				Sampler Name: Gil Van De	ES A		OSHE									╛	_)		SACESCE]]
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	ק ק	BILL TO John F	Project Manager	•	Address:		rnone #: (432) 684-6	Project Name:	O HOSDING			יבעס	ИІАТИОЭ	1			\dagger	\top	十		\dashv	٦ <u>ä</u>	پچ	 	ing	بلــا،
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	Caruma	·				1523	(575) 394-2653			ounty NM		į.	<u>r</u>									Time:	12:55	Time:		; ;
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- Hobbs, Ner 3240	13-2326 13-2476	endrix C		aynes	(Street, City, Zip)	O. EUD	2649) del	YIBUS	E, Sec			والمالا المنطق والمساود والمساود	MW-1								م د کیا گھوا		ا خ	(Circle One)	og .
101 East Marland - Hobbs, New Mexico 88240	Tel (575) 393-2328 Fax (575) 393-2476	Company Name: John H. Hendrix Corporation	kt Manager:	Carolyn Haynes	Address: (S	PO Box 910, Eunice NM 88231	(575) 394-2649	Project #:	John II. Heriank Colporation	Project Location: T22S, R37E, Sec 3, Lea County NM		# 8 ¥7	LAB USE VONLY	5,								Relinquished by:		Relinquished by:	Delivered Bv	. Came o

WELL SAMPLING DATA FORM (MW-1)

CLIENT: John H. Hendrix Corporation	orpora	ation				R
SITE NAME: Brunson C Battery					L	TACTACT
SITE LOCATION: 122S, R37E, Sec 3, Lea County NM	3, Lea	County NM				
SAMPLER: Gil Van Deventer					` 	L ENVIRONMENT
						•
PURGING METHOD:		Hand Bailed	☑ Pump, Type:	✓ Pump, Type: 3-stage Submersible Pump	dwn	
SAMPLING METHOD:	5	Disposable Bailer	☐ Direct fro	Disposable Bailer	Other:	
DISPOSAL METHOD OF PURGE WATER:		On-site Drum] Drums	SWD Disposal Facility	ility	

PHYSICAL APPEARANCE AND REMARKS	21.1 18.89 6.95 Pinkish/tan; cleared during purging
五	6.95
Temp. Cond.	18.89
Temp. Cond.	21.1
o. of Vell umes irged	20.7
r Well Calc. Volume V nn Factor Well Purged Vol 1 2"=.16 Vol. (gal) Pu	0.16 1.9 40
Calc. Well Vol. (gal)	1.9
Well Factor 2"=.16 4"=.65	0.16
(f) [E] at [a]	12.08
Total Depth (ft)	52.18
Depth to Total Co Water (ft Depth Hebtoc)	40.10 52.18 12.08
Time	15:34
Date	First 10/05/11
Sampling Event	First

18.8 17.84 6.88 Pinkish/tan; cleared during purging	22.6 17.05 7.28 Pinkish/tan; cleared during purging	
6.88	7.28	
17.84	17.05	
18.8	22.6	
12.5	16.7	
24	32	
1.9	1.9	
0.16 1.9	0.16 1.9	
12.01	11.99	
52.18	52.18	
40.17 52.18 12.01	40.19 52.18 11.99	
12:00	12:00	
Second 01/24/12 12:00	Third 04/25/12	
Second	Third	

Fourth	08/29/12	Fourth 08/29/12 12:00 40.27 52:18 1	40.27	52.18	$\overline{}$.91 0.16 1.9 35	1.9	35	18.4	22.0	15.71	7.03	18.4 22.0 15.71 7.03 Pinkish/tan; cleared during purging
COMMENTS:	7S:	Equipment decontamination consists of gloves, Alconox, and Distilled Water Rinse.	decontami	ination co	insists of	gloves, A	\lconox,	, and Disti	illed Water	Rinse.			
Hanna Mo	del 98130 i	Hanna Model 98130 instrument used to obtain pH, condu	sed to obt	ain pH, α	onductivit	y, and te	mperati	uctivity, and temperature measurements.	rements.				

Delivered samples to Cardinal Laboratories in Hobbs NM for chloride and TDS analysis.