## **3R-1011**

## **Release Report/ General Correspondence**

## **Enterprise SJ**

# Date: Jul-Sept 2014

District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87509

#### State of New Mexico Energy Minerals and Natural Resources

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

| District IV   | os Road, Azi   | ec, NIVI 07410   | 505  | Oil C  | onser   | vation Di  | vision  |   | in acc   |   |
|---|--|--|--|--|---|--|---|---|--|---|
| 1220 9. 51. 1 1   |  |  | 505  | 1220<br>Sa   | South<br>anta Fe  | e. NM 87   | cis dr.<br>505  |   |  |   |
|   |  | F  | Releas   | e Notific  | atior   | n and C  | orrective   | e Acti  | on   |   |
|   |  |  |  |  | OP  | ERATO  | R   | $\triangleright$  | Initial  | Report 🗌 Final Re   |
| Name of C   | ompany:  | Enterprise I   | Field Ser  | vices LLC  |   | Contact: 7   | homas Long  |   |  | ······································  |
| Address: 6  | 14 Reilly  | Ave, Farmin  | gton, NN   | 187401   |   | Telephone  | No. 505-59  | 9-2286  |  |   |
| Facility Na   | me: Kathe  | erine Pierce   | #1/Katy  | / #1   | <u>.</u>  | Facility 1y  | be: Natural C   | bas Gat   | nering L   |   |
| Surface O   | wner: Priv   | /ate   |  | Mineral  | Owner:  | BLM  |   |   | API N  | 0.  |
|   |  |  |  | LOC  | ATION   | OF REI   | EASE  | -   |  |   |
| Unit Letter   | Section  | Township   | Range  | Feet from  | North   | South  | Feet from   | East  | West   | County  |
| в   | 20   | 3011   | 1200   | the <b>799</b>   | Line  |  | the 1499  | Line  |  | San Juan  |
|   |  | Latitude   | 36.78  | 8510   |   | Longitu  | de -108.00  | 54109   |  |   |
|   |  |  |  | <u>NIA</u>   |   |  |   | 24100   |  |   |
| Type of Rel   | ease: Natu   | ral Gas  |  | NA   | IUKE  |  | EASE  | 785   | Volume   | Recovered: Unknown  |
|   |  |  |  |  |   | MCF  | 1 1 (Clease. 30.  | /05   | volume   | Recovered. Onknown  |
| Source of R   | elease: Su   | spected inter  | nal corros   | ion  |   | Date and   | Hour of Occur   | rence:  | Date an  | d Hour of Discovery:  |
| Was Immed   | liate Notice   | Given?   |  |  |   | If YES, To   | Whom? Cou   | rtesy No  | tification   | - Cory Smith - NMOCD  |
| Denvired  |  |  | 🗌 Yes  | 🗌 No 🖾   | Not   |  |   |   |  | OIL CONS. DIV DIS   |
| Required  | Thomasla   |  |  |  |   | Data and   | 11  | 100.00  |  |   |
| Was a Wate  | ercourse Re  | eached?  |  |  |   | If YES, V  | Hour 6/25/201   | 4 @ 8:20  | atercours  | JUL 1 0 2014  |
|   |  |  | 🗌 Yes  | 🛛 No   |   |  |   |   |  | -   |
| If a Waterco  | ourse was li   | mpacted Des  | scribe Full  | v *  |   | 1  |   |   |  |   |
| Describe Ca<br># 1 well tie,<br>was applied<br>June 30, 20  | ause of Pro<br>a Class 1 N<br>. Internal co<br>14.   | blem and Rei<br>Ion-jurisdictic<br>prrosion is the   | medial Ac<br>onal pipeli<br>e suspecte   | tion Taken: E<br>ne. Enterprise<br>ed cause of th  | nterprise<br>e person<br>ne releas  | e personnel<br>nel verified<br>se. Repairs   | responded to<br>the leak, the p<br>and remediation  | a line lea<br>ipeline w<br>on of the  | k on the l<br>as blown<br>release a  | Katherine Pierce # 1 and Ka<br>down and lock out tag out<br>re scheduled for the week c   |
| Describe Ar<br>well tie, a C<br>applied. Inte<br>30, 2014. A<br>I hereby cer<br>rules and re<br>which may of<br>relieve the c<br>ground wate<br>operator of | ea Affected<br>lass 1 Non-<br>ernal corros<br>"final" c-14<br>tify that the<br>gulations a<br>endanger p<br>operator of l<br>er, surface v<br>responsibili | I and Cleanup<br>jurisdictional<br>ion is the sus<br>1 will be subr<br>information of<br>Il operators a<br>ublic health o<br>iability should<br>water, human<br>ty for complia | p Action T<br>pipeline. I<br>pected ca<br>nitted upc<br>given abo<br>re require<br>r the envi<br>d their ope<br>health or<br>ance with | aken.* Enterp<br>Enterprise pe<br>on receipt of the<br>ve is true and<br>d to report and<br>ronment. The<br>erations have<br>the environm<br>any other fed | prise per<br>rsonnel<br>lease. R<br>ne third p<br>comple<br>do/or file<br>e accept<br>failed to<br>nent. In<br>eral, stal | sonnel resp<br>verified the<br>epairs and r<br>party environ<br>te to the best<br>certain rele-<br>ance of a C-<br>adequately<br>addition, NM<br>re, or local la | onded to a line<br>leak, the pipel<br>remediation of<br><u>nmental contra</u><br>st of my knowle<br>ase notification<br>141 report by<br>investigate ar<br>AOCD accepta<br>aws and/or reg | e leak on<br>ne was b<br>the relea<br>actor corr<br>edge and<br>is and pe<br>the NMC<br>ind remed<br>ince of a<br>ulations. | the Kathe<br>blown dow<br>se are sc<br>ective act<br>understa<br>erform cor<br>DCD mark<br>iate conta<br>C-141 rep | erine Pierce # 1 and Katy #<br>/n and lock out tag out was<br>heduled for the week of Jur<br>ion report.<br>Ind that pursuant to NMOCE<br>rective actions for releases<br>ed as "Final Report" does no<br>amination that pose a threat<br>port does not relieve the |
|   |  | / / /  | 1  |  |   |  | <u>OIL COI</u>  | NSER\   | <u>/ATION</u>  | <u>I DIVISION</u>   |
| Signature:  | Jø   | teud   |  |  |   |  | v Environment   | al Snecia   |  | afoil   |
| Printed Nan   | ne: Jon Fiel   | ds   | <u> </u>   |  | ·   |  |   |   | pr   | an D. Kelly   |
| Title: Direct   | or, Environr   | nental   |  |  |   | Approval Da  | ate: 9/5/20   | 14  | <b>U</b><br>Expiration   | Date:   |
| E-mail Addr   | ess:jefields   | @eprod.com   |  |  |   | Conditions of  | of Approval:  |   |  | Attached  |
| Date: 7   | 13/201   | Ý  | Phor   | ie: (713)381-6   | 684   |  |   |   |  |   |
| Attach Add  | tional She   | ets If Neces   | sary   | <u></u>  |   |  |   | Jul   | 1USU   | 17374   |
|   |  |  |  |  |   |  | N7  | KIT   | 8107   |   |

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. -District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr. Santa Fe. NM 8750

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State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

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Oil Conservation Division 1220 South St. Francis Dr.

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

| 1220 S. St. Fran  | cis Dr., Santa               | a Fe, NM 87505                                   | 5                         | Sa   | inta Fe              | , NM 875   | 05  |                                     |  |   |                             |                                       |
|---|------------------------------|--|---------------------------|--|----------------------|--|---|-------------------------------------|--|---|-----------------------------|---------------------------------------|
| Release Notification and Corrective Action  |                              |  |                           |  |                      |  |   |                                     |  |   |                             |                                       |
|   |                              |  |                           |  |                      | <b>OPERA</b>   | <b>FOR</b>                                |                                     | 🖂 Initi                                  | al Report                                   | ΠF                          | Final Report                          |
| Name of Co  | mpany: E                     | Enterprise Fig                                   | eld Servio                | ces LLC  |                      | Contact: The   | omas Long                                 |                                     |  |   |                             | · · · · · · · · · · · · · · · · · · · |
| Address: P.   | O. Box 43                    | 24, Houstor                                      | n, TX 77                  | 210  | •                    | Telephone N  | lo. 505-599-228                           | 36                                  |  |   |                             |                                       |
| Facility Nar  | ne: Latera                   | al 10D-1   |                           |  | <u> </u>             | Facility Typ   | e: Natural Gas                            | Gathe                               | ring Lin                                 | e   |                             |                                       |
| Surface Ow  | ner: NAP                     | l/Navajo Tr                                      | ibal                      | Mineral C  | Owner: I             | NAPI/Nava  | jo Tribal                                 |                                     | API No                                   | ).  |                             |                                       |
|   |                              |  |                           | LOCA   | ATION                | N OF REI   | LEASE                                     |                                     |  |   |                             |                                       |
| Unit Letter   | Section                      | Township   | Range                     | Feet from the  | North                | South Line   | Feet from the                             | East                                | lest Dine                                | County                                      |                             |                                       |
| F   | 12                           | 26N  | 12W                       | 1488   |                      |  | 2518                                      |                                     |  | San Juan                                    | an D                        | ICT 3                                 |
|   |                              | L  | I                         |  |                      |  |   |                                     |  | HL CONS.                                    |                             |                                       |
|   |                              | La   | titude                    | 36.50578   |                      | _ Longitud   | le <u>-108.0636</u>                       | <u>6</u>                            |  |   | 1 4 201                     | A                                     |
| ··· ·   | · .                          |  |                           | NAT  | URE                  | OF RELI  | EASE                                      |                                     |  | JUL   | 1410                        | ГТ<br>                                |
| Type of Release: Natural Gas         Volume of Release: Unknown         Volume Recovered: Unknown |                              |  |                           |  |                      |  |   |                                     |  |   |                             |                                       |
| Source of Re  | lease: Susp                  | ected Internal                                   | Corrosior                 | 1  |                      | Date and H $6/26/2014$   | our of Occurrence                         | e:                                  | Date and                                 | Hour of Dis                                 | covery: 6                   | 5/26/2014                             |
| Was Immedia   | ate Notice (                 | Given?   |                           |  |                      | If YES, To   | Whom? Courtesy                            | v Notific                           | ation to N                               | MOCD – Co                                   | orv Smith                   | : NNEPA-                              |
| a   |                              |  | ]Yes [                    | ] No 🖾 Not R   | equired              | Steve Aust   | in; Mike Freeman                          | /Eric Tr                            | evizo -NA                                | PI  |                             | ,                                     |
| By Whom? 7  | Thomas Lo                    | ng   |                           |  |                      | Date and H   | our 7/7/2014 @1                           | 0:01 a.n                            | n. email a                               | nd phone ca                                 | all                         |                                       |
| Was a Water   | course Read                  | ched?  | 1 v N                     | 1 NT.  |                      | If YES, Vo   | lume Impacting the                        | he Wate                             | rcourse                                  |   |                             |                                       |
| ·   | -                            | L  | i res 🗵                   | INO  |                      |  |   |                                     |  |   |                             |                                       |
| If a Watercou   | irse was Im                  | pacted, Descr                                    | ibe Fully.                | *  |                      | .l   |   |                                     |  |   |                             |                                       |
| technician ve<br>applied. Ther  | rified the le<br>e were no s | em and Reme<br>eak and initiat<br>surface enviro | ed notifica<br>nmental in | n: Enterprise pers<br>tion procedures. '<br>npacts observed. ' | The pipe<br>The repa | sponded to a line was isola irs and remed  | ted, blown down,<br>liation are schedul   | on the L<br>, and dep<br>led for th | Lateral 101<br>pressurized<br>he week of | J-1 pipeline.<br>and lock ou<br>July 7, 201 | An Ente<br>it tag out<br>4. | was                                   |
|   |                              |  |                           |  |                      | _  |   |                                     |  |   |                             |                                       |
| Describe Are  | a Affected                   | and Cleanup                                      | Action Tal                | ken.*: Enterprise  | personne             | l responded to   | o a possible line l                       | eak on t                            | he Lateral                               | 10D-1 pipel                                 | ine. An E                   | Enterprise                            |
| applied. Ther   | e were no s                  | urface enviro                                    | nmental in                | npacts observed.   | The repair           | irs and remed  | iation are schedul                        | and dep<br>led for th               | he week of                               | f July 7, 201                               | 4. A "fina                  | was<br>al" c-141                      |
| L hereby certi  | fv that the i                | nformation g                                     | iven above                | is true and com  | lete to th           | the best of my   | hon report.                               | nderstan                            | d that pur                               | suant to NM                                 | OCD rule                    | es and                                |
| regulations al  | l operators                  | are required t                                   | o report a                | nd/or file certain r   | elease no            | otifications ar  | nd perform correct                        | tive action                         | ons for rel                              | eases which                                 | may end                     | anger                                 |
| public health   | or the envi                  | ronment. The                                     | acceptant                 | ce of a C-141 repo   | ort by the           | NMOCD m  | arked as "Final Re                        | eport" de                           | oes not rel                              | ieve the oper                               | rator of li                 | ability                               |
| should their of   | perations h<br>ment. In a    | ddition NMC                                      | adequately                | investigate and r  | report do            | e contaminations of the contamination of the contam | on that pose a three<br>the operator of r | eat to gro<br>esponsil              | bility for c                             | r, surface wa                               | iter, huma                  | an health                             |
| federal, state,   | or local lav                 | ws and/or regu                                   | ulations.                 |  |                      |  |   | Coponisi                            |  |   |                             |                                       |
|   |                              |  |                           |  |                      |  | OIL CONS                                  | SERV                                | ATION                                    | DIVISIO                                     | <u>N/</u>                   |                                       |
| Signature   | Ţ                            |  |                           |  |                      |  |   |                                     |  | 1   | ///                         | $\leq$                                |
|   |                              |  |                           |  |                      | Approved by  | Environmental Sr                          | hecialist                           | . / 'n                                   | m   | Vi.                         |                                       |
| Printed Name  | : Ivan W.                    | Zirbes   |                           |  |                      |  |   |                                     |  | 5V  |                             |                                       |
| Title: Sr. Dire   | ector, Envir                 | onmental   |                           | · · · · · · · · · · · · · · · · · · ·                          |                      | Approval Dat   | e: 9/5/14                                 | ' E                                 | Expiration                               | Đăte:                                       |                             |                                       |
| E-mail Addre  | ss: snolan@                  | @eprod.com                                       |                           |  |                      | Conditions of  | Approval:                                 |                                     |  |   | _                           |                                       |
|   | (0 1 0 1                     | 1  |                           |  |                      |  |   |                                     |  | Attached                                    | L                           |                                       |
| Date: /-/   | U-LUM                        | 1<br>ato If Nacco                                | Phone                     | : (713)381-6595  |                      | 1  |   |                                     |  |   |                             |                                       |
| Auach Audh  | nonai Sne                    | EIS II INCCESS                                   | sai y                     |  | £                    | FAICS  | 1424                                      | 8 S                                 | 404                                      | 4   |                             |                                       |
| · · ·   | · 2                          |  |                           |  | v                    | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,  |   |                                     | •  |   |                             |                                       |
| ÷. <sup>-</sup> .   |                              |  |                           |  |                      |  |   |                                     | •  |   |                             | A                                     |

| '  |   |  |  |  |   |  |  |  |  |  |
|--|---|--|--|--|---|--|--|--|--|--|
| District I   | State of  | New Mexico   | )  | Form (   |   |  |  |  |  |  |
| District II  | Energy Minerals   | and Natural R  | esources   | Revised August 8, 201  |   |  |  |  |  |  |
| 811 S. First St., Artesia, NM 88210<br>District III  | Oil Conser  | vation Divis   | ion Sub  | mit I Copy   | to appropriate District Office in   |  |  |  |  |  |
| 1000 Rio Brazos Road, Aztec, NM 87410<br>District IV   | 1220 Sout   | 1 St. Francis  | Dr.  | acc  | cordance with 19.15.29 NMAC.  |  |  |  |  |  |
| 1220 S. St. Francis Dr., Santa Fe, NM 87505  | 5 Santa F   | e, NM 87505  |  |  |   |  |  |  |  |  |
|  | Release Notification  | n and Corr   | rective Action   | 1  |   |  |  |  |  |  |
|  | ·   | OPERATO  | DR   | 🛛 Initia   | l Report 🔲 Final Repo   |  |  |  |  |  |
| Name of Company: Enterprise Fie  | eld Services LLC  | Contact: Thom  | as Long  | ······   | ·   |  |  |  |  |  |
| Address: 614 Reilly Ave, Farming<br>Facility Name: Argo #500   | gton, NM 8/401  | Facility Type:   | <u>505-599-2286</u><br>Natural Gas Gathe   | ering Line   |   |  |  |  |  |  |
|  | Minore 10   |  |  |  | ······································  |  |  |  |  |  |
| Surface Owner: BLM   | Mineral Owner:  | BLIVI  |  | API NO.  | · · · · · · · · · · · · · · · · · · ·   |  |  |  |  |  |
| Ilaid Latter Costion Tovinshin   | LOCATIO   | N OF RELE  | ASE .  | Vast   | 1   |  |  |  |  |  |
| N 18 27N   | 10W 669   |  | 1868   | vest line  | San Juan  |  |  |  |  |  |
| Lati   | tude <u>36.569831</u>   | Longitude  | -107.939898  |  | 1   |  |  |  |  |  |
|  | NATURE  | OF RELEA   | SE   |  |   |  |  |  |  |  |
| Type of Release: Natural Gas   | Compaign  | Volume of Re   | lease: Unknown   | Volume R   | ecovered: Unknown   |  |  |  |  |  |
| Source of Release: Suspected Internal  | Corrosion   | 6/25/2014 @  | 12:15 a.m.   | (a) 12:45 p  | Hour of Discovery: 6/25/2014  |  |  |  |  |  |
| Was Immediate Notice Given?  | ] Yes 🔲 No 🖾 Not Required   | If YES, To W<br>Shari Ketchan  | hom? Courtesy Notifi   | cation to NN   | AOCD – Cory Smith; BLM -  |  |  |  |  |  |
| By Whom? Thomas Long   |   | Date and Hour  | r 7/3/2014 @8:47 a.m   | n. OIL C   | ONS. DIV DIST 2   |  |  |  |  |  |
| Was a Watercourse Reached?   |   | If YES, Volun  | ne Impacting the Wat   | ercourse   |   |  |  |  |  |  |
|  | JYes 🖾 No   |  |  | J  | UL 1 4 2014   |  |  |  |  |  |
| Describe Cause of Problem and Kene<br>verified the leak and initiated notificat<br>were surface environmental impacts. T<br>Describe Area Affected and Cleanup A<br>technician verified the leak and initiate<br>applied. There were surface environm<br>submitted upon receipt of the third par<br>I hereby certify that the information gir<br>regulations all operators are required t<br>public health or the environment. The | Action Taken.*: Enterprise personal res<br>The repairs and remediation are sch<br>Action Taken.*: Enterprise persona<br>ed notification procedures. The pipe<br>ental impacts. The repairs and reme<br>rty environmental contractor correct<br>iven above is true and complete to t<br>to report and/or file certain release re<br>acceptance of a C-141 report by th | I responded to a poss<br>olated, blown do<br>eduled for the we<br>line was isolated<br>diation are sched<br>tive action report,<br>he best of my kno<br>otifications and p<br>e NMOCD mark | boossible line leak on the A<br>mossible line leak on the boossible line leak on the boossible line leak on the boossible for the week of J<br>boossible for the week of J<br>boossible for the week of J<br>boossible and understance and some corrective act | the Argo 500 were<br>the Argo 500<br>pressurized<br>uly 7, 2014.<br>and that pursu<br>ions for releat<br>loes not reliat | well tie. An Enterprise technician<br>well tie. An Enterprise<br>and lock out tag out was<br>A "final" c-141 will be<br>uant to NMOCD rules and<br>ases which may endanger<br>eve the operator of liability |  |  |  |  |  |
| should their operations have failed to a<br>or the environment. In addition, NMC<br>federal, state, or local laws and/or regi  | adequately investigate and remediat<br>OCD acceptance of a C-141 report c<br>ulations.  | le contamination<br>locs not relieve th  | that pose a threat to give operator of respons   | ibility for co   | surface water, human health<br>mpliance with any other  |  |  |  |  |  |
| Signature: Jon Fr  | ell   |  | OIL CONSERV  | ATION  |   |  |  |  |  |  |
| Printed Name: Jon Fields   |   | Approved by En   | vironmental Specialis  | t:   | SUL   |  |  |  |  |  |
| Title: Director, Environmental   |   | Approval Date:   | 9/13/14  | Expiration [   | Date:   |  |  |  |  |  |
| E-mail Address:jefields@eprod.com  |   | Conditions of Ap   | oproval:   |  | Attached  |  |  |  |  |  |
| Date: 7-8-2019   | Phone: (713)381-6684  |  |  |  |   |  |  |  |  |  |
| * Attach Additional Sheets If Necess   | sary 7  | ZNCS/  | 1424854  | 5341   | (1)   |  |  |  |  |  |

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State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

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

| Santa  | i Fe, NM 87505   |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|
| Release Notificat  | ion and Corrective Acti  | on   |  |  |  |  |  |  |
|  | OPERATOR   | 🗌 Initial Report 🛛 Final Repo  |  |  |  |  |  |  |
| Name of Company: Enterprise Field Services LLC   | Contact: Thomas Long   | ······································   |  |  |  |  |  |  |
| Address 614 Reilly Ave, Farmington, NM 87401   | Telephone No. 505-599-2286   |  |  |  |  |  |  |  |
| Facility Name: Lateral 3B-33- Irk IIA Dogleg   | Facility Type: Natural gas gat   | athering line  |  |  |  |  |  |  |
| Surface Owner: JFJ Landfarm, LLC Mineral Own   | er .   | API No.  |  |  |  |  |  |  |
| LOCATI   | ON OF RELEASE  | •  |  |  |  |  |  |  |
| Unit Letter Section Township Range Feet from the No  | orth South Line   Feet from the Ea   | ast/Vest Line County   |  |  |  |  |  |  |
| J 2 29N 12W 1760   | . 2137   | San Juan, NM   |  |  |  |  |  |  |
| Latitude <u>36.752484</u>  | Longitude <u>-108.066405</u>   |  |  |  |  |  |  |  |
| NATUF  | RE OF RELEASE  |  |  |  |  |  |  |  |
| Type of Release Natural Gas Release  | Volume of Release: 202.98 MC   | F Volume Recovered: None   |  |  |  |  |  |  |
| Source of Release: Pipeline  | Date and Hour of Occurrence:   | Date and Hour of Discovery   |  |  |  |  |  |  |
| Was Immediate Notice Given?  | If YES, To Whom?   | 10-4-2013 9:30 pm  |  |  |  |  |  |  |
| 🗌 Yes 🔲 No 🖾 Not Requir  | red  |  |  |  |  |  |  |  |
| By Whom?   | Date and Hour  | All CONIC DULDIOT  |  |  |  |  |  |  |
| Was a Watercourse Reached?   | If YES, Volume Impacting the   | Watercourse.   |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| If a Watercourse was Impacted, Describe Fully.*  |  | 002 - 2011   |  |  |  |  |  |  |
| Describe Cause of Problem and Remedial Action Taken.*<br>On 10-4-2013 at 9:30 pm at address #49 Road 3150, San Juan County<br>guard rail striking the dogleg tie of Lateral 3B-33 into Trunk 11A caus<br>on the dogleg supplying pressure to actuator was cracked at the thread<br>pipeline. No injuries or fire were sustained a result of incident. No liq<br>cotion is required   | and employee of IEI Landfarm backer<br>sing damage to the overpressure actuat<br>is allowing gas to release to atmospher<br>juids were released. No environmental  | d a heavy equipment front end loader over a<br>or and 4" block valve on dogleg. A 1" nipple<br>e. Lateral 3B-33 is a Class Three Jurisdictional<br>impacts resulted from the incident. No further  |  |  |  |  |  |  |
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District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

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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.

| 1220 S. St. Flan | us Di., Sam   | a re, mivi 87505 | ,<br>        | Sa                  | anta Fe         | <u>e, NM 875</u> | 05                                    |              |            |  |            |  |  |  |
|------------------|---------------|------------------|--------------|---------------------|-----------------|------------------|---------------------------------------|--------------|------------|--|------------|--|--|--|
|                  |               |                  | Rele         | ease Notific        | catior          | and Co           | orrective A                           | ction        |            | an a |            |  |  |  |
|                  |               |                  |              |                     |                 | <b>OPERA</b>     | ГOR                                   | ٢            | ] Initia   | al Report 🛛 🕅 Fina                       | l Report   |  |  |  |
| Name of Co       | ompany: E     | Enterprise Fie   | eld Servio   | ces LLC             | T               | Contact: Th      | iomas Long                            |              |            |  | A. ``      |  |  |  |
| Address: 6       | 14 Reilly A   | Ave, Farming     | gton, NM     | 87401               |                 | Telephone l      | No. 505-599-22                        | 286          |            |  |            |  |  |  |
| Facility Nat     | me: Howe      | ll M#1A We       | ll Site      |                     |                 | Facility Typ     | e: Well Site M                        | eter Run     | /Meter     | Tube                                     |            |  |  |  |
| Surface Ow       | ner: BLM      | 1                |              | Mineral C           | Owner: <b>E</b> | BLM              | · · · · · · · · · · · · · · · · · · · |              | API No     | ).                                       |            |  |  |  |
|                  |               |                  |              | LOCA                | ATIO            | N OF RE          | LEASE                                 |              |            |  |            |  |  |  |
| Unit Letter      | Section       | Township         | Range        | Feet from the       | North           | SouthLine        | Feet from the                         | Eastwe       | stline     | County                                   |            |  |  |  |
| Μ                | 31            | 30N              | 8W           | 747                 |                 |                  | 568                                   |              |            | San Juan                                 |            |  |  |  |
|                  | I             | l                | ۱            | <u> </u>            | 1               |                  |                                       |              |            | · ·                                      |            |  |  |  |
| ••••             |               | Latit            | ude <u>3</u> | 6.762424            |                 | _ Longitude      | e <u>-107.71811</u>                   | <u>l6</u>    |            | /  |            |  |  |  |
|                  |               |                  | •            | NAT                 | TURE            | OF REL           | EASE                                  |              |            |  |            |  |  |  |
| Type of Rele     | ase: Natura   | ll gas           |              |                     |                 | Volume of        | Release: 772 M                        | CF           | Volume I   | Recovered: None                          |            |  |  |  |
| Source of Do     | legge Brak    | en Methanol I    | njector      |                     |                 | Date and L       | e<br>Jour of Occurrent                |              | Date and   | Hour of Discovery 2/16                   | /14 @      |  |  |  |
| Source of Re     | Tease, DIUK   | en methanol I    | injector .   |                     |                 | 3/26/14 @        | 1:15 p.m.                             | 1            | l:15 p.m   |  | -17 W      |  |  |  |
| Was Immedi       | ate Notice (  | Given?           |              |                     | ·               | If YES, To       | Whom? Jonath                          | an Kelly –   | NMOC       | D; Shari Ketchum - BL                    | M          |  |  |  |
|                  |               |                  | Yes [        | No 🗌 Not R          | equired         |                  |                                       |              |            |  |            |  |  |  |
| By Whom?         | Thomas Lo     | ng               |              |                     |                 | Date and H       | lour 3/26/14 4:30                     | ) p.m. by p  | ohone; 3   | /27/14 by email                          |            |  |  |  |
| Was a Water      | course Rea    | ched?            | Ves 🕅        | 1 No                |                 | If YES, Vo       | olume Impacting                       | the Watero   | course.    |  |            |  |  |  |
|                  |               |                  |              |                     |                 |                  |                                       |              |            |  |            |  |  |  |
| If a Watercon    | urse was Im   | pacted, Descr    | ibe Fully.   | *                   |                 |                  | · · · · · · · · · · · · · · · · · · · |              |            |  |            |  |  |  |
| Describe Gau     | use of Probl  | em and Reme      | dial Actio   | n Taken.* A well    | produce         | er discovered    | gas leaking from                      | a methano    | ol (necto  | ONIE Der Vrise bedanici                  | an was     |  |  |  |
| dispatched to    | isolate the   | injector and n   | паке гера    | rs.                 |                 | 01               | CONS. DIV D                           | )IST. 3      |            |  |            |  |  |  |
|                  |               |                  |              | ·                   |                 | 916              | <b>GOINE</b>                          |              |            |  |            |  |  |  |
|                  | . •           |                  |              |                     |                 |                  | JUL 14 20                             | )14          |            |  |            |  |  |  |
| Describe Are     | a Affected    | and Cleanup A    | Action Tal   | ken.* An area of a  | pproxim         | nately two fee   | t by two feet was                     | affected b   | elow the   | methanol tank. A third p                 | oarty      |  |  |  |
| environmenta     | al contracto  | r delineated th  | ne release   | area. The affected  | soil was        | s removed by     | hand tools and ti                     | ransported   | to the ne  | arest Enterprise Compre                  | ssor       |  |  |  |
| station to be a  | stored in a j | petroleum con    | taminated    | soil box for later  | disposal        | at a NMOCI       | D approved land f                     | farm facilit | ty. Third  | party environmental con                  | tractor    |  |  |  |
|                  | iu son samp   | ne analysis are  |              | in uns iniai C-1    | 41              |                  |                                       |              |            |  |            |  |  |  |
| I hereby certi   | ify that the  | information gi   | iven above   | e is true and comp  | lete to th      | he best of my    | knowledge and u                       | understand   | that purs  | suant to NMOCD rules a                   | nd         |  |  |  |
| regulations a    | ll operators  | are required t   | o report ai  | d/or file certain r | release no      | otifications a   | nd perform correct                    | ctive action | ns for rel | eases which may endange                  | er<br>     |  |  |  |
| should their o   | operations h  | have failed to a | adequately   | v investigate and r | remediate       | e contaminati    | on that pose a thr                    | reat to grou | ind water  | r, surface water, human h                | ealth      |  |  |  |
| or the environ   | nment. In a   | addition, NMC    | OCD accept   | otance of a C-141   | report de       | oes not reliev   | e the operator of                     | responsibi   | lity for c | ompliance with any othe                  | r          |  |  |  |
| federal, state,  | , or local la | ws and/or regu   | ilations.    |                     |                 | ·····            |                                       |              | TION       | DIVISION                                 |            |  |  |  |
| -                |               |                  | - 1          | 71                  |                 |                  | <u>OIL CON</u>                        | SEKVA        | TION       | DIVISION                                 |            |  |  |  |
| Signature:       | XP.           | NK               | uld          | /                   |                 |                  |                                       |              | 1.         | N/ L                                     | $\nearrow$ |  |  |  |
| Deleted N.       |               | <b>۴</b> .       | -            |                     |                 | Approved by      | Environmental S                       | specialist:  |            | Kill -                                   | 4/         |  |  |  |
| Printed Name     | v Jon Field   |                  |              |                     |                 |                  | at it.                                |              | $\leq +$   | yw                                       |            |  |  |  |
| Title: Directo   | or, Environi  | mental           |              |                     |                 | Approval Da      | te: 1/5/14                            | <u> </u>     | piration   | Date:                                    |            |  |  |  |
| <br>             |               | Manrad an-       |              |                     |                 | Conditions -     | f Annroual                            |              | -          |  |            |  |  |  |
| E-mail Addre     | ess: jeneids  | weprou.com       |              | ·                   |                 | Conditions 0     | Approvai:                             |              |            | Attached $\square$                       |            |  |  |  |
|                  |               | - A soli         |              | · <u> </u>          |                 |                  |                                       |              |            |  |            |  |  |  |
| Date:            | 7-8.          | 2014             | Phone        | : (713)381-6684     |                 |                  |                                       |              |            |  |            |  |  |  |
| Attach-Addi      | tional She    | ets If Necess    | ary          |                     |                 | ALAN             | S 142                                 | 8550         | 412        | $\sim$                                   |            |  |  |  |
|                  |               |                  |              |                     |                 | APIC             |                                       |              |            |  |            |  |  |  |
|                  |               |                  |              |                     |                 |                  |                                       |              |            | / (l)                                    |            |  |  |  |
|                  |               |                  |              |                     |                 |                  |                                       |              |            | し、シノ                                     |            |  |  |  |

## HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: <u>www.hallenvironmental.com</u>

April 23, 2014

Steve Moskal Souder, Miller and Associates 401 W. Broadway Farmington, NM 87401 TEL: (505) 325-5667 FAX (505) 327-1496

RE: Howell M #1A

OrderNo.: 1404817

Dear Steve Moskal:

Hall Environmental Analysis Laboratory received 1 sample(s) on 4/17/2014 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <u>www.hallenvironmental.com</u> or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

andis

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report
Lab Order 1404817

Date Reported: 4/23/2014

### Hall Environmental Analysis Laboratory, Inc.

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Project:

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CLIENT: Souder, Miller and Associates

Howell M #1A

Client Sample ID: SC-1@4'bgs Collection Date: 4/16/2014 12:40:00 PM Received Date: 4/17/2014 10:10:00 AM

| Lab ID: 1404817-001           | Matrix:    |          | Received Date: 4/17/2014 10:10:00 AM |       |    |                      |        |  |  |  |  |
|-------------------------------|------------|----------|--------------------------------------|-------|----|----------------------|--------|--|--|--|--|
| Analyses                      | Result     | RL (     | Qual                                 | Units | DF | Date Analyzed        | Batch  |  |  |  |  |
| EPA METHOD 8015D: DIESEL RANG | E ORGANICS |          |                                      |       |    | Analys               | t: JME |  |  |  |  |
| Diesel Range Organics (DRO)   | ND         | 9.9      |                                      | mg/Kg | 1  | 4/18/2014 8:03:00 PM | 12758  |  |  |  |  |
| Surr: DNOP                    | 142        | 57.9-140 | S                                    | %REC  | 1  | 4/18/2014 8:03:00 PM | 12758  |  |  |  |  |
| EPA METHOD 8015D: GASOLINE RA | NGE        |          |                                      |       |    | Analys               | t: RAA |  |  |  |  |
| Gasoline Range Organics (GRO) | 41         | . 4.8    |                                      | mg/Kg | 1  | 4/19/2014 1:38:04 AM | 12765  |  |  |  |  |
| Surr: BFB                     | 152        | 74.5-129 | S                                    | %REC  | 1  | 4/19/2014 1:38:04 AM | 12765  |  |  |  |  |
| EPA METHOD 8021B: VOLATILES   |            |          |                                      |       |    | Analys               | t: RAA |  |  |  |  |
| Benzene                       | 0.072      | 0.048    |                                      | mg/Kg | 1  | 4/19/2014 1:38:04 AM | 12765  |  |  |  |  |
| Toluene                       | 0.44       | 0.048    |                                      | mg/Kg | 1  | 4/19/2014 1:38:04 AM | 12765  |  |  |  |  |
| Ethylbenzene                  | 0.15       | 0.048    |                                      | mg/Kg | 1  | 4/19/2014 1:38:04 AM | 12765  |  |  |  |  |
| Xylenes, Total                | 1.8        | 0.096    |                                      | mg/Kg | 1  | 4/19/2014 1:38:04 AM | 12765  |  |  |  |  |
| Surr: 4-Bromofluorobenzene    | 113        | 80-120   |                                      | %REC  | 1  | 4/19/2014 1:38:04 AM | 12765  |  |  |  |  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| Qualifiers: | * | Value exceeds Maximum Contaminant Level.        | В  | Analyte detected in the associated Metho  | od Blank    |
|-------------|---|---|----|---|-------------|
|             | Е | Value above quantitation range                  | н  | Holding times for preparation or analysis | s exceeded  |
|             | J | Analyte detected below quantitation limits      | ND | Not Detected at the Reporting Limit       | Page 1 of 4 |
|             | 0 | RSD is greater than RSDlimit                    | Р  | Sample pH greater than 2.                 | Tuge Tora   |
|             | R | RPD outside accepted recovery limits            | RL | Reporting Detection Limit                 |             |
|             | S | Spike Recovery outside accepted recovery limits |    |   |             |

## QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

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| Client:      | Souder, M      | Miller and | Associ      | ates      | 1           |                 |           |              |            |          |          |
|--------------|----------------|------------|-------------|-----------|-------------|-----------------|-----------|--------------|------------|----------|----------|
|              |                |            |             |           |             |                 |           |              |            |          |          |
| Sample ID    | MB-12758       | SampT      | уре: М      | BLK       | Tes         | tCode: E        | PA Method | 8015D: Diese | el Range C | Organics |          |
| Client ID: - | PBS            | Batch      | n ID: 12    | 2758      | f           | RunNo: <b>1</b> | 8068      |              |            |          |          |
| Prep Date:   | 4/17/2014      | Analysis D | Date: 4     | /18/2014  | 9           | SeqNo: 5        | 21273     | Units: mg/K  | g          |          |          |
| Analyte      |                | Result     | PQL         | SPK value | SPK Ref Val | %REC            | LowLimit  | HighLimit    | %RPD       | RPDLimit | Qual     |
| Diesel Range | Organics (DRO) | ND<br>10   | 10          | 10.00     |             | 102             | 57.9      | . 140        |            |          |          |
| Sample ID    | LCS-12758      | SampT      | ype: LO     | cs        | Tes         | tCode: E        | PA Method | 8015D: Diese | el Range C | Drganics | <u> </u> |
| Client ID:   | LCSS           | Batcl      | n ID: 12    | 2758      | F           | RunNo: 1        | 8068      |              |            |          |          |
| Prep Date:   | 4/17/2014      | Analysis E | )<br>ate: 4 | /18/2014  | \$          | SeqNo: 5        | 21275     | Units: mg/K  | g          |          |          |
| Analyte      | <u>.</u>       | Result     | PQL         | SPK value | SPK Ref Val | %REC            | LowLimit  | HighLimit    | %RPD       | RPDLimit | Qual     |
| Diesel Range | Organics (DRO) | 46         | 10          | 50.00     | 0           | 91.4            | 60.8      | 145          |            |          |          |
| Surr: DNOP   |                | 4.4        |             | 5.000     |             | 88.6            | 57.9      | 140          |            |          |          |
| Sample ID    | MB-12781       | SampT      | ype: M      | BLK       | Tes         | tCode: E        | PA Method | 8015D: Diese | el Range C | Drganics |          |
| Client ID:   | PBS            | Batch      | n ID: 12    | 2781      | F           | RunNo: <b>1</b> | 8068      |              |            |          |          |
| Prep Date:   | 4/18/2014      | Analysis D | ate: 4      | /18/2014  | \$          | SeqNo: 5        | 21276     | Units: %RE   | C          |          |          |
| Analyte      |                | Result     | PQL         | SPK value | SPK Ref Val | %REC            | LowLimit  | HighLimit    | %RPD       | RPDLimit | Qual     |
| Surr: DNOP   | 1              | 9.6        |             | 10.00     |             | 96.0            | 57.9      | 140          |            |          |          |
| Sample ID    | LCS-12781      | SampT      | ype: LC     | cs        | Tes         | tCode: E        | PA Method | 8015D: Diese | el Range C | Prganics |          |
| Cliént ID:   | LCSS           | Batch      | n ID: 12    | 2781      | F           | RunNo: 1        | 8068      |              |            |          |          |
| Prep Date:   | 4/18/2014      | Analysis D | ate: 4      | /18/2014  | S           | SeqNo: 5        | 21898     | Units: %RE   | C          |          |          |
| Analyte      | ····           | Result     | PQL         | SPK value | SPK Ref Val | %REC            | LowLimit  | HighLimit    | %RPD       | RPDLimit | Qual     |
| Surr: DNOP   | -              | 4.6        |             | 5.000     |             | 91.5            | 57.9      | 140          |            |          |          |
| _ <u>_</u>   |                |            |             |           |             |                 |           |              |            |          |          |
| ·            |                |            | ·           |           |             |                 |           |              |            |          |          |
|              |                |            |             |           |             |                 |           |              |            |          |          |
|              |                |            |             |           |             |                 | •         |              |            |          |          |
| ·            | •              |            |             |           |             |                 |           |              |            |          |          |
| ·            |                |            |             |           |             |                 |           |              |            |          |          |
| · · · ·      |                |            |             |           |             |                 |           |              |            |          |          |
|              | ·· -·<br>: ·   |            |             |           |             |                 |           |              |            |          |          |
|              | · · · · · · ·  |            |             |           |             |                 |           |              |            |          |          |
| • · · ·      | · • ··         |            |             |           |             |                 |           |              |            |          |          |
|              |                |            |             |           |             |                 |           |              |            |          |          |

#### Qualifiers:

- Value exceeds Maximum Contaminant Level. \*
- Value above quantitation range Ε
- Analyte detected below quantitation limits Т
- O RSD is greater than RSDlimit
- RPD outside accepted recovery limits R
- S Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank В
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
  - Sample pH greater than 2. Р
  - RL Reporting Detection Limit

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## QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

| Project:   | Souder,<br>Howell                                   | Miller and A<br>M #1A                                 | Associa   | ates   |                              |   |  |   |                          |               |      |
|--|---|---|---|--|------------------------------|---|--|---|--------------------------|---------------|------|
| Sample ID  | MB-12765 MK   | SampTy  | /pe: MI   | BLK  | Tes                          | tCode: E  | PA Method  | 8015D: Gase   | oline Rang               | e             |      |
| Client ID:   | PBS   | Batch   | ID: R1  | 18084  | ·F                           | RunNo: 1  | 8084   |   |                          |               |      |
| Prep Date:   |   | Analysis Da   | ate: 4  | /18/2014   | S                            | eqNo: 5   | 22566  | Units: %RE  | C                        |               |      |
| Analyte.   |   | Result  | PQL   | SPK value  | SPK Ref Val                  | %REC  | LowLimit   | HighLimit   | %RPD                     | RPDLimit      | Qual |
| Surr: BFB  |   | 860   |   | 1000   |                              | 85.6  | 74.5   | 129   |                          |               |      |
| Sample ID  | LCS-12765 MK  | SampT   | /pe: LC   | cs   | Tes                          | tCode: E  | PA Method  | 8015D: Gase   | oline Rang               | e             |      |
| Client ID:   | LCSS  | Batch   | ID: R1  | 18084  | F                            | RunNo: 1  | 8084   |   |                          |               |      |
| Prep Date:   |   | Analysis Da   | ate: 4  | /18/2014   | S                            | GeqNo: 5  | 22567  | Units: %RE  | C                        |               |      |
| Analyte  |   | Result  | PQL   | SPK value  | SPK Ref Val                  | %REC  | LowLimit   | HighLimit   | %RPD                     | RPDLimit      | Qual |
| Surr: BFB  |   | 910   |   | 1000   |                              | 91.5  | 74.5   | 129   |                          |               |      |
| Sample ID  | MB-12765  | SampTy  | /pe: MI   | BLK  | Tes                          | tCode: E  | PA Method  | 8015D: Gase   | oline Rang               | e             |      |
| Client ID:   | PBS   | Batch   | ID: 12  | 2765   | F                            | RunNo: 1  | 8084   |   |                          |               |      |
| Prep Date:   | 4/17/2014   | Analysis Da   | ate: 4  | /18/2014   | 5                            | SeqNo: 5  | 22600  | Units: mg/l   | ۲g                       |               |      |
| Analyte  |   | Result  | PQL   | SPK value  | SPK Ref Val                  | %REC  | LowLimit   | HighLimit   | %RPD                     | RPDLimit      | Qual |
| Gasoline Răng<br>Surr: BFB   | ge Organics (GRO)                                   | ND<br>860   | 5.0   | 1000   |                              | 85.6  | 74.5   | 129   |                          |               |      |
|  |   |   |   |  |                              |   |  |   |                          |               |      |
| Sample ID  | LCS-12765   | SampT   | ype: LC   | CS   | Tes                          | tCode: E  | PA Method  | 8015D: Gase   | oline Rang               | e             |      |
| Sample ID<br>Client ID:  | LCS-12765<br>LCSS                                   | SampT <u>y</u><br>Batch                               | ype: L0   | CS<br>2765   | Tes<br>F                     | tCode: E<br>RunNo: 1  | PA Method<br>8084                                      | 8015D: Gase   | oline Rang               | e             |      |
| Sample ID<br>Client ID:<br>Prep Date:  | LCS-12765<br>LCSS<br>4/17/2014                      | SampTy<br>Batch<br>Analysis Da                        | ype: LC<br>ID: 12<br>ate: 4                       | CS<br>2765<br>/18/2014                                 | Tes<br>F                     | tCode: E<br>RunNo: 1<br>SeqNo: 5                                | PA Method<br>8084<br>22601                             | 8015D: Gase<br>Units: mg/l                            | oline Rang<br>Kg         | e             |      |
| Sample ID<br>Client ID:<br>Prep Date:<br>Analyte                               | LCS-12765<br>LCSS<br>4/17/2014                      | SampTy<br>Batch<br>Analysis Da<br>Result              | ype: L(<br>ID: 12<br>ate: 4,<br>PQL               | CS<br>2765<br>/18/2014<br>SPK value                    | Tes<br>F<br>S<br>SPK Ref Val | tCode: E<br>RunNo: 1<br>SeqNo: 5<br>%REC                        | PA Method<br>8084<br>22601<br>LowLimit                 | 8015D: Gase<br>Units: mg/l<br>HighLimit               | oline Rang<br>(g<br>%RPD | e<br>RPDLimit | Qual |
| Sample ID<br>Client ID:<br>Prep Date:<br>Analyte<br>Gasoline Rang              | LCS-12765<br>LCSS<br>4/17/2014<br>ge Organics (GRO) | SampTy<br>Batch<br>Analysis Da<br>Result<br>24<br>910 | ype: L(<br>ID: 12<br>ate: 4<br>PQL<br>5.0         | CS<br>2765<br>/18/2014<br>SPK value<br>25.00<br>1000   | Tes<br>F<br>SPK Ref Val<br>0 | tCode: E<br>RunNo: 1<br>SeqNo: 5<br><u>%REC</u><br>97.9<br>91.5 | PA Method<br>8084<br>22601<br>LowLimit<br>71.7<br>74 5 | 8015D: Gase<br>Units: mg/l<br>HighLimit<br>134        | oline Rang<br>(g<br>%RPD | e<br>RPDLimit | Qual |
| Sample ID<br>Client ID:<br>Prep Date:<br>Analyte<br>Gasoline Rang<br>Surr: BFB | LCS-12765<br>LCSS<br>4/17/2014<br>ge Organics (GRO) | SampTy<br>Batch<br>Analysis Da<br>Result<br>24<br>910 | ype: L0<br>ID: 12<br>ate: 4<br>PQL<br>5.0         | CS<br>2765<br>/18/2014<br>SPK value<br>25.00<br>1000   | Tes<br>F<br>SPK Ref Val<br>0 | tCode: E<br>RunNo: 1<br>SeqNo: 5<br>%REC<br>97.9<br>91.5        | PA Method<br>8084<br>22601<br>LowLimit<br>71.7<br>74.5 | 8015D: Gaso<br>Units: mg/l<br>HighLimit<br>134<br>129 | vg<br>%RPD               | e<br>RPDLimit | Qual |
| Sample ID<br>Client ID:<br>Prep Date:<br>Analyte<br>Gasoline Rang<br>Surr: BFB | LCS-12765<br>LCSS<br>4/17/2014<br>ge Organics (GRO) | SampTy<br>Batch<br>Analysis Da<br>Result<br>24<br>910 | ype: LC<br>ID: 12<br>ate: 4,<br>PQL<br>5.0        | CS<br>2765<br>/18/2014<br>SPK value<br>25.00<br>1000   | Tes<br>F<br>SPK Ref Val<br>0 | tCode: E<br>RunNo: 1<br>SeqNo: 5<br>%REC<br>97.9<br>91.5        | PA Method<br>8084<br>22601<br>LowLimit<br>71.7<br>74.5 | 8015D: Gase<br>Units: mg/k<br>HighLimit<br>134<br>129 | oline Rang<br>(g<br>%RPD | e<br>RPDLimit | Qual |
| Sample ID<br>Client ID:<br>Prep Date:<br>Analyte<br>Gasoline Rang<br>Surr: BFB | LCS-12765<br>LCSS<br>4/17/2014<br>ge Organics (GRO) | SampTy<br>Batch<br>Analysis Da<br>Result<br>24<br>910 | ype: LC<br>ID: 12<br>ate: 4,<br>PQL<br>5.0        | CS<br>2765<br>/18/2014<br>SPK value<br>25.00<br>1000   | Tes<br>F<br>SPK Ref Val      | tCode: E<br>RunNo: 1<br>SeqNo: 5<br>%REC<br>97.9<br>91.5        | PA Method<br>8084<br>22601<br>LowLimit<br>71.7<br>74.5 | 8015D: Gase<br>Units: mg/l<br>HighLimit<br>134<br>129 | vg<br>%RPD               | e<br>RPDLimit | Qual |
| Sample ID<br>Client ID:<br>Prep Date:<br>Analyte<br>Gasoline Rang<br>Surr: BFB | LCS-12765<br>LCSS<br>4/17/2014<br>ge Organics (GRO) | SampTy<br>Batch<br>Analysis Da<br>Result<br>24<br>910 | ype: LC<br>ID: 12<br>ate: 4,<br><u>PQL</u><br>5.0 | CS<br>2765<br>/18/2014<br>SPK value<br>25.00<br>1000   | Tes<br>F<br>SPK Ref Val<br>0 | tCode: E<br>RunNo: 1<br>SeqNo: 5<br>%REC<br>97.9<br>91.5        | PA Method<br>8084<br>22601<br>LowLimit<br>71.7<br>74.5 | 8015D: Gase<br>Units: mg/k<br>HighLimit<br>134<br>129 | oline Rang<br>(g<br>%RPD | e<br>RPDLimit | Qual |
| Sample ID<br>Client ID:<br>Prep Date:<br>Analyte<br>Gasoline Rang<br>Surr: BFB | LCS-12765<br>LCSS<br>4/17/2014<br>ge Organics (GRO) | SampTy<br>Batch<br>Analysis Da<br>Result<br>24<br>910 | ype: LC<br>ID: 12<br>ate: 4,<br>PQL<br>5.0        | 2765<br>2765<br>/18/2014<br>SPK value<br>25.00<br>1000 | Tes<br>F<br>SPK Ref Val<br>0 | tCode: E<br>RunNo: 1<br>SeqNo: 5<br>%REC<br>97.9<br>91.5        | PA Method<br>8084<br>22601<br>LowLimit<br>71.7<br>74.5 | 8015D: Gase<br>Units: mg/l<br>HighLimit<br>134<br>129 | oline Rang<br>(g<br>%RPD | e<br>RPDLimit | Qual |
| Sample ID<br>Client ID:<br>Prep Date:<br>Analyte<br>Gasoline Rang<br>Surr: BFB | LCS-12765<br>LCSS<br>4/17/2014<br>ge Organics (GRO) | SampTy<br>Batch<br>Analysis Da<br>Result<br>24<br>910 | ype: LC<br>ID: 12<br>ate: 4,<br><u>PQL</u><br>5.0 | 2765<br>/18/2014<br>SPK value<br>25.00<br>1000         | Tes<br>F<br>SPK Ref Val<br>0 | tCode: E<br>RunNo: 1<br>SeqNo: 5<br>%REC<br>97.9<br>91.5        | PA Method<br>8084<br>22601<br>LowLimit<br>71.7<br>74.5 | 8015D: Gase<br>Units: mg/ł<br>HighLimit<br>134<br>129 | vg<br>%RPD               | e<br>RPDLimit | Qual |
| Sample ID<br>Client ID:<br>Prep Date:<br>Analyte<br>Gasoline Rang<br>Surr: BFB | LCS-12765<br>LCSS<br>4/17/2014<br>ge Organics (GRO) | SampTy<br>Batch<br>Analysis Da<br>Result<br>24<br>910 | ype: LC<br>ID: 12<br>ate: 4<br>PQL<br>5.0         | 2765<br>2765<br>/18/2014<br>SPK value<br>25.00<br>1000 | Tes<br>F<br>SPK Ref Val<br>0 | tCode: E<br>RunNo: 1<br>SeqNo: 5<br>%REC<br>97.9<br>91.5        | PA Method<br>8084<br>22601<br>LowLimit<br>71.7<br>74.5 | 8015D: Gase<br>Units: mg/l<br>HighLimit<br>134<br>129 | oline Rang<br>(g<br>%RPD | e<br>RPDLimit | Qual |
| Sample ID<br>Client ID:<br>Prep Date:<br>Analyte<br>Gasoline Rang<br>Surr: BFB | LCS-12765<br>LCSS<br>4/17/2014<br>ge Organics (GRO) | SampTy<br>Batch<br>Analysis Da<br>Result<br>24<br>910 | ype: LC<br>ID: 12<br>ate: 4,<br>PQL<br>5.0        | CS<br>2765<br>/18/2014<br>SPK value<br>25.00<br>1000   | Tes<br>F<br>SPK Ref Val      | tCode: E<br>RunNo: 1<br>SeqNo: 5<br>%REC<br>97.9<br>91.5        | PA Method<br>8084<br>22601<br>LowLimit<br>71.7<br>74.5 | 8015D: Gase<br>Units: mg/l<br>HighLimit<br>134<br>129 | vg<br>%RPD               | e<br>RPDLimit | Qual |
| Sample ID<br>Client ID:<br>Prep Date:<br>Analyte<br>Gasoline Rang<br>Surr: BFB | LCS-12765<br>LCSS<br>4/17/2014<br>ge Organics (GRO) | SampTy<br>Batch<br>Analysis Da<br>Result<br>24<br>910 | ype: LC<br>ID: 12<br>ate: 4<br>PQL<br>5.0         | 2765<br>(18/2014<br>SPK value<br>25.00<br>1000         | Tes<br>F<br>SPK Ref Val<br>0 | tCode: E<br>RunNo: 1<br>SeqNo: 5<br>%REC<br>97.9<br>91.5        | PA Method<br>8084<br>22601<br>LowLimit<br>71.7<br>74.5 | 8015D: Gase<br>Units: mg/k<br>HighLimit<br>134<br>129 | vg<br>%RPD               | e<br>RPDLimit | Qual |
| Sample ID<br>Client ID:<br>Prep Date:<br>Analyte<br>Gasoline Rang<br>Surr: BFB | LCS-12765<br>LCSS<br>4/17/2014<br>ge Organics (GRO) | SampTy<br>Batch<br>Analysis Da<br>Result<br>24<br>910 | ype: LC<br>ID: 12<br>ate: 4,<br>PQL<br>5.0        | CS<br>2765<br>/18/2014<br>SPK value<br>25.00<br>1000   | Tes<br>F<br>SPK Ref Val      | tCode: E<br>RunNo: 1<br>SeqNo: 5<br><u>%REC</u><br>97.9<br>91.5 | PA Method<br>8084<br>22601<br>LowLimit<br>71.7<br>74.5 | 8015D: Gase<br>Units: mg/l<br>HighLimit<br>134<br>129 | oline Rang<br>(g<br>%RPD | e<br>RPDLimit | Qual |
| Sample ID<br>Client ID:<br>Prep Date:<br>Analyte<br>Gasoline Rang<br>Surr: BFB | LCS-12765<br>LCSS<br>4/17/2014<br>ge Organics (GRO) | SampTy<br>Batch<br>Analysis Da<br>Result<br>24<br>910 | ype: LC<br>ID: 12<br>ate: 4<br>PQL<br>5.0         | CS<br>2765<br>/18/2014<br>SPK value<br>25.00<br>1000   | Tes<br>F<br>SPK Ref Val<br>0 | tCode: E<br>RunNo: 1<br>SeqNo: 5<br>%REC<br>97.9<br>91.5        | PA Method<br>8084<br>22601<br>LowLimit<br>71.7<br>74.5 | 8015D: Gase<br>Units: mg/k<br>HighLimit<br>134<br>129 | vg<br>%RPD               | e<br>RPDLimit | Qual |
| Sample ID<br>Client ID:<br>Prep Date:<br>Analyte<br>Gasoline Rang<br>Surr: BFB | LCS-12765<br>LCSS<br>4/17/2014<br>ge Organics (GRO) | SampTy<br>Batch<br>Analysis Da<br>Result<br>24<br>910 | ype: LC<br>ID: 12<br>ate: 4,<br>PQL<br>5.0        | CS<br>2765<br>/18/2014<br>SPK value<br>25.00<br>1000   | Tes<br>F<br>SPK Ref Val<br>0 | tCode: E<br>RunNo: 1<br>SeqNo: 5<br>%REC<br>97.9<br>91.5        | PA Method<br>8084<br>22601<br>LowLimit<br>71.7<br>74.5 | 8015D: Gase<br>Units: mg/l<br>HighLimit<br>134<br>129 | oline Rang<br>(g<br>%RPD | e<br>RPDLimit | Qual |

Qualifiers:

\* Value exceeds Maximum Contaminant Level.

E Value above quantitation range

- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
  - P Sample pH greater than 2.
  - RL Reporting Detection Limit

Page 3 of 4

## QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Souder, Miller and Associates

Howell M #1A

**Client: Project:** 

| Sample ID      | MB-12765        | SampType: MBLK TestCode: E |          |           |             |           |           | e: EPA Method 8021B: Volatiles |       |          |          |  |  |  |  |
|----------------|-----------------|----------------------------|----------|-----------|-------------|-----------|-----------|--------------------------------|-------|----------|----------|--|--|--|--|
| Client ID:     | PBS             | Batc                       | h ID: 12 | 765       | R           | RunNo: 1  | 8084      |                                |       |          |          |  |  |  |  |
| Prep Date:     | 4/17/2014       | Analysis [                 | Date: 4/ | 18/2014   | S           | SeqNo: 5  | 22634     | Units: mg/k                    | ٢g    |          |          |  |  |  |  |
| Analyte .      |                 | Result                     | PQL      | SPK value | SPK Ref Val | %REC      | LowLimit  | HighLimit                      | %RPD  | RPDLimit | Qual     |  |  |  |  |
| Benzene        |                 | ND                         | 0.050    |           |             |           |           |                                |       |          |          |  |  |  |  |
| Toluene        |                 | ND                         | 0.050    |           |             |           |           |                                |       |          |          |  |  |  |  |
| Ethylbenzene   |                 | ND                         | 0.050    | ,         |             |           |           |                                |       |          |          |  |  |  |  |
| Xylenes, Total |                 | ND                         | 0.10     |           |             |           |           |                                |       |          |          |  |  |  |  |
| Surr: 4-Bron   | nofluorobenzene | 1:0                        |          | 1.000     |             | 102       | 80        | 120                            |       |          |          |  |  |  |  |
| Sample ID      | LCS-12765       | Samp                       | Type: LC | S         | Tes         | tCode: El | PA Method | 8021B: Vola                    | tiles |          |          |  |  |  |  |
| Client ID:     | LCSS            | Batc                       | h ID: 12 | 765       | F           | RunNo: 1  | 8084      |                                |       |          |          |  |  |  |  |
| Prep Date:     | 4/17/2014       | Analysis [                 | Date: 4/ | 18/2014   | S           | SeqNo: 5  | 22635     | Units: mg/K                    | ٢g    |          |          |  |  |  |  |
| Analyte        |                 | Result                     | PQL      | SPK value | SPK Ref Val | %REC      | LowLimit  | . HighLimit                    | %RPD  | RPDLimit | Qual     |  |  |  |  |
| Benzene        |                 | 1.1                        | 0.050    | 1.000     | 0           | 109       | 80        | 120                            |       |          | <u> </u> |  |  |  |  |
| Toluene        |                 | 1.0                        | 0.050    | 1.000     | 0           | 103       | 80        | 120                            |       |          |          |  |  |  |  |
| Ethylbenzene   |                 | 1.0                        | 0.050    | 1.000     | 0           | 104       | 80        | 120                            |       |          |          |  |  |  |  |
| Xylenes, Total |                 | 3.1                        | 0.10     | 3.000     | . 0         | 103       | 80        | 120                            |       |          |          |  |  |  |  |
| Surr: 4-Bron   | nofluorobenzene | 1.1                        |          | 1.000     |             | 106       | 80        | 120                            |       |          | <u> </u> |  |  |  |  |
| Sample ID      | 1404817-001AMS  | Samp                       | Type: MS | 5         | Tes         | tCode: El | PA Method | 8021B: Volat                   | tiles | ······   |          |  |  |  |  |
| Client ID:     | SC-1@4'bgs      | Batc                       | h ID: 12 | 765       | R           | RunNo: 1  | B084      |                                |       |          |          |  |  |  |  |
| Prep Date:     | 4/17/2014       | Analysis E                 | Date: 4/ | 19/2014   | S           | eqNo: 5   | 22651     | Units: mg/K                    | ۲g    |          |          |  |  |  |  |
| Analyte        |                 | Result                     | PQL      | SPK value | SPK Ref Val | %REC      | LowLimit  | HighLimit                      | %RPD  | RPDLimit | Qual     |  |  |  |  |
| Benzene        |                 | 1.1                        | 0.048    | 0.9606    | 0.07186     | 107       | 67.4      | 135                            |       |          |          |  |  |  |  |
| Toluene        |                 | 1.7                        | 0.048    | 0.9606    | 0.4396      | 134       | 72.6      | 135                            |       |          |          |  |  |  |  |
| Ethylbenzene   | · · · ·         | 1.4                        | 0.048    | 0.9606    | 0.1493      | 128       | 69.4      | 143                            |       |          |          |  |  |  |  |
| Xylenes, Total | •               | 6.6                        | 0.096    | 2.882     | 1.800       | 165       | 70.8      | 144                            |       |          | S        |  |  |  |  |
| Surr: 4-Brom   | nofluorobenzene | 1.2                        |          | 0.9606    |             | 121       | 80        | 120                            |       |          | S        |  |  |  |  |
| Sample ID      | 1404817-001AMSE | ) SampT                    | Гуре: MS | D         | Test        | Code: EF  | PA Method | 8021B: Volat                   | iles  |          |          |  |  |  |  |
| Client ID:     | SC-1@4'bgs      | Batcl                      | h ID: 12 | 765       | R           | tunNo: 18 | 8084      |                                |       |          |          |  |  |  |  |
| Prep Date:     | 4/17/2014       | Analysis D                 | Date: 4/ | 19/2014   | S           | eqNo: 52  | 22652     | Units: mg/K                    | g     |          |          |  |  |  |  |
| Analyte        |                 | Result                     | PQL      | SPK value | SPK Ref Val | %REC      | LowLimit  | HighLimit                      | %RPD  | RPDLimit | Qual     |  |  |  |  |
| Benzene        |                 | 1.2                        | 0.048    | 0.9615    | 0.07186     | 114       | 67.4      | 135                            | 5.86  | 20       |          |  |  |  |  |
| Toluene        |                 | 1.6                        | 0.048    | 0.9615    | 0.4396      | 120       | 72.6      | 135                            | 8.36  | 20       |          |  |  |  |  |
| Ethylbenzene   |                 | 1.3                        | 0.048    | 0.9615    | 0.1493      | 118       | 69.4      | 143                            | 7.41  | 20       |          |  |  |  |  |
| Xylenes, Total |                 | 5.5                        | 0.096    | 2.885     | 1.800       | 129       | 70.8      | 144                            | 17.1  | 20       | -        |  |  |  |  |
| Surr: 4-Brom   | ofluorobenzene  | 1.2                        |          | 0.9615    |             | 122       | 80        | 120                            | 0     | 0        | S        |  |  |  |  |
|                |                 |                            |          |           |             |           |           |                                |       |          |          |  |  |  |  |
|                |                 |                            |          |           |             |           |           |                                |       |          |          |  |  |  |  |
| •••            |                 |                            |          |           |             |           |           |                                |       |          |          |  |  |  |  |

#### **Qualifiers:**

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- Value exceeds Maximum Contaminant Level. \*
- Value above quantitation range Е
- Analyte detected below quantitation limits J
- O <sup>+</sup> RSD is greater than RSDlimit
- RPD outside accepted recovery limits R

- Analyte detected in the associated Method Blank В
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND
- Р Sample pH greater than 2.
- Reporting Detection Limit RL

Page 4 of 4

23-Apr-14

| Alba<br>TEL: 505-345-3975<br>Website: www.ha  | 4901 11<br>uquerque.<br>FAX: 505<br>illenvironi | lawkins NE<br>NM 87109<br>5-345-4107<br>mental.com | Sam    | ple Log-In Check List               | _   |
|---|---|--|--------|-------------------------------------|-----|
| Client Name: SMA-FARM Work Prder Number:<br>Received by/date:                                     | 140481  | 7  |        | RcpINo: 1                           |     |
| Logged By: Ashley Gallegos 4/17/2014 10:10:00 AN  | vi  |  |        |                                     |     |
| Completed By: Ashley Gallegos 4/17/2014 12:00:12 PK   | vi  | 9  | ŧJ     |                                     |     |
| Reviewed By: CS 04/17/14  |   |  |        |                                     |     |
| <u>Chain of Custody</u>   | .,  |  | N      |                                     |     |
| 1. Custody seals intact on sample bottles?  | Yes   |  | NO     | Not Present                         |     |
| 2. How was the sample delivered?  | Courie  | •  | NO     | Not resent                          |     |
| S. The was the sample demonstra   | vvuio   | <u>.</u>   |        |                                     |     |
| <u>Log In</u>   |   |  |        |                                     |     |
| 4. Was an attempt made to cool the samples?   | Yes   | ✓  | No     | NA                                  |     |
| 5. Were all samples received at a temperature of >0° C to 6.0°C                                   | Yes   | /  | No     | NA                                  |     |
| 6. Sample(s) in proper container(s)?  | Yes   | ✓  | No     |                                     |     |
| 7. Sufficient sample volume for indicated test(s)?  | Yes 🤄   | <b>V</b> .   | No     |                                     |     |
| 8. Are samples (except VOA and ONG) properly preserved?   | Yes   | ✓  | No     |                                     |     |
| 9. Was preservative added to bottles?   | Yes .   |  | No 🗸   | NA                                  |     |
| 10:VOA vials have zero headspace?   | Yes   |  | No     | No VOA Vials 🗸                      |     |
| 11. Were any sample containers received broken?   | Yes   | х<br>-   | No 🗸   | # of preserved<br>bottles checked   |     |
| 12.Does paperwork match bottle labels?<br>(Note discrepancies on chain of custody)                | Yes   | <b>v</b>   | No     | for pH:<br>(<2 or >12 unless note   | :d) |
| 13 Are matrices correctly identified on Chain of Custody?   | Yes   |  | No     | Adjusted?                           |     |
| 14 is it clear what analyses were requested?  | Yes   | <b>у</b> .<br>И                                    | No .   | Checked by:                         |     |
| (If no, notify customer for authorization.)   | 165   | •  |        |                                     |     |
| Special Handling (if applicable)  |   |  |        |                                     |     |
| 16. Was client notified of all discrepancies with this order?                                     | Yes   |  | No     | NA 🗸                                |     |
| Person Notified: Date:  |   | 1277 Mar of 1987 Mile - 1997 A                     |        |                                     |     |
| By Whom: Via:   | eMail   | Phone  | ə Fax  | In Person                           |     |
| Regarding:  |   |  |        | LANKS MARTIN SPIRITUPIN, AND COLONY |     |
| 17. Additional remarks:   |   | · ·  |        |                                     |     |
| 18. <u>Cooler Information</u><br><u>Cooler No   Temp °C   Condition   Seal Intact   Seal No  </u> | Seal Date                                       | e Sigi   | ned By |                                     |     |
| j1 1.0 Good Yes   |   |  |        |                                     |     |
| Page 1 of 1   |   |  |        |                                     |     |

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Hall Environmental Analysis Laboratory

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| Ľ  | nain  | -OT-UL     | istoay kecora                         |                         |                         |                                       | LALLENVIDONMENTAL |             |                   |              |              |                      |          |   |             |           |   |                    |                      |             |             |
|--|---|------------|---------------------------------------|-------------------------|-------------------------|---------------------------------------|-------------------|-------------|-------------------|--------------|--------------|----------------------|----------|---|-------------|-----------|---|--------------------|----------------------|-------------|-------------|
| Client:  | Salie   | 1. ~ m     | lille / > Associates                  | Dr Standard             | □ Rush                  |                                       |                   | -'          | ·                 | r<br>A       | 1a<br>NRI    | LL<br>Ai             | L<br>Vi  | in 4<br>Cté                               | 2 8<br>7 8  |           | 2 <b>0</b>  | ne<br>D/           | i bi<br>A <b>t</b> a | אר<br>רב'   | V           |
|  |   |            | UTAL ASPECIALS                        | Project Name            | ə:                      | · · · · ·                             |                   |             |                   |              |              | <b>ra</b> s<br>v bol |          | je se |             |           |   |                    |                      | <b>,</b> 14 | -           |
| Mailing  | Address                                       |            |                                       |                         |                         |                                       |                   | 400         | 04 1              | يارين ما     |              | v.nai                |          |   |             | 6. N      | 0111<br>N.4. Q.7                                      | 7100               |                      |             |             |
|  |   | 401        | W. proadwarf                          | Project #               |                         |                                       | -                 | 490         |                   | awki         | ins r        | NE -                 | Ait      | ouqu<br>-                                 | erqu        | e, N      |   | - 109              |                      |             |             |
|  | Fc  | run        | nton, NM 87401                        |                         |                         |                                       |                   | Te          | el. 50            | )5-34        | 15-3         | 975                  |          | Fax                                       | 505-        | -345      | -410  | 7<br>1999 - 1999   |                      | ·           | - A. 17     |
| Phone  | #: 505  | 325        | 7535                                  | 512                     | 2855 80                 | a 16                                  |                   | "< €" .<br> |                   |              |              | Ă                    | nal      | ysis                                      | Req         | ues       | 28 - 19 14<br>19 - 19 - 19 - 19 - 19 - 19 - 19 - 19 - |                    |                      | و ال        |             |
| email o  | r Fax#: 5                                     | Heirn      | moskalQsoudermiller                   | Project Mana            | iger:                   |                                       | £                 | (           | 62                |              |              |                      |          | ð   | S           |           |   |                    |                      |             |             |
| QA/QC  | Package:                                      |            |                                       |                         |                         |                                       |                   | as c        | E<br>A            |              |              | IS)                  |          | 04.0                                      | B<br>C      |           |   |                    |                      |             | 1 -         |
| K Star   | Indard Devel 4 (Full Validation) Steven Moska |            |                                       |                         |                         | J                                     | 1                 | Ű           | <b>%</b>          |              |              | SIN                  |          | ۲<br>۵                                    | 2 D         |           |   |                    |                      |             |             |
| Accred   | Accreditation                                 |            |                                       |                         |                         |                                       |                   | 표           | 2                 | <del>,</del> | <del>,</del> | 20                   |          | l S                                       | 808         |           |   |                    |                      | 1           | Î           |
|  | .AP   | Othe       | er                                    | On Ice: A Yes D No      |                         |                                       |                   | +           | В<br>В            | 18           | 504          | r 82                 | 5        | ő   | s/1         |           | Ŕ   |                    |                      |             | 2           |
|  | ) (Type)                                      |            |                                       | Sample Tem              | Sample Temperature: /·O |                                       |                   |             | 0                 | ğ            | ) po         | 0 0                  | etal     | Z   | Side        | F         | Ĭ   |                    |                      |             | کا<br>ا     |
| Date   | Time  | Matrix     | Sample Request ID                     | Container<br>Type and # | Preservative<br>Type    | HEAL No.<br>1404817                   | BTEX) MA          | BTEX + MI   | <b>ТРН 8015</b> Е | TPH (Meth    | EDB (Meth    | PAH's (831           | RCRA 8 M | Anions (F,C                               | 8081 Pestic | 8260B (VO | 8270 (Sem   |                    |                      |             | Air Bubbles |
| 116/14   | 1240  | soil       | SC-104'bas                            | 402×1                   | Cool                    | - 001                                 | X                 |             | K                 |              |              |                      |          |   |             |           |   |                    |                      |             |             |
| •••  |   |            | J                                     |                         |                         |                                       |                   |             |                   |              |              |                      |          |   |             |           |   |                    |                      |             |             |
|  | 1   |            |                                       |                         |                         |                                       |                   |             |                   |              |              |                      |          | <b> </b>                                  |             |           |   |                    |                      |             | +           |
| <u></u>  | <u> </u>                                      | <u> </u>   |                                       | +                       |                         | · · · · · · · · · · · · · · · · · · · |                   |             |                   |              |              |                      |          |   |             |           |   |                    |                      | -+          | +           |
|  | <u> </u>                                      |            | · · · · · · · · · · · · · · · · · · · |                         |                         |                                       |                   |             |                   |              |              |                      |          |   |             |           |   | $\left  - \right $ |                      | -+-         | +           |
|  | L   |            |                                       | ļ                       |                         | ·                                     |                   |             |                   |              |              |                      |          |   |             |           |   |                    |                      |             |             |
|  |   |            |                                       |                         |                         |                                       |                   |             |                   |              |              |                      |          |   |             |           |   |                    |                      |             |             |
|  |   |            |                                       |                         |                         |                                       |                   |             |                   |              |              |                      |          |   |             |           |   |                    |                      |             |             |
| ·  | 1   | 1          |                                       |                         |                         |                                       | 1                 |             |                   |              |              |                      |          |   |             |           |   |                    |                      | -           | $\top$      |
|  |   | <u> </u>   |                                       |                         |                         |                                       | +                 |             |                   |              |              |                      |          | ├──                                       | <u> </u>    |           |   | ┝╼╼┫               |                      | -+          | +           |
|  | <u> </u>                                      | <u> </u>   |                                       |                         |                         |                                       |                   |             |                   |              |              |                      |          | <u> </u>                                  |             |           |   |                    |                      | -+-         | <u> </u>    |
|  | L   | Ļ          |                                       |                         |                         |                                       |                   |             |                   |              |              |                      |          | <b> </b>                                  |             |           |   |                    |                      |             |             |
|  | <u> </u>                                      |            |                                       |                         |                         |                                       |                   |             |                   |              |              |                      |          |   |             |           |   |                    |                      |             |             |
|  |   |            |                                       |                         |                         |                                       |                   |             |                   |              |              |                      |          |   |             |           |   |                    |                      |             |             |
| Date:  | Time:   | Relinquish | ed by:                                | Received by:            | 4                       | Date Time                             | Ren               | narks       | s:                |              |              |                      | 110      | •   | ກ_!         | ، ملا     | <u></u>   | 0                  |                      |             | ah Ca       |
| 16/14 1500 alasen Mustuchete //14/14/10/10                           |   |            |                                       |                         | <b>\</b>                | ofy                                   | re                | por         | τ.                | 40           | Alx          | cp.                  | 500      |   | 2011        | Fr 2      | oudu  |                    | 17963-46             |             |             |
| Date: Time: Relinquished by:<br>//////////////////////////////////// |   |            |                                       | heceived by:            | ABalli                  | Date Time<br>04/17/14<br>20 10:10     |                   |             | -                 |              |              |                      |          |   |             |           |   |                    |                      |             |             |

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

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|                              | Release Information      |
|------------------------------|--------------------------|
| Name                         | Howell M # 1A            |
|                              | Latitude/Longitude       |
| Location                     | 36.762424, -107.718116   |
|                              | Section, Township, Range |
|                              | S31 T30N ROW             |
| Reported To                  | Tom Long                 |
| Area Supervisor              | Dwayn Dixon              |
| Diameter of<br>Pipeline      |                          |
| Source of<br>Release         | Methanol Tank            |
| Release<br>Contents          | Methanol, NG, NG liquids |
| Release Volume               | unknown                  |
| Subcontractor                |                          |
| Disposal Facility            |                          |
| /d <sup>3</sup> Contam. Soil |                          |
| O/WO/AFE                     |                          |

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| ·  | Field Screening |                              |                     |                |                  |                      |  |  |  |  |
|----|-----------------|------------------------------|---------------------|----------------|------------------|----------------------|--|--|--|--|
|    |                 | Location Name                |                     |                | Date             |                      |  |  |  |  |
| ·  | Hou             | ell M #1A                    | ell M #IA           |                |                  | 1                    |  |  |  |  |
|    | Location Name   | Description                  | Depth (Feet<br>BGS) | Time Collected | Time<br>Screened | PID Reading<br>(ppm) |  |  |  |  |
|    | SC-1            | @RP, Berudn<br>methanol tonk | 0                   | 1150           | 1220             | 994.8                |  |  |  |  |
|    |                 | 1) Grey Stanning             | l                   | 1122           | 1221             | 1594                 |  |  |  |  |
|    |                 | Circy Staining               | 2                   | 1202           | 1222             | 1681                 |  |  |  |  |
|    |                 | arey stainutra               | 3                   | 1207           | 1223             | 735.3                |  |  |  |  |
|    | 56-2            | 5'N.                         | 0.5                 | 1215           | 1224             | 9.1                  |  |  |  |  |
|    | 563             | 5' W                         | 0.5                 | 1216           | 1225             | 19,9                 |  |  |  |  |
|    | SC-4            | 2,2                          | 0.5                 | 1217           | 1226             | 44.3                 |  |  |  |  |
| ab | SC-5            | 5' E.                        | 0.5                 | 1218           | 1227             | 7.4                  |  |  |  |  |
|    | SC-1            | see above                    | 4                   | 1240           | 1255             | 1702                 |  |  |  |  |
|    | SC-1            |                              | 5'                  | 1258           | 1256             | 827.5                |  |  |  |  |
|    |                 |                              |                     |                |                  |                      |  |  |  |  |
| -  |                 |                              |                     |                |                  |                      |  |  |  |  |
|    |                 |                              |                     |                |                  |                      |  |  |  |  |
|    |                 |                              |                     |                |                  |                      |  |  |  |  |
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## BUBJECT HOWELL MHZA PROJECT 5122855 (Kg 16 PAGE

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| District I<br>1625 N. French   | Dr., Hobbs,                      | NM 88240                        |                            | _ Sta                              | ate of                | New Mex   | kico  |                           |                         |  | Form C-141                      |
|--|----------------------------------|---------------------------------|----------------------------|------------------------------------|-----------------------|---|---|---------------------------|-------------------------|--|---------------------------------|
| District II<br>811 S. First St.  | , Artesia, NM                    | 88210                           |                            | Energ                              | y Min<br>Re           | erals and I   | Natural   |                           |                         | Revised                                | August 8, 2011                  |
| District III<br>1000 Rio Brazo   | os Road, Azte                    | ec, NM 87410                    |                            |                                    | 0000                  | nation Di   |   | Subr                      | mit 1 Copy<br>in acco   | r to appropriate rdance with 19.       | District Office<br>15.29 NMAC.  |
| District IV<br>1220 S. St. Fra   | incis Dr., San                   | ita Fe, NM 87                   | 505                        | 1220                               | South                 | n St. Fran  | cis Dr.   | UNS. [                    | DIV DION                |  |                                 |
|  |                                  |                                 |                            | Sa                                 | nta F                 | e, NM 87  | 505   | AUGAM                     |                         | 3                                      |                                 |
|  |                                  | F                               | Releas                     | e Notific                          | atio                  | n and C   | orrectiv  | e Acti                    | on <sup>74</sup>        |  | ;                               |
|  |                                  |                                 |                            |                                    | OF                    | PERATOR   | र   |                           | ] Initial F             | Report 🛛                               | Final Report                    |
| Name of C  | ompany: E                        | Enterprise F                    | ield Servi                 | ces LLC c/o                        | Env                   | Contact: T  | homas Long  | 3                         |                         |  |                                 |
| Facility Na  | me: GCU #                        | 273 Well                        | <b>Fie/Later</b>           | al 3E-1                            |                       | Facility Typ  | be: Natural (                                       | Gas Gatl                  | hering Li               | ne                                     |                                 |
| Surface Ov   | vner: NAP                        | l/Navajo T                      | ribal                      | Mineral (                          | Owner                 | : NAPI/Nav  | ajo Tribal  |                           | API No                  |  |                                 |
| La   |                                  |                                 |                            | LOCA                               |                       | N OF REL  | EASE  |                           |                         |  |                                 |
| Unit Letter  | Section                          | Township                        | Range                      | Feet from                          | North                 | South   | Feet from   | Eas                       | West                    | County                                 |                                 |
| A  | 31                               | 28N                             | 12W                        | the 1132                           | Line                  |   | the 92  | Line                      |                         | San Juan                               |                                 |
|  |                                  | Latitude_                       | 36.62                      | 2800                               |                       | Longitud  | le <u>-108.1</u>                                    | <u>44360</u>              |                         |  |                                 |
|  |                                  |                                 |                            | ΝΑΤ                                | URE                   | OF RELE   | EASE  |                           |                         |  |                                 |
| Type of Rele   | ease: Natura                     | al Gas                          | nal correct                |                                    |                       | Volume of   | f Release: Un                                       | known                     | Volume F                | Recovered: Unk                         | nown                            |
| Source of R  |                                  |                                 | nai corros                 | on<br>                             |                       | 7/2/2014  | <b>@ 12:30 p.m</b> .                                | rrence:                   | @ 1:30 p                | Hour of Discov                         | ery: //2/2014                   |
| Was Immed  | iate Notice                      | Given?                          | T Yes                      |                                    | Not                   | If YES, To Whom? Courtesy Notification to NMOCD – Cory Smith,<br>NAPI: Steve Austin - NNEPA |   |                           |                         |  |                                 |
| Required   |                                  |                                 |                            |                                    | 101                   |   |   |                           |                         |  |                                 |
| By Whom?   | Thomas Lo                        | ng                              |                            |                                    |                       | Date and  | Hour Courtes  | y Notifica                | tion 7/9/20             | 14 @10:15 a.m                          | i. ·                            |
| vvas a vvale   | icourse rea                      | acheur                          | 🗋 Yes                      | 🛛 No                               |                       |   | nume impacti  | ing the wa                | alercourse              |  |                                 |
| If a Waterco   | urse was In                      | npacted. De:                    | scribe Full                | v.*                                |                       |   |   |                           |                         |  |                                 |
| Describe Ca  | use of Prob                      | lem and Re                      | medial Ac                  | tion: Enterpris                    | e perso               | onnel respon  | ded a possibl                                       | e line leal               | c on the G              | CU #273 Well T                         | ie/Lateral                      |
| approximate  | ely two (2) fe                   | et wide by s                    | six (6) feet               | long was deple                     | cted. T               | he repairs w  | ere complete  | d on July                 | 19, 2014.               | surface area or                        |                                 |
|  | •                                |                                 |                            |                                    |                       |   |   |                           |                         |  |                                 |
| Describe Ar  | an Affantad                      | and Cleanu                      | n Antion T                 | akan * Tha r                       |                       |   | ad an July 10                                       | 0044 T                    |                         |  |                                 |
| approximate  | ea Allected<br>ely fifty (50 f   | eet long by t                   | en (10) fe                 | aken: The re<br>et wide by five    | epairs v<br>e (5) fee | et deep. The  | ed on July 19<br>stockpile soil                     | was sam                   | pled to det             | ermine contami                         | red<br>nant                     |
| concentration standards a  | ns. Laborat<br>nd stockpile      | ory analysis<br>soils were ι    | indicated<br>used as ba    | contaminant o<br>ckfill. A third : | concen<br>partv e     | trations were   | below New New New New New New New New New Ne        | vexico Oil<br>Arrective a | Conserva                | ition Division re<br>rt is included wi | nediation<br>th this "final"    |
| <u>c-14</u> 1.   | 415 - Ala at Ala a               |                                 |                            |                                    |                       |   |   |                           |                         |  |                                 |
| rules and re   | gulations al                     | l operators a                   | given abov<br>are require  | d to report and                    | comple<br>d/or file   | ete to the bes<br>e certain relea   | ase notificatio                                     | ledge and<br>ns and pe    | erform corr             | ective actions for                     | or releases                     |
| which may e  | endanger pu<br>operator of li    | ublic health c<br>ability shoul | or the envi<br>d their ope | ronment. The<br>rations have       | accep                 | tance of a C-<br>o adequately   | <ul> <li>141 report by<br/>investigate a</li> </ul> | the NMC nd remed          | CD marke<br>iate contar | ed as "Final Rep<br>mination that po   | ort" does not<br>se a threat to |
| ground wate  | er, surface w                    | vater, humar                    | health or                  | the environm                       | ent. In               | addition, NN  | AOCD accept   | ance of a                 | C-141 rep               | ort does not reli                      | eve the                         |
| operator of responsibility for compliance with any other federal, state, of local laws and/of regula |                                  |                                 |                            |                                    | NSER\                 | /ATION  | DIVISION  | $\sim$                    |                         |  |                                 |
| Signature:   |                                  |                                 |                            |                                    |                       | /   | 7 1   | - 1                       |                         |  |                                 |
| Drinted Name: Ivan W. Zirbes   |                                  |                                 |                            | Approved by                        | y Environmen          | ital Specia   | alist: 🤇  | mer l                     |                         |  |                                 |
|  |                                  |                                 |                            | Approval Da                        | 9/5/                  | U   | Evoiration  |                           |                         |  |                                 |
|  |                                  |                                 |                            |                                    |                       | 1   |   |                           |                         |  |                                 |
| E-mail Addr  | E-mail Address: snolan@eprod.com |                                 |                            |                                    |                       | Conditions of   | of Approval:  |                           |                         | Attached                               | ]                               |
| Date: 8  | -1- 20                           | 0/4 Ph                          | none: (713)                | ) 381-6595                         |                       |   |   |                           |                         |  |                                 |
| * Attach Addi  | tional She                       | ets If Nece                     | ssary                      |                                    |                       | Haare   | 142 LIA   | CL29                      | 52                      |  |                                 |
|  |                                  |                                 |                            |                                    | 7                     | 11003   | 1-10-11   |                           | هسيكنا                  | ()                                     | 36)                             |

Enterprise Products Lateral 3E-1/ GCU #273 Pipeline Release Latitude North 36.62277°, Longitude West -108.14437° Unit A Section 31 T28N R12W San Juan County, New Mexico July 23, 2014



#### Submitted To:

Enterprise Products Field Environmental-San Juan Basin 614 Reilly Avenue Farmington, NM 87401

#### Submitted By:

Souder, Miller & Associates 401 West Broadway Farmington, NM 87401 (505) 325-7535



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#### 1.0 Executive Summary

On July 1 and 2, 2014, Souder, Miller & Associates (SMA) responded to a hydrocarbon release associated with the Katherine Pierce #1 well tie pipeline release. The table below summarizes information about the release and remediation activities.

| TABLE 1: RELEASE INFORMATION |                     |   |                                       |                                       |  |  |
|------------------------------|---------------------|---|---------------------------------------|---------------------------------------|--|--|
| Name                         | L                   | ateral 3E-1/ GCL                          | J #273 Pipeline Rel                   | ease                                  |  |  |
|                              | Latitude            | Latitude/Longitude Section, Township, Ran |                                       |                                       |  |  |
| Location                     |                     |   | Unit A                                |                                       |  |  |
|                              | 36.62277°           | -108.14437°                               | (NE 1/4 /NE 1/4 )                     | T28N, R12W                            |  |  |
| Data Davisitad               | hub 0 0044          | 1   | Section 31                            |                                       |  |  |
| Date Reported                | July 2, 2014        |   |                                       |                                       |  |  |
| Reported by                  | Tom Long            |   |                                       |                                       |  |  |
| Land Owner                   | Navajo Allotte      | ed Land                                   |                                       |                                       |  |  |
| Reported To                  | New Mexico          | Oil Conservation                          | Division (NMOCD)                      | · · · · · · · · · · · · · · · · · · · |  |  |
| Diameter of Pipeline         | 4 inch              |   |                                       |                                       |  |  |
| Source of Release            | Internal Corro      | osion                                     |                                       |                                       |  |  |
| Release Contents             | Natural Gas/0       | Condensate                                |                                       |                                       |  |  |
| Release Volume:              |                     |   |                                       |                                       |  |  |
| Natural Gas                  | UNKNOWN             |   |                                       |                                       |  |  |
| Release Volume:              |                     |   |                                       |                                       |  |  |
| Liquids/Condensate           | Onknown             |   |                                       |                                       |  |  |
| Nearest Waterway             | Unnamed Tri         | butary Wash of C                          | Sallegos Canyon W                     | ash                                   |  |  |
| Depth to                     | Less than 50        | foot                                      |                                       |                                       |  |  |
| Groundwater                  |                     |   |                                       |                                       |  |  |
| Nearest Domestic             | Greater than 1 mile |   |                                       |                                       |  |  |
| Water Source                 |                     |   |                                       | <u> </u>                              |  |  |
| NMOCD Ranking                | 40                  |   |                                       |                                       |  |  |
| SMA Response                 | .luly 17 2014       |   |                                       |                                       |  |  |
| Dates                        | ouly 11, 2011       |   |                                       |                                       |  |  |
| Subcontractors               | West States E       | Energy (WSEC)                             |                                       |                                       |  |  |
| Disposal Facility            | Not Applicabl       | e   | · · · · · · · · · · · · · · · · · · · |                                       |  |  |
| Yd <sup>3</sup> Contaminated |                     |   |                                       |                                       |  |  |
| Soil Excavated and           | il Excavated and 0  |   |                                       |                                       |  |  |
| Disposed                     |                     |   |                                       |                                       |  |  |

#### 2.0 Introduction

On behalf of Enterprise Products Operating, LLC. (Enterprise), SMA has prepared this report that describes remediation of a hydrocarbon release associated with the Lateral

3E-1/ Gallegos Canyon Unit (GCU) #273 pipeline release. The release was due to internal corrosion of the 4-inch, underground lateral pipeline segment. An unknown amount of natural gas and liquids/condensate was released. The release was reported on July 2, 2014 and was located in Unit A (NE¼ /NE ¼), Section 31, Township 28 North, Range 12 West, 36.62277°, -108.14437°, San Juan County, New Mexico. Figure 1, Vicinity Map, illustrates the location of the release.

#### 3.0 Site Ranking and Land Jurisdiction

The release site is located approximately 60 feet south of an unnamed tributary wash of the Gallegos Canyon Wash on land owned by the Navajo Tribe located approximately 5,620 feet above sea level. After evaluation of the site using aerial photography and topographic maps, depth to groundwater is estimated to be less than 50 feet below ground surface (bgs).

SMA searched the New Mexico State Engineer's Office online water well data base for water wells in the vicinity of the release. No recorded wells were located within 1,000 feet of the release site and no wells were located within a 1 mile radius of the site.

The physical location of this release is within the jurisdiction of NMOCD. This release location has been assigned a NMOCD ranking of 40, which requires a soil remediation standard of 10 parts per million (ppm) benzene, 50 ppm total benzene, toluene, ethylbenzene, and total xylenes (BTEX), and 100 ppm total petroleum hydrocarbons (TPH). Table 2 illustrates site ranking rationale.

#### 4.0 Summary of Field Activities

On July 17, 2014 SMA visited the release site to oversee excavation of the pipeline During the excavation, SMA delineated the release area during repair activities. through field screening using a calibrated photoionization detector (PID). The excavation of subsurface pipeline and repairs were performed by West States Energy Contractors (WSEC) using a rubber tired backhoe. During the excavation event, soil samples were collected for field screening to determine the extent of the release and to further guide the excavation. On July 17, 2014, laboratory samples were collected from the base of the excavation at 5 feet bgs and submitted for rush (24 hour) analysis. The final excavation measured approximately 50 feet long by 10 feet wide with maximum excavation depth of approximately 5 feet below ground surface where sandstone bedrock was encountered. The estimated area of impact from the pipeline release measured approximately 6 square feet based on visual observation. The additional excavation was solely for repair activities. Table 3 summarizes the field screening results. Field notes are included in Appendix A.

Field screening of the excavated material determined that the soils removed were suitable for use as backfill material. Laboratory analysis further confirmed the use of the stockpiled material for backfill. No soils were exported off site for disposal.

All laboratory soil samples were field screened with a calibrated PID. No samples exceeded field screening criteria. Samples were submitted for laboratory analysis per United States Environmental Protection Agency Method 8021 BTEX, and 8015 Diesel Range Organics (DRO) and Gasoline Range Organics (GRO) to Hall Environmental Analysis Laboratory of Albuquerque, New Mexico for conformation analysis. Figure 3 illustrates the extent of the excavation and laboratory results.

#### 5.0 Conclusions and Recommendations

As noted in Section 3.0 of this report, NMOCD Guidelines for Remediation of Leaks, Spills, and Releases have established the following action levels for contaminants of concern with a site ranking of 40: 10 ppm benzene, 50 ppm total BTEX, and 100 ppm TPH. Laboratory analytical results were below the NMOCD Guidelines for benzene, total BTEX, and TPH (GRO/DRO) for the all samples collected on July 17, 2014 except the sample collected from the base of the excavation, just below the pipeline release point at 5 feet bgs. Laboratory analytical results for the base sample detected DRO at 110 mg/kg, 10 ppm above NMOCD Guidelines. All other parameters and additional samples were below practical laboratory detection limits. Enterprise Products contacted NMOCD and discussed the laboratory results and site characteristics. The discussion determined a DRO concentration of 10 ppm above guidelines in the sandstone bedrock was inconsequential. Soil contaminant concentrations are illustrated in Figure 3. A summary of laboratory analysis is included in Table 4. Laboratory report is included in Appendix D.

SMA believes that there is no immediate threat to groundwater or ephemeral surface water given the concentration of DRO in the bedrock of the excavation. Soil samples from the base of the excavation at a depth of 5 feet bgs were collected from competent sandstone. Additionally, the longer chain DRO compounds are less likely to migrate in the subsurface than volatile organics, which are below laboratory detection levels. SMA recommends on future action at the release site.

#### 6.0 Closure and Limitations

The scope of our services consisted of the performance of a preliminary spill assessment, regulatory liaison, contractor oversight and control of remediation operations, disposal arrangements and documentation, project management and preparation of this summary report. All work has been performed in accordance with generally accepted professional environmental consulting practices.

If there are any questions regarding this report, please contact either Steve Moskal or Reid Allan at 505-325-7535.

Submitted by:

Reviewed by:

SOUDER, MILLER & ASSOCIATES

Steve Moskal Project Scientist

l. alle

Reid S. Allan, PG Principal Scientist

FIGURES





P:5-Enterprise MSA (2014) 5122855\SPILL RESPONSE\BG30 - Lateral 3E-1\CAD\ChinLateral 3E-1 Map.dwg, SJM, 7/22/2014 4:49 PM



TABLES

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### Enterprise Products Table 2: Site Ranking

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| Depth to Groundwater   | NMOCD Numeric<br>Rank for this Site | Source for Ranking                     | Notes  |  |
|--|-------------------------------------|--|--|--|
| < 50 BGS = 20  | 20                                  | Verified using Google                  | Groundwater is assumed to be   |  |
| 50' to 99' = 10  |                                     | Earth and topo maps:<br>field verified | between 10 to 50<br>feet below ground<br>surface                                     |  |
| >100' = 0  |                                     | · · · · · · · · · · · · · · · · · · ·  |  |  |
| Ranking Criteria for Horizontal Distance<br>to Nearest Surface Water           | NMOCD Numeric<br>Rank for this Site | Source for Ranking                     | Notes  |  |
| < 200' = 20  | 20                                  |  | A unnamed tributary  |  |
| 200' - 1000' = 10  |                                     | Earth and topo maps:<br>field verified | of the Gallegos wash<br>is <200' away from<br>the release                            |  |
| >1000' = 0   |                                     |  |  |  |
| Ranking Criteria for Horizintal Distance<br>to a Water Well or Water Source    | NMOCD Numeric<br>Rank for this Site | Source for Ranking                     | Notes  |  |
| <1000' from a water source? <200' from a private domestic water source? YES OR | 0                                   | New Mexico State<br>Engineer's Office  | There are no<br>recorded wells within<br>Sections 28, 29, 30 or<br>32 of T28N, R12W. |  |
| NO to BOTH. YES = 20, NO = 0   |                                     | online water well data<br>base         |  |  |
|  |                                     | L                                      |  |  |
| I otal Site Ranking  |                                     |  | 40   |  |
| ·····  | ·                                   |  |  |  |
| Soil Remedation Standards  | 0 to 9                              | 10 to 19                               | >19  |  |
|  |                                     |  |  |  |
| Benzene  | 10 PPM                              | 10 PPM                                 | 10 PPM   |  |
| BTEX   | 50 PPM                              | 50 PPM                                 | 50 PPM   |  |
| ТРН  | 5000 PPM                            | 1000 PPM                               | 100 PPM  |  |



#### **Enterprise Productions**

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| FIELD SCREENING RESULTS SUMMARY |       |                           |                            |             |                             |  |  |  |
|---------------------------------|-------|---------------------------|----------------------------|-------------|-----------------------------|--|--|--|
| Date                            | Time  | Field Screening Reference | Sample Depth<br>(Feet BGS) | PID Reading | Lab Sample<br>Collected Y/N |  |  |  |
| 7/17/2014                       | 12:15 | Base @ Realase Point (RP) | 5                          | 2.4         | Y                           |  |  |  |
| 7/17/2014                       | 12:16 | W. Base (~12' from RP)    | 0-4.5                      | 1.7         | Y                           |  |  |  |
| 7/17/2014                       | 12:17 | N. Wall                   | 0-4.5                      | 1.4         | Y                           |  |  |  |
| 7/17/2014                       | 12:18 | S. Wall                   | 0-4.5                      | 1.7         | Y                           |  |  |  |
| 7/17/2014                       | 12:19 | E. Wall                   | 0-4.5                      | 1.2         | Y                           |  |  |  |
| 7/17/2014                       | 12:45 | Stockpile                 | N/A                        | 0           | Y                           |  |  |  |

## Table 3: Summary of Excavation Field Screening Results



### Enterprise Products Table 4: Summary of Laboratory Analysis Results in mg/Kg

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| Date             | Time  | Sample ID                       | Sample Depth<br>(Feet BGS) | Method<br>8015 GRO | Method<br>8015 DRO | Method<br>8021<br>Benzene | Method<br>8021 BTEX |
|------------------|-------|---------------------------------|----------------------------|--------------------|--------------------|---------------------------|---------------------|
| NMOCD Guidelines |       | NMOCD Site Rankin               | g:                         | 100 ppm            |                    | 10 ppm                    | 50 ppm              |
| 7/17/2014        | 12:15 | SC-1: Base @ Release Point (RP) | 5                          | <4.1               | 110                | < 0.041                   | <0.081              |
| 7/17/2014        | 12:16 | SC-2: W. Base (~12' from RP)    | 0-4.5                      | <4.4               | <9.9               | <0.044                    | <0.088              |
| 7/17/2014        | 12:17 | SC-3: N. Wall                   | 0-4.5                      | <3.9               | <9.9               | <0.039                    | <0.078              |
| 7/17/2014        | 12:18 | SC-4: S. Wall                   | 0-4.5                      | <4.0               | <9.8               | <0.040                    | <0.081              |
| 7/17/2014        | 12:19 | SC-5: E. Wall                   | 0-4.5                      | <4.3               | <10                | <0.043                    | <0.085              |
| 7/17/2014        | 12:45 | Stockpile                       | N/A                        | <3.8               | <9.8               | <0.038                    | <0.075              |



## **APPENDIX A**

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## **FIELD NOTES**

| <b>Release Information</b>   |                                  |  |  |  |  |
|------------------------------|----------------------------------|--|--|--|--|
| Name                         | Lateral 3E-1/GCU#273             |  |  |  |  |
|                              | Latitude/Longitude               |  |  |  |  |
| location                     | 36.62277, -108.14437             |  |  |  |  |
| Location                     | Section, Township, Range         |  |  |  |  |
|                              | NE[NE, 831, T28N, R12W           |  |  |  |  |
| Reported To                  | Tom Long                         |  |  |  |  |
| Area Supervisor              | M.E. Eddleman                    |  |  |  |  |
| Diameter of<br>Pipeline      | 4"                               |  |  |  |  |
| Source of<br>Release         | Corrosion                        |  |  |  |  |
| Release<br>Contents          | NG & condensate liquid (minimal) |  |  |  |  |
| Release Volume               | unknown                          |  |  |  |  |
| Subcontractor                | WSEC                             |  |  |  |  |
| Disposal Facility            | Envirotich                       |  |  |  |  |
| Yd <sup>3</sup> Contam. Soil |                                  |  |  |  |  |
| PO/WO/AFE                    |                                  |  |  |  |  |

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| Post            |                   |                     |                |                       |                      |  |  |  |
|-----------------|-------------------|---------------------|----------------|-----------------------|----------------------|--|--|--|
| Field Screening |                   |                     |                |                       |                      |  |  |  |
|                 | Location Name     |                     |                | Date                  |                      |  |  |  |
| lateral         | 3E-1/GCU #=       | 273                 |                | 7/17/1                | 4                    |  |  |  |
| Location Name   | Description       | Depth (Feet<br>BGS) | Time Collected | ,<br>Time<br>Screened | PID Reading<br>(ppm) |  |  |  |
| £C-1            | Basi QRP          | 5'                  | 1215           | 1226                  | 2.4                  |  |  |  |
| <u>SC-2</u>     | W Base (Apport24) | 4.5°<br>om RP)      | 1216           | 1227                  | 1.7                  |  |  |  |
| SC-3            | Nuall             | 0-4.5               | 1217           | 1228                  | 1.4                  |  |  |  |
| 8-4             | Suall             | 64.5                | 481218         | 1229                  | 1.7                  |  |  |  |
| SC-5            | telE wall         | 24.5                | 1219           | 1230                  | 1.2                  |  |  |  |
| jc-6            | Stockpile         | NA                  | 1245           | 1366                  | 0                    |  |  |  |
|                 |                   |                     |                |                       |                      |  |  |  |
|                 |                   |                     |                |                       |                      |  |  |  |
|                 |                   |                     |                |                       |                      |  |  |  |
|                 |                   |                     |                |                       |                      |  |  |  |
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|                 |                   |                     |                |                       |                      |  |  |  |

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### APPENDIX B

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SITE PHOTOGRAPHY



Site Photographs Enterprise Products Lateral 3E-1/GCU #273 Pipeline Release

Photo 1: View of the pipeline release point facing north.



Photo 2: View of the extent of the excavation, facing west.



Site Photographs Enterprise Products Lateral 3E-1/GCU #273 Pipeline Release

Photo 3: View of pipeline repair activities, facing northwest

### **APPENDIX C**

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### LABORATORY ANALYTICAL REPORTS

### HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

July 21, 2014

Steve Moskal Souder, Miller and Associates 401 W. Broadway Farmington, NM 87401 TEL: (505) 325-5667 FAX

RE: Lateral 3E-1/GCU#273

OrderNo.: 1407843

Dear Steve Moskal:

Hall Environmental Analysis Laboratory received 6 sample(s) on 7/18/2014 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <u>www.hallenvironmental.com</u> or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates Lateral 3E-1/GCU#273 Project:

Lab ID: 1407843-001

Client Sample ID: SC-1 Base @ RP Collection Date: 7/17/2014 12:15:00 PM Matrix: MEOH (SOIL)

| Analyses                      | Result | RL Qı    | ial Units | DF | Date Analyzed         | Batch  |
|-------------------------------|--------|----------|-----------|----|-----------------------|--------|
| EPA METHOD 8015D: DIESEL RANG |        |          |           |    | Analyst               | JME    |
| Diesel Range Organics (DRO)   | 83.    | 10       | mg/Kg     | 1  | 7/19/2014 1:52:38 PM  | 14315  |
| Surr: DNOP                    | 79.6   | 57.9-140 | %REC      | 1  | 7/19/2014 1:52:38 PM  | 14315  |
| EPA METHOD 8015D: GASOLINE RA | NGE    |          |           |    | Analyst               | NSB    |
| Gasoline Range Organics (GRO) | ND     | 4.1      | mg/Kg     | 1  | 7/18/2014 10:38:58 AM | R19983 |
| Surr: BFB                     | 98.7   | 80-120   | %REC      | 1  | 7/18/2014 10:38:58 AM | R19983 |
| EPA METHOD 8021B: VOLATILES   |        |          |           |    | Analyst               | NSB    |
| Benzene                       | ND     | 0.041    | mg/Kg     | 1  | 7/18/2014 10:38:58 AM | R19983 |
| Toluene                       | ND     | 0.041    | mg/Kg     | 1  | 7/18/2014 10:38:58 AM | R19983 |
| Ethylbenzene                  | ND     | 0.041    | mg/Kg     | 1  | 7/18/2014 10:38:58 AM | R19983 |
| Xylenes, Total                | ND     | 0.081    | mg/Kg     | 1  | 7/18/2014 10:38:58 AM | R19983 |
| Surr: 4-Bromofluorobenzene    | 101    | 80-120   | %REC      | 1  | 7/18/2014 10:38:58 AM | R19983 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| Qualifiers: | * | Value exceeds Maximum Contaminant Level.        | В  | Analyte detected in the associated Meth  | od Blank     |
|-------------|---|---|----|--|--------------|
|             | Е | Value above quantitation range                  | Н  | Holding times for preparation or analysi | is exceeded  |
|             | J | Analyte detected below quantitation limits      | ND | Not Detected at the Reporting Limit      | Page 1 of 10 |
|             | 0 | RSD is greater than RSDlimit                    | Р  | Sample pH greater than 2.                | ruge i or io |
|             | R | RPD outside accepted recovery limits            | RL | Reporting Detection Limit                |              |
|             | S | Spike Recovery outside accepted recovery limits |    |  |              |

Received Date: 7/18/2014 7:35:00 AM

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

 Project:
 Lateral 3E-1/GCU#273

 Lab ID:
 1407843-002

Client Sample ID: SC-2 W Base @ 4.5' Collection Date: 7/17/2014 12:16:00 PM Matrix: MEOH (SOIL) Received Date: 7/18/2014 7:35:00 AM

| Analyses                       | Result     | RL Qu    | al Units | DF | Date Analyzed         | Batch  |
|--------------------------------|------------|----------|----------|----|-----------------------|--------|
| EPA METHOD 8015D: DIESEL RANGI | E ORGANICS |          |          |    | Analyst               | BCN    |
| Diesel Range Organics (DRO)    | ND         | 9.9      | mg/Kg    | 1  | 7/18/2014 12:01:55 PM | 14297  |
| Surr: DNOP                     | 82.5       | 57.9-140 | %REC     | 1  | 7/18/2014 12:01:55 PM | 14297  |
| EPA METHOD 8015D: GASOLINE RA  | NGE        |          |          |    | Analyst:              | NSB    |
| Gasoline Range Organics (GRO)  | ND         | 4.4      | mg/Kg    | 1  | 7/18/2014 11:09:13 AM | R19983 |
| Surr: BFB                      | 108        | 80-120   | %REC     | 1  | 7/18/2014 11:09:13 AM | R19983 |
| EPA METHOD 8021B: VOLATILES    |            |          |          |    | Analyst:              | NSB    |
| Benzene                        | ND         | 0.044    | mg/Kg    | 1  | 7/18/2014 11:09:13 AM | R19983 |
| Toluene                        | ND         | 0.044    | mg/Kg    | 1  | 7/18/2014 11:09:13 AM | R19983 |
| Ethylbenzene                   | ND         | 0.044    | mg/Kg    | 1  | 7/18/2014 11:09:13 AM | R19983 |
| Xylenes, Total                 | ND         | 0.088    | mg/Kg    | 1  | 7/18/2014 11:09:13 AM | R19983 |
| Surr: 4-Bromofluorobenzene     | 118        | 80-120   | %REC     | 1  | 7/18/2014 11:09:13 AM | R19983 |

| Qualifiers: | * | Value exceeds Maximum Contaminant Level.        | В  | Analyte detected in the associated Meth | od Blank      |
|-------------|---|---|----|---|---------------|
|             | Е | Value above quantitation range                  | Н  | Holding times for preparation or analys | is exceeded   |
|             | J | Analyte detected below quantitation limits      | ND | Not Detected at the Reporting Limit     | Page 2 of 10  |
|             | 0 | RSD is greater than RSDlimit                    | Р  | Sample pH greater than 2.               | 1 456 2 01 10 |
|             | R | RPD outside accepted recovery limits            | RL | Reporting Detection Limit               |               |
|             | S | Spike Recovery outside accepted recovery limits |    |   |               |
|             |   |   |    |   |               |

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller and Associates

 Project:
 Lateral 3E-1/GCU#273

 Lab ID:
 1407843-003

.

Client Sample ID: SC-3 N Wall 0-4.5' Collection Date: 7/17/2014 12:17:00 PM

Matrix: MEOH (SOIL) Received Date: 7/18/2014 7:35:00 AM

| Analyses                       | Result   | RL Qu    | al Units | DF | Date Analyzed         | Batch  |
|--------------------------------|----------|----------|----------|----|-----------------------|--------|
| EPA METHOD 8015D: DIESEL RANGE | ORGANICS |          |          |    | Analyst               | BCN    |
| Diesel Range Organics (DRO)    | ND       | 9.9      | mg/Kg    | 1  | 7/18/2014 12:33:25 PM | 14297  |
| Surr: DNOP                     | 84.6     | 57.9-140 | %REC     | 1  | 7/18/2014 12:33:25 PM | 14297  |
| EPA METHOD 8015D: GASOLINE RAN | IGE      |          |          |    | Analyst:              | NSB    |
| Gasoline Range Organics (GRO)  | ND       | 3.9      | mg/Kg    | 1  | 7/18/2014 11:39:25 AM | R19983 |
| Surr: BFB                      | 98.1     | 80-120   | %REC     | 1  | 7/18/2014 11:39:25 AM | R19983 |
| EPA METHOD 8021B: VOLATILES    |          |          |          |    | Analyst:              | NSB    |
| Benzene                        | ND       | 0.039    | mg/Kg    | 1  | 7/18/2014 11:39:25 AM | R19983 |
| Toluene                        | ND       | 0.039    | mg/Kg    | 1  | 7/18/2014 11:39:25 AM | R19983 |
| Ethylbenzene                   | ND       | 0.039    | mg/Kg    | 1  | 7/18/2014 11:39:25 AM | R19983 |
| Xylenes, Total                 | ND       | 0.078    | mg/Kg    | 1  | 7/18/2014 11:39:25 AM | R19983 |
| Surr: 4-Bromofluorobenzene     | 99.5     | 80-120   | %REC     | 1  | 7/18/2014 11:39:25 AM | R19983 |

|             | -  |   |    |  |              |
|-------------|--|---|----|--|--------------|
| Qualifiers: | ifiers: * Value exceeds Maximum Contaminant Level. |   | В  | Analyte detected in the associated Meth  | od Blank     |
|             | E  | Value above quantitation range                  | Н  | Holding times for preparation or analysi | s exceeded   |
|             | J Analyte detected below quantitation limits       |   | ND | Not Detected at the Reporting Limit      | Page 3 of 10 |
|             | 0  | RSD is greater than RSDlimit                    | Р  | Sample pH greater than 2.                |              |
|             | R  | RPD outside accepted recovery limits            | RL | Reporting Detection Limit                |              |
|             | S  | Spike Recovery outside accepted recovery limits |    |  |              |
|             |  |   |    |  |              |

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller and Associates

#### **Project:** Lateral 3E-1/GCU#273 Lab ID: 1407843-004

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#### Client Sample ID: SC-4 S Wall 0-4.5' Collection Date: 7/17/2014 12:18:00 PM Matrix: MEOH (SOIL) Received Date: 7/18/2014 7:35:00 AM

| Analyses                         | Result  | RL Qu    | ual Units | DF | Date Analyzed         | Batch  |
|----------------------------------|---------|----------|-----------|----|-----------------------|--------|
| EPA METHOD 8015D: DIESEL RANGE O | RGANICS |          |           |    | Analyst               | BCN    |
| Diesel Range Organics (DRO)      | ND      | 9.8      | mg/Kg     | 1  | 7/18/2014 1:04:48 PM  | 14297  |
| Surr: DNOP                       | 81.8    | 57.9-140 | %REC      | 1  | 7/18/2014 1:04:48 PM  | 14297  |
| EPA METHOD 8015D: GASOLINE RANG  | E       |          |           |    | Analyst               | : NSB  |
| Gasoline Range Organics (GRO)    | ND      | 4.0      | mg/Kg     | 1  | 7/18/2014 12:09:22 PM | R19983 |
| Surr: BFB                        | 110     | 80-120   | %REC      | 1  | 7/18/2014 12:09:22 PM | R19983 |
| EPA METHOD 8021B: VOLATILES      |         |          |           |    | Analyst               | : NSB  |
| Benzene                          | ND      | 0.040    | mg/Kg     | 1  | 7/18/2014 12:09:22 PM | R19983 |
| Toluene                          | ND      | 0.040    | mg/Kg     | 1  | 7/18/2014 12:09:22 PM | R19983 |
| Ethylbenzene                     | ND      | 0.040    | mg/Kg     | 1  | 7/18/2014 12:09:22 PM | R19983 |
| Xylenes, Total                   | ND      | 0.081    | mg/Kg     | 1  | 7/18/2014 12:09:22 PM | R19983 |
| Surr: 4-Bromofluorobenzene       | 119     | 80-120   | %REC      | 1  | 7/18/2014 12:09:22 PM | R19983 |

| Oualifiers: | * | Value exceeds Maximum Contaminant Level.        | В  | Analyte detected in the associated Meth  | od Blank      |
|-------------|---|---|----|--|---------------|
| <b>x</b>    | E | Value above quantitation range                  | Н  | Holding times for preparation or analysi | is exceeded   |
|             | J | Analyte detected below quantitation limits      | ND | Not Detected at the Reporting Limit      | Page 4 of 10  |
|             | 0 | RSD is greater than RSDlimit                    | Р  | Sample pH greater than 2.                | 1 age + 01 10 |
|             | R | RPD outside accepted recovery limits            | RL | Reporting Detection Limit                |               |
|             | S | Spike Recovery outside accepted recovery limits |    |  |               |
|             |   |   |    |  |               |

Analytical Report
Lab Order 1407843

Date Reported: 7/21/2014

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Project: Lateral 3E-1/GCU#273

#### Client Sample ID: SC-5 E Wall 0-4.5' Collection Date: 7/17/2014 12:19:00 PM

Lab ID: 1407843-005

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Received Date: 7/18/2014 7:35:00 AM

| Analyses                      | Result      | RL Qu    | al Units | DF | Date Analyzed         | Batch  |
|-------------------------------|-------------|----------|----------|----|-----------------------|--------|
| EPA METHOD 8015D: DIESEL RANG | GE ORGANICS |          |          |    | Analyst               | BCN    |
| Diesel Range Organics (DRO)   | ND          | 10       | mg/Kg    | 1  | 7/18/2014 1:36:13 PM  | 14297  |
| Surr: DNOP                    | 77.7        | 57.9-140 | %REC     | 1  | 7/18/2014 1:36:13 PM  | 14297  |
| EPA METHOD 8015D: GASOLINE RA | ANGE        |          |          |    | Analyst               | : NSB  |
| Gasoline Range Organics (GRO) | ND          | 4.3      | mg/Kg    | 1  | 7/18/2014 12:39:23 PM | R19983 |
| Surr: BFB                     | 93.0        | 80-120   | %REC     | 1  | 7/18/2014 12:39:23 PM | R19983 |
| EPA METHOD 8021B: VOLATILES   |             |          |          |    | Analyst               | NSB    |
| Benzene                       | ND          | 0.043    | mg/Kg    | 1  | 7/18/2014 12:39:23 PM | R19983 |
| Toluene                       | ND          | 0.043    | mg/Kg    | 1  | 7/18/2014 12:39:23 PM | R19983 |
| Ethylbenzene                  | ND          | 0.043    | mg/Kg    | 1  | 7/18/2014 12:39:23 PM | R19983 |
| Xylenes, Total                | ND          | 0.085    | mg/Kg    | 1  | 7/18/2014 12:39:23 PM | R19983 |
| Surr: 4-Bromofluorobenzene    | 97.2        | 80-120   | %REC     | 1  | 7/18/2014 12:39:23 PM | R19983 |

Matrix: MEOH (SOIL)

| Qualifiers: | * | Value exceeds Maximum Contaminant Level.        | В  | Analyte detected in the associated Meth  | od Blank     |
|-------------|---|---|----|--|--------------|
|             | Е | Value above quantitation range                  | Н  | Holding times for preparation or analysi | is exceeded  |
|             | J | Analyte detected below quantitation limits      | ND | Not Detected at the Reporting Limit      | Page 5 of 10 |
|             | 0 | RSD is greater than RSDlimit                    | Р  | Sample pH greater than 2.                | ruge s or ro |
|             | R | RPD outside accepted recovery limits            | RL | Reporting Detection Limit                |              |
|             | S | Spike Recovery outside accepted recovery limits |    |  |              |
|             |   |   |    |  |              |

# **Analytical Report**

### Hall Environmental Analysis Laboratory, Inc.

Lab Order 1407843 Date Reported: 7/21/2014

**CLIENT:** Souder, Miller and Associates

Lateral 3E-1/GCU#273 **Project:** 1407843-006 Lab ID:

Client Sample ID: SC-6 Stockpile Collection Date: 7/17/2014 12:45:00 PM Matrix: MEOH (SOIL)

Received Date: 7/18/2014 7:35:00 AM

| Analyses                      | Result      | RL Qu    | al Units | DF | Date Analyzed        | Batch  |
|-------------------------------|-------------|----------|----------|----|----------------------|--------|
| EPA METHOD 8015D: DIESEL RANG | GE ORGANICS |          |          |    | Analys               | : BCN  |
| Diesel Range Organics (DRO)   | ND          | 9.8      | mg/Kg    | 1  | 7/18/2014 2:07:30 PM | 14297  |
| Surr: DNOP                    | 72.0        | 57.9-140 | %REC     | 1  | 7/18/2014 2:07:30 PM | 14297  |
| EPA METHOD 8015D: GASOLINE RA | ANGE        |          |          |    | Analys               | : NSB  |
| Gasoline Range Organics (GRO) | ND          | 3.8      | mg/Kg    | 1  | 7/18/2014 1:09:40 PM | R19983 |
| Surr: BFB                     | 105         | 80-120   | %REC     | 1  | 7/18/2014 1:09:40 PM | R19983 |
| EPA METHOD 8021B: VOLATILES   |             |          |          |    | Analyst              | : NSB  |
| Benzene                       | ND          | 0.038    | mg/Kg    | 1  | 7/18/2014 1:09:40 PM | R19983 |
| Toluene                       | ND          | 0.038    | mg/Kg    | 1  | 7/18/2014 1:09:40 PM | R19983 |
| Ethylbenzene                  | ND          | 0.038    | mg/Kg    | 1  | 7/18/2014 1:09:40 PM | R19983 |
| Xylenes, Total                | ND          | 0.075    | mg/Kg    | 1  | 7/18/2014 1:09:40 PM | R19983 |
| Surr: 4-Bromofluorobenzene    | 113         | 80-120   | %REC     | 1  | 7/18/2014 1:09:40 PM | R19983 |

|             |   |   | and the second se |  |               |
|-------------|---|---|---|--|---------------|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level.        | В   | Analyte detected in the associated Meth  | od Blank      |
|             | Е | Value above quantitation range                  | Н   | Holding times for preparation or analysi | is exceeded   |
|             | J | Analyte detected below quantitation limits      | ND  | Not Detected at the Reporting Limit      | Page 6 of 10  |
|             | 0 | RSD is greater than RSDlimit                    | Р   | Sample pH greater than 2.                | 1 age 0 01 10 |
|             | R | RPD outside accepted recovery limits            | RL  | Reporting Detection Limit                |               |
|             | S | Spike Recovery outside accepted recovery limits |   |  |               |
|             |   |   |   |  |               |

### QC SUMMÁRY REPORT Hall Environmental Analysis Laboratory, Inc.

| Client:<br>Project: | Souder, N<br>Lateral 31 | filler and Ass<br>E-1/GCU#272 | ociates |         |             |          |           |              |            |          |      |
|---------------------|-------------------------|-------------------------------|---------|---------|-------------|----------|-----------|--------------|------------|----------|------|
| Sample ID           | MB-14297                | SampType                      | MBLK    |         | Tes         | tCode: E | PA Method | 8015D: Dies  | el Range C | Drganics |      |
| Client ID:          | PBS                     | Batch ID                      | 14297   |         | · F         | RunNo: 1 | 9942      |              |            |          |      |
| Prep Date:          | 7/18/2014               | Analysis Date                 | 7/18/2  | 014     | S           | SeqNo: 5 | 80565     | Units: mg/K  | g          |          |      |
| Analyte             |                         | Result P                      | QL SP   | K value | SPK Ref Val | %REC     | LowLimit  | HighLimit    | %RPD       | RPDLimit | Qual |
| Diesel Range (      | Drganics (DRO)          | ND                            | 10      |         |             |          |           |              |            |          |      |
| Surr: DNOP          | <b></b>                 | 8.9                           |         | 10.00   |             | 89.2     | 57.9      | 140          |            |          |      |
| Sample ID           | LCS-14297               | SampType                      | LCS     |         | Tes         | tCode: E | PA Method | 8015D: Diese | el Range C | Organics |      |
| Client ID:          | LCSS                    | Batch ID                      | 14297   |         | F           | RunNo: 1 | 9942      |              |            |          |      |
| Prep Date:          | 7/18/2014               | Analysis Date                 | 7/18/2  | 014     | S           | SegNo: 5 | 80566     | Units: mg/K  | g          |          |      |
| Analyte             |                         | Result P                      | QL SP   | K value | SPK Ref Val | %REC     | LowLimit  | HighLimit    | %RPD       | RPDLimit | Qual |
| Diesel Range (      | Organics (DRO)          | 65                            | 10      | 50.00   | 0           | 130      | 68.6      | 130          |            |          | S    |
| Surr: DNOP          |                         | 4.7                           |         | 5.000   |             | 94.3     | 57.9      | 140          |            |          |      |
| Sample ID           | MB-14220                | SampType                      | BLK     |         | Tes         | tCode: E | PA Method | 8015D: Diese | el Range C | Organics |      |
| Client ID:          | PBS                     | Batch ID                      | 14220   |         | F           | RunNo: 1 | 9942      |              |            |          |      |
| Prep Date:          | 7/15/2014               | Analysis Date                 | 7/18/2  | 014     | S           | SeqNo: 5 | 80642     | Units: %RE   | с          |          |      |
| Analyte             |                         | Result P                      | QL SP   | K value | SPK Ref Val | %REC     | LowLimit  | HighLimit    | %RPD       | RPDLimit | Qual |
| Surr: DNOP          |                         | 9.0                           |         | 10.00   |             | 90.2     | 57.9      | 140          |            |          |      |
| Sample ID           | LCS-14220               | SampType                      | LCS     |         | Tes         | tCode: E | PA Method | 8015D: Diese | el Range C | Organics |      |
| Client ID:          | LCSS                    | Batch ID                      | 14220   |         | F           | RunNo: 1 | 9942      |              |            |          |      |
| Prep Date:          | 7/15/2014               | Analysis Date                 | 7/18/2  | 014     | S           | SeqNo: 5 | 80643     | Units: %RE   | с          |          |      |
| Analyte             | _                       | Result P                      | QL SP   | K value | SPK Ref Val | %REC     | LowLimit  | HighLimit    | %RPD       | RPDLimit | Qual |
| Surr: DNOP          |                         | 4.0                           |         | 5.000   |             | 80.7     | 57.9      | 140          |            |          |      |
| Sample ID           | MB-14301                | SampType                      | MBLK    |         | Tes         | tCode: E | PA Method | 8015D: Diese | el Range C | Organics |      |
| Client ID:          | PBS                     | Batch ID                      | 14301   |         | F           | RunNo: 1 | 9974      |              |            |          |      |
| Prep Date:          | 7/18/2014               | Analysis Date                 | 7/18/2  | 014     | S           | SeqNo: 5 | 81081     | Units: %RE   | с          |          |      |
| Analyte             |                         | Result P                      | QL SP   | K value | SPK Ref Val | %REC     | LowLimit  | HighLimit    | %RPD       | RPDLimit | Qual |
| Surr: DNOP          |                         | 7.4                           |         | 10.00   |             | 73.9     | 57.9      | 140          |            |          |      |
| Sample ID           | LCS-14301               | SampType                      | LCS     |         | Tes         | tCode: E | PA Method | 8015D: Diese | el Range C | Organics |      |
| Client ID:          | LCSS                    | Batch ID                      | 14301   |         | ۶           | RunNo: 1 | 9974      |              |            |          |      |
| Prep Date:          | 7/18/2014               | Analysis Date                 | 7/18/2  | 014     | S           | SeqNo: 5 | 81082     | Units: %RE   | с          |          |      |
|                     |                         |                               |         |         |             |          |           |              |            |          |      |

 Analyte
 Result
 PQL
 SPK value
 SPK Ref Val

 Surr: DNOP
 4.0
 5.000

#### Qualifiers:

1

\* Value exceeds Maximum Contaminant Level.

E Value above quantitation range

- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded

LowLimit

57.9

HighLimit

140

%RPD

RPDLimit

Page 7 of 10

Qual

ND Not Detected at the Reporting Limit

%REC

79.6

- P Sample pH greater than 2.
- RL Reporting Detection Limit

WO#: **1407843** 21-Jul-14

### QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

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WO#: 1407843

21-Jul-14

| Client:<br>Project: | Soude          | er, Miller and Ass<br>al 3E-1/GCU#27 | sociates<br>3   |             |           |           |                    |            |          |      |
|---------------------|----------------|--------------------------------------|-----------------|-------------|-----------|-----------|--------------------|------------|----------|------|
| Sample ID           | MB-14300       | SampType                             | e: MBLK         | Tes         | tCode: El | PA Method | 8015D: Diese       | el Range ( | Organics |      |
| Client ID:          | PBS            | Batch ID                             | ): <b>14300</b> | F           | RunNo: 1  | 9999      |                    |            |          |      |
| Prep Date:          | 7/18/2014      | Analysis Date                        | e: 7/19/2014    | S           | SeqNo: 5  | 81178     | Units: %RE         | С          |          |      |
| Analyte             |                | Result P                             | PQL SPK value   | SPK Ref Val | %REC      | LowLimit  | HighLimit          | %RPD       | RPDLimit | Qual |
| Surr: DNOP          | )              | 8.2                                  | 10.00           |             | 82.4      | 57.9      | 140                |            |          |      |
| Sample ID           | <br>MB-14315   | SampType                             | e: MBLK         | Tes         | tCode: El | PA Method | 8015D: Diese       | el Range ( | Organics |      |
| Client ID:          | PBS            | Batch ID                             | ): 14315        | F           | RunNo: 1  | 9999      |                    |            |          |      |
| Prep Date:          | 7/19/2014      | Analysis Date                        | e: 7/19/2014    | . 5         | SeqNo: 5  | 81179     | Units: <b>mg/K</b> | g          |          |      |
| Analyte             |                | Result P                             | PQL SPK value   | SPK Ref Val | %REC      | LowLimit  | HighLimit          | %RPD       | RPDLimit | Qual |
| Diesel Range        | Organics (DRO) | ND                                   | 10              |             |           |           |                    |            |          |      |
| Surr: DNOP          | )<br>          | 7.4                                  | 10.00           |             | 74.1      | 57.9      | 140                |            |          |      |
| Sample ID           | LCS-14300      | SampType                             | e: LCS          | Tes         | tCode: El | PA Method | 8015D: Diese       | el Range C | Drganics |      |
| Client ID:          | LCSS           | Batch ID                             | ): <b>14300</b> | F           | RunNo: 1  | 9999      |                    |            |          |      |
| Prep Date:          | 7/18/2014      | Analysis Date                        | e: 7/19/2014    | 5           | SeqNo: 5  | 81180     | Units: %RE         | с          |          |      |
| Analyte             |                | Result F                             | PQL SPK value   | SPK Ref Val | %REC      | LowLimit  | HighLimit          | %RPD       | RPDLimit | Qual |
| Surr: DNOP          | )              | 4.3                                  | 5.000           |             | 85.7      | 57.9      | 140                |            |          |      |
| Sample ID           | LCS-14315      | SampType                             | e: LCS          | Tes         | tCode: El | PA Method | 8015D: Diese       | el Range C | Drganics |      |
| Client ID:          | LCSS           | Batch ID                             | ): 14315        | F           | RunNo: 1  | 9999      |                    |            |          |      |
| Prep Date:          | 7/19/2014      | Analysis Date                        | e: 7/19/2014    | S           | SeqNo: 5  | 81181     | Units: mg/K        | g          |          |      |
| Analyte             | _              | Result F                             | PQL SPK value   | SPK Ref Val | %REC      | LowLimit  | HighLimit          | %RPD       | RPDLimit | Qual |
| Diesel Range        | Organics (DRO) | 44                                   | 10 50.00        | 0           | 88.6      | 68.6      | 130                |            |          |      |
| Surr: DNOP          | )              | 3.9                                  | 5.000           |             | 77.3      | 57.9      | 140                |            |          |      |

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

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### QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

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|               |                    |            | · · · · · ·     |           |             |                  |           |             |            |          |      |
|---------------|--------------------|------------|-----------------|-----------|-------------|------------------|-----------|-------------|------------|----------|------|
| Client:       | Souder, N          | Ailler and | Associa         | ates      |             |                  |           |             |            |          |      |
| Project:      | Lateral 31         | E-1/GCU#   | 273             |           |             |                  |           | i           |            |          |      |
| Sample ID     | 5ML RB             | SamnT      | vne: Mi         | BI K      | Tes         | tCode: E         | PA Method | 8015D: Gase | line Rang  |          |      |
|               |                    | Compi      | ypc. mit        |           | 103         |                  |           | 00150. 0450 | nine Rang  | C        |      |
| Client ID:    | PBS                | Batch      | ו ID: <b>R1</b> | 9983      | F           | RunNo: 1         | 9983      |             |            |          |      |
| Prep Date:    |                    | Analysis D | )ate: 7.        | /18/2014  | 5           | SeqNo: 5         | 81140     | Units: mg/M | ٢g         |          |      |
| Analyte       |                    | Result     | PQL             | SPK value | SPK Ref Val | %REC             | LowLimit  | HighLimit   | %RPD       | RPDLimit | Qual |
| Gasoline Rang | ge Organics (GRO)  | ND         | 5.0             |           |             |                  |           |             |            |          |      |
| Surr: BFB     |                    | 990        |                 | 1000      |             | 98.7             | 80        | 120         |            |          |      |
| Sample ID     | 2.5UG GRO LCS      | SampT      | ype: LC         | s         | Tes         | tCode: El        | PA Method | 8015D: Gasc | oline Rang | e        |      |
| Client ID:    | LCSS               | Batch      | 1D: R1          | 9983      | F           | RunNo: 1         | 9983      |             |            |          |      |
| Dran Data     |                    | Analysia D |                 | 40/004 4  |             |                  | 04444     | Linita      |            |          |      |
| Frep Date.    |                    | Analysis   | ate. T          | 10/2014   |             | 5eqino. <b>3</b> | 81141     | Units: mg/r | g          |          |      |
| Analyte       |                    | Result     | PQL             | SPK value | SPK Ref Val | %REC             | LowLimit  | HighLimit   | %RPD       | RPDLimit | Qual |
| Gasoline Rang | ge Organics (GRO)  | 28         | 5.0             | 25.00     | 0           | 111              | 71.7      | 134         |            |          |      |
| Surr: BFB     |                    | 1200       |                 | 1000      |             | 122              | 80        | 120         |            |          | S    |
| Sample ID     | 1407843-003AMS     | SampT      | ype: M          | S         | Tes         | tCode: E         | PA Method | 8015D: Gaso | line Rang  | e        |      |
| Client ID:    | SC-3 N Wall 0-4.5  | Batch      | n ID: <b>R1</b> | 9983      | F           | RunNo: 1         | 9983      |             |            |          |      |
| Prep Date:    |                    | Analysis D | ate: 7          | /18/2014  | S           | SeqNo: 5         | 81145     | Units: mg/K | ٤g         |          |      |
| Analyte       |                    | Result     | PQL             | SPK value | SPK Ref Val | %REC             | LowLimit  | HighLimit   | %RPD       | RPDLimit | Qual |
| Gasoline Rang | e Organics (GRO)   | 18         | 3.9             | 19.38     | 0           | 91.0             | 71.8      | 132         |            |          |      |
| Surr: BFB     |                    | 830        |                 | 775.2     |             | 107              | 80        | 120         |            |          |      |
| Sample ID     | 1407843-003AMSE    | ) SampT    | ype: M          | SD        | Tes         | tCode: El        | PA Method | 8015D: Gasc | line Rang  | e        |      |
| Client ID:    | SC-3 N Wall 0-4.5' | Batch      | n ID: <b>R1</b> | 9983      | F           | RunNo: 1         | 9983      |             |            |          |      |
| Prep Date:    |                    | Analysis D | ate: 7          | /18/2014  | S           | SeqNo: 5         | 81146     | Units: mg/K | ٢g         |          |      |
| Analyte       |                    | Result     | PQL             | SPK value | SPK Ref Val | %REC             | LowLimit  | HighLimit   | %RPD       | RPDLimit | Qual |
| Gasoline Rand | e Organics (GRO)   | 20         | 3.9             | 19.38     | 0           | 103              | 71.8      | 132         | 12.3       | 20       |      |

Qualifiers:

Surr: BFB

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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80

120

0

0

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- RL Reporting Detection Limit

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Sample pH greater than 2.

### QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

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| Client:<br>Project: | Souder, N<br>Lateral 3F | 4iller and 4<br>E-1/GCU# | Associa<br>273   | ites      |             |                 |           |                    |       |                                       |      |   |
|---------------------|-------------------------|--------------------------|------------------|-----------|-------------|-----------------|-----------|--------------------|-------|---------------------------------------|------|---|
| Sample ID           | 5ML RB                  | SampT                    | ype: MI          | BLK       | Tes         | tCode: E        | PA Method | 8021B: Volat       | tiles |                                       |      | _ |
| Client ID:          | PBS                     | Batch                    | i ID: <b>R1</b>  | 19983     | F           | ≀unNo: <b>1</b> | 9983      |                    |       |                                       |      |   |
| Prep Date:          |                         | Analysis D               | /ate: <b>7</b> / | /18/2014  | ٤           | eqNo: 5         | 81165     | Units: <b>mg/K</b> | (g    |                                       |      |   |
| Analyte             |                         | Result                   | PQL              | SPK value | SPK Ref Val | %REC            | LowLimit  | HighLimit          | %RPD  | RPDLimit                              | Qual |   |
| Benzene             |                         | ND                       | 0.050            |           |             |                 |           |                    |       | · · · · · · · · · · · · · · · · · · · |      |   |
| Toluene             |                         | ND                       | 0.050            |           |             |                 |           |                    |       |                                       |      |   |
| Ethylbenzene        |                         | ND                       | 0.050            |           |             |                 |           |                    |       |                                       |      |   |
| Xylenes, Total      |                         | ND                       | 0.10             |           |             |                 |           |                    |       |                                       |      |   |
| Surr: 4-Brom        | iofluorobenzene         | 1.0                      |                  | 1.000     |             | 104             | 80        | 120                |       |                                       |      |   |
| Sample ID           | 100NG BTEX LCS          | SampT                    | ype: LC          | :s        | Tes         | tCode: E        | PA Method | 8021B: Volat       | tiles |                                       |      | _ |
| Client ID:          | LCSS                    | Batch                    | 1 ID: <b>R1</b>  | 19983     | F           | ≀unNo: 1        | 9983      |                    |       |                                       |      |   |
| Prep Date:          |                         | Analysis D               | ate: 7/          | /18/2014  | S           | SeqNo: 5        | 81166     | Units: mg/K        | ۲g    |                                       |      |   |
| Analvte             |                         | Result                   | PQL              | SPK value | SPK Ref Val | %REC            | LowLimit  | HiahLimit          | %RPD  | RPDLimit                              | Qual |   |

| Analyte                    | Result | PQL   | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |  |
|----------------------------|--------|-------|-----------|-------------|------|----------|-----------|------|----------|------|--|
| Benzene                    | 0.96   | 0.050 | 1.000     | 0           | 96.3 | 80       | 120       |      |          |      |  |
| Toluene                    | 0.95   | 0.050 | 1.000     | 0           | 94.8 | 80       | 120       |      |          |      |  |
| Ethylbenzene               | 0.94   | 0.050 | 1.000     | 0           | 93.8 | 80       | 120       |      |          |      |  |
| Xylenes, Total             | 2.9    | 0.10  | 3.000     | 0           | 97.1 | 80       | 120       |      |          |      |  |
| Surr: 4-Bromofluorobenzene | 1.3    |       | 1.000     |             | 130  | 80       | 120       |      |          | S    |  |

Qualifiers:

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- RL Reporting Detection Limit

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21-Jul-14

WO#: 1407843

| HALL<br>ENVIRONMENTAL<br>ANALYSIS<br>LABORATORY  | Hall Environmental<br>Albu<br>TEL: 505-345-3975<br>Website: www.hai | Analysis L<br>4901 H<br>querque.<br>FAX: 505<br>llenvironn | aborat<br>awkins<br>NM 87<br>-345-4<br>nental.c | tory<br>NE<br>109 <b>St</b><br>107<br>com | amį  | ple Log-In C                      | heck List                             |
|--|---|--|---|---|------|-----------------------------------|---------------------------------------|
| Client Name: SMA-FARM  | Work Order Number:  | 140784   | 3   |   |      | RcptNo:                           | 1                                     |
| Received by/date:  | H18/KL<br>1/18/2014 7:35:00 AM                                      |  |   | Simby#                                    | Ingo |                                   |                                       |
| Completed By: Lindsay Mangin 7   | 7/18/2014 7:41:40 AM  |  |   | / finales/H                               | ليسي |                                   |                                       |
| Reviewed By:   | 7-145/12/   |  |   | 05  | U    |                                   |                                       |
| hain of Custoria   | . [. <b>Y</b> Y. C. A. J  |  |   |   |      |                                   |                                       |
| 1 Custody seals intact on sample bottles?  |   | Yes i  | -1  | No  |      | Not Present                       |                                       |
| 2 Is Chain of Custody complete?  |   | Yes  | Ż   | No  | 1    | Not Present                       |                                       |
| 3 How was the sample delivered?  |   | Courie   |   |   |      |                                   |                                       |
|  |   |  | -   |   |      |                                   |                                       |
| <u>_og In</u>  |   |  |   |   | • •  |                                   |                                       |
| 4. Was an attempt made to cool the samples?  |   | Yes  | <b>V</b> i                                      | No  | 1    | NA                                |                                       |
| 5. Were all samples received at a temperature of   | of >0° C to 6.0°C   | Yes 🛓  | <b>1</b>  | No  |      | NA                                |                                       |
| 6. Sample(s) in proper container(s)?   |   | Yes  |   | No  |      |                                   |                                       |
| 7. Sufficient sample volume for indicated test(s)  | ?   | Yes  | /   | No  |      |                                   |                                       |
| 8. Are samples (except VOA and ONG) properly   | preserved?  | Yes  | Ż   | No  |      |                                   |                                       |
| 9. Was preservative added to bottles?  |   | Yes  | .)  | No  | ✓    | NA                                |                                       |
| 10 VOA vials have zero headspace?  |   | Yes  | <i></i>   | No  |      | No VOA Vials ✔                    |                                       |
| 1, Were any sample containers received broker  | 1?  | Yes  |   | No  |      |                                   |                                       |
|  |   |  |   |   |      | # of preserved<br>bottles checked |                                       |
| 2.Does paperwork match bottle labels?  |   | Yes  | 1   | No  |      | for pH:                           | r > 12 unless noted)                  |
| (Note discrepancies on chain of custody)<br>3. Are matrices correctly identified on Chain of ( | Custody?  | Yes  |   | No  |      | Adjusted?                         | · · · · · · · · · · · · · · · · · · · |
| 4. Is it clear what analyses were requested?   | Sublody :   | Yes  | 7   | No  |      |                                   | ·                                     |
| 5. Were all holding times able to be met?<br>(If no, notify customer for authorization.)       |   | Yes  | /   | No  |      | Checked by:                       |                                       |
| pecial Handling (if applicable)  |   |  |   |   |      |                                   |                                       |
| 6. Was client notified of all discrepancies with th  | nis order?  | Yes  | <u> </u>  | No  | į į  | NA 🖌                              |                                       |
| Person Notified:   | Date:   |  |   |   |      |                                   | :                                     |
| By Whom:   | Via:  | 📋 eMail  | <u> </u>  | Phone                                     | Fax  | 🔜 In Person                       |                                       |
| Regarding:   |   |  |   |   |      |                                   |                                       |
| Client Instructions:   |   |  |   |   | •    | •                                 | :<br>2                                |
| 7. Additional remarks:   |   |  |   |   |      |                                   |                                       |
| 8. Cooler Information  |   |  |   |   |      |                                   |                                       |
| Cooler No Temp °C Condition Set  | al Intact Seal No   | Seal Date  | )   | Signed B                                  | у    |                                   |                                       |
| 2.1 G000 Yes   | 1   |  |   |   |      |                                   |                                       |

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| C              | Chain                 | -ot-Ci       | ustody Record                           | Lum-Arounu                 | нше.                                  |  | 1              |            |               |                 |              |             |               |               |                |                |           | _<br>_    |           |               |
|----------------|-----------------------|--------------|---|----------------------------|---------------------------------------|--|----------------|------------|---------------|-----------------|--------------|-------------|---------------|---------------|----------------|----------------|-----------|-----------|-----------|---------------|
| Client:        | Soud                  | er M         | iller PAssociates                       | □ Standard<br>Project Name |                                       | Same Day                                 |                |            |               | A               |              |             |               | VII<br>SI     |                | BO             | R/        |           | AL<br>DR` | Y             |
| Aailing        | Address               | "401 I       | w. Brandway                             | Project #:                 | al 3E-1                               | Gcu#2                                    | . <u>.</u>     | : 49<br>Те | 01 H<br>ป. 50 | awkir<br>95-34: | ns N<br>5-39 | E - /       | Albuq<br>Fax  | uerqu<br>505  | ue, N<br>5-345 | IM 87<br>i-410 | '109<br>7 |           |           |               |
| hone           | # 505                 | -325-        | 1535                                    | 5122                       | 855                                   |  |                |            |               |                 |              | An          | alysis        | s Re          | ques           | t              |           |           |           |               |
| email c        | or Fax#:              | iteren-      | moskal@soudermiller                     | C Roject Mana              | ager:                                 |  |                | (yl        | \$            |                 |              |             |               | ;             |                |                |           |           |           |               |
| ⊋A/QC<br>≰Star | Package:<br>ndard     |              | Level 4 (Full Validation)               | stere                      | Moskal                                |  | <b>6</b> (8021 | (Gas ol    | RO M          |                 |              | SIMS)       | PO, S(        | 2 PCB's       |                |                |           |           |           |               |
|                | itation               | □ Oth        | er                                      | Sampler: V                 |                                       |  |                | HdT        | 2             | .1)             | <del>,</del> | 270         | ) Š           | 808           |                |                |           |           |           | Î             |
|                | . <u></u> ) (Type)    |              |   | Sample Tem                 | verature: 7                           | 7 1                                      | Ц<br>Ц         | +<br>Щ     | GR(           | 1418            | 150          | 0 - 8       | sle Q         | les /         |                | )<br>AO        |           |           |           | Y or          |
| Date           | Time                  | Matrix       | Sample Request ID                       | Container<br>Type and #    | Preservative<br>Type                  | HEAL NO.<br>140-7343                     | BTEX           | BTEX + MTB | ПРН 8015В (   | TPH (Methoo     | EDB (Methoc  | PAH's (8310 | Anions (F.CI. | 8081 Pesticic | 8260B (VOA)    | 8270 (Semi-V   |           |           |           | Air Bubbles ( |
| in (14         | 1215                  | soil         | SC-1 Base ORP                           | 402×1                      | Coolod                                | -001                                     | X              |            | X             |                 |              |             |               |               |                |                |           |           |           |               |
| j_             | 1216                  | 1            | SC-2 W Base @ 4.5'                      |                            |                                       | -007                                     | X              |            | X             |                 |              |             |               |               |                |                |           |           |           |               |
|                | 1217                  |              | SC-3 N wall 0-4.5                       |                            |                                       | -703                                     | ×              |            | K             |                 |              |             |               |               |                |                |           |           |           |               |
|                | 1218                  |              | SC-4 Swall 0-4.5                        |                            |                                       | tot                                      | X              |            | K             |                 |              |             |               |               |                |                |           |           |           |               |
|                | 1219                  |              | SC-SEWAND-45                            | 1                          |                                       | -705                                     | X              |            | K             |                 |              |             |               |               |                |                |           | $\square$ |           |               |
| V              | 1245                  | $\mathbf{V}$ | SC-6 Stockpile                          | $\vee$                     | $\mathbf{V}_{\mathbf{I}}$             | -000                                     | X.             |            | X             |                 |              |             |               |               |                |                |           |           |           |               |
|                |                       |              | •                                       |                            |                                       |  |                |            |               |                 |              |             |               |               |                |                |           |           |           |               |
|                |                       |              |   |                            |                                       |  |                |            |               |                 |              |             |               |               |                |                |           |           |           |               |
|                |                       |              |   |                            |                                       |  | ļ              |            |               |                 |              |             |               |               |                |                |           |           | $\bot$    |               |
|                |                       |              |   |                            | :                                     |  |                |            |               |                 |              | _           |               |               |                |                |           |           |           |               |
|                | ļ                     |              |   |                            | · · · · · · · · · · · · · · · · · · · |  |                |            |               |                 |              |             |               |               |                |                | $\square$ |           |           |               |
| Date:          | Time:                 | Relinquist   | ned by:                                 | Received by:               |                                       | Date Time                                | Ren            | narks      | )<br>S:       |                 |              | <u> </u>    |               |               |                |                |           |           |           |               |
|                | 1430<br>Time:<br>1720 |              | sup<br>ite Walter                       | Received by                | haele                                 | 117/11 1557<br>Date Time<br>1/18/14/0735 | Pl             | ras        | د -           | Ini             | 0010         | 21          | ° €           | nte           | Jqz            | ise            | Yra       | du        | ets       | •             |
| ] :            | If necessary,         | samples sub  | mitted to Hall Environmental may be sub | contracted to other a      | ccredited laboratori                  | es. This serves as notice of this        | s possit       | oility. A  | ny sui        | b-contra        | acted        | data wil    | l be clea     | irly not      | ated or        | n the ar       | nalytica  | Irepor    | t.        |               |

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District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 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

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.

Form C-141

Revised August 8, 2011

|               |                 |                                       |              | Sa                                  | nta Fe                | e, NM 87            | 505                      |            |                  |                           |              |                |
|---------------|-----------------|---------------------------------------|--------------|-------------------------------------|-----------------------|---------------------|--------------------------|------------|------------------|---------------------------|--------------|----------------|
|               |                 | R                                     | elease       | • Notific                           | atior                 | n and C             | orrective                | e Acti     | on               |                           | _            |                |
|               |                 |                                       |              |                                     | OP                    | ERATO               | R                        | Г          | ] Initial        | Report                    | $\bowtie$    | Final Repor    |
| Name of C     | ompany:         | Enterprise F                          | ield Servi   | ces LLC                             | (                     | Contact: T          | homas Long               |            |                  |                           |              |                |
| Address: 6    | 14 Reilly /     | Ave, Farming                          | gton, NM     | 87401                               |                       | Telephone           | No. 505-599              | 9-2286     |                  |                           |              |                |
| Facility Na   | me: Latera      | al 6B-15 Pipe                         | eline        |                                     |                       | Facility Ty         | pe: Gas gath             | ering sy   | stem pip         | eline                     |              |                |
| Surface O     | wner: Nav       | ajo Allotmen                          | t            | Mineral (                           | Owner:                | Navajo Tr           | ibal                     |            | API N            | 0.                        |              |                |
|               |                 |                                       |              | LOCA                                | ATION                 |                     | LEASE                    |            |                  |                           |              |                |
| Unit Letter   | Section         | Township                              | Range        | Feet from                           | North                 | South               | Feet from                | East       | Vest             | County                    |              |                |
| A             | 20              | 28N                                   | 12W          | the                                 | Line                  | 772                 | the                      | Line       | 87               | San Jua                   | an           |                |
| L             | <u> </u>        | 1                                     | <u>}</u>     | 20.0                                | 5000                  |                     |                          |            | 01               |                           | INS I        | NV DIST. 3     |
|               |                 |                                       | Latitude     | 36.6                                | 5289                  | Long                | jitude <u></u>           | 108.1263   | 36               | UL U                      | 140.1        |                |
|               |                 |                                       |              | NAT                                 | URE                   | OF REL              | EASE                     |            |                  | J                         | UL 2         | 9 2014         |
| Type of Rel   | ease: Natu      | al gas and po                         | ssible ass   | ociated liquid                      | ds                    | Volume c            | f Release: Un            | known      | Volume           | Recovere                  | d: Unk       | known          |
| Source of R   | elease: Na      | tural gas gath                        | ering pipel  | ine                                 |                       | Date and<br>Unknown | Hour of Occu             | rrence:    | Date an 10/18/13 | d Hour of I<br>3 AT 7:00A | Discov<br>\M | ery:           |
| Was Immed     | liate Notice    | Given?                                |              |                                     | 1                     | If YES, T           | o Whom?                  |            |                  |                           |              |                |
| Required      |                 | l                                     |              |                                     | NOL                   |                     |                          |            |                  |                           |              |                |
| By Whom?      |                 | · · · · · · · · · · · · · · · · · · · |              |                                     |                       | Date and            | Hour                     |            |                  |                           |              |                |
| Was a Wate    | ercourse Re     | eached?                               |              |                                     |                       | If YES, V           | olume Impacti            | ng the W   | atercours        | e.                        |              |                |
|               |                 |                                       |              |                                     |                       |                     |                          | - ··       | <b></b>          |                           |              |                |
| If a Waterco  | ourse was li    | npacted, Des                          | cribe Fully  | .*                                  |                       |                     |                          |            |                  |                           |              |                |
| Describe Ca   | ause of Pro     | blem and Ren                          | nedial Acti  | on Taken.*                          | During a              | a routine pi        | peline patrol, a         | leak was   | s discover       | ed. The p                 | ipeline      | line was       |
| Describe Ar   | ea Affected     | and Cleanup                           | Action Ta    | ken.*                               |                       | inpleted on         |                          | 013.       |                  |                           |              |                |
| Remediatio    | n and repai     | r activities we                       | re complet   | ed on Octob                         | er 21, 20             | 013. Appro          | ximately 142 c           | ubic yard  | ls of impa       | cted soil w               | as exc       | avated and     |
| (7) feet dee  | to a NMOC       | D approved la<br>arty corrective      | and farm fa  | acility. The fil<br>port is include | nal exca<br>ed with t | vation mea          | sured forth-fiv          | e (45) fee | et long by       | ten (10) fe               | et wide      | e by seven     |
| (/) 100( 000  |                 |                                       |              |                                     |                       |                     |                          |            |                  |                           |              |                |
| I hereby cer  | tify that the   | information g                         | jiven above  | e is true and                       | complet               | e to the be         | st of my knowl           | edge and   | d understa       | nd that pu                | rsuant       | to NMOCD       |
| which may     | endanger p      | ublic health or                       | the enviro   | nment. The                          | accepta               | ance of a C         | -141 report by           | the NMC    | CD mark          | ed as "Fin                | al Rep       | ort" does not  |
| relieve the c | perator of      | iability should                       | l their oper | ations have t                       | failed to             | adequately          | investigate a            | nd remed   | liate conta      | mination t                | hat po       | se a threat to |
| ground wate   | er, surface v   | water, human                          | health or t  | he environm                         | ent. In a<br>roletat  | addition, NI        | MOCD accepta             | ance of a  | C-141 rej        | port does r               | not reli     | eve the        |
|               |                 |                                       |              | ly other lede                       |                       |                     |                          | NSFR       |                  |                           | ON           | $\sim$         |
|               |                 |                                       | 1            |                                     |                       |                     |                          |            | /                | 7                         | ŤŤ           | $\mathcal{C}$  |
| Signature:    | $\rightarrow h$ | Aud                                   |              |                                     |                       |                     |                          |            | . //             | /                         | 41           |                |
| Printed Nan   | ne: Jon Fiel    | ds                                    |              |                                     | /                     | Approved b          | y Environmen             | tal Specia | alist:           | my                        | Y~           | m              |
| Title: Direct | or, Environr    | mental                                |              |                                     | /                     | Approval Da         | <sub>ate:</sub> 9/8/14   | 1          | Expiration       | Date:                     | <u> </u>     |                |
| E-mail Addr   | ess iefield     | ം<br>തലാനർ com                        |              |                                     |                       | Conditions          | of Approval <sup>.</sup> |            |                  |                           | _            |                |
|               | 7/01/02         |                                       |              |                                     |                       | conditiond -        | or approval.             |            |                  | Attache                   | ed 🗌         |                |
| Date:         | 1/2/00          | ots If Nocco                          | Phone        | : (713)381-6                        | 684                   | 11.                 | ••• • =                  |            |                  |                           |              |                |
| Allach Aud    | uunai Sile      |                                       | saiy         |                                     | 4                     | TNUS                | 14251                    | 334        | 117              |                           |              |                |

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606 S. Rio Grande Avenue, Suite A Aztec, New Mexico 87410 Ph: (505) 334-5200 Fax: (505) 334-5204

December 3, 2013

Enterprise Products Operating, LLC 614 Reilly Avenue Farmington, NM 87401 Attn: Ms. Runell Seale OIL CONS. DIV DIST. 3

JUL 29 2014

#### Re: **6B-15 Pipeline Release Corrective Action Summary** NE ¼ NE ¼, Sec 20, Township 28 North, Range 12 West Rural San Juan County, NM SWG Project No. 0413G016

Dear Ms. Seale:

Southwest Geoscience (SWG) appreciates the opportunity to submit this Corrective Action Summary detailing Enterprise's response actions related to the release of natural gas and associated liquids, if any, at the Enterprise Products Operating, LLC (Enterprise) 6B-15 Pipeline, referred to hereinafter as the "Site" or "subject Site". The Site is located in the NE ¼ of the NE ¼ of Section 20, Township 28 North, Range 12 West in rural San Juan County, Navajo Nation, New Mexico.

A topographic map is included as Figure 1, an aerial photograph of the Site vicinity is included as Figure 2, and a Site Map is included as Figure 3 of Attachment A. Photographic documentation is provided in Attachment B.

#### **Response/Assessment Activities**

On October 16<sup>th</sup>, 2013 Enterprise initiated activities to expose the pipeline at the location of a potential leak that was identified during a vapor survey. With the exception of apparently distressed vegetation, no surface expression of a release was visible at the Site. The leak was confirmed and repaired on October 18<sup>th</sup>, 2013, and reported to the New Mexico Oil Conservation Division (OCD) and Navajo Nation Environmental Protection Agency (NNEPA). Soils in the vicinity of the release that were affected by the release of natural gas and possible associated liquids were segregated for disposal, with the resulting excavation measuring approximately forty-five (45) feet long, ten (10) feet wide, and seven (7) feet deep. In total, 142 cubic yards of material were removed from the excavation and transported to the Envirotech, Inc. Soil Remediation Facility near Hilltop, NM for treatment/disposal. Groundwater was not encountered during the excavation activities.

Between October 17<sup>th</sup> and October 21<sup>st</sup>, 2013, SWG representative Kyle Summers utilized hand tools to collect samples from the sidewalls and floor of the excavated area at depths of 0.5 to 1.0 feet beyond the exposed surfaces. Upon retrieval of each sample from the excavation, a portion of the soil sample was placed in laboratory prepared glassware for potential laboratory analysis and a portion of the soil sample was placed into a plastic ziplock bag for field screening utilizing a photoionization detector (PID) capable of detecting volatile organic compounds (VOCs). The PID was calibrated utilizing an isobutylene standard prior to use in the field.

Environmental & Hydrogeologic Consultants

Enterprise • 6B-15 Pipeline Release SWG Project No. 0413G016 December 3, 2013

The soil samples selected for laboratory analysis were placed in laboratory prepared glassware, sealed with custody tape/labels and placed on ice in a cooler, which was secured with a custody seal. The sample coolers and completed chain-of-custody forms were relinquished to Envirotech Analytical Laboratory for rush turnaround. Laboratory analytical results are provided in Table 1 of Attachment C. The executed chain-of-custody form and laboratory data sheets are provided in Attachment D. The samples were submitted for the analyses of benzene, toluene, ethylbenzene, and total xylenes (BTEX) utilizing SW-846 Method 8021, and total petroleum hydrocarbons gasoline range organics (GRO) and diesel range organics (DRO) utilizing SW-846 Method 8015. Envirotech performed the analyses of samples under an adequate and documented quality assurance program to meet the project and data quality objectives.

The site is under the jurisdiction of the NNEPA, generally following the guidelines set forth by the New Mexico Energy, Minerals, and Natural Resources Department (EMNRD), Oil Conservation Division (OCD). In accordance with the OCD's *Guidelines for Remediation of Leaks, Spills and Releases*, SWG utilized the general site characteristics to determine the appropriate "ranking" for the Site. The ranking criteria and associated scoring are provided in the table below:

| Rànkir  | Rànking Criteria  |    |    |  |  |  |  |  |  |
|---|-------------------|----|----|--|--|--|--|--|--|
|   | <50 feet          | 20 |    |  |  |  |  |  |  |
| Depth to Groundwater  | 50 to 99 feet     | 10 | 20 |  |  |  |  |  |  |
|   | >100 feet         | 0  |    |  |  |  |  |  |  |
| Wellhead Protection Area •<br><1,000 feet from a water          | Yes               | 20 |    |  |  |  |  |  |  |
| source, or; <200 feet from<br>private domestic water<br>source. | No                | 0  | 0  |  |  |  |  |  |  |
| Distance to Surface Water                                       | <200 feet         | 20 |    |  |  |  |  |  |  |
| Body  | 200 to 1,000 feet | 10 | 10 |  |  |  |  |  |  |
| Body  | >1,000 feet       | 0  |    |  |  |  |  |  |  |
| Total Rar   |                   | 30 |    |  |  |  |  |  |  |

Based on SWG's evaluation of the scoring criteria, the Site would have a Total Ranking Score of **30**. This ranking is based on the following:

- The depth to the initial groundwater-bearing zone is estimated to be less than 50 feet at the Site, based on the proximity of the Gallegos Canyon wash to the east.
- No water wells were identified on the State Engineer's water rights web site within one mile of the Site.
- The release occurred adjacent to a dry unnamed ephemeral wash that drains into Gallegos Canyon approximately 700 feet from the release site. The Gallegos Canyon wash ultimately drains into the San Juan River, approximately 3.2 miles to the north.

During the completion of a 1,000-foot receptor survey, SWG inspected the Site vicinity for dwellings, schools, hospitals, day care centers, nursing homes, businesses, parks and/or recreational areas, located within 1,000 feet of the Site. In addition, SWG evaluated the presence of sensitive ecological receptors such as surface water bodies, wildlife sanctuaries and/or

Enterprise • 6B-15 Pipeline Release SWG Project No. 0413G016 December 3, 2013

Southwest

wetlands areas located within 1,000 feet of the Site. Gallegos Canyon wash, located 700 to 800 feet east of the Site, and the unnamed arroyo located adjacent to the Site are located within a 1,000 feet radius of the Site. No dwellings, schools, hospitals, day care centers, nursing homes, parks, recreational areas, or wildlife sanctuaries were observed within 1,000 feet of the Site.

SWG compared the TPH GRO/DRO and BTEX concentrations or laboratory reporting limits (RLs) associated with the confirmation soil samples collected from the excavation to the OCD *Remediation Action Levels* for Sites having a total ranking score of >20. The results of the soil sample analyses are summarized in Table 1 included in Attachment C.

#### Total Petroleum Hydrocarbons

Soil samples S-1, S-2, S-4, S-5, S-7, and S-8 did not exhibit TPH GRO/DRO concentrations above the OCD's *Remediation Action Level* of 100 mg/Kg.

Soil samples S-3 and S-6 exhibited combined TPH GRO/DRO concentrations of 1,900 mg/Kg and 5,670 mg/Kg, respectively, which are above the OCD's *Remediation Action Level* of 100 mg/Kg. The portion of the excavation represented by these samples was over-excavated and resampled (samples S-9 and S-10). Samples S-9 and S-10 did not exhibit TPH GRODRO concentrations above the OCD's *Remediation Action Level* of 100 mg/Kg.

#### Benzene and Total BTEX

Soil samples S-1, S-2, S-4, S-5, S-7, and S-8 through S-5 did not exhibit benzene, toluene, ethylbenzene, total xylenes, or total BTEX concentrations above the OCD's *Remediation Action Levels*.

Soil samples S-3 and S-6 exhibited total BTEX concentrations of 54.2 mg/Kg and 132 mg/Kg, respectively, which are above the OCD's *Remediation Action Level* of 50 mg/Kg. The portion of the excavation represented by these samples was over-excavated and re-sampled (samples S-9 and S-10). Samples S-9 and S-10 did not exhibit total BTEX concentrations above the OCD's *Remediation Action Level* of 50 mg/Kg.

• Based on the results of corrective actions and laboratory analyses, no additional investigation or remediation appears warranted at this time.

If you should have any questions or comments regarding this letter report, please contact the undersigned at (505) 334-5200.

Sincerely, Southwest Geoscience

Kyle Summers C.P.G. Manager, Four Corners

J.Ch.

B. Chris Mitchell, P.G. Principal Geoscientist



ATTACHMENT A

Figures









### ATTACHMENT B

## Photographic Documentation





.

## ATTACHMENT C

### Table



#### TABLE 1 Lateral 6B-15 Pipeline Release SOIL ANALYTICAL RESULTS

| Sample I.D.<br>New Mexico Energy, Minera | Date<br>Date<br>is & Natural Resources Dep | Sample Depth<br>(feet)<br>artment, Oil Conservation Division, | Benzene<br>(mg/kg) | Toluene<br>(mg/kg) | Ethylbenzene<br>(mg/kg) | Xylenes<br>(mg/kg) | Total BTEX<br>(mg/kg) | TPH<br>GRO<br>(mg/kg) | TPH<br>DRO<br>(mg/kg) |
|--|--|---|--------------------|--------------------|-------------------------|--------------------|-----------------------|-----------------------|-----------------------|
|  | Remediation Action Lev                     | vel   | 10                 | NE                 | NE                      | NE                 | 50                    | 1                     | 00                    |
|  |  | Confirmatio   | n Samples From S   | oils Which Were F  | Removed by Excavati     | on                 |                       |                       |                       |
| S-3                                      | 10.17.13                                   | 6.0   | 1.03               | 13.4               | 3.59                    | 36.2               | 54.2                  | 157                   | 1,740                 |
| <u>S-6</u>                               | 10.17.13                                   | 7.0   | 2.13               | 44.9               | 9.68                    | 74.6               | 132                   | 450                   | 5,220                 |
|  |  | Сог   | nfirmation Samples | s From Soils Rema  | aining in Place         |                    |                       |                       |                       |
| S-1                                      | 10.16.13                                   | 6.0   | <0.05              | <0.05              | <0.05                   | <0.05              | <0.05                 | 5.65                  | <30.0                 |
| <u>S-2</u>                               | 10.17.13                                   | 6.0   | <0.05              | <0.05              | <0.05                   | <0.05              | <0.05                 | <5.00                 | <30.0                 |
| S-4                                      | 10.17.13                                   | 6.0   | <0.05              | <0.05              | <0.05                   | <0.05              | <0.05                 | <5.00                 | <29.9                 |
| <u>S-5</u>                               | 10.17.13                                   | 6.0   | <0.05              | 0.06               | <0.05                   | 0.07               | 0.12                  | <5.00                 | <29.9                 |
| <u>S-7</u>                               | 10.17.13                                   | 6.0   | <0.05              | <0.05              | <0.05                   | <0.05              | <0.05                 | 6.89                  | 36.6                  |
| S-8                                      | 10.17.13                                   | 6.0   | <0.05              | <0.05              | <0.05                   | <0.05              | <0.05                 | <4.99                 | <29.9                 |
| <u>S-9</u>                               | 10.21.13                                   | 10.0  | <0.05              | <0.05              | <0.05                   | 0.07               | 0.07                  | <5.00                 | <30.0                 |
| S-10                                     | 10.21.13                                   | 15.0  | <0.05              | <0.05              | <0.05                   | 0.06               | 0.06                  | <5.00                 | 43.8                  |

Note: Concentrations in bold and yellow exceed the applicable OCD Remediation Action Level

NE = Not Established

\* = This area was subsequently over-excavated

and the second se



### ATTACHMENT D

Laboratory Data Sheets & Chain of Custody Documentation



### **Analytical Report**

#### **Report Summary**

Client: Southwest Geoscience Chain Of Custody Number: 16228 Samples Received: 10/17/2013 3:30:00PM Job Number: 07174-0003 Work Order: P310071 Project Name/Location: 6B-15

Date: 10/21/13

Entire Report Reviewed By:

Tim Cain, Laboratory Manager

The results in this report apply to the samples submitted to Envirotech's Analytical Laboratory and were analyzed in accordance with the chain of custody document supplied by you, the client, and as such are for your exclusive use only. The results in this report are based on the sample as received unless otherwise noted. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. If you have any questions regarding this analytical report, please don't hesitate to contact Envirotech's Laboratory Staff.

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| Southwest Geoscience  | Project Name:    | 6B-15        |                 |
|-----------------------|------------------|--------------|-----------------|
| 2351 W. Northwest Hwy | Project Number:  | 07174-0003   | Reported:       |
| Dallas TX, 75220      | Project Manager: | Kyle Summers | 21-Oct-13 14:05 |

#### **Analyical Report for Samples**

| Client Sample ID | Lab Sample ID | Matrix | Sampled  | Received | Container        |
|------------------|---------------|--------|----------|----------|------------------|
| S-1              | P310071-01A   | Soil   | 10/16/13 | 10/17/13 | Glass Jar, 4 oz. |
| S-2              | P310071-02A   | Soil   | 10/17/13 | 10/17/13 | Glass Jar, 4 oz. |
| S-3              | P310071-03A   | Soil   | 10/17/13 | 10/17/13 | Glass Jar, 4 oz. |
| S-4              | P310071-04A   | Soil   | 10/17/13 | 10/17/13 | Glass Jar, 4 oz. |
| S-5              | P310071-05A   | Soil   | 10/17/13 | 10/17/13 | Glass Jar, 4 oz. |
| S-6              | P310071-06A   | Soil   | 10/17/13 | 10/17/13 | Glass Jar, 4 oz. |
| S-7              | P310071-07A   | Soil   | 10/17/13 | 10/17/13 | Glass Jar, 4 oz. |
| S-8              | P310071-08A   | Soil   | 10/17/13 | 10/17/13 | Glass Jar, 4 oz. |

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| Southwest Geoscience<br>2351 W. Northwest Hwy<br>Dallas TX, 75220 | Projec<br>Projec<br>Projec | t Name:<br>t Number:<br>t Manager: | 6B-15<br>07174-0003<br>Kyle Summers |          |         |          | <b>Reported:</b><br>21-Oct-13 14:05 |                                       |         |
|---|----------------------------|------------------------------------|-------------------------------------|----------|---------|----------|-------------------------------------|---------------------------------------|---------|
|   |                            | P3100'                             | S-1<br>71-01 (Sol                   | lid)     |         |          |                                     |                                       |         |
|   | <u>.</u>                   | Reporting                          |                                     |          |         |          |                                     | · · · · · · · · · · · · · · · · · · · |         |
| Analyte   | Result                     | Limit                              | Units                               | Dilution | Batch   | Prepared | Analyzed                            | Method                                | Notes   |
| Volatile Organics by EPA 8021                                     |                            |                                    |                                     |          |         |          |                                     |                                       |         |
| Benzene   | ND                         | 0.05                               | mg/kg                               | 1        | 1342029 | 10/18/13 | 10/18/13                            | EPA 8021B                             |         |
| Toluene   | ND                         | 0.05                               | mg/kg                               | 1        | 1342029 | 10/18/13 | 10/18/13                            | EPA 8021B                             |         |
| Ethylbenzene  | ND                         | 0.05                               | mg/kg                               | 1        | 1342029 | 10/18/13 | 10/18/13                            | EPA 8021B                             |         |
| p,m-Xylene  | ND                         | 0.05                               | mg/kg                               | 1        | 1342029 | 10/18/13 | 10/18/13                            | EPA 8021B                             |         |
| o-Xylene  | ND                         | 0.05                               | mg/kg                               | 1        | 1342029 | 10/18/13 | 10/18/13                            | EPA 8021B                             |         |
| Total Xylenes   | ND                         | 0.05                               | mg/kg                               | 1        | 1342029 | 10/18/13 | 10/18/13                            | EPA 8021B                             |         |
| Total BTEX  | ND                         | 0.05                               | mg/kg                               | 1        | 1342029 | 10/18/13 | 10/18/13                            | EPA 8021B                             |         |
| Surrogate: Bromochlorobenzene                                     |                            | 98.3 %                             | 80                                  | 120      | 1342029 | 10/18/13 | 10/18/13                            | EPA 8021B                             | <u></u> |
| Surrogate: 1,3-Dichlorobenzene                                    |                            | 96.6 %                             | 80                                  | 120      | 1342029 | 10/18/13 | 10/18/13                            | EPA 8021B                             |         |
| Nonhalogenated Organics by 8015                                   |                            |                                    |                                     |          |         |          |                                     |                                       |         |
| Gasoline Range Organics (C6-C10)                                  | 5.65                       | 5.00                               | mg/kg                               | 1        | 1342029 | 10/18/13 | 10/18/13                            | EPA 8015D                             |         |
| Diesel Range Organics (C10-C28)                                   | ND                         | 30.0                               | mg/kg                               | 1        | 1342028 | 10/18/13 | 10/18/13                            | EPA 8015D                             |         |
| GRO and DRO Combined Fractions                                    | 5.65                       | 5.00                               | mg/kg                               |          | [CALC]  | 10/18/13 | 10/18/13                            | EPA 8015D                             |         |

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| Southwest Geoscience<br>2351 W. Northwest Hwy<br>Dallas TX, 75220 | Projec<br>Projec<br>Projec | et Name:<br>et Number:<br>et Manager: | 6B-15           ber:         07174-0003           nger:         Kyle Summers |          |         |          |          | <b>Reported:</b><br>21-Oct-13 14 | :05   |
|---|----------------------------|---------------------------------------|--|----------|---------|----------|----------|----------------------------------|-------|
|   |                            | P3100'                                | S-2<br>71-02 (Sol  | lid)     |         |          |          |                                  |       |
|   |                            | Reporting                             |  | ·        |         |          |          |                                  |       |
| Analyte   | Result                     | Limit                                 | Units  | Dilution | Batch   | Prepared | Analyzed | Method                           | Notes |
| Volatile Organics by EPA 8021                                     |                            |                                       |  |          |         |          |          |                                  |       |
| Benzene   | ND                         | 0.05                                  | mg/kg  | 1        | 1342029 | 10/18/13 | 10/18/13 | EPA 8021B                        |       |
| Toluene   | ND                         | 0.05                                  | mg/kg  | 1        | 1342029 | 10/18/13 | 10/18/13 | EPA 8021B                        |       |
| Ethylbenzene  | ND                         | 0.05                                  | mg/kg  | 1        | 1342029 | 10/18/13 | 10/18/13 | EPA 8021B                        |       |
| p,m-Xylene  | ND                         | 0.05                                  | mg/kg  | 1        | 1342029 | 10/18/13 | 10/18/13 | EPA 8021B                        |       |
| o-Xylene  | ND                         | 0.05                                  | mg/kg  | 1        | 1342029 | 10/18/13 | 10/18/13 | EPA 8021B                        |       |
| Total Xylenes   | ND                         | 0.05                                  | mg/kg  | 1        | 1342029 | 10/18/13 | 10/18/13 | EPA 8021B                        |       |
| Total BTEX  | ND                         | 0.05                                  | mg/kg  | 1        | 1342029 | 10/18/13 | 10/18/13 | EPA 8021B                        |       |
| Surrogate: Bromochlorobenzene                                     |                            | 94.1 %                                | 80-  | 120      | 1342029 | 10/18/13 | 10/18/13 | EPA 8021B                        |       |
| Surrogate: 1,3-Dichlorobenzene                                    |                            | 91.4 %                                | 80-  | 120      | 1342029 | 10/18/13 | 10/18/13 | EPA 8021B                        |       |
| Nonhalogenated Organics by 8015                                   |                            |                                       |  |          |         |          |          |                                  |       |
| Gasoline Range Organics (C6-C10)                                  | ND                         | 5.00                                  | mg/kg  | 1        | 1342029 | 10/18/13 | 10/18/13 | EPA 8015D                        |       |
| Diesel Range Organics (C10-C28)                                   | ND                         | 30.0                                  | mg/kg  | 1        | 1342028 | 10/18/13 | 10/18/13 | EPA 8015D                        |       |
| GRO and DRO Combined Fractions                                    | ND                         | 5.00                                  | mg/kg  |          | [CALC]  | 10/18/13 | 10/18/13 | EPA 8015D                        |       |

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| Southwest Geoscience<br>2351 W. Northwest Hwy<br>Dallas TX, 75220 | Project<br>Project<br>Project | t Name:<br>t Number:<br>t Manager: | 6B-15<br>07174<br>Kyle S | -0003<br>Summers |          | <b>Reported:</b><br>21-Oct-13 14:05 |          |           |       |
|---|-------------------------------|------------------------------------|--------------------------|------------------|----------|-------------------------------------|----------|-----------|-------|
|   |                               | P3100'                             | S-3<br>71-03 (Sol        | lid)             |          |                                     |          |           |       |
|   |                               | Reporting                          | 1 00 (50                 |                  | <u>.</u> |                                     |          |           |       |
| Analyte   | Result                        | Limit                              | Units                    | Dilution         | Batch    | Prepared                            | Analyzed | Method    | Notes |
| Volatile Organics by EPA 8021                                     |                               |                                    |                          |                  |          |                                     |          |           |       |
| Benzene   | 1.03                          | 0.05                               | mg/kg                    | 1                | 1342029  | 10/18/13                            | 10/18/13 | EPA 8021B |       |
| Toluene   | 13.4                          | 0.05                               | mg/kg                    | 1                | 1342029  | 10/18/13                            | 10/18/13 | EPA 8021B |       |
| Ethylbenzene  | 3.59                          | 0.05                               | mg/kg                    | 1                | 1342029  | 10/18/13                            | 10/18/13 | EPA 8021B |       |
| p,m-Xylene  | 26.4                          | 0.05                               | mg/kg                    | 1                | 1342029  | 10/18/13                            | 10/18/13 | EPA 8021B |       |
| o-Xylene  | 9.73                          | 0.05                               | mg/kg                    | 1                | 1342029  | 10/18/13                            | 10/18/13 | EPA 8021B |       |
| Total Xylenes   | 36.2                          | 0.05                               | mg/kg                    | 1                | 1342029  | 10/18/13                            | 10/18/13 | EPA 8021B |       |
| Total BTEX  | 54.2                          | 0.05                               | mg/kg                    | 1                | 1342029  | 10/18/13                            | 10/18/13 | EPA 8021B |       |
| Surrogate: 1,3-Dichlorobenzene                                    |                               | 179 %                              | 80                       | 120              | 1342029  | 10/18/13                            | 10/18/13 | EPA 8021B | S-02  |
| Surrogate: Bromochlorobenzene                                     |                               | 127 %                              | 80-                      | 120              | 1342029  | 10/18/13                            | 10/18/13 | EPA 8021B | S-02  |
| Nonhalogenated Organics by 8015                                   |                               |                                    |                          |                  |          |                                     |          |           |       |
| Gasoline Range Organics (C6-C10)                                  | 157                           | 4.99                               | mg/kg                    | 1                | 1342029  | 10/18/13                            | 10/18/13 | EPA 8015D |       |
| Diesel Range Organics (C10-C28)                                   | 1740                          | 30.0                               | mg/kg                    | 1                | 1342028  | 10/18/13                            | 10/18/13 | EPA 8015D |       |
| GRO and DRO Combined Fractions                                    | 1900                          | 4.99                               | mg/kg                    |                  | [CALC]   | 10/18/13                            | 10/18/13 | EPA 8015D |       |



| Southwest Geoscience<br>2351 W. Northwest Hwy<br>Dallas TX, 75220 | Projec<br>Projec<br>Projec | t Name:<br>t Number:<br>t Manager: | 6B-15<br>07174-0003<br>Kyle Summers |          |         |          |          | <b>Reported:</b><br>21-Oct-13 14 | :05   |
|---|----------------------------|------------------------------------|-------------------------------------|----------|---------|----------|----------|----------------------------------|-------|
|   |                            | P3100'                             | S-4<br>71-04 (Sol                   | lid)     |         |          |          |                                  |       |
|   |                            | Benerting                          | 1 04 (00                            |          |         |          |          |                                  |       |
| Analyte   | Result                     | Limit                              | Units                               | Dilution | Batch   | Prepared | Analyzed | Method                           | Notes |
| Volatile Organics by EPA 8021                                     |                            |                                    |                                     |          |         |          |          |                                  |       |
| Benzene   | · ND                       | 0.05                               | mg/kg                               | 1        | 1342029 | 10/18/13 | 10/18/13 | EPA 8021B                        |       |
| Toluene   | ND                         | 0.05                               | mg/kg                               | 1        | 1342029 | 10/18/13 | 10/18/13 | EPA 8021B                        |       |
| Ethylbenzene  | ND                         | 0.05                               | mg/kg                               | 1        | 1342029 | 10/18/13 | 10/18/13 | EPA 8021B                        |       |
| p,m-Xylene  | ND                         | 0.05                               | mg/kg                               | 1        | 1342029 | 10/18/13 | 10/18/13 | EPA 8021B                        |       |
| o-Xylene  | ND                         | 0.05                               | mg/kg                               | 1        | 1342029 | 10/18/13 | 10/18/13 | EPA 8021B                        |       |
| Total Xylenes   | ND                         | 0.05                               | mg/kg                               | 1        | 1342029 | 10/18/13 | 10/18/13 | EPA 8021B                        |       |
| Total BTEX  | ND                         | 0.05                               | mg/kg                               | 1        | 1342029 | 10/18/13 | 10/18/13 | EPA 8021B                        |       |
| Surrogate: Bromochlorobenzene                                     |                            | 89.0 %                             | 80-                                 | 120      | 1342029 | 10/18/13 | 10/18/13 | EPA 8021B                        |       |
| Surrogate: 1,3-Dichlorobenzene                                    |                            | 86.8 %                             | 80-                                 | 120      | 1342029 | 10/18/13 | 10/18/13 | EPA 8021B                        |       |
| Nonhalogenated Organics by 8015                                   |                            |                                    |                                     |          |         |          |          |                                  |       |
| Gasoline Range Organics (C6-C10)                                  | ND                         | 5.00                               | mg/kg                               | 1        | 1342029 | 10/18/13 | 10/18/13 | EPA 8015D                        |       |
| Diesel Range Organics (C10-C28)                                   | ND                         | 29.9                               | mg/kg                               | 1        | 1342028 | 10/18/13 | 10/18/13 | EPA 8015D                        |       |
| GRO and DRO Combined Fractions                                    | ND                         | 5.00                               | mg/kg                               |          | [CALC]  | 10/18/13 | 10/18/13 | EPA 8015D                        |       |

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| Southwest Geoscience<br>2351 W. Northwest Hwy<br>Dallas TX, 75220 | Projec<br>Projec<br>Projec             | et Name:<br>et Number:<br>et Manager: | 6B-15<br>07174-0003<br>Kyle Summers<br>S-5 |          |         |          |          | Reported:<br>21-Oct-13 14 | :05   |
|---|--|---------------------------------------|--|----------|---------|----------|----------|---------------------------|-------|
|   |  | P31007                                | 71-05 (Sol                                 | lid)     |         |          |          |                           |       |
| Analyte   | Result                                 | Reporting<br>Limit                    | Units                                      | Dilution | Batch   | Prepared | Analyzed | Method                    | Notes |
| Volatile Organics by EPA 8021                                     | ······································ |                                       |  |          |         |          |          |                           |       |
| Benzene   | ND                                     | 0.05                                  | mg/kg                                      | 1        | 1342029 | 10/18/13 | 10/18/13 | EPA 8021B                 |       |
| Toluene   | 0.06                                   | 0.05                                  | mg/kg                                      | 1        | 1342029 | 10/18/13 | 10/18/13 | EPA 8021B                 |       |
| Ethylbenzene  | ND                                     | 0.05                                  | mg/kg                                      | 1        | 1342029 | 10/18/13 | 10/18/13 | EPA 8021B                 |       |
| p,m-Xylene  | 0.07                                   | 0.05                                  | mg/kg                                      | 1        | 1342029 | 10/18/13 | 10/18/13 | EPA 8021B                 |       |
| o-Xylene  | ND                                     | 0.05                                  | mg/kg                                      | 1        | 1342029 | 10/18/13 | 10/18/13 | EPA 8021B                 |       |
| Total Xylenes   | 0.07                                   | 0.05                                  | mg/kg                                      | 1        | 1342029 | 10/18/13 | 10/18/13 | EPA 8021B                 |       |
| Total BTEX  | 0.12                                   | 0.05                                  | mg/kg                                      | 1        | 1342029 | 10/18/13 | 10/18/13 | EPA 8021B                 |       |
| Surrogate: Bromochlorobenzene                                     |  | 97.8 %                                | 80   | 120      | 1342029 | 10/18/13 | 10/18/13 | EPA 8021B                 |       |
| Surrogate: 1,3-Dichlorobenzene                                    |  | 95.2 %                                | 80-  | 120      | 1342029 | 10/18/13 | 10/18/13 | EPA 8021B                 |       |
| Nonhalogenated Organics by 8015                                   |  |                                       |  |          |         |          |          |                           |       |
| Gasoline Range Organics (C6-C10)                                  | ND                                     | 5.00                                  | mg/kg                                      | 1        | 1342029 | 10/18/13 | 10/18/13 | EPA 8015D                 |       |
| Diesel Range Organics (C10-C28)                                   | ND                                     | 29.9                                  | mg/kg                                      | 1        | 1342028 | 10/18/13 | 10/18/13 | EPA 8015D                 |       |
| GRO and DRO Combined Fractions                                    | ND                                     | 5.00                                  | mg/kg                                      |          | [CALC]  | 10/18/13 | 10/18/13 | EPA 8015D                 |       |

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| Southwest Geoscience<br>2351 W. Northwest Hwy<br>Dallas TX, 75220 | Projec<br>Projec<br>Projec | ct Name:<br>ct Number:<br>ct Manager: | 6B-15<br>07174-0003<br>Kyle Summers<br><b>S-6</b> |          |         |          |          | Reported:<br>21-Oct-13 14 | :05   |
|---|----------------------------|---------------------------------------|---|----------|---------|----------|----------|---------------------------|-------|
|   |                            | P3100                                 | 71-06 (So   | lid)     |         |          |          |                           |       |
| Analyte   | Result                     | Reporting<br>Limit                    | Units   | Dilution | Batch   | Prepared | Analyzed | Method                    | Notes |
| Volatile Organics by EPA 8021                                     |                            |                                       |   |          |         |          |          |                           |       |
| Benzene   | 2.31                       | . 0.05                                | mg/kg   | 1        | 1342029 | 10/18/13 | 10/18/13 | EPA 8021B                 |       |
| Toluene   | 44.9                       | 0.05                                  | mg/kg   | 1        | 1342029 | 10/18/13 | 10/18/13 | EPA 8021B                 |       |
| Ethylbenzene  | 9.68                       | 0.05                                  | mg/kg   | 1        | 1342029 | 10/18/13 | 10/18/13 | EPA 8021B                 |       |
| p,m-Xylene  | 54.6                       | 0.05                                  | mg/kg   | 1        | 1342029 | 10/18/13 | 10/18/13 | EPA 8021B                 |       |
| o-Xylene  | 20.0                       | 0.05                                  | mg/kg   | 1        | 1342029 | 10/18/13 | 10/18/13 | EPA 8021B                 |       |
| Total Xylenes   | 74.6                       | 0.05                                  | mg/kg   | 1        | 1342029 | 10/18/13 | 10/18/13 | EPA 8021B                 |       |
| Total BTEX  | 132                        | 0.05                                  | mg/kg   | 1        | 1342029 | 10/18/13 | 10/18/13 | EPA 8021B                 |       |
| Surrogate: 1,3-Dichlorobenzene                                    |                            | 154 %                                 | 80-   | 120      | 1342029 | 10/18/13 | 10/18/13 | EPA 8021B                 | S-02  |
| Surrogate: Bromochlorobenzene                                     |                            | 128 %                                 | 80-   | 120      | 1342029 | 10/18/13 | 10/18/13 | EPA 8021B                 | S-02  |
| Nonhalogenated Organics by 8015                                   |                            | _                                     |   |          |         |          |          |                           |       |
| Gasoline Range Organics (C6-C10)                                  | 450                        | 4.99                                  | mg/kg ˈ   | 1        | 1342029 | 10/18/13 | 10/18/13 | EPA 8015D                 |       |
| Diesel Range Organics (C10-C28)                                   | 5220                       | 29.9                                  | mg/kg   | 1        | 1342028 | 10/18/13 | 10/18/13 | EPA 8015D                 |       |
| GRO and DRO Combined Fractions                                    | 5670                       | 4.99                                  | mg/kg   |          | [CALC]  | 10/18/13 | 10/18/13 | EPA 8015D                 |       |

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| Southwest Geoscience<br>2351 W. Northwest Hwy<br>Dallas TX, 75220 | Projec<br>Projec<br>Projec | t Name:<br>t Number:<br>t Manager: | 6B-15<br>07174<br>Kyle 3 | 6B-15<br>07174-0003<br>Kyle Summers |  |          |          | <b>Reported:</b><br>21-Oct-13 14:05 |       |  |
|---|----------------------------|------------------------------------|--------------------------|-------------------------------------|--|----------|----------|-------------------------------------|-------|--|
|   |                            | P3100'                             | S-7<br>71-07 (Sol        | lid)                                |  |          |          |                                     |       |  |
|   |                            | Reporting                          |                          |                                     |  |          | <u></u>  | <u> </u>                            |       |  |
| Analyte   | Result                     | Limit                              | Units                    | Dilution                            | Batch  | Prepared | Analyzed | Method                              | Notes |  |
| Volatile Organics by EPA 8021                                     |                            |                                    |                          |                                     |  |          |          |                                     |       |  |
| Benzene   | ND                         | 0.05                               | mg/kg                    | 1                                   | 1342029                                      | 10/18/13 | 10/18/13 | EPA 8021B                           |       |  |
| Toluene   | ND                         | 0.05                               | mg/kg                    | 1                                   | 1342029                                      | 10/18/13 | 10/18/13 | EPA 8021B                           |       |  |
| Ethylbenzene  | ND                         | 0.05                               | mg/kg                    | 1                                   | 1342029                                      | 10/18/13 | 10/18/13 | EPA 8021B                           |       |  |
| p,m-Xylene  | ND                         | 0.05                               | mg/kg                    | 1                                   | 1342029                                      | 10/18/13 | 10/18/13 | EPA 8021B                           |       |  |
| o-Xylene  | ND                         | 0.05                               | mg/kg                    | 1                                   | 1342029                                      | 10/18/13 | 10/18/13 | EPA 8021B                           |       |  |
| Total Xylenes   | ND                         | 0.05                               | mg/kg                    | 1                                   | 1342029                                      | 10/18/13 | 10/18/13 | EPA 8021B                           |       |  |
| Total BTEX  | ND                         | 0.05                               | mg/kg                    | 1                                   | 1342029                                      | 10/18/13 | 10/18/13 | EPA 8021B                           |       |  |
| Surrogate: Bromochlorobenzene                                     |                            | 91.9%                              | 80-                      | 120                                 | 1342029                                      | 10/18/13 | 10/18/13 | EPA 8021B                           |       |  |
| Surrogate: 1,3-Dichlorobenzene                                    |                            | 92.3 %                             | 80-                      | 120                                 | 1342029                                      | 10/18/13 | 10/18/13 | EPA 8021B                           |       |  |
| Nonhalogenated Organics by 8015                                   |                            |                                    |                          |                                     | <u>.                                    </u> |          |          |                                     |       |  |
| Gasoline Range Organics (C6-C10)                                  | 6.89                       | 5.00                               | mg/kg                    | 1                                   | 1342029                                      | 10/18/13 | 10/18/13 | EPA 8015D                           |       |  |
| Diesel Range Organics (C10-C28)                                   | 36.6                       | 30.0                               | mg/kg                    | 1                                   | 1342028                                      | 10/18/13 | 10/18/13 | EPA 8015D                           |       |  |
| GRO and DRO Combined Fractions                                    | 43.5                       | 5.00                               | mg/kg                    |                                     | [CALC]                                       | 10/18/13 | 10/18/13 | EPA 8015D                           |       |  |

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| Southwest Geoscience             | Project         | Name:     | 6B-15        | i        |           |          |          |                 |       |  |
|----------------------------------|-----------------|-----------|--------------|----------|-----------|----------|----------|-----------------|-------|--|
| 2351 W. Northwest Hwy            | Project Number: |           | 07174        | -0003    | Reported: |          |          |                 |       |  |
| Dallas TX, 75220                 | Project         | Manager:  | Kyle Summers |          |           |          |          | 21-Oct-13 14:05 |       |  |
|                                  |                 |           | S-8          |          |           |          |          |                 |       |  |
|                                  |                 | P3100'    | 71-08 (So    | lid)     |           |          |          |                 |       |  |
|                                  |                 | Reporting |              |          |           |          |          |                 |       |  |
| Analyte                          | Result          | Limit     | Units        | Dilution | Batch     | Prepared | Analyzed | Method          | Notes |  |
| Volatile Organics by EPA 8021    |                 |           |              |          |           |          |          |                 |       |  |
| Benzene                          | ND              | 0.05      | mg/kg        | 1        | 1342029   | 10/18/13 | 10/18/13 | EPA 8021B       |       |  |
| Toluene                          | ND              | 0.05      | mg/kg        | 1        | 1342029   | 10/18/13 | 10/18/13 | EPA 8021B       |       |  |
| Ethylbenzene                     | ND              | 0.05      | mg/kg        | 1        | 1342029   | 10/18/13 | 10/18/13 | EPA 8021B       |       |  |
| p,m-Xylene                       | ND              | 0.05      | mg/kg        | 1        | 1342029   | 10/18/13 | 10/18/13 | EPA 8021B       |       |  |
| o-Xylene                         | ND              | 0.05      | mg/kg        | 1        | 1342029   | 10/18/13 | 10/18/13 | EPA 8021B       |       |  |
| Total Xylenes                    | ND              | 0.05      | mg/kg        | · 1      | 1342029   | 10/18/13 | 10/18/13 | EPA 8021B       |       |  |
| Total BTEX                       | ND              | 0.05      | mg/kg        | 1        | 1342029   | 10/18/13 | 10/18/13 | EPA 8021B       |       |  |
| Surrogate: Bromochlorobenzene    |                 | 95.2 %    | 80-          | 120      | 1342029   | 10/18/13 | 10/18/13 | EPA 8021B       |       |  |
| Surrogate: 1,3-Dichlorobenzene   |                 | 92.4 %    | 80-          | 120      | 1342029   | 10/18/13 | 10/18/13 | EPA 8021B       |       |  |
| Nonhalogenated Organics by 8015  |                 |           |              |          |           |          |          |                 |       |  |
| Gasoline Range Organics (C6-C10) | ND              | 4.99      | mg/kg        | 1        | 1342029   | 10/18/13 | 10/18/13 | EPA 8015D       |       |  |
| Diesel Range Organics (C10-C28)  | ND              | 29.9      | mg/kg        | 1        | 1342028   | 10/18/13 | 10/18/13 | EPA 8015D       |       |  |
| GRO and DRO Combined Fractions   | ND              | 4.99      | mg/kg        |          | [CALC]    | 10/18/13 | 10/18/13 | EPA 8015D       |       |  |

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| Southwest Geoscience  | Project Name:    | 6B-15        |                 |
|-----------------------|------------------|--------------|-----------------|
| 2351 W. Northwest Hwy | Project Number:  | 07174-0003   | Reported:       |
| Dallas TX, 75220      | Project Manager: | Kyle Summers | 21-Oct-13 14:05 |

#### Volatile Organics by EPA 8021 - Quality Control

#### **Envirotech Analytical Laboratory**

|  |        | Reporting                              |       | Spike       | Source   |           | %REC      |       | RPD     |       |
|--|--------|--|-------|-------------|----------|-----------|-----------|-------|---------|-------|
| Analyte                                  | Result | Limit                                  | Units | Level       | Result   | %REC      | Limits    | RPD   | , Limit | Notes |
| Batch 1342029 - Purge and Trap EPA 5030A |        |  |       |             |          |           |           |       |         |       |
| Blank (1342029-BLK1)                     |        |  |       | Prepared: 1 | 7-Oct-13 | Analyzed: | 18-Oct-13 |       |         |       |
| Benzene                                  | ND     | 0.05                                   | mg/kg |             |          |           |           |       |         |       |
| Toluene                                  | ND     | 0.05                                   | "     |             |          |           |           |       |         |       |
| Ethylbenzene                             | ND     | 0.05                                   | "     |             |          |           |           |       |         |       |
| p,m-Xylene                               | ND     | 0.05                                   | n     |             |          |           |           |       |         |       |
| o-Xylene                                 | ND     | 0.05                                   | W     |             |          |           |           |       |         |       |
| Total Xylenes                            | ND     | 0.05                                   | u     |             |          |           |           |       |         |       |
| Total BTEX                               | ND     | 0.05                                   | "     |             |          |           |           |       |         |       |
| Surrogate: 1,3-Dichlorobenzene           | 47.4   |  | ug/L  | 50.0        |          | 94.7      | 80-120    |       |         |       |
| Surrogate: Bromochlorobenzene            | 49.8   |  | "     | 50.0        |          | 99.6      | 80-120    |       |         | ÷     |
| Duplicate (1342029-DUP1)                 | So     | urce: P310070-                         | 01    | Prepared: 1 | 7-Oct-13 | Analyzed: | 18-Oct-13 |       |         |       |
| Benzene                                  | ND     | 0.05                                   | mg/kg |             | ND       |           |           |       | 30      |       |
| Toluene                                  | 0.05   | 0.05                                   | "     |             | 0.05     |           |           | 0.255 | 30      |       |
| Ethylbenzene                             | ND     | 0.05                                   | "     |             | ND       |           |           |       | 30      |       |
| p,m-Xylene                               | 0.09   | 0.05                                   |       |             | 0.06     |           |           | 39.7  | 30      | DI    |
| o-Xylene                                 | ND     | 0.05                                   | "     |             | ND       |           |           |       | 30      |       |
| Surrogate: 1,3-Dichlorobenzene           | 49.0   | ······································ | ng/L  | 50.0        |          | 98.0      | 80-120    |       |         |       |
| Surrogate: Bromochlorobenzene            | 50.9   |  | n     | 50.0        |          | 102       | 80-120    |       |         |       |
| Matrix Spike (1342029-MS1)               | So     | urce: P310070-                         | 01    | Prepared: 1 | 7-Oct-13 | Analyzed: | 18-Oct-13 |       |         |       |
| Benzene                                  | 56.6   |  | ug/L  | 50.0        | 0.64     | 112       | 39-150    |       |         |       |
| Toluene                                  | 59.8   |  | "     | 50.0        | 1.00     | 118       | 46-148    |       |         |       |
| Ethylbenzene                             | 59.2   |  |       | 50.0        | 0.15     | 118       | 32-160    |       |         |       |
| p,m-Xylene                               | 118    |  | "     | 100         | 1.20     | 117       | 46-148    |       |         |       |
| o-Xylene                                 | 59.0   |  | "     | 50.0        | 0.52     | 117       | 46-148    |       |         |       |
| Surrogate: 1,3-Dichlorobenzene           | 48.7   |  | "     | 50.0        |          | 97.5      | 80-120    |       |         |       |
| Surrogate: Bromochlorobenzene            | 50.3   |  | "     | 50.0        |          | 101       | 80-120    |       |         |       |

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| Southwest Geoscience  | Project Name:    | 6B-15        |                 |
|-----------------------|------------------|--------------|-----------------|
| 2351 W. Northwest Hwy | Project Number:  | 07174-0003   | Reported:       |
| Dallas TX, 75220      | Project Manager: | Kyle Summers | 21-Oct-13 14:05 |

#### Nonhalogenated Organics by 8015 - Quality Control

| Envirotech Analytical Laboratory         |        |                    |       |                |   |             |                |     |              |       |  |
|--|--------|--------------------|-------|----------------|---|-------------|----------------|-----|--------------|-------|--|
| Analyte                                  | Result | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result                        | %REC        | %REC<br>Limits | RPD | RPD<br>Limit | Notes |  |
| Batch 1342028 - DRO Extraction EPA 3550C |        |                    |       |                |   |             |                |     |              |       |  |
| Blank (1342028-BLK1)                     |        |                    |       | Prepared: 1    | 17-Oct-13                               | Analyzed: 1 | 8-Oct-13       |     |              |       |  |
| Diesel Range Organics (C10-C28)          | ND     | 29.9               | mg/kg |                |   |             |                |     |              |       |  |
| Duplicate (1342028-DUP1)                 | Sou    | rce: P310070-      | 01    | Prepared: 1    | Prepared: 17-Oct-13 Analyzed: 18-Oct-13 |             |                |     |              |       |  |
| Diesel Range Organics (C10-C28)          | ND     | 30.0               | mg/kg |                | ND                                      |             |                |     | 30           |       |  |
| Matrix Spike (1342028-MS1)               | Sou    | rce: P310070-      | 01    | Prepared: 1    | 17-Oct-13                               | Analyzed: 1 | 18-Oct-13      |     |              |       |  |
| Diesel Range Organics (C10-C28)          | 251    |                    | mg/L  | . 250          | 8.82                                    | 96.7        | 75-125         |     |              |       |  |

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| Southwest Geoscience  | Project Name:    | 6B-15        |                 |
|-----------------------|------------------|--------------|-----------------|
| 2351 W. Northwest Hwy | Project Number:  | 07174-0003   | Reported:       |
| Dallas TX, 75220      | Project Manager: | Kyle Summers | 21-Oct-13 14:05 |

#### Nonhalogenated Organics by 8015 - Quality Control

#### **Envirotech Analytical Laboratory**

|  |                    | Reporting   |             | Spike       | Source      |             | %REC     |     | RPD   |       |
|--|--------------------|-------------|-------------|-------------|-------------|-------------|----------|-----|-------|-------|
| Analyte                                  | Result             | Limit       | Units       | Level       | Result      | %REC        | Limits   | RPD | Limit | Notes |
| Batch 1342029 - Purge and Trap EPA 5030A |                    |             | -           |             |             |             |          |     |       |       |
| Blank (1342029-BLK1)                     |                    |             |             | Prepared: 1 | 7-Oct-13    | Analyzed: 1 | 8-Oct-13 |     |       |       |
| Gasoline Range Organics (C6-C10)         | ND                 | 4.99        | mg/kg       |             |             |             |          |     |       |       |
| Duplicate (1342029-DUP1)                 | Sourc              | e: P310070- | 01          | Prepared:   | 17-Oct-13   | Analyzed: 1 | 8-Oct-13 |     |       |       |
| Gasoline Range Organics (C6-C10)         | ND                 | 4.99        | mg/kg       |             | ND          |             |          |     | 30    |       |
| Matrix Spike (1342029-MS1)               | Source: P310070-01 |             | Prepared: 1 | 7-Oct-13    | Analyzed: 1 | 8-Oct-13    |          |     | _     |       |
| Gasoline Range Organics (C6-C10)         | 0.54               |             | mg/L        | 0.450       | 0.06        | 107         | 75-125   |     |       |       |

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| Southwest Geoscience  | Project Name:    | 6B-15        |                 |
|-----------------------|------------------|--------------|-----------------|
| 2351 W. Northwest Hwy | Project Number:  | 07174-0003   | Reported:       |
| Dallas TX, 75220      | Project Manager: | Kyle Summers | 21-Oct-13 14:05 |

#### **Notes and Definitions**

- S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
- D1 Duplicates or Matrix Spike Duplicates Relative Percent Difference exceeds 30%.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

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| SWG/EPRO                               | D              | P              | Project Name / Location | on:            |                    |            |                   |        | 2000         |               |        |         | A       | NAL | /SIS     | / PAF    | RAME   | TERS  |      | <u> </u> |            |
|--|----------------|----------------|-------------------------|----------------|--------------------|------------|-------------------|--------|--------------|---------------|--------|---------|---------|-----|----------|----------|--------|-------|------|----------|------------|
| Email results to:                      | 81S            | s              | ampler Name:            | m m            | er                 | Ś          |                   |        | 3015)        | 8021)         | 8260)  | ഗ       |         |     |          |          |        |       |      |          |            |
| lient Phone No.:<br>903 821 560        | 3              | C              | ilient No.:<br>07174    | -DQ            | 53                 |            |                   |        | Aethod 8     | (Methoc       | Method | 8 Metal | / Anion |     | vith H/F | ole 910- | 118.1) | RIDE  |      | e Cool   | e Intact   |
| Sample No./ Identification             | Sample<br>Date | Sample<br>Time | Lab No.                 | No./\<br>of Co | /olume<br>ntainers | Pr<br>HNO3 | reservativ<br>нсі | e      | TPH (N       | BTEX (        | VOC (N | RCRA    | Cation  | RCI | TCLP V   | CO Tat   | ТРН (4 | СНГОЕ |      | Sample   | Sample     |
| 5-1                                    | 10/16/13       | 1300           | P310071-01              | 1 X            | 402.               |            |                   |        | X            | X             |        |         |         |     |          |          |        |       |      | X        | X          |
| 5~2                                    | 10/17/1        | \$ 1400        | P310071-02              |                |                    |            |                   |        |              |               |        |         |         |     |          |          |        |       |      |          |            |
| . S == 3                               |                | 1405           | P310071-03              |                |                    | -          |                   |        |              |               |        |         |         |     |          |          |        |       |      |          |            |
| <u>S-4</u>                             | <u>  </u>      | 1410           | P310071-04              |                |                    |            |                   |        | $\downarrow$ | $\downarrow$  |        |         |         |     |          |          |        |       |      |          |            |
| 55                                     |                | 1415           | P.310071-05             |                |                    |            |                   | _      |              | $\downarrow$  |        |         |         |     |          |          |        |       |      |          |            |
| 5-6                                    |                | 1420           | P3100-71-06             |                |                    |            |                   |        |              | +             |        |         |         |     |          |          |        |       |      |          |            |
| <u> </u>                               |                | 1423           | P310071-07              |                |                    |            |                   |        |              | +             |        |         |         |     |          |          |        |       |      |          |            |
| <u> </u>                               |                | 1150           | 7310071-08              | ¥              |                    | _          |                   |        |              | ¥             |        |         |         |     |          |          |        |       |      |          | + -        |
| K                                      | 5              |                |                         |                | <del></del>        | _          |                   |        |              |               |        |         |         |     |          |          |        |       |      | -        |            |
| elinquiched by: (Signature)            | <u> </u>       |                | - 14                    | Date/          | Time               | Recei      | ved by            | : (Sig | inatu<br>7 N | ıre)<br>∿∕\ ( |        | e       |         |     | ]        |          | l      |       | Date |          | Fime       |
| elinquished by: (Signature)            |                | <u>-</u>       |                         |                |                    | Recei      | ved by            | : (Sig | natu         | ire)          | Ũ      |         |         |     |          |          |        |       |      |          | <u>, v</u> |
| ample Matrix<br>oil 🕅 Solid 🗌 Sludge 🗌 | Aqueous 🗌      | ] Other [      | ]                       |                |                    | . K        | us.               | h      |              | ^             | N:     | rec.    | +L      | il  | 1 2      | Ē1       | ĸ      | 0     |      |          |            |

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#### **Analytical Report**

#### **Report Summary**

Client: Enterprise Products Chain Of Custody Number: 16248 Samples Received: 10/21/2013 4:50:00PM Job Number: 97057-0352 Work Order: P310085 Project Name/Location: 6B-15

Date: 10/22/13

Entire Report Reviewed By:

Tim Cain, Laboratory Manager

The results in this report apply to the samples submitted to Envirotech's Analytical Laboratory and were analyzed in accordance with the chain of custody document supplied by you, the client, and as such are for your exclusive use only. The results in this report are based on the sample as received unless otherwise noted. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. If you have any questions regarding this analytical report, please don't hesitate to contact Envirotech's Laboratory Staff.

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| Enterprise Products  | Project Name:    | 6B-15                      |                 |
|----------------------|------------------|----------------------------|-----------------|
| 614 Reilly Ave       | Project Number:  | 97057-0352                 | Reported:       |
| Farmington NM, 87401 | Project Manager: | Kyle Summers-SW Geoscience | 22-Oct-13 14:59 |

#### **Analyical Report for Samples**

| Client Sample ID | Lab Sample ID | Matrix | Sampled  | Received | Container        |
|------------------|---------------|--------|----------|----------|------------------|
| S-9              | P310085-01A   | Soil   | 10/21/13 | 10/21/13 | Glass Jar, 4 oz. |
| S-10             | P310085-02A   | Soil   | 10/21/13 | 10/21/13 | Glass Jar, 4 oz. |

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| Enterprise Products<br>614 Reilly Ave<br>Farmington NM, 87401 | Projec<br>Projec<br>Projec | et Name:<br>et Number:<br>et Manager: | 6B-15<br>97057<br>Kyle S | -0352<br>Summers-SV | V Geoscien | ce        | <b>Reported:</b><br>22-Oct-13 14 | :59       |       |
|---|----------------------------|---------------------------------------|--------------------------|---------------------|------------|-----------|----------------------------------|-----------|-------|
|   |                            | P31008                                | 85-01 (Sol               | id)                 |            |           |                                  |           |       |
| Analyte   | Result                     | Reporting<br>Limit                    | Units                    | Dilution            | Batch      | Prepared. | Analyzed                         | Method    | Notes |
| Volatile Organics by EPA 8021                                 |                            |                                       |                          |                     |            |           |                                  |           |       |
| Benzene   | ND                         | 0.05                                  | mg/kg                    | 1                   | 1343007    | 10/22/13  | 10/22/13                         | EPA 8021B |       |
| Toluene   | ND                         | 0.05                                  | mg/kg                    | 1                   | 1343007    | 10/22/13  | 10/22/13                         | EPA 8021B |       |
| Ethylbenzene  | ND                         | 0.05                                  | mg/kg                    | 1                   | 1343007    | 10/22/13  | 10/22/13                         | EPA 8021B |       |
| p,m-Xylene  | 0.07                       | 0.05                                  | mg/kg                    | 1                   | 1343007    | 10/22/13  | 10/22/13                         | EPA 8021B |       |
| o-Xylene  | ND                         | 0.05                                  | mg/kg                    | 1                   | 1343007    | 10/22/13  | 10/22/13                         | EPA 8021B |       |
| Total Xylenes   | 0.07                       | 0.05                                  | mg/kg                    | 1                   | 1343007    | 10/22/13  | 10/22/13                         | EPA 8021B |       |
| Total BTEX  | 0.07                       | 0.05                                  | mg/kg                    | 1                   | 1343007    | 10/22/13  | 10/22/13                         | EPA 8021B |       |
| Surrogate: Bromochlorobenzene                                 |                            | 85.3 %                                | 80-                      | 120                 | 1343007    | 10/22/13  | 10/22/13                         | EPA 8021B |       |
| Surrogate: 1,3-Dichlorobenzene                                |                            | 87.0 %                                | 80-                      | 120                 | 1343007    | 10/22/13  | 10/22/13                         | EPA 8021B |       |
| Nonhalogenated Organics by 8015                               |                            |                                       |                          |                     |            |           |                                  | /         |       |
| Gasoline Range Organics (C6-C10)                              | ND                         | 5.00                                  | mg/kg                    | 1                   | 1343007    | 10/22/13  | 10/22/13                         | EPA 8015D |       |
| Diesel Range Organics (C10-C28)                               | ND                         | 30.0                                  | mg/kg                    | 1 ·                 | 1343008    | 10/22/13  | 10/22/13                         | EPA 8015D |       |
| GRO and DRO Combined Fractions                                | ND                         | 5.00                                  | mg/kg                    |                     | [CALC]     | 10/22/13  | 10/22/13                         | EPA 8015D |       |

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| Enterprise Products<br>614 Reilly Ave<br>Farmington NM, 87401 | Projec<br>Projec<br>Projec | et Name:<br>et Number:<br>et Manager: | 6B-15<br>97057-0352<br>Kyle Summers-SW Geoscience<br>S-10 |          |         |          | <b>Reported:</b><br>22-Oct-13 14:59 |           |       |
|---|----------------------------|---------------------------------------|---|----------|---------|----------|-------------------------------------|-----------|-------|
|   |                            | P3100                                 | 85-02 (So   | lid)     |         |          |                                     |           |       |
| Analyte   | Result                     | Reporting<br>Limit                    | Units   | Dilution | Batch   | Prepared | Analyzed                            | Method    | Notes |
| Volatile Organics by EPA 8021                                 |                            |                                       |   |          |         |          |                                     |           |       |
| Benzene   | ND                         | 0.05                                  | mg/kg   | 1        | 1343007 | 10/22/13 | 10/22/13                            | EPA 8021B |       |
| Toluene   | ND                         | 0.05                                  | mg/kg   | 1        | 1343007 | 10/22/13 | 10/22/13                            | EPA 8021B |       |
| Ethylbenzene  | ND                         | 0.05                                  | mg/kg   | 1        | 1343007 | 10/22/13 | 10/22/13                            | EPA 8021B |       |
| p,m-Xylene  | 0.06                       | 0.05                                  | mg/kg   | 1        | 1343007 | 10/22/13 | 10/22/13                            | EPA 8021B |       |
| o-Xylene  | ND                         | 0.05                                  | mg/kg   | 1        | 1343007 | 10/22/13 | 10/22/13                            | EPA 8021B |       |
| Total Xylenes   | 0.06                       | 0.05                                  | mg/kg   | 1        | 1343007 | 10/22/13 | 10/22/13                            | EPA 8021B |       |
| Total BTEX  | 0.06                       | 0.05                                  | mg/kg   | 1        | 1343007 | 10/22/13 | 10/22/13                            | EPA 8021B |       |
| Surrogate: Bromochlorobenzene                                 |                            | 85.6 %                                | 80-   | 120      | 1343007 | 10/22/13 | 10/22/13                            | EPA 8021B |       |
| Surrogate: 1,3-Dichlorobenzene                                |                            | 83.3 %                                | 80-   | 120      | 1343007 | 10/22/13 | 10/22/13                            | EPA 8021B |       |
| Nonhalogenated Organics by 8015                               |                            |                                       |   |          |         |          |                                     |           |       |
| Gasoline Range Organics (C6-C10)                              | ND                         | 5.00                                  | mg/kg   | 1        | 1343007 | 10/22/13 | 10/22/13                            | EPA 8015D |       |
| Diesel Range Organics (C10-C28)                               | 43.8                       | 30.0                                  | mg/kg   | 1        | 1343008 | 10/22/13 | 10/22/13                            | EPA 8015D |       |
| GRO and DRO Combined Fractions                                | 43.8                       | 5.00                                  | mg/kg   |          | [CALC]  | 10/22/13 | 10/22/13                            | EPA 8015D |       |

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| Enterprise Products  | Project Name:    | 6B-15                      |                 |
|----------------------|------------------|----------------------------|-----------------|
| 614 Reilly Ave       | Project Number:  | 97057-0352                 | Reported:       |
| Farmington NM, 87401 | Project Manager: | Kyle Summers-SW Geoscience | 22-Oct-13 14:59 |

#### Volatile Organics by EPA 8021 - Quality Control

#### **Envirotech Analytical Laboratory**

|  |        | Reporting     |       | Spike                          | Source    |           | %REC   |      | RPD   |       |
|--|--------|---------------|-------|--------------------------------|-----------|-----------|--------|------|-------|-------|
| Analyte                                  | Result | Limit         | Units | Level                          | Result    | %REC      | Limits | RPD  | Limit | Notes |
| Batch 1343007 - Purge and Trap EPA 5030A |        |               |       |                                |           |           |        |      |       |       |
| Blank (1343007-BLK1)                     |        |               |       | Prepared 8                     | Analyzed  | 22-Oct-13 |        |      |       |       |
| Benzene                                  | ND     | 0.05          | mg/kg |                                |           |           |        |      |       |       |
| Toluene                                  | ND     | 0.05          |       |                                |           |           |        |      |       |       |
| Ethylbenzene                             | ND     | 0.05          |       |                                |           |           |        |      |       |       |
| p,m-Xylene                               | ND     | 0.05          | •     |                                |           |           |        |      |       |       |
| o-Xylene                                 | ND     | 0.05          |       |                                |           |           |        |      |       |       |
| Total Xylenes                            | ND     | 0.05          |       |                                |           |           |        |      |       |       |
| Total BTEX                               | ND     | 0.05          |       |                                |           |           |        |      |       |       |
| Surrogate: 1,3-Dichlorobenzene           | 50.0   |               | ug/L  | 50.0                           |           | 100       | 80-120 |      |       |       |
| Surrogate: Bromochlorobenzene            | 51.2   |               | "     | 50.0                           |           | 102       | 80-120 |      |       |       |
| Duplicate (1343007-DUP1)                 | Sou    | rce: P310084- | -01   | Prepared & Analyzed: 22-Oct-13 |           |           |        |      |       |       |
| Benzene                                  | 1.72   | 0.05          | mg/kg |                                | 0.42      |           |        | 122  | 30    | DI    |
| Toluene                                  | 27.9   | 0.05          | u     |                                | 24.8      |           |        | 11.8 | 30    |       |
| Ethylbenzene                             | 7.59   | 0.05          |       |                                | 6.93      |           |        | 9.18 | 30    |       |
| p,m-Xylene                               | 65.6   | 0.05          |       |                                | 61.1      |           |        | 7.11 | 30    |       |
| o-Xylene                                 | 14.6   | 0.05          | "     |                                | 15.5      |           |        | 5.98 | 30    |       |
| Surrogate: 1,3-Dichlorobenzene           | 64.1   |               | ug/L  | 50.0                           |           | 128       | 80-120 |      |       | Surrl |
| Surrogate: Bromochlorobenzene            | 53.7   |               | "     | 50.0                           |           | 107       | 80-120 |      |       |       |
| Matrix Spike (1343007-MS1)               | Sou    | rce: P310084- | 01    | Prepared &                     | Analyzed: | 22-Oct-13 |        |      |       |       |
| Benzene                                  | 19.9   |               | ug/L  | 50.0                           | 8.34      | 23.1      | 39-150 |      |       | SPK1  |
| Toluene                                  | 465    |               |       | 50.0                           | 496       | NR        | 46-148 |      |       | SPK I |
| Ethylbenzene                             | 177    |               | *     | 50.0                           | 139       | 76.9      | 32-160 |      |       |       |
| p,m-Xylene                               | 1180   |               | *     | 100                            | 1220      | NR        | 46-148 |      |       | SPK1  |
| o-Xylene                                 | 327    |               | "     | 50.0                           | 311       | 32.3      | 46-148 |      |       | SPK I |
| Surrogate: 1,3-Dichlorobenzene           | 65.4   |               |       | 50.0                           |           | 131       | 80-120 |      |       | SPKI  |
| Surrogate: Bromochlorobenzene            | 53.9   |               | "     | 50.0                           |           | 108       | 80-120 |      |       |       |

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| Enterprise Products  | Project Name:    | 6 <b>B-</b> 15             |                 |
|----------------------|------------------|----------------------------|-----------------|
| 614 Reilly Ave       | Project Number:  | 97057-0352                 | Reported:       |
| Farmington NM, 87401 | Project Manager: | Kyle Summers-SW Geoscience | 22-Oct-13 14:59 |

#### Nonhalogenated Organics by 8015 - Quality Control

# Envirotech Analytical Laboratory Reporting Spike Source %REC Result Limit Units Level Result %REC Limits

| Batch 1343007 - | Purge and ' | <b>Frap EPA 5030A</b> |  |
|-----------------|-------------|-----------------------|--|
|                 |             |                       |  |

Analyte

| Blank (1343007-BLK1)             |       |                    | Prepared &                     | 2 Analyzed | : 22-Oct-13 | 5      |      |    |      |
|----------------------------------|-------|--------------------|--------------------------------|------------|-------------|--------|------|----|------|
| Gasoline Range Organics (C6-C10) | ND    | 5.00 mg/k          |                                |            |             |        |      |    |      |
| Duplicate (1343007-DUP1)         | Sourc | e: P310084-01      | Prepared & Analyzed: 22-Oct-1? |            | 1           |        |      |    |      |
| Gasoline Range Organics (C6-C10) | 767   | 4.99 mg/k          | , <b>.</b>                     | 633        |             |        | 19.2 | 30 |      |
| Matrix Spike (1343007-MS1)       | Sourc | Source: P310084-01 |                                | 2 Analyzed | : 22-Oct-13 | ;      |      |    |      |
| Gasoline Range Organics (C6-C10) | 12.4  | mg/L               | 0.450                          | 12.7       | NR          | 75-125 |      |    | SPK1 |

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RPD

Limit

Notes

RPD



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| Enterprise Products                   | Pro      | ject Name:    | 6        | B-15        |           |           |        |                 |        |       |  |
|---------------------------------------|----------|---------------|----------|-------------|-----------|-----------|--------|-----------------|--------|-------|--|
| 614 Reilly Ave                        | Pro      | ject Number:  | 9        | 7057-0352   |           |           |        |                 | Report | ed:   |  |
| Farmington NM, 87401                  | Pro      | ject Manager: | К        | yle Summers | -SW Geosc | ience     |        | 22-Oct-13 14:59 |        |       |  |
|                                       | Nonhalog | enated Org    | anics by | y 8015 - Qu | ality Co  | ntrol     |        |                 |        |       |  |
|                                       | E        | nvirotech A   | Analyti  | cal Labor   | atory     |           |        |                 |        |       |  |
|                                       |          | Reporting     |          | Spike       | Source    |           | %REC   |                 | RPD    |       |  |
| Analyte                               | Result   | Limit         | Units    | Level       | Result    | %REC      | Limits | RPD             | Limit  | Notes |  |
| Batch 1343008 - DRO Extraction EPA 35 | 50C      |               |          |             |           |           |        |                 | _      |       |  |
| Blank (1343008-BLK1)                  |          |               |          | Prepared &  | Analyzed: | 22-Oct-13 |        |                 |        |       |  |
| Diesel Range Organics (C10-C28)       | ND       | 30.0          | mg/kg    |             |           |           |        |                 |        |       |  |
| Duplicate (1343008-DUP1)              | Sou      | rce: P310084- | 01       | Prepared &  | Analyzed: | 22-Oct-13 |        |                 |        |       |  |
| Diesel Range Organics (C10-C28)       | 214      | 30.0          | mg/kg    |             | 274       |           |        | 24.5            | 30     |       |  |
| Matrix Spike (1343008-MS1)            | Sou      | rce: P310084- | 01       | Prepared &  | Analyzed: | 22-Oct-13 |        |                 |        |       |  |
| Diesel Range Organics (C10-C28)       | 459      |               | mg/L     | 250         | 260       | 79.5      | 75-125 |                 |        |       |  |

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| Enterprise Products<br>614 Reilly Ave<br>Farmington NM, 87401 |   | Project Name:<br>Project Number:<br>Project Manager: | 6B-15<br>97057-0352<br>Kyle Summers-SW Geoscience | Reported:<br>22-Oct-13 14:59 |  |  |  |  |
|---|---|--|---|------------------------------|--|--|--|--|
|   |   | Notes and I  | Definitions                                       |                              |  |  |  |  |
| Surr1   | 1 Surrogate recovery was above acceptable limits. |  |   |                              |  |  |  |  |
| SPK 1   | The spike recovery for this QC sample is out      | ample is outside of control limits.                  |   |                              |  |  |  |  |
| D1  | Duplicates or Matrix Spike Duplicates Relati      | ive Percent Difference ex                            | sceeds 30%.                                       |                              |  |  |  |  |
| DET   | Analyte DETECTED                                  |  |   |                              |  |  |  |  |
| ND  | Analyte NOT DETECTED at or above the reporting    | ng limit   |   |                              |  |  |  |  |
| NR  | Not Reported                                      |  |   |                              |  |  |  |  |
| dry   | Sample results reported on a dry weight basis     |  |   |                              |  |  |  |  |
| RPD   | PD Relative Percent Difference                    |  |   |                              |  |  |  |  |

| 5796 US Highway 64, Farmington, NM 87401                        | Ph (505) 632-0615 | Fx (505) 632-1865 | envirotech-inc.com            |
|---|-------------------|-------------------|-------------------------------|
| Three Springs - 65 Mercado Street, Suite 115, Durango, CO 81301 | Ph (970) 259-0615 | Fr (800) 362-1879 | laboratory@envirotech-inc.com |

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| lient: AROR   |                            | Pro            | pjęct Name / Locati | on:                         | 1                      |                 | 1<br>2<br>2<br>2 | <u>S</u>    |                       |               |              | ΔNI        |          |          | PAP        |                | TER   | s  |         |        | ┥        |
|---|----------------------------|----------------|---------------------|-----------------------------|------------------------|-----------------|------------------|-------------|-----------------------|---------------|--------------|------------|----------|----------|------------|----------------|-------|----|---------|--------|----------|
| Pine :  | 60-12                      |                |                     |                             |                        |                 |                  |             | ANALYSIS / PAHAMETERS |               |              |            |          |          |            |                |       |    |         |        |          |
| mail results to:<br>Kyle Summe                        | Ryle Summers Sampler Name: |                |                     |                             |                        |                 |                  | 3015)       | 1 8021)               | 8260)         | თ            |            |          |          | -          |                |       |    |         |        |          |
| ient Phone No.:<br>90.3-921-5603 Client No.:<br>97.05 |                            |                |                     | 7-035 A                     |                        |                 |                  | Aethod a    | (Method               | Method        | 8 Metal      | / Anion    |          | with H/F | ble 910    | <b>118.1</b> ) | RIDE  |    |         | e Cool | e Intact |
| Sample No./ Identification                            | Sample<br>Date             | Sample<br>Time | Lab No.             | No./Volume<br>of Containers | Pr<br>HNO <sub>3</sub> | eservati<br>HCI | Vê               | ТРН (N      | BTEX                  | VOC (I        | RCRA         | Cation     | ÿ        |          | CO Tal     | TPH (4         | CHLOI |    |         | Sampl  | Sampl    |
| 5-9 1   | 0/21/1                     | 1600           | P31008501           | 12402                       |                        |                 |                  | $\varkappa$ | X                     | -             |              |            |          |          |            | Í              |       |    |         | Y      | Y        |
| 5-10 1  | 0/21/17                    | 1605           | P310085-02          | 1 × 402                     |                        |                 |                  | X           | R                     |               |              |            |          |          |            |                |       |    |         | Y      | Ý        |
|   |                            | •              |                     |                             |                        |                 |                  |             |                       |               |              |            |          |          |            |                |       |    |         |        |          |
|   |                            |                |                     |                             |                        | •               |                  |             |                       |               |              |            |          |          |            |                |       |    |         | _      |          |
|   |                            |                | NF                  | S                           |                        |                 |                  |             |                       |               | ×            |            |          |          |            |                |       |    |         |        |          |
|   |                            | <b></b>        | RIS                 | /                           |                        |                 |                  |             |                       |               |              |            |          |          |            |                |       |    |         |        |          |
|   |                            |                |                     |                             |                        |                 |                  |             |                       |               |              |            |          |          |            |                |       |    |         |        |          |
|   |                            |                |                     |                             |                        |                 | $\square$        |             |                       |               |              |            |          |          |            |                |       |    |         |        |          |
|   |                            |                |                     |                             |                        |                 | Ī                |             |                       | $\overline{}$ |              | $\uparrow$ |          |          |            |                |       |    |         |        |          |
|   |                            |                |                     |                             |                        |                 |                  |             |                       | $\rightarrow$ | $\checkmark$ |            |          |          |            | -              |       |    |         |        |          |
| elinquished/by: (Signature)                           | I                          |                |                     | Date Time                   | Recei                  | ved by          | γ: (Si           | gnatu       | ure)                  |               | =            |            |          |          |            | Į              |       |    | Date    | Tir    | me       |
| elinguished by: (Signature)                           |                            |                |                     | 1650                        | 7<br>Recei             | ved by          | /: (Si           | unate       | TTE)                  | 1             |              |            | <u>~</u> |          |            |                |       |    | 10/zi/1 | 5 16   | Ð        |
|   |                            |                |                     |                             |                        | <u></u>         |                  |             |                       | ,             |              |            |          |          |            |                |       |    |         |        |          |
| ample Matrix<br>pil 🖄 Solid 🗌 Sludge 🗌 Ac             | queous 🗌                   | Other 🔲        |                     |                             | K                      | , V             |                  | )/          | 4                     | _             | 2.           | •          |          |          |            |                |       |    | -       |        |          |
| ] Sample(s) dropped off after ho                      | urs to secu                | re drop of     | area.               | 2 env                       | <u> </u>               | \<br>\<br>\     |                  | •h          |                       | 7             | oy           | Ke         |          | K        | , B<br>7.5 | 2,1            | 120   | 50 | 4       | 4_,    |          |

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|                                 | main and a second   |                                  |                          |   |                 |                                 |               |                             |                       |                       |  |          |
|---------------------------------|---|----------------------------------|--------------------------|---|-----------------|---------------------------------|---------------|-----------------------------|-----------------------|-----------------------|--|----------|
| District I<br>1625 N. French    | h Dr., Hobbs  | , NM 88240                       |                          | State                                   | e of            | New Mex                         | kico          |                             |                       |                       | Form C-1   | 41       |
| District II<br>811 S. First St. | , Artesia, NN   | vi 88210                         |                          | Energy                                  | Mine            | erals and I                     | Natu          | ural                        |                       |                       | Revised August 8, 20                                       | 11       |
| District III<br>1000 Rio Brazo  | District III<br>1000 Rio Brazos Road, Aztec, NM 87410                         |                                  |                          |   |                 |                                 | •             |                             | Subr                  | nit 1 Copy<br>in,acco | y to appropriate District Off<br>ordance with 19.15.29 NMA | ce<br>C. |
| District IV<br>1220 S. St. Fra  | District IV OII Const<br>1220 S. St. Francis Dr., Santa Fe, NM 87505 1220 Sou |                                  |                          |   |                 |                                 | VISI          | on<br>Dr                    |                       |                       |  |          |
|                                 |   |                                  |                          | Sant                                    | a F             | e. NM 87                        | 505           | Dr.                         |                       |                       | ·  |          |
|                                 |   | F                                | Releas                   | e Notifica                              | tio             | n and C                         | orr           | ective                      | Actic                 | on                    |  |          |
|                                 |   | -                                |                          |   | OF              | PERATO                          | र             |                             |                       | Initial               | Report 🔲 Final Re  | oor      |
| Name of C                       | ompany:   | Enterprise I                     | Field Ser                | vices LLC                               |                 | Contact: T                      | hom           | as Long                     |                       |                       |  |          |
| Address: 6                      | 14 Reilly   | Ave, Farmin                      | gton, NN                 | 1 87401                                 |                 | Telephone<br>Facility Ty        | No.           | 505-599-2                   | 2286                  | oring Li              | ino  |          |
|                                 |   |                                  |                          |   |                 |                                 | Je. r         |                             | is Gatti              |                       |  |          |
| Surface Ov                      | wner: NAF   | //Navajo I                       | ribal                    | Mineral Ow                              | ner             | NAPI/Nav                        | ajo           | Iribal                      |                       | APING                 | )  |          |
|                                 | Castian   | Taunahin                         | Danga                    | LOCAT                                   | 101             |                                 | -EA           | SE                          | [ [act                | Van                   | County   |          |
| F                               | 6   | 27N                              | 8W                       | the                                     | Line            | South                           | the           | et from<br>e                | Line                  | vest                  | San Juan   |          |
|                                 |   | <u> </u>                         |                          | 2499                                    |                 |                                 |               | 1222                        |                       |                       | OIL CONS. DIV DIST.  | 3        |
|                                 |   | Latitude                         | e <u> </u>               | 0454                                    |                 | _ Longitue                      | de            | -108.157                    | 40                    |                       |  |          |
|                                 |   |                                  |                          | NATU                                    | RE              | OF REL                          | EAS           | SE                          |                       |                       | AUG UT ZUI4  |          |
| Source of R                     | ease: Natu<br>elease: Su  | ral Gas                          | nal corros               | ion                                     |                 | Volume o                        | f Rel         | ease: Unkr                  | nown                  | Volume                | Recovered: Unknown   |          |
|                                 |   |                                  |                          |   |                 | 7/22/2014                       | <b>i @ 3</b>  | 3:45 p.m.                   |                       | 7/22/201              | 4@4:10 p.m.  |          |
| Was Immed                       | liate Notice  | Given?                           | 🖾 Yes                    |   | t               | If YES, TO<br>NNEPA             | o Wh          | om? Notific                 | ation to              | NMOCD                 | - Cory Smith; Steve Austin                                 | - ۱      |
| Required                        |   | 1                                |                          |   |                 |                                 |               |                             |                       |                       |  |          |
| By Whom?                        | Thomas Lo   | ong                              |                          |   |                 | Date and                        | Hou           | r Notificatio               | n 7/23/2              | 014 @ 3:              | 54 p.m.  |          |
| vvas a vvate                    | ercourse Re   | eached?                          | 🛛 Yes                    | 🗌 No                                    |                 | IT YES, V                       | olum          | e Impacting                 | the Wa                | tercourse             | )  |          |
| If a Waterco                    | ureo wae l  | mnacted De                       | scribe Full              | ly *The release is                      | e loc           | ated in a sm                    | all or        | homoral w                   | ash No                | surface i             | magte were observed  |          |
| Describe Ca                     | ause of Pro   | blem and Re                      | medial Ac                | tion: Enterprise f                      | techr           | nician discov                   | ered          | a line leak                 | while pe              | erforming             | a pipeline patrol. The                                     |          |
| Enterprise te                   | echnician ii<br>d. Repairs  | nitiated notific<br>and remediat | ation proc<br>ion are cu | cedures. The line<br>Irrently being sch | e was<br>nedu   | s isolated, bl<br>led.          | own           | down, depr                  | essurize              | ed and loo            | ck out tag out was   |          |
|                                 | ,   |                                  |                          |   |                 |                                 |               |                             |                       |                       |  |          |
|                                 |   |                                  |                          |   |                 |                                 |               |                             |                       |                       |  |          |
| Describe Are                    | ea Affecteo<br>echnician ir   | and Cleanu                       | p Action T               | aken.*: Enterpris                       | se te<br>was    | chnician dise                   | covei<br>own  | red a line le<br>down_depri | ak while<br>essurize  | e performi            | ng a pipeline patrol. The                                  |          |
| implemente                      | d. Repairs  | and remediat                     | ion are cu               | irrently being sch                      | nedu            | led. A "final"                  | c-14          | 1 will be su                | bmitted               | upon rec              | eipt of the third party                                    |          |
| I hereby cer                    | tal contract  | information                      | given abo                | ort.<br>ve is true and co               | mple            | te to the be                    | st of         | my knowled                  | lge and               | understa              | nd that pursuant to NMOCI                                  | )        |
| rules and re                    | gulations a   | Ill operators a                  | re require               | d to report and/o                       | or file         | certain rele                    | ase r         | notifications               | and per               | rform cor             | rective actions for releases                               | ot       |
| relieve the o                   | perator of  | liability shoul                  | d their ope              | erations have fail                      | led to          | adequately                      | inve          | estigate and                | remedia               | ate conta             | mination that pose a threat                                | to       |
| ground wate                     | er, surface v<br>responsibili   | water, humar<br>ity for complia  | n health or<br>ance with | the environmen<br>any other federa      | t. In<br>I. sta | addition, NN<br>te, or local la | AOCI<br>aws a | D acceptan<br>and/or regul  | ce of a (<br>lations. | C-141 rep             | oort does not relieve the                                  |          |
|                                 |   | 10/1                             |                          |   |                 |                                 | <u>(</u>      | DIL CON                     | SERV                  | ATION                 | DIVISION <   | )        |
| Signature:                      |   |                                  |                          |   |                 |                                 |               |                             |                       |                       |  | /        |
| Printed Name: Jon Fields        |   |                                  |                          |   |                 | Approved b                      | y En          | vironmental                 | Special               | list:                 | The ~  |          |
| Title: Directo                  |   | Approval Da                      | ate: (                   | 9/8/14                                  | E               | Expiration                      | Date:         |                             |                       |                       |  |          |
| E-mail Addr                     | ess:jefields  | @eprod.com                       | 1                        |   |                 | Conditions                      | of Ap         | proval:                     |                       |                       |  |          |
|                                 | - Lasth   | aul                              |                          |   |                 |                                 |               |                             |                       |                       |  |          |
|                                 | s/04/l  | UIY<br>Date If Naco              | Phor                     | ne: (713) 381-66                        | 84              | 17                              |               |                             |                       |                       |  |          |
| Allach Addi                     | iuonai She  | ets il nece                      | ssai y                   |   | -               | #/wes                           | 46            | 25134                       | रुरु                  |                       |  |          |

| District I                            | Dr Hobbs  | NM 88240                              |                          | Stat                             | te of            | New Mex                       | ico                            |                  |                    | F  | Form C-141                |
|---------------------------------------|---|---------------------------------------|--------------------------|----------------------------------|------------------|-------------------------------|--------------------------------|------------------|--------------------|--|---------------------------|
| <u>District II</u><br>311 S First-St. | . Artesia, NM   | 1 88210                               |                          | Energy                           | Mine             | rals and N                    | latural                        |                  |                    | Revised A  | August 8, 201             |
| District III                          | trict III<br>10 Rio Brazos Road, Aztec, NM 87410<br>trict IV<br>OIL COL<br>00 S. St. Francis Dr. Santa Fe. NM 87505   |                                       |                          |                                  |                  |                               |                                | Sub              | mit 1 Copy         | y to appropriate [<br>ordance with 19.1  | District Office           |
| istrict IV                            |   |                                       |                          |                                  |                  |                               | vision                         |                  |                    |  |                           |
|                                       | ,   | ····· •, · · · · •                    |                          | 1220 Sar                         | ita Fe           | ы. ган<br>NM 87!              | cis Dr.<br>505                 |                  |                    |  |                           |
|                                       | in and<br>and the second second<br>second second |                                       | Releas                   | e Notifica                       | ation            | $\mathbf{n}$ and $\mathbf{C}$ | orrective                      | Acti             | on                 | a Maran yang Maran Walinda yan dapan teksan yang dari dari dari dari dari dari dari dari | and a maker a cardy again |
| :                                     | <br>-<br>   | •                                     | loicuð                   |                                  |                  |                               |                                |                  | 1 Initial I        |  | Final Bong                |
| Name of C                             | ompany:   | Enterprise F                          | Field Serv               | vices LLC                        |                  | Contact: Th                   | nomas Long                     |                  |                    |  | тпаттер                   |
| Address: 6                            | 14 Reilly A   | ve, Farmin                            | gton, NM                 | 87401                            |                  | Telephone                     | No. 505-599-                   | 2286             | koniner Li         | KCVD AUG 18  |                           |
| Facility Ival                         | me: Latera  | ai k-20                               |                          |                                  |                  | Facility Typ                  |                                | is Gau           |                    | <u>ine cume nu</u>   |                           |
| Surface Ov                            | vner: State   | e                                     |                          | Mineral O                        | wner:            | BLM                           | <u></u>                        |                  | API No             | ).<br>UIST. 3  |                           |
|                                       |   | · · · · · · · · · · · · · · · · · · · |                          | LOCA                             | TION             | OF REL                        | EASE                           |                  |                    |  | ·                         |
| Unit Letter<br>D                      | Section<br>16   | Township<br>26N                       | Range<br>7W              | Heet from the <b>309</b>         | Line             | South                         | Feet from<br>the<br>1195       | East&            | Vest               | Rio Arriba   |                           |
| · it :                                |   | Latitude                              | e 36.4                   | 9264                             |                  | Lonaitud                      | e -107.585                     | 537              |                    | •  |                           |
|                                       |   |                                       | <u></u>                  |                                  | IDE              |                               |                                |                  |                    | _  |                           |
| Type of Rele                          | ease: Natur   | al Gas and N                          | latural Ga               | s Liquids                        |                  | Volume of                     | Release: Unkr                  | nown             | Volume             | Recovered: Unk   | nown                      |
| Source of R                           | elease: Sus   | spected intern                        | nal corros               | on                               |                  | Date and 8/4/2014             | Hour of Occurre<br>@ 9:30 a.m. | ence:            | Date and<br>@ 1:45 | d Hour of Discove  | ery: 8/4/201              |
| Was Immed                             | iate Notice   | Given?                                |                          |                                  |                  | If YES, To                    | Whom? Notific                  | ation to         | NMOCD              | - Cory Smith   |                           |
| By Whom?                              | Thomas Lo   |                                       |                          |                                  | uirea            | Date and                      |                                |                  | •                  |  |                           |
| Was a Wate                            | ercourse Re   | ached?                                |                          |                                  |                  | If YES, Vo                    | lume Impacting                 | the W            | atercourse         | Э  |                           |
| ·····                                 | -   |                                       | 🛛 Yes                    | 🗋 No                             |                  |                               |                                |                  |                    |  |                           |
| If a Waterco                          | urse was Ir   | npacted, Des                          | scribe Full              | y.*The release                   | occurr           | ed in a sma                   | ll ephemeral wa                | ish. A s         | urface are         | a of approximate   | ely twelve                |
| Describe Ca                           | g and six (d<br>ause of Prot  | blem and Rei                          | mpacted<br>medial Ac     | tion: A third par                | ty repo          | orted a poss                  | ible line leak ald             | ong the          | Lateral K          | -20 pipeline right   | of way. The               |
| pipeline was                          | isolated, b   | lown down, l                          | ocked out                | and tagged ou<br>et long and six | t while          | investigatin                  | g the area. The                | release          | e is locate        | d in a small ephe  | emeral wash               |
| 2104.                                 | ou or uppre   |                                       | (12) (6                  | ot long and bis                  | ( ( ) <b>(</b> ) |                               |                                |                  |                    | legan the week o   | n nugust 4,               |
|                                       | -   |                                       |                          |                                  |                  |                               |                                |                  |                    |  |                           |
| Describe Are                          | ea Affected   | and Cleanup                           | Action T                 | aken.*: A third                  | party r          | eported a po                  | ssible line leak               | along t          | he Latera          | I K20 pipeline rig   | ht of way.                |
| wash A surfa                          | ace area of   | approximate                           | ly twelve                | (12) feet long a                 | nd six           | (6) wide wa                   | s impacted. Rep                | pairs an         | nd remedia         | ation began the w  | veek of                   |
| August 4, 21<br>environment           | 04.Repairs  | and remedia<br>or corrective          | ation bega<br>action rep | in the week of .<br>ort.         | July 28          | 8, 2104. A "fi                | nal" c-141 will b              | e subrr          | nitted upor        | n receipt of the th  | ird party                 |
| I hereby_cer                          | tify that the   | information g                         | given abov               | e is true and c                  | omplet           | te to the bes                 | t of my knowled                | ige and          | l understa         | nd that pursuant   | to NMOCD                  |
| which may e                           | endanger pu   | ublic health o                        | r the envi               | onment. The                      | accepta          | ance of a C-                  | 141 report by th               | ne NMC           | CD marke           | ed as "Final Repo  | ort" does not             |
| relieve the o<br>ground wate          | perator of li   | ability should<br>vater, human        | their ope<br>health or   | the environme                    | nt. In a         | adequately addition, NM       | Investigate and                | ce of a          | C-141 rep          | mination that pos<br>port does not relie   | se a threat to<br>eve the |
| operator of r                         | responsibilit   | y for complia                         | ince with a              | any other feder                  | al, stat         | e, or local la                | ws and/or regu                 | lations.         |                    |  |                           |
| <                                     | $\leq  $  | _/ //                                 | //                       |                                  |                  |                               |                                |                  | ATION              |  |                           |
| Signature:                            | N   | /aux                                  |                          |                                  |                  | Approved by                   | Environmental                  | Snecia           | alist              | no   | - /                       |
| Printed Nam                           | ne: Jon Field   | ds                                    |                          | ,<br>                            |                  |                               |                                |                  |                    |  |                           |
| Title: Directo                        | or, Enviro <u>nn</u>  | nental                                |                          | <u> </u>                         | /                | Approval Da                   | <u>te: 4/8/14</u>              | · []             | Expiration         | Date:  | <u> </u>                  |
| E-mail Addr                           | ess:jefields  | @eprod.com                            |                          |                                  |                  | Conditions c                  | f Approval:                    | •                |                    | Attached   |                           |
| Date:                                 | 8/13/2  | 2014                                  | Phon                     | e: (713)381-66                   | 84               |                               |                                |                  |                    |  |                           |
| Attach-Addi                           | tional She  | ets If Neces                          | sary                     |                                  | # 1              | JCS 142                       | 5152 3                         | 85               |                    |  |                           |
| ann an th                             |   | · · · ·                               | •• 1                     |                                  |                  | , , , , ,                     |                                | ι <sub>ο</sub> ς |                    |  | A                         |
|                                       | ·   |                                       |                          | •                                | ·                |                               |                                |                  |                    |  | (1)                       |
| ۳۰ ــ ۲۰۰۰ ۲۰۰<br>۲۰۰۰ - ۲۰۰۰ - ۲۰۰   | •••• • •••••••<br>••• ••• •••   |                                       |                          |                                  |                  |                               |                                |                  |                    |  | $\smile$                  |

District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 8750

#### State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

| District IV<br>1220 S. St. Fra  | ncis Dr., Sa   | nta Fe, NM 87410  | 505   | Oil Co<br>1220 Sar<br>Sar   | onser<br>South<br>ota Fe  | vation Di<br>St. Fran<br>a. NM 87  | vision<br>cis Dr.<br>505   |   | in acc   | ordance with 19.   | 15.29 NMAC.  |
|---|--|---|---|---|---|--|--|---|--|--|--|
|   |  | F   | Releas  | e Notific   | atior   | and C  | orrective  | Actio   | n  |  |  |
|   |  |   |   |   | OP  | ERATO  | ર  | $\boxtimes$   | Initial  | Report   | Final Report   |
| Name of C   | ompany:  | Enterprise  | Field Serv  | vices LLC   | . (   | Contact: T   | homas Long   |   |  |  |  |
| Address: 6  | 14 Reilly /  | Ave, Farmir   | igton, NM   | 87401   |   | Telephone  | No. 505-599-   | 2286  | oring  | ina  |  |
|   | ne. Linui  | itii Oliit#23   |   |   |   |  |  |   | ening L  |  |  |
| Surface Ov  | vner: Priv   | ate   |   | Mineral C   | Owner:  | BLM  |  |   | API N  | 0.   |  |
|   |  | 1   | 1- <u></u>  | LOCA  | TION  | OF REI   | EASE   |   |  |  |  |
| Unit Letter   | Section<br>9   | Township<br>24N   | Range<br>3W   | Feet from   | North   | n/Couth  | Feet from  | East  | /est   | County<br>Rio Arriba   |  |
|   |  |   |   | 1245  |   |  | 1945   |   |  |  |  |
|   |  | Latitude  | 36.32 <sup>-</sup>  | 1014  |   | Longitug   | le -107.164  | 4249  |  | KCAD HING 18   | 14   |
|   |  | -   |   | NAT   | URE   |  | FASE   |   |  | OIL CONS. DI   |  |
| Type of Rele  | ease: Natu   | al Gas and I  | Natural Ga  | s Liquids   |   | Volume o   | f Release: 12,8  | 04  | Volume   | Recovered: Unk   | nown   |
| Source of R   | elease: Pip<br>flood event   | eline was se  | vered as a  | a result of heav  | у   | Date and 8/5/2014  | Hour of Occurre  | ence:   | Date ar  | d Hour of Discov   | ery: 8/5/2014  |
| Was Immed   | iate Notice  | Given?  | s 🗆 No  | Not Rec   | uired   | If YES, To   | Whom? Notifi<br>mith; USACE a  | cation to   | D NRC -  | - Report # 10915   | 39; NMOCD  |
| By Whom?  | Thomas L   | ona   |   |   |   | Date and   | Hour:8/6/2014  | @ 3:00 p  |  |  | ·  |
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\* Attach Additional Sheets If Necessary

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#MS1425152473

District I District 1 1625 N. French Dr., Hobbs, NM 88240 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

**Oil Conservation Division** 

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Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

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OIL CONS. DIV DIST. 3 AUG 1 8 2014

#### **CORRECTIVE ACTION REPORT**

Property:

Canyon Largo #85 Well Tie Release SE 1/4, S13 T24N R6W Rio Arriba County, New Mexico

July 25, 2014 Apex Project No. 7030414G010

Prepared for:

Enterprise Field Services LLC 614 Reilly Avenue Farmington, NM 87401 Attn: Mr. Tom Long

Prepared by:

12 Maring alergen

Kyle Summers, C.P.G. Branch Manager / Senior Geologist

Elizabeth Scaggs, P.G. Senior Program Manager

Apex TITAN, Inc., a subsidiary of Apex Companies, LLC 606 S Rio Grande, Unit A, Aztec, NM 87410 T 505.334.5200 F 505.334.5204 www.apexcos.com

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APEX

#### CORRECTIVE ACTION REPORT

Canyon Largo #85 Well Tie Release SE 1/4, S13 T24N R6W Rio Arriba County, New Mexico

• Apex Project No. 7030414G010

#### 1.0 INTRODUCTION

#### 1.1 Site Description & Background

The Canyon Largo #85 well tie release site is located within the Enterprise Field Services LLC (Enterprise) pipeline right-of-way (ROW) in the southeast (SE) ¼ of Section 13 in Township 24 North and Range 6 West in rural Rio Arriba County, New Mexico, (36.310476N, 107.414786W) referred to hereinafter as the "Site" or "subject Site". The Site is located adjacent to an out-of-service well pad, on public land managed by the United States Bureau of Land Management (BLM). The Site is surrounded by native vegetation rangeland periodically interrupted with oil and gas gathering facilities, including the Enterprise natural gas gathering pipeline which traverses the area from north to south.

On May 16<sup>th</sup>, 2014, Enterprise experienced a valve release at the meter run of the Canyon Largo #85 well tie during a pressure test/pigging operation. Subsequent to coordination with the BLM, Enterprise initiated soil removal activities on May 22<sup>nd</sup>, 2014, to remediate the surface impact from the valve spray and flow path areas. An unknown quantity of condensate/water mixture was released from the pipeline as a mist that coated surface soils south of the release point and as liquid that flowed primarily north from the release point along the two-track ROW road and slightly east over the buried pipeline near the release source. Liquid release evidence and pooling was visible at the Site.

A topographic map depicting the location of the Site is included as Figure 1, and a Site Vicinity Map is included as Figure 2 in Appendix A.

#### 1.2 **Project Objective**

The primary objective of the corrective actions was to reduce the concentration of constituents of concern (COCs) in the on-Site soils to below the New Mexico Energy, Minerals, and Natural Resources Department (EMNRD), Oil Conservation Division (OCD) *Remediation Action Levels* using the New Mexico EMNRD OCD's *Guidelines for Remediation of Leaks, Spills and Releases* as guidance.

#### 2.0 SITE RANKING

The local BLM office, located in Farmington, NM, has indicated to Enterprise that they concur with the established New Mexico OCD rules and standards pertaining to corrective actions and remediation goals for oil and gas releases in northwest New Mexico. In accordance with the New Mexico ENMRD OCD's *Guidelines for Remediation of Leaks, Spills and Releases*, Apex TITAN, Inc. (Apex), utilized the general site characteristics obtained during the completion of corrective action activities and information available from the Office of the New Mexico Office of the State

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Engineer to determine the appropriate "ranking" for the Site. The ranking criteria and associated scoring are provided in the following table:

| Rankin   |                   | Ranking Score |     |
|--|-------------------|---------------|-----|
|  | <50 feet          | 20            |     |
| Depth to Groundwater   | 50 to 99 feet     | 10            | 20* |
|  | >100 feet         | 0             |     |
| Wellhead Protection Area • <1,000 feet from a water          | Yes               | 20            | 0   |
| source, or; <200 feet from<br>private domestic water source. | No                | 0             | Ū   |
|  | <200 feet         | 20            |     |
| Distance to Surface Water Body                               | 200 to 1,000 feet | 10            | 10  |
|  | 0                 |               |     |
| Total Ran  |                   | 30            |     |

\*Based on information from monitoring wells at the nearby Lindrith Compressor Station, groundwater is anticipated at <50 feet below grade surface.

Based on Apex's evaluation of the scoring criteria, the Site would have a maximum Total Ranking Score of "30". This ranking is based on the following:

- The Site is approximately 440 feet from an unnamed ephemeral wash. Based on this proximity, a maximum ranking for distance to surface water was assigned at "10".
- The nearest water well identified on the Office of the State Engineer website database is an estimated 2,200 feet to the east, across Largo wash, with a reported depth to water of 216 feet bgs. However, the proximity of the site to the ephemeral wash and data from monitoring wells at the nearby Lindrith Compressor Station indicate a potential depth to water of less than 50 feet bgs, resulting in a ranking of "20" for depth to groundwater.
- No water sources were identified within 1,000 feet of the search radius.

#### 3.0 **RESPONSE ACTIONS**

#### 3.1 Soil Excavation Activities

On May 16<sup>th</sup>, 2014, Enterprise experienced a valve release at the meter run of the Canyon Largo #85 well tie during a pressure test/pigging operation. Subsequent to coordination with the BLM, Enterprise initiated soil removal activities on May 22<sup>nd</sup>, 2014, to remediate the surface impact from the valve spray and flow path areas. An unknown quantity of condensate/water mixture was released from the pipeline as a mist that coated surface soils south of the release point and as liquid that flowed primarily north from the release point along the two-track ROW road and slightly east over the buried pipeline near the release source. Liquid release evidence and pooling was visible at the Site.

During the corrective action activities, Foutz and Bursum Construction Company, Inc. (F&B) provided heavy equipment and labor support, and Kyle Summers and Aaron Bryant, Apex environmental professionals, provided environmental support.

The Site was scraped/excavated utilizing heavy equipment to remove hydrocarbon-affected soils from the overspray area and liquid flow path. The overspray area measured approximately 100 feet long by 50 feet wide. The source-area spray and flow footprint measured approximately 40 feet long by 35 feet wide. The liquid flow-path (along the two-track) measured approximately 245



feet long by 1.5 feet wide. Additionally, an excavation measuring approximately 13 feet long by 10 feet wide by 4 feet deep was created to address an area of pooling east of the release point along the pipeline pipe chase.

The lithology encountered during the completion of corrective action activities primarily consisted of silty-sands.

A total of approximately 248 cubic yards of hydrocarbon affected soils were transported to the Envirotech, Inc. (Envirotech) landfarm near Hilltop, NM for disposal/remediation. The executed C-138 form and associated Bills of Lading are provided in Appendix B. The excavation was backfilled with clean imported fill and contoured to surrounding grade. The area will ultimately be reseeded with a BLM-approved seed mix.

Figure 3 is a site map that indicates the approximate location of the excavated area in relation to pertinent land features (Appendix A). Photographic documentation of the field activities is included in Appendix C.

#### 3.2 Soil Sampling Program

Apex screened head-space samples of Site soils with a photoionziation detector (PID) fitted with a 10.6 eV lamp to estimate excavation limits.

Apex's soil sampling program included the collection of eleven (11) composite confirmation samples (C-1 through C-11), from the resulting excavation for laboratory analysis. Figure 3 depicts the approximate location of the excavated areas and shows the final confirmation sample locations in relation to the final excavation dimensions (Appendix A).

The confirmation soil samples were collected and placed in laboratory prepared glassware, labeled/sealed using the laboratory supplied labels, and placed on ice in a cooler, which was secured with a custody seal. The sample cooler and completed chain-of-custody form were relinquished to Envirotech Analytical Laboratory in Bloomfield, New Mexico for rush analysis.

#### 3.3 Laboratory Analytical Methods

The confirmation soil samples were analyzed for benzene, toluene, ethylbenzene, and total xylenes (BTEX) utilizing EPA SW-846 Method #8021, and total petroleum hydrocarbons (TPH) gasoline range organics (GRO) and diesel range organics (DRO) utilizing EPA SW-846 Method #8015.

Laboratory results are summarized in Table 1, included in Appendix D. The executed chain-ofcustody form and laboratory data sheets are provided in Appendix E.

#### 4.0 DATA EVALUATION

The Site is subject to regulatory oversight by the New Mexico EMNRD OCD and the United States BLM. The local BLM office, located in Farmington, NM, has indicated to Enterprise that they concur with the established New Mexico OCD rules and standards pertaining to corrective actions and remediation goals for oil and gas releases in northwest New Mexico. To address activities related to condensate releases, the New Mexico EMNRD OCD utilizes the *Guidelines for Remediation of Leaks, Spills and Releases* as guidance, in addition to the OCD rules, specifically NMAC 19.15.30 *Remediation*. These guidance documents establish investigation and abatement action requirements for sites subject to reporting and/or corrective action.



#### 4.1 Confirmation Soil Samples

Apex compared the BTEX and TPH concentrations or reporting limits associated with the final confirmation samples collected from the excavated area to the OCD *Remediation Action Levels* (RALs) for sites having a total ranking score of "30".

- The laboratory analyses of confirmation samples collected from soils remaining in place do not indicate benzene concentrations above the laboratory reporting limits, which are below the OCD RAL.
- The laboratory analyses of the confirmation samples collected from soils remaining in place do not indicate total BTEX concentrations above the laboratory reporting limits, which are below the OCD RALs.
- The laboratory analyses of the confirmation samples C-1, C-2, and C-3 indicate TPH DRO concentrations ranging from 33.3 mg/Kg to 79.4 mg/Kg, which are below the OCD RAL of 100 mg/Kg. All remaining confirmation samples (C-4 through C-11) do not indicate TPH GRO/DRO concentrations above the laboratory reporting limits, which are below the OCD RAL of 100 mg/Kg for a Site ranking of "30".

Confirmation sample results are provided in Table 1 in Appendix D.

#### 5.0 FINDINGS AND RECOMMENDATIONS

The Canyon Largo #85 well tie release site is located within the Enterprise pipeline ROW in the SE ¼ of Section 13 in Township 24 North and Range 6 West in rural Rio Arriba County, New Mexico. The Site is located adjacent to an out-of-service well pad, on public land managed by the United States BLM. The Site is surrounded by native vegetation rangeland periodically interrupted with oil and gas gathering facilities, including the Enterprise natural gas gathering pipeline which traverses the area from north to south.

On May 16<sup>th</sup>, 2014, Enterprise experienced a valve release at the meter run of the Canyon Largo #85 well tie during a pressure test/pigging operation. Subsequent to coordination with the BLM, Enterprise initiated soil removal activities on May 22<sup>nd</sup>, 2014, to remediate the surface impact from the valve spray and flow path areas. An unknown quantity of condensate/water mixture was released from the pipeline as a mist that coated surface soils south of the release point and as liquid that flowed primarily north from the release point along the two-track ROW road and slightly east over the buried pipeline near the release source. Liquid release evidence and pooling was visible at the Site.

- The primary objective of the corrective actions was to reduce the concentration of COCs in the on-Site soils to below the New Mexico EMNRD OCD RALs using the New Mexico EMNRD OCD's Guidelines for Remediation of Leaks, Spills and Releases as guidance.
- The Site was scraped/excavated utilizing heavy equipment to remove hydrocarbonaffected soils from the overspray area and liquid flow path. Additionally, a small excavation was created to address an area of pooling east of the release point along the pipeline pipe chase.
- Prior to backfilling, eleven (11) final confirmation samples were collected from the resulting excavation for laboratory analyses. Based on analytical results, soils remaining in place do not exhibit COC concentrations above the OCD *RALs* for a Site ranking of "30".

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A total of approximately 248 cubic yards of hydrocarbon affected soils were transported to the Envirotech landfarm near Hilltop, NM for disposal/remediation. The excavation was backfilled with clean imported fill and contoured to the surrounding grade. The area will ultimately be reserved with a BLM-approved seed mix.

Based on field observations and laboratory analytical results, no additional investigation or corrective action appears warranted at this time.

#### 6.0 STANDARD OF CARE, LIMITATIONS, AND RELIANCE

Apex's services were performed in accordance with standards customarily provided by a firm rendering the same or similar services in the area during the same time period. Apex makes no warranties, expressed or implied, as to the services performed hereunder. Additionally, Apex does not warrant the work of third parties supplying information used in the report (e.g. laboratories, regulatory agencies, or other third parties). This scope of services was performed in accordance with the scope of work agreed with the client.

Findings, conclusions and recommendations resulting from these services are based upon information derived from the on-Site activities and other services performed under this scope of work and it should be noted that this information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, or not present during these services, and Apex cannot represent that the Site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those identified during this scope of services. Environmental conditions at other areas or portions of the Site may vary from those encountered at actual sample locations. Apex's findings and recommendations are based solely upon data available to Apex at the time of these services.

This report has been prepared for the exclusive use of Enterprise, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the Site) is prohibited without the expressed written authorization of Enterprise and Apex. Any unauthorized distribution or reuse is at the client's sole risk. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions and limitations stated in the proposal, the report, and Apex's Agreement. The limitation of liability defined in the agreement is the aggregate limit of Apex's liability to the client.

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APPENDIX A

## Figures

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Project No. 7030414G010

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### APPENDIX B

APEX

### Executed C-138 Solid Waste Acceptance Forms

District I 1625 N. French Dr., Hobbs, NM 88240 District II District III 1000 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

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

June 14 \*Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection. 97057-06410

Form C-138 Revised August 1, 2011

| <b>REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE</b>  |
|--|
| 1. Generator Name and Address:<br>Enterprise Field Services, LLC, 614 Reilly Avenue, Farmington, NM 87401  |
| 2. Originating Site: Canyon Largo #85 Well Site  |
| 3. Location of Material (Street Address, City, State or ULSTR):<br>Unit G, Section 13, T24N, R6W; 36.315904, -107.417533, Rio Arriba County  |
| <ul> <li>4. Source and Description of Waste: Hydrocarbon impacted soils generated from pipeline release.</li> <li>5. Estimated Volume 50 d<sup>3</sup>/ bis Known Volume (to be entered by the operator at the end of the haul) 8 (yd<sup>3</sup>) bis</li> </ul>  |
| 5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS   |
| I, <u>Thomas Long</u> representative or authorized agent for <u>Enterprise Field Services, LLC</u> do hereby<br>PRINT & SIGN NAME<br>certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988  |
| regulatory determination, the above described waste is: (Check the appropriate classification)   |
| RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-<br>exempt waste. Operator Use Only: Waste Acceptance Frequency I Monthly Weekly Per Load  |
| RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items) |
| 🗆 MSDS Information 🔲 RCRA Hazardous Waste Analysis 🖾 Process Knowledge 🔲 Other (Provide description in Box 4)  |
| GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS  |
| 1, <u>Jhan Lay</u> 5-21-14, representative for <u>Enterprise Field Services, LLC</u> authorize Envirotech, Inc. to   |
| Generator Signature<br>complete the required testing/sign the Generator Waste Testing Certification.   |
| I, <u>Kender</u> , representative for <u>Envirotech. Inc.</u> do hereby certify that   |
| have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results<br>of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of<br>19.15.36 NMAC.   |
| 6. Transporter: Foutz and Bursum   |
| OCD Permitted Surface Waste Management Facility  |
| Name and Facility Permit #: Envirotech Inc. Soil Remediation Facility Permit # NM-01-0011<br>Address of Facility: #43 Road 7175, South of Bloomfield NM<br>Method of Treatment and/or Disposal:  |
| 🗋 Evaporation 🗍 Injection 🗍 Treating Plant 🖾 Landfarm 🗍 Landfill 🗍 Other   |
| Waste Acceptance Status:   |
| PRINT NAME: Kenden Rununy - THE: Environmental Manager DATE: 6.5.14  |
| SIGNATURE: Kinchen Kunnen Telephone NO.: 505-632-0615  |
| January Contraction of the second   |

<u>District 1</u> 1625 N. French Dr., Hobbs, NM 88240 <u>District 11</u> 811 S. First St., Artesia, NM 88210 <u>District 111</u> 1000 Rio Brazos Road, Aztec, NM 87410 <u>District 1V</u> 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

97057-0640

Form C-138 Revised August 1, 2011

\*Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection.

| REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE   |
|--|
| 1. Generator Name and Address:<br>Enterprise Field Services, LLC, 614 Reilly Avenue, Farmington, NM 87401<br>May 14  |
| 2. Originating Site: Canyon Largo #85 Well Site  |
| 3. Location of Material (Street Address, City, State or ULSTR):<br>Unit G, Section 13, T24N, R6W; 36.315904, -107.417533, Rio Arriba County  |
| <ul> <li>4. Source and Description of Waste: Hydrocarbon impacted soils generated from pipeline release.</li> <li>5. Estimated Volume <u>50</u> bls Known Volume (to be entered by the operator at the end of the haul) <u>241</u> yd<sup>3</sup> bbls</li> </ul>  |
| 5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS   |
| 1, <u>Thomas Long</u> representative or authorized agent for <u>Enterprise Field Services, LLC</u> do hereby<br>PRINT & SIGN NAME  |
| certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)  |
| RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-<br>exempt waste. <i>Operator Use Only: Waste Acceptance Frequency Monthly</i> . <i>Weekly</i> Per Load  |
| RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)   |
| 🗆 MSDS Information 🔲 RCRA Hazardous Waste Analysis 🖾 Process Knowledge 📋 Other (Provide description in Box 4)  |
| GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS  |
| 1, <u>5-21-14</u> , representative for <u>Enterprise Field Services, LLC</u> authorize Envirotech, Inc. to<br>Generator Signature<br>complete the required testing/sign the Generator Waste Testing Certification.   |
| 1, <u>Runna</u> , representative for <u>Envirotech. Inc.</u> do hereby certify that<br>representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples<br>have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results<br>of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of<br>19.15.36 NMAC.<br>6. Transporter: Foutz and Bursum, Lobado, TR fructiong |
|  |
| OUD Permitted Surface Waste Management Facility  |
| Name and Facility Fermic #, Enviroteen inc, Son Remenation Facility Fermit # NM-01-0011<br>Address of Facility, #43 Road 7175, South of Bloomfield NM<br>Method of Treatment and/or Disposał   |
| 🗌 Evaporation 🔲 Injection 🔲 Treating Plant 🛛 Landfarm 门 Landfill 🔲 Other   |
| Waste Acceptance Status:   |
| PRINT NAME: Kendra Running TITLE: Waste Coordinator DATE: 5/2/14   |
| SIGNATURE:   |
| V  |
# APPENDIX C

APEX

# Photographic Documentation









View of Site, facing north, prior to corrective action activities.





## SITE PHOTOGRAPHS



## Photograph 4

Corrective action excavation at the pooling area above the pipe chase.



## Photograph 5

View of Site subsequent to corrective action at the point of release.



## Photograph 6

View of Site subsequent to the completion of corrective actions.



APEX

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# APPENDIX D

# Tables

|                                     |   |  |                    | TAC                           | นสถ                        |                    | <u></u>               |                       |                       |
|-------------------------------------|---|--|--------------------|-------------------------------|----------------------------|--------------------|-----------------------|-----------------------|-----------------------|
|                                     | *   |  | Genț               | yon Largo (#3<br>SOIL ANALYTI | JWEII TIƏREI<br>CALSUMMARY | 9339               |                       |                       |                       |
| Sample I.D.                         | Date  | Sample Depth<br>(feet)                   | Benzene<br>(mg/kg) | Toluene<br>(mg/kg)            | Ethylbenzene<br>(mg/kg)    | Xylenes<br>(mg/kg) | Total BTEX<br>(mg/kg) | TPH<br>GRO<br>(mg/kg) | TPH<br>DRO<br>(mg/kg) |
| New Mexico Ent<br>Department, Oil C | ergy, Mineral &<br>Conservation Dir<br>Action Level | Natural Resources<br>vision, Remediation | 10                 | NE                            | NE                         | NE                 | 50                    | 1                     | 00                    |
|                                     |   |  |                    | Final Composite C             | onfirmation Sample         | 8                  |                       |                       |                       |
| C-1                                 | 5/27/2014   | 0.0 - 0.25                               | <0.05              | <0.05                         | <0.05                      | <0.05              | ND                    | <5.00                 | 79.4                  |
| C-2                                 | 5/27/2014   | 0.0 - 0.25                               | <0.05              | <0.05                         | <0.05                      | <0.05              | ND                    | <5.00                 | 43.1                  |
| C-3                                 | 5/27/2014   | 0.0 - 0.25                               | <0.05              | <0.05                         | <0.05                      | <0.05              | ND                    | <5.00                 | 33.3                  |
| C-4                                 | 5/27/2014   | 0.0 - 0.25                               | <0.05              | <0.05                         | <0.05                      | <0.05              | ND                    | <4.99                 | <29.9                 |
| <u>C-5</u>                          | 5/27/2014   | 0.25 - 0.5                               | <0.05              | <0.05                         | <0.05                      | <0.05              | ND                    | <4.99                 | <29.9                 |
| <u>C-6</u>                          | 5/27/2014   | 0.25 - 0.5                               | <0.05              | <0.05                         | <0.05                      | <0.05              | ND                    | <4.99                 | <29.9                 |
| C-7                                 | 5/27/2014   | <u>0.5 - 3.5</u>                         | <0.05              | <0.05                         | <0.05                      | <0.05              | ND                    | <4.99                 | <30.0                 |
| C-8                                 | 5/27/2014   | 0.5 - 3.5                                | <0.05              | <0.05                         | <0.05                      | <0.05              | ND                    | <5.00                 | <29.9                 |
| C-9                                 | 5/27/2014   | 0.5 - 3.5                                | <0.05              | <0.05                         | <0.05                      | <0.05              | ND                    | <4.99                 | <29.9                 |
| C-10                                | 5/27/2014   | 0.5 - 3.5                                | <0.05              | <0.05                         | <0.05                      | <0.05              | ND                    | <5.00                 | <30.0                 |
| C-11                                | 5/27/2014   | 0.5 - 3.5                                | < 0.05             | <0.05                         | <0.05                      | <0.05              | ND                    | <5.00                 | <30.0                 |

 C-11
 5/27/2014
 0.5 - 3.5
 <0.05</th>
 <0.05</th>

 Note: Concentrations in bold and yellow exceed the applicable OCD Remediation Action Level NE = Not Established
 Note: Concentrations in bold and yellow exceed the applicable OCD Remediation Action Level NE = Not Established

ND = Not Detected

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APEX

APPENDIX E

Laboratory Data Reports & Chain-of-Custody Documentation



## **Analytical Report**

## **Report Summary**

Client: Enterprise Products Chain Of Custody Number: 16822 Samples Received: 5/28/2014 11:15:00AM Job Number: 97057-0352 Work Order: P405061 Project Name/Location: L/C #85 TIE

Entire Report Reviewed By:

Date: 6/3/14

Tim Cain, Laboratory Manager

The results in this report apply to the samples submitted to Envirotech's Analytical Laboratory and were analyzed in accordance with the chain of custody document supplied by you, the client, and as such are for your exclusive use only. The results in this report are based on the sample as received unless otherwise noted. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. If you have any questions regarding this analytical report, please don't hesitate to contact Envirotech's Laboratory Staff.

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 Fr (800) 362-1879
 Taboratory@envirotech-inc.com



| Enterprise Products  | Project Name:    | L/C #85 TIE             |                 |
|----------------------|------------------|-------------------------|-----------------|
| 614 Reilly Ave       | Project Number:  | 97057-0352              | Reported:       |
| Farmington NM, 87401 | Project Manager: | Kyle Summers-Apex TITAN | 03-Jun-14 16:35 |

## **Analyical Report for Samples**

| Client Sample ID | Lab Sample ID | Matrix | Sampled    | Received | Container        |
|------------------|---------------|--------|------------|----------|------------------|
| C-1              | P405061-01A   | Soil   | 05/27/14   | 05/28/14 | Glass Jar, 4 oz. |
|                  | P405061-01B   | Soil   | 05/27/14   | 05/28/14 | Glass Jar, 4 oz. |
| C-2              | P405061-02A   | Soil   | 05/27/14   | 05/28/14 | Glass Jar, 4 oz. |
|                  | P405061-02B   | Soil   | 05/27/14   | 05/28/14 | Glass Jar, 4 oz. |
| C-3              | P405061-03A   | Soil   | 05/27/14   | 05/28/14 | Glass Jar, 4 oz. |
|                  | P405061-03B   | Soil   | 05/27/14   | 05/28/14 | Glass Jar, 4 oz. |
| C-4              | P405061-04A   | Soil   | 05/27/14   | 05/28/14 | Glass Jar, 4 oz. |
|                  | P405061-04B   | Soil   | 05/27/14   | 05/28/14 | Glass Jar, 4 oz. |
| C-5              | P405061-05A   | Soil   | 05/27/14   | 05/28/14 | Glass Jar, 4 oz. |
|                  | P405061-05B   | Soil   | 05/27/14   | 05/28/14 | Glass Jar, 4 oz. |
| C-6              | P405061-06A   | Soil   | 05/27/14   | 05/28/14 | Glass Jar, 4 oz. |
|                  | P405061-06B   | Soil   | 05/27/14   | 05/28/14 | Glass Jar, 4 oz. |
| C-7              | P405061-07A   | Soil   | 05/27/14   | 05/28/14 | Glass Jar, 4 oz. |
|                  | P405061-07B   | Soil   | 05/27/14   | 05/28/14 | Glass Jar, 4 oz. |
| C-8              | P405061-08A   | Soil   | . 05/27/14 | 05/28/14 | Glass Jar, 4 oz. |
|                  | P405061-08B   | Soil   | 05/27/14   | 05/28/14 | Glass Jar, 4 oz. |
| C-9              | P405061-09A   | Soil   | 05/27/14   | 05/28/14 | Glass Jar, 4 oz. |
|                  | P405061-09B   | Soil   | 05/27/14   | 05/28/14 | Glass Jar, 4 oz. |
| C-10             | P405061-10A   | Soil   | 05/27/14   | 05/28/14 | Glass Jar, 4 oz. |
|                  | P405061-10B   | Soil   | 05/27/14   | 05/28/14 | Glass Jar, 4 oz. |

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| Enterprise Products<br>614 Reilly Ave<br>Farmington NM, 87401 | Project<br>Project<br>Project | t Name:<br>t Number:<br>t Manager: | L/C i<br>9705<br>Kyle | #85 TIE<br>7-0352<br>Summers-A | <b>Reported:</b><br>03-Jun-14 16:35 |          |          |           |       |
|---|-------------------------------|------------------------------------|-----------------------|--------------------------------|-------------------------------------|----------|----------|-----------|-------|
| C-1<br>P405061-01 (Solid)                                     |                               |                                    |                       |                                |                                     |          |          |           |       |
| Analyte   | Result                        | Reporting<br>Limit                 | Units                 | Dilution                       | Batch                               | Prepared | Analyzed | Method    | Notes |
| Volatile Organics by EPA 8021                                 |                               |                                    |                       |                                |                                     |          |          |           |       |
| Benzene   | ND                            | 0.05                               | mg/kg                 | 1                              | 1422002                             | 05/28/14 | 05/30/14 | EPA 8021B |       |
| Toluene   | ND                            | 0.05                               | mg/kg                 | 1                              | 1422002                             | 05/28/14 | 05/30/14 | EPA 8021B |       |
| Ethylbenzene  | ND                            | 0.05                               | mg/kg                 | 1                              | 1422002                             | 05/28/14 | 05/30/14 | EPA 8021B |       |
| p,m-Xylene  | ND                            | 0.05                               | mg/kg                 | 1                              | 1422002                             | 05/28/14 | 05/30/14 | EPA 8021B |       |
| o-Xylene  | ND                            | 0.05                               | mg/kg                 | 1                              | 1422002                             | 05/28/14 | 05/30/14 | EPA 8021B |       |
| Total Xylenes   | ND                            | 0.05                               | mg/kg                 | 1                              | 1422002                             | 05/28/14 | 05/30/14 | EPA 8021B |       |
| Total BTEX  | ND                            | 0.05                               | mg/kg                 | 1                              | 1422002                             | 05/28/14 | 05/30/14 | EPA 8021B |       |
| Surrogate: Bromochlorobenzene                                 |                               | 99.9 %                             | 80                    | -120                           | 1422002                             | 05/28/14 | 05/30/14 | EPA 8021B |       |
| Surrogate: 1,3-Dichlorobenzene                                |                               | 101 %                              | 80                    | -120                           | 1422002                             | 05/28/14 | 05/30/14 | EPA 8021B |       |
| Nonhalogenated Organics by 8015                               |                               |                                    |                       |                                |                                     |          |          |           |       |
| Gasoline Range Organics (C6-C10)                              | ND                            | 5.00                               | mg/kg                 | 1                              | 1422002                             | 05/28/14 | 05/30/14 | EPA 8015D |       |
| Diesel Range Organics (C10-C28)                               | 79.4                          | 29.9                               | mg/kg                 | 1                              | 1422001                             | 05/28/14 | 05/30/14 | EPA 8015D |       |

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| Enterprise Products<br>614 Reilly Ave<br>Farmington NM, 87401 | Projec<br>Projec<br>Projec | et Name:<br>et Number:<br>et Manager: | L/C ;<br>9705<br>Kyle | L/C #85 TIE<br>97057-0352<br>Kyle Summers-Apex TITAN |         |          |          | <b>Reported:</b><br>03-Jun-14 16:35 |       |
|---|----------------------------|---------------------------------------|-----------------------|--|---------|----------|----------|-------------------------------------|-------|
|   |                            | P4050                                 | C-2<br>61-02 (So      | olid)  |         |          |          |                                     |       |
| Analyte   | Result                     | Reporting<br>Limit                    | Units                 | Dilution   | Batch   | Prepared | Analyzed | Method                              | Notes |
| Volatile Organics by EPA 8021                                 |                            |                                       |                       |  |         |          |          |                                     |       |
| Benzene   | ND                         | 0.05                                  | mg/kg                 | 1  | 1422002 | 05/28/14 | 05/30/14 | EPA 8021B                           |       |
| Toluene   | ND                         | 0.05                                  | mg/kg                 | 1  | 1422002 | 05/28/14 | 05/30/14 | EPA 8021B                           |       |
| Ethylbenzene  | ND                         | 0.05                                  | mg/kg                 | 1  | 1422002 | 05/28/14 | 05/30/14 | EPA 8021B                           |       |
| p,m-Xylene  | ND                         | 0.05                                  | mg/kg                 | 1  | 1422002 | 05/28/14 | 05/30/14 | EPA 8021B                           |       |
| o-Xylene  | ND                         | 0.05                                  | mg/kg                 | 1  | 1422002 | 05/28/14 | 05/30/14 | EPA 8021B                           |       |
| Total Xylenes   | ND                         | 0.05                                  | mg/kg                 | 1  | 1422002 | 05/28/14 | 05/30/14 | EPA 8021B                           |       |
| Total BTEX  | ND                         | 0.05                                  | mg/kg                 | 1  | 1422002 | 05/28/14 | 05/30/14 | EPA 8021B                           |       |
| Surrogate: 1,3-Dichlorobenzene                                |                            | 100 %                                 | 80-                   | -120   | 1422002 | 05/28/14 | 05/30/14 | EPA 8021B                           |       |
| Surrogate: Bromochlorobenzene                                 |                            | 101 %                                 | 80-                   | -120   | 1422002 | 05/28/14 | 05/30/14 | EPA 8021B                           |       |
| Nonhalogenated Organics by 8015                               |                            |                                       |                       |  |         |          |          |                                     |       |
| Gasoline Range Organics (C6-C10)                              | ND                         | 5.00                                  | mg/kg                 | 1  | 1422002 | 05/28/14 | 05/30/14 | EPA 8015D                           |       |
| Diesel Range Organics (C10-C28)                               | 43.1                       | 30.0                                  | mg/kg                 | 1  | 1422001 | 05/28/14 | 05/30/14 | EPA 8015D                           |       |

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# Analytical Laboratory

| Enterprise Products<br>614 Reilly Ave<br>Farmington NM, 87401 | Ргојес<br>Ргојес<br>Ргојес | t Name:<br>t Number:<br>t Manager: | L/C<br>9705<br>Kyle | L/C #85 TIE<br>97057-0352<br>Kyle Summers-Apex TITAN |         |          |          | <b>Reported:</b><br>03-Jun-14 16:35 |       |
|---|----------------------------|------------------------------------|---------------------|--|---------|----------|----------|-------------------------------------|-------|
|   |                            |                                    | C-3                 |  |         |          |          |                                     |       |
| ·   |                            | P4050                              | 61-03 (Se           | olid)  |         |          | ·        |                                     |       |
| Analyte   | Result                     | Reporting<br>Limit                 | Units               | Dilution   | Batch   | Prepared | Analyzed | Method                              | Notes |
| Volatile Organics by EPA 8021                                 |                            |                                    |                     |  |         |          |          | •                                   |       |
| Benzene   | ND                         | 0.05                               | mg/kg               | 1  | 1422002 | 05/28/14 | 05/30/14 | EPA 8021B                           |       |
| Toluene   | ND                         | 0.05                               | mg/kg               | 1  | 1422002 | 05/28/14 | 05/30/14 | EPA 8021B                           |       |
| Ethylbenzene  | ND                         | 0.05                               | mg/kg               | 1  | 1422002 | 05/28/14 | 05/30/14 | EPA 8021B                           |       |
| p,m-Xylene  | ND                         | 0.05                               | mg/kg               | 1  | 1422002 | 05/28/14 | 05/30/14 | EPA 8021B                           |       |
| o-Xylene  | ND                         | 0.05                               | mg/kg               | 1  | 1422002 | 05/28/14 | 05/30/14 | EPA 8021B                           |       |
| Total Xylenes   | ND ,                       | 0.05                               | mg/kg               | 1  | 1422002 | 05/28/14 | 05/30/14 | EPA 8021B                           |       |
| Total BTEX  | ND                         | 0.05                               | mg/kg               | 1  | 1422002 | 05/28/14 | 05/30/14 | EPA 8021B                           |       |
| Surrogate: 1,3-Dichlorobenzene                                |                            | 99.6 %                             | 80-                 | -120   | 1422002 | 05/28/14 | 05/30/14 | EPA 8021B                           |       |
| Surrogate: Bromochlorobenzene                                 |                            | 101 %                              | 80-                 | -120   | 1422002 | 05/28/14 | 05/30/14 | EPA 8021B                           |       |
| Nonhalogenated Organics by 8015                               |                            |                                    |                     |  |         |          |          |                                     |       |
| Gasoline Range Organics (C6-C10)                              | ND                         | 4.99                               | mg/kg               | 1  | 1422002 | 05/28/14 | 05/30/14 | EPA 8015D                           |       |
| Diesel Range Organics (C10-C28)                               | 33.3                       | 30.0                               | mg/kg               | 1  | 1422001 | 05/28/14 | 05/30/14 | EPA 8015D                           |       |

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| Enterprise Products<br>614 Reilly Ave<br>Farmington NM, 87401 | Project<br>Project<br>Project | Name:<br>Number:<br>Manager: | L/C #<br>9705<br>Kyle | L/C #85 TIE<br>97057-0352<br>Kyle Summers-Apex TITAN |         |          |          | <b>Reported:</b><br>03-Jun-14 16:35 |            |
|---|-------------------------------|------------------------------|-----------------------|--|---------|----------|----------|-------------------------------------|------------|
|   |                               | P4050                        | C-4<br>61-04 (So      | olid)  |         |          |          |                                     |            |
|   |                               | Reporting                    |                       |  |         |          |          |                                     |            |
| Analyte   | Result                        | Limit                        | Units                 | Dilution   | Batch   | Prepared | Analyzed | Method                              | Notes      |
| Volatile Organics by EPA 8021                                 |                               |                              |                       |  |         |          |          |                                     |            |
| Benzene   | ND                            | 0.05                         | mg/kg                 | 1  | 1422002 | 05/28/14 | 05/30/14 | EPA 8021B                           |            |
| Toluene   | ND                            | 0.05                         | mg/kg                 | 1  | 1422002 | 05/28/14 | 05/30/14 | EPA 8021B                           |            |
| Ethylbenzene  | ND                            | 0.05                         | mg/kg                 | 1  | 1422002 | 05/28/14 | 05/30/14 | EPA 8021B                           |            |
| p,m-Xylene  | ND                            | 0.05                         | mg/kg                 | 1  | 1422002 | 05/28/14 | 05/30/14 | EPA 8021B                           |            |
| o-Xylene  | ND                            | 0.05                         | mg/kg                 | 1  | 1422002 | 05/28/14 | 05/30/14 | EPA 8021B                           |            |
| Total Xylenes   | ND                            | 0.05                         | mg/kg                 | 1  | 1422002 | 05/28/14 | 05/30/14 | EPA 8021B                           |            |
| Total BTEX  | ND                            | 0.05                         | mg/kg                 | 1  | 1422002 | 05/28/14 | 05/30/14 | EPA 8021B                           |            |
| Surrogate: Bromochlorobenzene                                 |                               | 103 %                        | 80-                   | -120   | 1422002 | 05/28/14 | 05/30/14 | EPA 8021B                           |            |
| Surrogate: 1,3-Dichlorobenzene                                |                               | 103 %                        | 80-                   | -120   | 1422002 | 05/28/14 | 05/30/14 | EPA 8021B                           |            |
| Nonhalogenated Organics by 8015                               |                               |                              |                       |  |         |          |          |                                     | <u>_</u> _ |
| Gasoline Range Organics (C6-C10)                              | ND                            | 4.99                         | mg/kg                 | 1  | 1422002 | 05/28/14 | 05/30/14 | EPA 8015D                           |            |
| Diesel Range Organics (C10-C28)                               | ND                            | 29.9                         | mg/kg                 | 1  | 1422001 | 05/28/14 | 05/30/14 | EPA 8015D                           |            |

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|---|----------------------------|---------------------------------------|--|----------|---------|----------|----------|---------------------------|-------------------------------------|--|
| •   |                            | P4050                                 | C-5<br>61-05 (So                                     | olid)    |         |          | •        |                           |                                     |  |
| Analyte   | Result                     | Reporting<br>Limit                    | Units  | Dilution | Batch   | Prepared | Analyzed | Method                    | Notes                               |  |
| Volatile Organics by EPA 8021                                 |                            |                                       |  |          |         | _        |          |                           |                                     |  |
| Benzene   | ND                         | 0.05                                  | mg/kg  | 1        | 1422002 | 05/28/14 | 05/30/14 | EPA 8021B                 |                                     |  |
| Toluene   | ND                         | 0.05                                  | mg/kg  | 1        | 1422002 | 05/28/14 | 05/30/14 | EPA 8021B                 |                                     |  |
| Ethylbenzene  | ND                         | 0.05                                  | mg/kg  | 1        | 1422002 | 05/28/14 | 05/30/14 | EPA 8021B                 |                                     |  |
| p,m-Xylene  | ND                         | 0.05                                  | mg/kg  | 1        | 1422002 | 05/28/14 | 05/30/14 | EPA 8021B                 |                                     |  |
| o-Xylene  | ND                         | 0.05                                  | mg/kg  | 1        | 1422002 | 05/28/14 | 05/30/14 | EPA 8021B                 |                                     |  |
| Total Xylenes   | ND                         | 0.05                                  | mg/kg  | 1        | 1422002 | 05/28/14 | 05/30/14 | EPA 8021B                 |                                     |  |
| Total BTEX  | ND                         | 0.05                                  | mg/kg  | 1        | 1422002 | 05/28/14 | 05/30/14 | EPA 8021B                 |                                     |  |
| Surrogate: Bromochlorobenzene                                 |                            | 103 %                                 | 80-  | -120     | 1422002 | 05/28/14 | 05/30/14 | EPA 8021B                 |                                     |  |
| Surrogate: 1,3-Dichlorobenzene                                |                            | 101 %                                 | 80-  | -120     | 1422002 | 05/28/14 | 05/30/14 | EPA 8021B                 |                                     |  |
| Nonhalogenated Organics by 8015                               |                            |                                       |  |          |         |          |          |                           |                                     |  |
| Gasoline Range Organics (C6-C10)                              | ND                         | 4.99                                  | mg/kg  | 1        | 1422002 | 05/28/14 | 05/30/14 | EPA 8015D                 |                                     |  |
| Diesel Range Organics (C10-C28)                               | ND                         | 29.9                                  | mg/kg  | 1        | 1422001 | 05/28/14 | 05/30/14 | EPA 8015D                 |                                     |  |

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| Enterprise Products<br>614 Reilly Ave<br>Farmington NM, 87401 | Project<br>Project<br>Project | Name:<br>Number:<br>Manager: | L/C #85 TIE<br>97057-0352<br>Kyle Summers-Apex TITAN |          |         |          |          | <b>Reported:</b><br>03-Jun-14 16:35 |       |  |
|---|-------------------------------|------------------------------|--|----------|---------|----------|----------|-------------------------------------|-------|--|
| C-6<br>P405061-06 (Solid)                                     |                               |                              |  |          |         |          |          |                                     |       |  |
| Analyte   | Result                        | Reporting<br>Limit           | Units  | Dilution | Batch   | Prepared | Analyzed | Method                              | Notes |  |
| Volatile Organics by EPA 8021                                 |                               |                              |  |          |         | _        |          |                                     |       |  |
| Benzene   | ND                            | 0.05                         | mg/kg  | 1        | 1422002 | 05/28/14 | 05/30/14 | EPA 8021B                           |       |  |
| Toluene   | ND                            | 0.05                         | mg/kg  | 1        | 1422002 | 05/28/14 | 05/30/14 | EPA 8021B                           |       |  |
| Ethylbenzene  | ND                            | 0.05                         | mg/kg  | 1        | 1422002 | 05/28/14 | 05/30/14 | EPA 8021B                           |       |  |
| p,m-Xylene  | ND                            | 0.05                         | mg/kg  | 1        | 1422002 | 05/28/14 | 05/30/14 | EPA 8021B                           |       |  |
| o-Xylene  | ND                            | 0.05                         | mg/kg  | 1        | 1422002 | 05/28/14 | 05/30/14 | EPA 8021B                           |       |  |
| Total Xylenes   | ND                            | 0.05                         | mg/kg  | 1        | 1422002 | 05/28/14 | 05/30/14 | EPA 8021B                           |       |  |
| Total BTEX  | ND                            | 0.05                         | mg/kg  | 1        | 1422002 | 05/28/14 | 05/30/14 | EPA 8021B                           |       |  |
| Surrogate: Bromochlorobenzene                                 |                               | 118 %                        | 80-  | -120     | 1422002 | 05/28/14 | 05/30/14 | EPA 8021B                           |       |  |
| Surrogate: 1,3-Dichlorobenzene                                |                               | 104 %                        | 80-  | -120     | 1422002 | 05/28/14 | 05/30/14 | EPA 8021B                           |       |  |
| Nonhalogenated Organics by 8015                               |                               |                              |  |          |         |          |          |                                     |       |  |
| Gasoline Range Organics (C6-C10)                              | ND                            | 4.99                         | mg/kg  | 1        | 1422002 | 05/28/14 | 05/30/14 | EPA 8015D                           |       |  |
| Diesel Range Organics (C10-C28)                               | ND                            | 30.0                         | mg/kg  | 1        | 1422001 | 05/28/14 | 05/30/14 | EPA 8015D                           |       |  |

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|---|----------------------------|---------------------------------------|--|----------|---------|----------|----------|-------------------------------------|-------|
| C-7<br>P405061-07 (Solid)                                     |                            |                                       |  |          |         |          |          |                                     |       |
| Analyte   | Result                     | Reporting<br>Limit                    | Units  | Dilution | Batch   | Prepared | Analyzed | Method                              | Notes |
| Volatile Organics by EPA 8021                                 |                            |                                       |  |          |         |          | <u></u>  |                                     |       |
| Benzene   | ND                         | 0.05                                  | mg/kg  | 1        | 1422002 | 05/28/14 | 05/30/14 | EPA 8021B                           |       |
| Toluene   | ND                         | 0.05                                  | mg/kg  | 1        | 1422002 | 05/28/14 | 05/30/14 | EPA 8021B                           |       |
| Ethylbenzene  | ND                         | 0.05                                  | mg/kg  | 1 I      | 1422002 | 05/28/14 | 05/30/14 | EPA 8021B                           |       |
| p,m-Xylene  | ND                         | 0.05                                  | mg/kg  | 1 .      | 1422002 | 05/28/14 | 05/30/14 | EPA 8021B                           |       |
| o-Xylene  | ND                         | 0.05                                  | mg/kg  | 1        | 1422002 | 05/28/14 | 05/30/14 | EPA 8021B                           |       |
| Total Xylenes   | ND                         | 0.05                                  | mg/kg  | 1        | 1422002 | 05/28/14 | 05/30/14 | EPA 8021B                           |       |
| Total BTEX  | ND                         | 0.05                                  | mg/kg  | 1        | 1422002 | 05/28/14 | 05/30/14 | EPA 8021B                           |       |
| Surrogate: Bromochlorobenzene                                 |                            | 114 %                                 | 80   | -120     | 1422002 | 05/28/14 | 05/30/14 | EPA 8021B                           |       |
| Surrogate: 1,3-Dichlorobenzene                                |                            | 97.9 %                                | 80-  | -120     | 1422002 | 05/28/14 | 05/30/14 | EPA 8021B                           |       |
| Nonhalogenated Organics by 8015                               |                            |                                       |  |          |         |          |          |                                     |       |
| Gasoline Range Organics (C6-C10)                              | ND                         | 4.99                                  | mg/kg  | 1        | 1422002 | 05/28/14 | 05/30/14 | EPA 8015D                           |       |
| Diesel Range Organics (C10-C28)                               | ND                         | 30.0                                  | mg/kg  | 1        | 1422001 | 05/28/14 | 05/30/14 | EPA 8015D                           |       |

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| Enterprise Products<br>614 Reilly Ave<br>Farmington NM, 87401 | Projec<br>Projec<br>Projec | et Name:<br>et Number:<br>et Manager: | L/C #<br>9705<br>Kyle | #85 TIE `<br>7-0352<br>Summers-A | pex TITAN |          |          | <b>Reported:</b><br>03-Jun-14 16: | 35    |
|---|----------------------------|---------------------------------------|-----------------------|----------------------------------|-----------|----------|----------|-----------------------------------|-------|
|   |                            | P4050                                 | C-8<br>61-08 (So      | olid)                            |           |          |          |                                   |       |
|   |                            | Reporting                             |                       |                                  |           |          |          |                                   |       |
| Analyte   | Result                     | Limit                                 | Units                 | Dilution                         | Batch     | Prepared | Analyzed | Method                            | Notes |
| Volatile Organics by EPA 8021                                 |                            |                                       |                       |                                  |           |          |          |                                   |       |
| Benzene   | ND                         | 0.05                                  | mg/kg                 | 1                                | 1422002   | 05/28/14 | 05/30/14 | EPA 8021B                         |       |
| Toluene   | ND                         | 0.05                                  | mg/kg                 | 1                                | 1422002   | 05/28/14 | 05/30/14 | EPA 8021B                         |       |
| Ethylbenzene  | ND                         | 0.05                                  | mg/kg                 | 1                                | 1422002   | 05/28/14 | 05/30/14 | EPA 8021B                         |       |
| p,m-Xylene  | ND                         | 0.05                                  | mg/kg                 | 1                                | 1422002   | 05/28/14 | 05/30/14 | EPA 8021B .                       |       |
| o-Xylene  | ND                         | 0.05                                  | mg/kg                 | 1                                | 1422002   | 05/28/14 | 05/30/14 | EPA 8021B                         |       |
| Total Xylenes   | ND                         | 0.05                                  | mg/kg                 | 1                                | 1422002   | 05/28/14 | 05/30/14 | EPA 8021B                         |       |
| Total BTEX  | ND                         | 0.05                                  | mg/kg                 | 1                                | 1422002   | 05/28/14 | 05/30/14 | EPA 8021B                         |       |
| Surrogate: Bromochlorobenzene                                 |                            | 108 %                                 | 80-                   | 120                              | 1422002   | 05/28/14 | 05/30/14 | EPA 8021B                         |       |
| Surrogate: 1,3-Dichlorobenzene                                |                            | 100 %                                 | 80-                   | 120                              | 1422002   | 05/28/14 | 05/30/14 | EPA 8021B                         |       |
| Nonhalogenated Organics by 8015                               |                            |                                       |                       |                                  |           |          |          |                                   |       |
| Gasoline Range Organics (C6-C10)                              | ND                         | 5.00                                  | mg/kg                 | 1                                | 1422002   | 05/28/14 | 05/30/14 | EPA 8015D                         | _     |
| Diesel Range Organics (C10-C28)                               | ND                         | 29.9                                  | mg/kg                 | 1                                | 1422001   | 05/28/14 | 05/30/14 | EPA 8015D                         | a.    |

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| Enterprise Products<br>614 Reilly Ave<br>Farmington NM, 87401 | Projec<br>Projec<br>Projec | et Name:<br>et Number:<br>et Manager: | L/C =<br>9705<br>Kyle | L/C #85 TIE<br>97057-0352<br>Kyle Summers-Apex TITAN |         |          |          | <b>Reported:</b><br>03-Jun-14 16:35 |       |  |
|---|----------------------------|---------------------------------------|-----------------------|--|---------|----------|----------|-------------------------------------|-------|--|
| C-9<br>P405061-09 (Solid)                                     |                            |                                       |                       |  |         |          |          |                                     |       |  |
| Analyte   | Result                     | Reporting<br>Limit                    | Units                 | Dilution   | Batch   | Prepared | Analyzed | Method                              | Notes |  |
| Volatile Organics by EPA 8021                                 |                            |                                       |                       |  |         |          |          |                                     |       |  |
| Benzene   | · ND                       | 0.05                                  | mg/kg                 | 1  | 1422002 | 05/28/14 | 05/30/14 | EPA 8021B                           |       |  |
| Toluene   | ND                         | 0.05                                  | . mg/kg               | 1  | 1422002 | 05/28/14 | 05/30/14 | EPA 8021B                           |       |  |
| Ethylbenzene  | ND                         | 0.05                                  | mg/kg                 | 1  | 1422002 | 05/28/14 | 05/30/14 | EPA 8021B                           |       |  |
| p,m-Xylene  | ND                         | 0.05                                  | mg/kg                 | 1  | 1422002 | 05/28/14 | 05/30/14 | EPA 8021B                           |       |  |
| o-Xylene  | ND                         | 0.05                                  | mg/kg                 | 1  | 1422002 | 05/28/14 | 05/30/14 | EPA 8021B                           |       |  |
| Total Xylenes   | ND                         | 0.05                                  | mg/kg                 | 1  | 1422002 | 05/28/14 | 05/30/14 | EPA 8021B                           |       |  |
| Total BTEX  | ND                         | 0.05                                  | mg/kg                 | 1  | 1422002 | 05/28/14 | 05/30/14 | EPA 8021B                           |       |  |
| Surrogate: Bromochlorobenzene                                 |                            | 97.1%                                 | 80-                   | -120   | 1422002 | 05/28/14 | 05/30/14 | EPA 8021B                           |       |  |
| Surrogate: 1,3-Dichlorobenzene                                |                            | 94.6 %                                | 80-                   | -120   | 1422002 | 05/28/14 | 05/30/14 | EPA 8021B                           |       |  |
| Nonhalogenated Organics by 8015                               |                            |                                       | _                     |  |         |          |          |                                     |       |  |
| Gasoline Range Organics (C6-C10)                              | ND                         | 4.99                                  | mg/kg                 | 1  | 1422002 | 05/28/14 | 05/30/14 | EPA 8015D                           |       |  |
| Diesel Range Organics (C10-C28)                               | ND                         | 29.9                                  | mg/kg                 | 1  | 1422001 | 05/28/14 | 05/30/14 | EPA 8015D                           |       |  |

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| Enterprise Products<br>614 Reilly Ave<br>Farmington NM, 87401 | Project<br>Project<br>Project | t Name:<br>t Number:<br>t Manager: | L/C i<br>9705<br>Kyle | #85 TIE<br>7-0352<br>Summers-A | pex TITAN |          |          | <b>Reported:</b><br>03-Jun-14 16 | :35   |
|---|-------------------------------|------------------------------------|-----------------------|--------------------------------|-----------|----------|----------|----------------------------------|-------|
| C-10<br>P405061-10 (Solid)                                    |                               |                                    |                       |                                |           |          |          |                                  |       |
| Reporting   |                               |                                    |                       |                                |           |          |          |                                  |       |
| Analyte   | Result                        | Limit                              | Units                 | Dilution                       | Batch     | Prepared | Analyzed | Method                           | Notes |
| Volatile Organics by EPA 8021                                 |                               |                                    |                       |                                | _         |          |          |                                  |       |
| Benzene   | ND                            | 0.05                               | mg/kg                 | 1                              | 1422002   | 05/28/14 | 05/30/14 | EPA 8021B                        |       |
| Toluene   | ND                            | 0.05                               | mg/kg                 | 1                              | 1422002   | 05/28/14 | 05/30/14 | EPA 8021B                        |       |
| Ethylbenzene  | ND                            | 0.05                               | mg/kg                 | 1                              | 1422002   | 05/28/14 | 05/30/14 | EPA 8021B                        |       |
| p,m-Xylene  | ND                            | 0.05                               | mg/kg                 | 1                              | 1422002   | 05/28/14 | 05/30/14 | EPA 8021B                        |       |
| o-Xylene  | ND                            | 0.05                               | mg/kg                 | 1                              | 1422002   | 05/28/14 | 05/30/14 | EPA 8021B                        |       |
| Total Xylenes   | ND                            | 0.05                               | mg/kg                 | 1                              | 1422002   | 05/28/14 | 05/30/14 | EPA 8021B                        |       |
| Total BTEX  | ND                            | 0.05                               | mg/kg                 | 1                              | 1422002   | 05/28/14 | 05/30/14 | EPA 8021B                        |       |
| Surrogate: 1,3-Dichlorobenzene                                |                               | 96.6 %                             | 80                    | -120                           | 1422002   | 05/28/14 | 05/30/14 | EPA 8021B                        |       |
| Surrogate: Bromochlorobenzene                                 |                               | 100 %                              | 80-                   | -120                           | 1422002   | 05/28/14 | 05/30/14 | EPA 8021B                        |       |
| Nonhalogenated Organics by 8015                               |                               |                                    |                       |                                |           |          |          |                                  |       |
| Gasoline Range Organics (C6-C10)                              | ND                            | 5.00                               | mg/kg                 | 1                              | 1422002   | 05/28/14 | 05/30/14 | EPA 8015D                        |       |
| Diesel Range Organics (C10-C28)                               | ND                            | 30.0                               | mg/kg                 | 1                              | 1422001   | 05/28/14 | 05/30/14 | EPA 8015D                        |       |

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| Enterprise Products  | Project Name:    | L/C #85 TIE             |                 |
|----------------------|------------------|-------------------------|-----------------|
| 614 Reilly Ave       | Project Number:  | 97057-0352              | Reported:       |
| Farmington NM, 87401 | Project Manager: | Kyle Summers-Apex TITAN | 03-Jun-14 16:35 |

#### Volatile Organics by EPA 8021 - Quality Control

## **Envirotech Analytical Laboratory**

| 1                                  |              | Reporting      |       | Spike       | Source    |           | %REC      |      | RPD   |       |
|------------------------------------|--------------|----------------|-------|-------------|-----------|-----------|-----------|------|-------|-------|
| Analyte                            | Result       | Limit          | Units | Level       | Result    | %REC      | Limits    | RPD  | Limit | Notes |
| Batch 1422002 - Purge and Trap EP. | A 5030A      | <u></u>        |       |             |           |           |           |      |       |       |
| Blank (1422002-BLK1)               |              |                |       | Prepared: 2 | 27-May-14 | Analyzed: | 28-May-14 |      |       |       |
| Benzene                            | ND           | 0.05           | mg/kg |             |           |           |           |      |       |       |
| Toluene                            | ND           | 0.05           | •     |             |           |           |           |      |       |       |
| Ethylbenzene                       | ND           | 0.05           |       |             |           |           |           |      |       |       |
| p,m-Xylene                         | . ND         | 0.05           | •     |             |           |           |           |      |       |       |
| o-Xylene                           | ND           | 0.05           |       |             |           |           |           |      |       |       |
| Total Xylenes                      | ND           | 0.05           | Ð     |             |           |           |           |      |       |       |
| Total BTEX                         | ND           | 0.05           | 0.1   |             |           |           |           |      |       |       |
| Surrogate: 1,3-Dichlorobenzene     | 51.0         |                | ug/L  | 50.0        |           | 102       | 80-120    |      |       |       |
| Surrogate: Bromochlorohenzene      | 53.7         |                | "     | 50.0        |           | 107       | 80-120    |      |       |       |
| Duplicate (1422002-DUP1)           | Sou          | irce: P405057- | 01    | Prepared: 2 | 27-May-14 | Analyzed: | 28-May-14 |      |       |       |
| Benzene                            | ND           | 0.05           | mg/kg |             | ND        |           |           |      | 30    | •     |
| Toluene                            | ND           | 0.05           | "     |             | ND        |           |           |      | 30    |       |
| Ethylbenzene                       | 0.06         | 0.05           |       |             | ND        |           |           |      | 30    |       |
| p,m-Xylene                         | 0.48         | 0.05           | "     |             | 0.38      |           |           | 22.6 | 30    |       |
| o-Xylene                           | ND           | 0.05           | *     |             | ND        |           |           |      | 30    |       |
| Surrogate: 1,3-Dichlorobenzene     | 54.9         |                | ug/L  | 50.0        |           | 110       | 80-120    |      |       |       |
| Surrogate: Bromochlorobenzene      | 7 <i>3.4</i> |                | "     | 50.0        |           | 147       | 80-120    |      |       | S-02  |
| Matrix Spike (1422002-MS1)         | Sou          | irce: P405057- | 01    | Prepared: 2 | 7-May-14  | Analyzed  | 28-May-14 |      |       |       |
| Benzene                            | 46.6         |                | ug/L  | 50.0        | ND        | 93.2      | 39-150    |      |       |       |
| Toluene                            | 50.2         |                | *     | 50.0        | ND        | 100       | 46-148    |      |       |       |
| Ethylbenzene                       | 56.4         |                | **    | 50.0        | 0.56      | 112       | 32-160    |      |       |       |
| p,m-Xylene                         | 114          |                |       | 100         | 7.66      | 106       | 46-148    |      |       |       |
| o-Xylene                           | 56.9         |                | *     | 50.0        | 0.38      | 113       | 46-148    |      |       |       |
| Surrogate: 1,3-Dichlorobenzene     | 54.5         |                | "     | 50.0        |           | 109       | 80-120    |      |       |       |
| Surrogate: Bromochlorobenzene      | 80.7         |                | "     | 50.0        |           | 161       | 80-120    |      |       | S-02  |

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| Enterprise Products  | Project Name:    | L/C #85 TIE             |                 |
|----------------------|------------------|-------------------------|-----------------|
| 614 Reilly Ave       | Project Number:  | 97057-0352              | Reported:       |
| Farmington NM, 87401 | Project Manager: | Kyle Summers-Apex TITAN | 03-Jun-14 16:35 |

#### Nonhalogenated Organics by 8015 - Quality Control

|  | E      | nvirotech A        | Analyti | cal Labor      | atory            |           |                |      |              |       |
|--|--------|--------------------|---------|----------------|------------------|-----------|----------------|------|--------------|-------|
| Analyte                                  | Result | Reporting<br>Limit | Units   | Spike<br>Level | Source<br>Result | %REC      | %REC<br>Limits | RPD  | RPD<br>Limit | Notes |
| Batch 1422001 - DRO Extraction EPA 3550C |        | . <u> </u>         |         |                |                  |           |                |      |              |       |
| Blank (1422001-BLK1)                     |        |                    |         | Prepared: 2    | 27-May-14        | Analyzed: | 28-May-14      |      |              |       |
| Diesel Range Organics (C10-C28)          | ND     | 30.0               | mg/kg   |                |                  |           |                |      |              |       |
| Duplicate (1422001-DUP1)                 | Sou    | rce: P405057-      | 01      | Prepared: 2    | 27-May-14        | Analyzed: | 28-May-14      |      |              |       |
| Diesel Range Organics (C10-C28)          | 1430   | 30.0               | mg/kg   |                | 1650             |           |                | 13.9 | 30           |       |
| Matrix Spike (1422001-MS1)               | Sou    | rce: P405057-      | 01      | Prepared: 2    | 7-May-14         | Analyzed: | 28-May-14      |      |              |       |
| Diesel Range Organics (C10-C28)          | 1510   |                    | mg/L    | 250            | 1570             | NR        | 75-125         |      |              | SPK1  |

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| Enterprise Products  | Project Name:    | L/C #85 TIE             |                 |
|----------------------|------------------|-------------------------|-----------------|
| 614 Reilly Ave       | Project Number:  | 97057-0352              | Reported:       |
| Farmington NM, 87401 | Project Manager: | Kyle Summers-Apex TITAN | 03-Jun-14 16:35 |

#### Nonhalogenated Organics by 8015 - Quality Control

|  | Eı                                      | nvirotech /   | Analyti | cal Labor   | atory     |           |           |      |       |       |  |
|--|---|---------------|---------|-------------|-----------|-----------|-----------|------|-------|-------|--|
|  | Reporting                               |               |         | Spike       | Source    |           | %REC      |      | RPD   |       |  |
| Analyte                                  | Result                                  | Limit         | Units   | Level       | Result    | %REC      | Limits    | RPD  | Limit | Notes |  |
| Batch 1422002 - Purge and Trap EPA 5030A |   |               |         |             |           |           |           |      |       |       |  |
| Blank (1422002-BLK1)                     | Prepared: 27-May-14 Analyzed: 28-May-14 |               |         |             |           |           |           |      |       |       |  |
| Gasoline Range Organics (C6-C10)         | ND                                      | 4.99          | mg/kg   |             |           |           |           |      |       | ····· |  |
| Duplicate (1422002-DUP1)                 | Sou                                     | rce: P405057- | 01      | Prepared: 2 | 27-May-14 | Analyzed: | 28-May-14 |      |       |       |  |
| Gasoline Range Organics (C6-C10)         | 26.4                                    | 4.99          | mg/kg   |             | 21.3      |           |           | 21.2 | 30    |       |  |
| Matrix Spike (1422002-MS1)               | Sou                                     | rce: P405057- | 01      | Prepared: 2 | 27-May-14 | Analyzed: | 28-May-14 |      |       |       |  |
| Gasoline Range Organics (C6-C10)         | 0.97                                    |               | mg/L    | 0.450       | 0.43      | 122       | 75-125    |      |       |       |  |

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| Enterpris   | e Products  | Project Name:                 | Project Name: L/C #85 TIE |                 |  |  |  |  |  |  |  |  |
|---|---|-------------------------------|---------------------------|-----------------|--|--|--|--|--|--|--|--|
| 614 Reill   | y Ave   | Project Number:               | 97057-0352                | Reported:       |  |  |  |  |  |  |  |  |
| Farmingt  | on NM, 87401  | Project Manager:              | Kyle Summers-Apex TITAN   | 03-Jun-14 16:35 |  |  |  |  |  |  |  |  |
| Notes and Definitions         SPK1       The spike recovery for this QC sample is outside of control limits.         S-02       The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.         DET       Analyte DETECTED         ND       Analyte NOT DETECTED at or above the reporting limit |   |                               |                           |                 |  |  |  |  |  |  |  |  |
| SPK 1   | The spike recovery for this QC sample   | is outside of control limits. |                           |                 |  |  |  |  |  |  |  |  |
| S-02  | The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present<br>in the sample extract.<br>Analyte DETECTED |                               |                           |                 |  |  |  |  |  |  |  |  |
| DET   | Analyte DETECTED  |                               |                           |                 |  |  |  |  |  |  |  |  |
| ND  | Analyte NOT DETECTED at or above the r  | eporting limit                |                           |                 |  |  |  |  |  |  |  |  |
| NR  | Not Reported  |                               |                           |                 |  |  |  |  |  |  |  |  |
| dry   | Sample results reported on a dry weight bas   | is                            |                           |                 |  |  |  |  |  |  |  |  |
| RPD   | Relative Percent Difference   |                               |                           |                 |  |  |  |  |  |  |  |  |
|   |   |                               |                           |                 |  |  |  |  |  |  |  |  |
|   |   |                               |                           |                 |  |  |  |  |  |  |  |  |

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# CHAIN OF CUSTODY RECORD

| Client: CUTER PRIS           | E                        |                | Project Name / Locat    | on:          |                     | _           |                 |                           | R0          | ANALYSIS / PARAMETERS |           |               |       |      |       |         |           |            |        |      |         |        |
|------------------------------|--------------------------|----------------|-------------------------|--------------|---------------------|-------------|-----------------|---------------------------|-------------|-----------------------|-----------|---------------|-------|------|-------|---------|-----------|------------|--------|------|---------|--------|
| ENTERIS                      |                          |                | ·                       | <u>_/C</u>   | #8                  | 5 7         | ΊE              |                           | 2           |                       |           | É.            |       |      |       | · · · · | - 17 1191 |            |        |      |         |        |
| Email results to:            |                          |                | Sampler Name: A         | ARON         | BR                  | YAN         | Т               |                           | 5)04        | 21)                   | 6         | 6             | [     | }    | ł     |         |           |            |        |      |         |        |
| Ksummers @ ap                | Ct LOS                   | . Com          | Ky                      | le s         | ummi                | £125        |                 |                           | 80          | 98 P                  | 826       | IS 1          | _     |      | n     | 5       |           |            |        |      |         |        |
| Client Phone No.:            | -51                      | 12             | Client No.: /           |              |                     | <b>.</b>    |                 |                           | Por         | etho                  | thod      | vieta         | Lion  |      | H     | 910     | E.        | щ          |        |      |         | Itact  |
| 103 -021-                    | -36                      | 03 1           | <u> </u>                | 15-1-        | 0350                | (<br>       |                 |                           | (Met        | N,                    | (Me       | 8             | 4     |      | ¥.    | able    | (418      | JIC<br>DIC |        |      | 9       | e<br>F |
| Sample No./ Identification   | Sampl<br>Date            | e Samp<br>Time | e Lab No.               | No.<br>of Cr | Volume<br>ontainers |             | HCI             | live                      | Ηd1         | BTE)                  | VOC       | HQH<br>HQH    | Catio | õ    | TCLF  | 8       | HdT       | CHLO       |        |      | Samt    | Samp   |
| <u>C-1</u>                   | 5-27-                    | 14 084         | 5 2405061-01            | 2×           | 402                 |             |                 |                           | X           | X                     |           | Å             |       |      |       |         |           |            |        |      | K       | X      |
| 6-2                          |                          | 091            | 5 P405061-02            |              | 1                   |             |                 |                           |             |                       |           | $\mathcal{T}$ | p.    |      |       |         |           |            |        |      |         | X      |
| (-3                          |                          | 694            | D P405061-03            |              | $\square$           |             |                 |                           |             |                       |           | Ľ             | Ì     | xc   |       |         |           |            |        |      |         | X      |
| <u> </u>                     |                          | 1145           | P405010-04              |              |                     |             |                 |                           |             |                       |           | 1             | L'S   | 41/2 |       |         |           |            |        |      | X       | X      |
| (-5                          |                          | 1405           | P405061-05              |              |                     |             |                 |                           |             |                       |           | 1             | 416   | 10   |       |         |           |            |        |      | X       | X      |
| <u> </u>                     |                          | 1500           | P4050101-06             |              |                     |             |                 |                           |             |                       |           | ¥             |       |      |       |         |           |            |        |      | X       | Y      |
| <u> </u>                     |                          | 1530           | P405041-07              |              |                     |             |                 |                           |             | $\square$             |           | #             | Pe    |      |       |         |           |            |        |      |         | X      |
| 6-8                          |                          | 1545           | P405061.08              |              |                     |             |                 |                           |             |                       |           | $\mathbb{L}$  |       |      |       |         |           |            |        |      |         | N      |
| <u> </u>                     |                          | 1550           | > 7405061-09            |              |                     |             |                 |                           |             |                       |           |               |       |      |       |         |           |            |        |      |         | X      |
| C-10                         |                          | - 1555         | P405061-1D              |              |                     |             |                 |                           | 1           | 1                     |           | 1             |       |      |       |         |           |            |        |      | K       | Ň      |
| Relinquished by: (Signature) | $\overline{\mathcal{D}}$ |                |                         | Date         | Time                | Rece        | ived b          | ıy: (Si                   | gnati       | пө)                   |           |               | • •   |      |       |         |           |            |        | Da   | ate   1 | ĩme    |
| CA 1                         | 2                        | <u></u>        | <u> </u>                | DJ Jem       | 1.15                | -1          | $\underline{N}$ | $\underline{\mathcal{M}}$ | <u>~ (</u>  | m                     | <u>^`</u> | Z             | H     |      |       |         |           |            |        | 5131 | 814 11  | :15    |
| Relinquished by: (Signature) |                          |                |                         |              |                     | Rece        | ived b          | ıy: (Si                   | gnatu       | ire)                  |           | C             |       |      |       |         |           |            |        |      |         |        |
| Sample Matrix                |                          |                |                         | <u> </u>     |                     |             |                 |                           | 0           | 1.                    |           | -             | F ,   | ~ ,  | ~ ,   | 10      | -01       | <br>ז      |        | 1    |         | -1     |
| Soil 🗹 Solid 🗌 Sludge 🗆      | Aqueous                  | Other          | 0                       |              |                     |             |                 | /                         | aj          | Re                    | 21        | 4             | - (   | 7(   | 7/    | 10      | 00        |            |        | -    | ~       |        |
| Sample(s) dropped off after  | hours to :               | secure drop    | off area.               | 3 e          | ≥nv<br>And          | <b>ir (</b> | <b>) t</b> a    | e (                       | ch<br>itory |                       | 2.        | 1             |       | J    | . 0   | )       | З,        | 1          | ¢      | 5.4  | )       |        |
| 5795 US Highway 64           | 4 • Farmin               | gton, NM 8     | 7401 • 505-632-0615 • 1 | ihree Spr    | ings • 65           | Merca       | do Stre         | eet, Su                   | uite I      | 15, DL                | irang     | o, C          | 0 813 | 01 • | labor | atory   | @env      | virote     | ch-ind | Pa   | ge 17   | of 17  |



## **Analytical Report**

## **Report Summary**

Client: Enterprise Products Chain Of Custody Number: 16823 Samples Received: 5/28/2014 11:15:00AM Job Number: 97057-0352 Work Order: P405062 Project Name/Location: L/C #85 TIE

Date: 6/3/14

Entire Report Reviewed By:

Tim Cain, Laboratory Manager

The results in this report apply to the samples submitted to Envirotech's Analytical Laboratory and were analyzed in accordance with the chain of custody document supplied by you, the client, and as such are for your exclusive use only. The results in this report are based on the sample as received unless otherwise noted. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. If you have any questions regarding this analytical report, please don't hesitate to contact Envirotech's Laboratory Staff.

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| Enterprise Products  | Project Name:    | L/C #85 TIE             |                 |
|----------------------|------------------|-------------------------|-----------------|
| 614 Reilly Ave       | Project Number:  | 97057-0352              | Reported:       |
| Farmington NM, 87401 | Project Manager: | Kyle Summers-Apex TITAN | 03-Jun-14 16:38 |

## **Analyical Report for Samples**

| Client Sample ID | Lab Sample ID | Matrix | Sampled  | Received | Container        |
|------------------|---------------|--------|----------|----------|------------------|
| C-11             | P405062-01A   | Soil   | 05/27/14 | 05/28/14 | Glass Jar, 4 oz. |
|                  | P405062-01B   | Soil   | 05/27/14 | 05/28/14 | Glass Jar, 4 oz. |

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| Enterprise Products<br>614 Reilly Ave<br>Farmington NM, 87401 | Projec<br>Projec<br>Projec | t Name:<br>t Number:<br>t Manager: | L/C #85 TIE<br>97057-0352<br>Kyle Summers-Apex TITAN |          |         |          | <b>Reported:</b><br>03-Jun-14 16:38 |           |          |
|---|----------------------------|------------------------------------|--|----------|---------|----------|-------------------------------------|-----------|----------|
| · · · · · · · · · · · · · · · · · · ·                         |                            | P4050                              | C-11<br>62-01 (Se                                    | olid)    |         |          |                                     |           | _        |
| Analyte   | Result                     | Reporting<br>Limit                 | Units  | Dilution | Batch   | Prepared | Analyzed                            | Method    | Notes    |
| Volatile Organics by EPA 8021                                 |                            |                                    |  |          |         |          |                                     |           |          |
| Benzene   | ND                         | 0.05                               | mg/kg  | 1        | 1422007 | 05/30/14 | 06/03/14                            | EPA 8021B |          |
| Toluene   | ND                         | 0.05                               | mg/kg  | 1        | 1422007 | 05/30/14 | 06/03/14                            | EPA 8021B |          |
| Ethylbenzene  | ND                         | 0.05                               | mg/kg  | 1        | 1422007 | 05/30/14 | 06/03/14                            | EPA 8021B |          |
| p,m-Xylene  | ND                         | 0.05                               | mg/kg  | 1        | 1422007 | 05/30/14 | 06/03/14                            | EPA 8021B |          |
| o-Xylene  | ND                         | 0.05                               | mg/kg  | 1        | 1422007 | 05/30/14 | 06/03/14                            | EPA 8021B |          |
| Total Xylenes   | ND                         | 0.05                               | mg/kg  | 1        | 1422007 | 05/30/14 | 06/03/14                            | EPA 8021B |          |
| Total BTEX  | ND                         | 0.05                               | mg/kg  | 1        | 1422007 | 05/30/14 | 06/03/14                            | EPA 8021B |          |
| Surrogate: Bromochlorobenzene                                 |                            | 104 %                              | 80-  | -120     | 1422007 | 05/30/14 | 06/03/14                            | EPA 8021B | <u> </u> |
| Surrogate: 1,3-Dichlorobenzene                                |                            | 94.6 %                             | 80-  | -120     | 1422007 | 05/30/14 | 06/03/14                            | EPA 8021B |          |
| Nonhalogenated Organics by 8015                               |                            |                                    |  |          |         |          |                                     |           |          |
| Gasoline Range Organics (C6-C10)                              | ND                         | 5.00                               | mg/kg  | 1        | 1422007 | 05/30/14 | 06/03/14                            | EPA 8015D |          |
| Diesel Range Organics (C10-C28)                               | ND                         | 30.0                               | mg/kg  | 1        | 1422008 | 05/30/14 | 06/02/14                            | EPA 8015D |          |

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| Enterprise Products  | Project Name:    | L/C #85 TIE             |                 |
|----------------------|------------------|-------------------------|-----------------|
| 614 Reilly Ave       | Project Number:  | 97057-0352              | Reported:       |
| Farmington NM, 87401 | Project Manager: | Kyle Summers-Apex TITAN | 03-Jun-14 16:38 |

## Volatile Organics by EPA 8021 - Quality Control

## **Envirotech Analytical Laboratory**

|  |             | Reporting      |       | Spike       | Source    |           | %REC      |     | RPD   |       |
|--|-------------|----------------|-------|-------------|-----------|-----------|-----------|-----|-------|-------|
| Analyte                                  | Result      | Limit          | Units | Level       | Result    | %REC      | Limits    | RPD | Limit | Notes |
| Batch 1422007 - Purge and Trap EPA 5030A |             |                |       |             |           |           |           |     |       |       |
| Blank (1422007-BLK1)                     |             |                |       | Prepared: 3 | 80-May-14 | Analyzed: | 02-Jun-14 |     |       |       |
| Benzene                                  | ND          | 0.05           | mg/kg |             |           |           |           |     |       |       |
| Tolvene                                  | ND          | 0.05           |       |             |           |           |           |     |       |       |
| Ethylbenzene                             | ND          | 0.05           | "     | •           |           |           |           |     |       |       |
| p,m-Xylene                               | ND          | 0.05           | "     |             |           |           |           |     |       |       |
| o-Xylene                                 | ND          | 0.05           | "     |             |           |           |           |     |       |       |
| Total Xylenes                            | ND          | 0.05           | "     |             |           |           |           |     |       |       |
| Total BTEX                               | ND          | 0.05           | "     |             |           |           |           |     |       |       |
| Surrogute: 1,3-Dichlorobenzene           | 47.6        |                | ug/L  | 50.0        | ······    | 95.3      | 80-120    |     |       |       |
| Surrogate: Bromochlorobenzene            | 48.9        |                | "     | 50.0        |           | 97.8      | 80-120    |     |       |       |
| Duplicate (1422007-DUP1)                 | Sou         | ırce: P405060- | 01    | Prepared: 3 | 0-May-14  | Analyzed: | 02-Jun-14 |     |       |       |
| Benzene                                  | ND          | 0.05           | mg/kg |             | ND        |           |           |     | 30    |       |
| Toluene                                  | ND          | 0.05           | "     |             | ND        |           |           |     | 30    |       |
| Ethylbenzene                             | ND          | 0.05           |       |             | ND        |           |           |     | 30    |       |
| p,m-Xylene                               | ND          | 0.05           | •     |             | ND        |           |           |     | 30    |       |
| o-Xylene                                 | ND          | 0.05           |       |             | ND        |           |           |     | 30    |       |
| Surrogate: 1,3-Dichlorobenzene           | 49.2        |                | ug/L  | 50.0        |           | 98.3      | 80-120    |     |       |       |
| Surrogate: Bromochlorobenzene            | 52.9        |                | "     | 50.0        |           | 106       | 80-120    |     |       |       |
| Matrix Spike (1422007-MS1)               | Sou         | Irce: P405060- | 01    | Prepared: 3 | 0-May-14  | Analyzed: | 02-Jun-14 |     |       |       |
| Benzene                                  | 2.25        | 0.05           | mg/kg | 2.49        | ND        | 90.3      | 39-150    |     |       |       |
| Toluene                                  | 2.25        | 0.05           |       | 2.49        | ND        | 90.3      | 46-148    |     |       |       |
| Ethylbenzene                             | 2.27        | 0.05           |       | 2.49        | ND        | 91.2      | 32-160    |     |       |       |
| p,m-Xylene                               | 4.55        | 0.05           | "     | 4.99        | ND        | 91.2      | 46-148    |     |       |       |
| o-Xylene                                 | 2.30        | 0.05           |       | 2.49        | ND        | 92.4      | 46-148    |     |       |       |
| Surrogate: 1,3-Dichlorobenzene           | <i>46.1</i> |                | ug/L  | 50.0        |           | 92.3      | 80-120    |     |       |       |
| Surrogate: Bromochlorobenzene            | 50.5        |                | n     | 50.0        |           | 101       | 80-120    |     |       |       |

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#### · · ·

| Enterprise Products  | Project Name:    | L/C #85 TIE             |                 |
|----------------------|------------------|-------------------------|-----------------|
| 614 Reilly Ave       | Project Number:  | 97057-0352              | Reported:       |
| Farmington NM, 87401 | Project Manager: | Kyle Summers-Apex TITAN | 03-Jun-14 16:38 |

#### Nonhalogenated Organics by 8015 - Quality Control

#### **Envirotech Analytical Laboratory**

|  |        | Reporting   |       | Spike       | Source    |           | %REC      |     | RPD   |       |
|--|--------|-------------|-------|-------------|-----------|-----------|-----------|-----|-------|-------|
| Analyte                                  | Result | Limit       | Units | Level       | Result    | %REC      | Limits    | RPD | Limit | Notes |
| Batch 1422007 - Purge and Trap EPA 5030A |        |             |       |             |           |           |           |     |       |       |
| Blank (1422007-BLK1)                     |        |             |       | Prepared: 3 | 30-May-14 | Analyzed: | 02-Jun-14 |     |       |       |
| Gasoline Range Organics (C6-C10)         | ND     | 4,99        | mg/kg |             |           |           |           |     |       |       |
| Duplicate (1422007-DUP1)                 | Sour   | e: P405060- | 01    | Prepared: 3 | 30-May-14 | Analyzed: | 02-Jun-14 |     |       |       |
| Gasoline Range Organics (C6-C10)         | ND     | 4.99        | mg/kg |             | ND        |           |           |     | 30    |       |
| Matrix Spike (1422007-MS1)               | Sourc  | e: P405060- | 01    | Prepared: 3 | 30-May-14 | Analyzed: | 02-Jun-14 | 1   |       |       |
| Gasoline Range Organics (C6-C10)         | 22.0   | 4.99        | mg/kg | 22.4        | ND        | 98.2      | 75-125    |     |       |       |

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| 5796 US Highway 64, Farmington, NM 87401                        | Ph (505) 632-0615 | Fx (505) 632-1865 | envirotech-inc.com            |
|---|-------------------|-------------------|-------------------------------|
| Three Springs - 65 Mercado Street, Suite 115, Durango, CO 81301 | Ph (970) 259-0615 | Fr (800) 362-1879 | laboratory@envirotech-inc.com |

Page 5 of 8



| Enterprise Products  | Project Name:    | L/C #85 TIE             |                 |
|----------------------|------------------|-------------------------|-----------------|
| 614 Reilly Ave       | Project Number:  | 97057-0352              | Reported:       |
| Farmington NM, 87401 | Project Manager: | Kyle Summers-Apex TITAN | 03-Jun-14 16:38 |

#### Nonhalogenated Organics by 8015 - Quality Control

#### **Envirotech Analytical Laboratory**

| A set of                                 | <b>5 1</b> | Reporting   |       | Spike       | Source   |           | %REC      |     | RPD   |       |
|--|------------|-------------|-------|-------------|----------|-----------|-----------|-----|-------|-------|
| Analyte                                  | Result     | Limit       | Units | Level       | Result   | %REC      | Limits    | RPD | Limit | Notes |
| Batch 1422008 - DRO Extraction EPA 3550C |            |             |       |             |          |           |           |     |       |       |
| Blank (1422008-BLK1)                     |            |             | _     | Prepared: 3 | 0-May-14 | Analyzed: | 02-Jun-14 |     |       |       |
| Diesel Range Organics (C10-C28)          | ND         | 30.0        | mg/kg |             |          |           |           |     |       |       |
| Duplicate (1422008-DUP1)                 | Sour       | e: P405060- | 01    | Prepared: 3 | 0-May-14 | Analyzed: | 02-Jun-14 |     |       |       |
| Diesel Range Organics (C10-C28)          | ND         | 30.0        | mg/kg |             | ND       |           |           |     | 30    |       |
| Matrix Spike (1422008-MS1)               | Sour       | e: P405060- | 01    | Prepared: 3 | 0-May-14 | Analyzed: | 02-Jun-14 |     |       |       |
| Diesel Range Organics (C10-C28)          | 264        |             | mg/L  | 250         | 7.86     | 103       | 75-125    |     |       |       |

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| Three Springs - 65 Mercado Street, Suite 115, Durango, CO 81301 | Ph (970) 259-0615 Fr (800) 362-1879 | aboratory@envirotech-inc.com |



| Enterprise Products  | Project Name:    | L/C #85 TIE             |                 |
|----------------------|------------------|-------------------------|-----------------|
| 614 Reilly Ave       | Project Number:  | 97057-0352              | Reported:       |
| Farmington NM, 87401 | Project Manager: | Kyle Summers-Apex TITAN | 03-Jun-14 16:38 |

#### **Notes and Definitions**

| DET | Analyte DETECTED                                     | • |   |   |
|-----|--|---|---|---|
| ND  | Analyte NOT DETECTED at or above the reporting limit |   |   |   |
| NR  | Not Reported   |   | • | · |
| dry | Sample results reported on a dry weight basis        |   |   |   |

RPD Relative Percent Difference

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Page 7 of 8

## CHAIN OF CUSTODY RECORD

16823

Client: Project Name / Location: D# 0/ 6K ENTERPRISE ANALYSIS / PARAMETERS 4/C # 85 TIE AARON BRYANT Email results to: Sampler Name: RCRA 8 Metals To Tq BTEX (Method 8021 TPH (Method 8015) VOC (Method 8260) Ksummers @ apex cos. com KYLE SUMMERS TCLP with H/P CO Table 910-1 Client Phone No.: Client No.: Cation / Anion Sample Intact TPH (418.1) Sampte Cool 97057-0352 903-821-5603 CHLORIDE Sample Sample Preservative No./Volume of Containers Sample No./ Identification Lab No. Ñ HNO3 HCI Date Time XX Li 7×402 ¥ C - 11 5-27-14 1600 P405002-01 O Pe NFS AB Date Time Received by: (Signature) Date | Time Relinquished by: (Signature) · minian pe 72://1. 11:13 1 \$125/14 11:15 Received by: (Signature) Relinquished by: (Signature) Sample Matrix PAY KEY # 6611580 Soil 🗹 Solid 🗋 Sludge 🗌 Aqueous 🗐 Other 🗍 2.5 Sample(s) dropped off after hours to secure drop off area. envirotech Analytical Laboratory 5795 US Highway 64 • Farmington, NM 87401 • 505-632-0615 • Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301 • laboratory@envirotech-ind Page 8 of 8

District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

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State of New Mexico **Energy Minerals and Natural** Resources

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

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

|  |   | R   | eleas   | e Notifica   | atio                                   | n and C  | orrective  | Acti  | on   |  |   |  |
|--|---|---|---|--|--|--|--|---|--|--|---|--|
| OPERATOR 🖂 Initial Report 🗌 Final I  |   |   |   |  |  |  |  |   |  | Final Report   |   |  |
| Name of Company: Enterprise Field Services LLC   |   |   |   |  |  |  | Contact: Thomas Long PCUD SEP 15*14  |   |  |  |   |  |
| Address: 6   | 14 Reilly A   | ve, Farming   | gton, NM  | 87401  |  | Telephone  | No. 505-599-   | 2286  |  | DIL CONS   | <u>. DIV</u>                            | <u> </u>   |
| Facility Na  | ne: Latera  | al 2A-3   |   | <u> </u>   |  | Facility Typ   | be: Natural Ga   | as Gat  | hering L   | ine  |   |  |
| Surface Ov   | vner:BLM  |   |   | Mineral C  | Wner                                   | BLM  |  |   | API N  | 0.   |   |  |
|  |   |   |   | LOCA   |  | N OF REI   | EASE   |   |  | DIST.  | 3                                       |  |
| Unit Letter  | Section   | Township  | Range   | Feet from  | Nor                                    | th/south   | Feet from  | East  | West   | County   |   |  |
| M  | 27  | 27N   | 10W   | the 375  | Line                                   | e  | the 312  | Line  |  | San Jua  | n                                       |  |
|  |   |   |   |  |  | e -107 890   | 875  |   | 1  |  | J                                       |  |
| •  |   | Luttudo_  |   | NAT  |  |  | EAGE   | 010   |  |  |   |  |
| Type of Rel  | ase: Natur  | al Gas and N  | atural Ga   | s Liquids  | UKE                                    |  | FREIERSE Unkn  | own   | Volume   | Recovered  | i <sup>.</sup> Unkr                     | own  |
| Source of R  | elease: inte  | rnal Corrosic   | n   | <u>o Elquido</u>   |  | Date and   | Hour of Occurre  | ence:   | Date an  | d Hour of E  | Discove                                 | ery:   |
|  |   |   |   |  |  | 8/28/2014  | @ 7:00 a.m.  |   | 8/28/20  | 14@7:45  | a.m.                                    |  |
| Was Immed  | iate Notice   | Given?  | i 🗌 No  | 🛛 🛛 Not Req  | uired                                  | – Shari K  | Whom? Court<br>etchum  | esy no  | tification t   | o NMOCD  | – Cory                                  | Smith; BLM   |
| By Whom?   |   |   |   | ·····  |  | Date and   | Hour   |   |  |  |   |  |
| Was a Wate   | rcourse Re  | ached?<br>ו   |   |  |  | If YES, Ve   | olume Impacting  | the W   | atercours  | e  |   |  |
|  |   |   | 103   |  |  |  |  |   |  |  |   |  |
| If a Waterco   | urse was In   | npacted, Des  | cribe Full  | y.*  |  |  |  |   |  |  |   |  |
| the Lateral 2<br>depressurize<br>two. A third  | A-2 pipeline<br>A-2 pipeline<br>d, locked c<br>party enviro                 | e ROW. The<br>out and tagge   | nedial Ac<br>Enterprised out. Or<br>tractor wil                   | tion: On Augus<br>e technician in<br>n September 5<br>I oversee exca                 | itiated<br>, 2014<br>avatior           | l notification  <br>, a third leak<br>activities ar                                  | ne leak was disc<br>procedures. The<br>was discovered<br>d collect closure                     | covered<br>pipelir<br>d appro<br>e samp       | a while pe<br>ne was iso<br>ximately 1<br>les during | rforming a<br>lated, blow<br>100 yards a<br>repair acti  | pipelin<br>n dowi<br>way fro<br>vities. | e patrol on<br>n,<br>om the first                  |
| Describe Ar<br>the Lateral 2<br>depressurize<br>two. A third<br>141 will be s  | ea Affected<br>A-2 pipeling<br>ed, locked c<br>party enviro<br>submitted up | and Cleanup<br>e ROW. The<br>but and tagge<br>onmental con<br>bon receipt o | Action T<br>Enterprise<br>d out. Or<br>tractor wil<br>f the third | aken On Augu<br>e technician in<br>n September 5<br>I oversee exca<br>party environn | itiated<br>, 2014<br>avatior<br>mental | 2014 a pipel<br>notification<br>l, a third leak<br>n activities ar<br>l contractor c | ine leak was dis<br>procedures. The<br>was discovered<br>d collect closure<br>orrective action | covere<br>pipelir<br>appro<br>samp<br>report. | d while pe<br>ne was isc<br>ximately 7<br>les during | erforming a<br>lated, blow<br>100 yards a<br>repair acti | pipelir<br>n dowr<br>way fro<br>vities. | ne patrol on<br>n,<br>om the first<br>A "final" c- |
| 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 federal, state, or local laws and/or regulations. |   |   |   |  |  |  |  |   |  |  |   |  |
| Signature: Jon E. Fields OIL CONSERVATION DIVISION   |   |   |   |  |  |  | ', 7   |   |  |  |   |  |
| Printed Name: Jon Fields Approved by Environmental Specialist:   |   |   |   |  |  |  | no   |   |  |  |   |  |
| Title: Directe   | or, Environn  | nental  |   |  |  | Approval Da  | ate: <b>\$9/15/1</b> 4   | 4   | Expiratior   | <u>n Date:</u>   |   |  |
| E-mail Addr  | ess:jefields  | @eprod.com  |   |  |  | Conditions   | of Approval:   |   |  | Attache  | ed 🗌                                    |  |
| Date: 9  | 9-20,   | 14  | Phor  | ne: (713)381-60  | 684                                    | Jaire A  | 40   |   | <u> </u>   |  |   |  |
| Attach Add   | tional She  | ets It Neces  | sary  |  | 4                                      | FIND 1   | 426136   | <i>.</i> 05                                   | ろ  |  |   |  |

State of New Mexico Energy Minerals and Natural Resources

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

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

| ·   |  | F            | leleas     | e Notific     | atior  | n and C      | orrective                           | Acti    | on                   |                            |                                       |  |
|---|--|--------------|------------|---------------|--------|--------------|-------------------------------------|---------|----------------------|----------------------------|---------------------------------------|--|
|   |  | -            |            |               | OP     | ERATO        | 2                                   | Б       | l Initial            | Report                     | Final Repo                            |  |
| Name of Company: Enterprise Field Services LLC  |  |              |            |               |        |              | Contact: Thomas Long Prin SEP 15'11 |         |                      |                            |                                       |  |
| Address: 6  | 14 Reilly A  | ve, Farmin   | gton, NN   | 87401         | ,      | Telephone    | No. 505-599-                        | 2286    | /\$<br>              | NI CONS                    | <u>nıu</u>                            |  |
| Facility Na   | ne: Later  | al 2A-2      |            | •••••         |        | Facility Typ | e: Natural G                        | as Gat  | hering L             | ine                        | • • • • • • • • • • • • • • • • • • • |  |
| Surface Ov  | vner:BLM   |              |            | Mineral C     | Owner: | BLM          |                                     |         | API No               |                            |                                       |  |
|   |  |              |            | LOCA          |        |              | FASE                                |         |                      | DIST.                      | 3                                     |  |
| Unit Letter   | Section  | Township     | Range      | Feet from     | North  | n/couth      | Feet from                           | East    | West                 | County                     |                                       |  |
| I   | 25   | 27N          | 10W        | the 1420      | Line   |              | the 120                             | Line    |                      | San Juar                   | n                                     |  |
|   |  |              |            |               |        |              |                                     |         |                      |                            |                                       |  |
|   |  | Latitude_    | 30.00      | <u>7404</u>   |        |              | le <u>-107.89</u> 4                 | 2363    |                      |                            |                                       |  |
|   |  |              |            | NAT           | URE    | OF REL       |                                     |         |                      | <u> </u>                   |                                       |  |
| Type of Rel   | ease: Natur  | al Gas and N | latural Ga | s Liquids     |        | Volume o     | Release Unkn                        | IOWN    | Volume               | Recovered                  | Unknown                               |  |
|   | elease. Inte   |              | 111        |               |        | 8/28/2014    | @ 8:30 a.m.                         | ence.   | 8/28/201             | u ⊓our or D<br>14 @ 9:30 a | a.m.                                  |  |
| Was Immed   | iate Notice  | Given?       |            |               |        | If YES, To   | Whom? Cour                          | tesy no | tification to        | 0 NMOCD -                  | - Cory Smith; BLM                     |  |
|   |  |              | s 🗋 No     | Not Red       | quired | – Shari K    | etchum                              |         |                      |                            |                                       |  |
| By Whom?  |  |              |            |               |        | Date and     | Hour                                |         |                      |                            |                                       |  |
| Was a Wate  | rcourse Re   | ached?       |            |               |        | If YES, Ve   | olume Impacting                     | g the W | atercours            | е                          |                                       |  |
|   |  |              |            |               |        |              |                                     |         |                      |                            |                                       |  |
| If a Waterco  | urse was Ir  | npacted, Des | cribe Full | y.*           |        |              |                                     |         |                      |                            |                                       |  |
| the Lateral 2<br>depressurize<br>samples due  | Describe Cause of Problem and Remedial Action: On August 28, 2014 a pipeline leak was discovered while performing a pipeline patrol on the Lateral 2A-2 pipeline ROW. The Enterprise technician initiated notification procedures. The pipeline was isolated, blown down, depressurized, locked out and tagged out. A third party environmental contractor will oversee excavation activities and collect closure samples during repair activities.  |              |            |               |        |              |                                     |         |                      |                            |                                       |  |
| Describe Ar<br>the Lateral 2<br>depressurize<br>samples dur<br>report.  | Describe Area Affected and Cleanup Action Taken: On August 28, 2014 a pipeline leak was discovered while performing a pipeline patrol on the Lateral 2A-2 pipeline ROW. The Enterprise technician initiated notification procedures. The pipeline was isolated, blown down, depressurized, locked out and tagged out. A third party environmental contractor will oversee excavation activities and collect closure samples during repair activities. A "final" c-141 will be submitted upon receipt of the third party environmental contractor corrective action report. |              |            |               |        |              |                                     |         |                      |                            |                                       |  |
| 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 federal state, or local laws and/or regulations. |  |              |            |               |        |              |                                     |         |                      |                            |                                       |  |
| Signature: Jon E. Fields  |  |              |            |               |        |              | OIL CON                             | SER     | VATION               | 1 DIVISIO                  |                                       |  |
| Printed Name: Jon Fields  |  |              |            |               |        | Approved b   | / Environmenta                      | l Speci | alist <sup>,</sup> ( | mg M                       | - N                                   |  |
| Title: Directo  | or, Environr   | nental       |            |               |        | Approval Da  | nte: 9/18/11/                       |         | Expiration           | Date:                      |                                       |  |
| E-mail Addr   | ess:jefields   | @eprod.com   |            |               |        | Conditions   | of Approval:                        |         | _                    | Attache                    | d 🗌                                   |  |
| Date: 9   | -9-20  | 14           | Phon       | e: (713)381-6 | 684    |              |                                     |         |                      |                            | ·                                     |  |
| Attach Addi   | tional She   | ets If Neces | sary       |               | 7      | tics 1       | 426135                              | 850     | 2                    |                            |                                       |  |

District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

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## 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.

|  |  | R   | معمام  | Notificati   | ion  |   | $r_{\text{octive } \Delta}$   | ction  |  |  |  |
|--|--|---|--|--|--|---|---|--|--|--|--|
|  |  |   | cicase   | Notmoati   |  |   |   |  | Denert   |  | Final Danast   |
| Name of C  | Name of Company: Enterprise Field Services LLC   |   |  |  |  |   |   |  | кероп  |  | <u>- Final Report</u>  |
| Address:   |  | Literprise I  | $\frac{100}{10}$ TX 77   | 210  |  | elephone No   | 505-599-22  | 86   |  |  |  |
| Facility Na  | me: Later  | al 10D-1  | <u>, 17, 77</u>  | 210  |  | acility Type:   | Natural Gas   | Gathering I  | ine  |  |  |
|  |  |   |  |  | •  |   |   | outioning 2  |  |  |  |
| Surface O  | vner: NAF  | Pl/Navajo Tr  | ibal   | Mineral Owr  | ner: I   | NAPI/Navajo   | Tribal  | API N  | 0.   |  |  |
|  |  |   |  | LOCATI   | ON   | OF RELEA  | SE  |  | RCUDSE   | P 19   | 14   |
| Unit Letter  | Section  | Township  | Range  | Feet from  | QOI  | tbSouth Line  | Feet from   | East West Li   | ne YC  | ounty  | Ψ.   |
| F  | 12   | 26N   | 12W  | the  |  | _   | the   |  | S  | an Jua   | n  |
|  |  |   |  | 1488   |  |   | 2518  |  |  | · •  |  |
|  |  | Latitude  | <u> </u>   | 578  |  | _ Longitude_  | <u>-108.0636</u>  | 6  | - 0151   | .3   |  |
|  |  |   |  | NATUR  | RE (   | OF RELEAS   | SE  |  |  |  |  |
| Type of Rel  | ease: Natu   | ral Gas   |  |  |  | Volume of Re  | <br>lease: <b>23.11 M</b>   | CF   Volume  | Recovere   | d: NOI   | NE   |
| Source of R  | elease: Int  | ernal Corrosi   | on   |  |  | Date and Hou  | r of Occurrenc  | e: Date an   | d Hour of  | Discov   | very:  |
|  | ·  | <u></u>   | · · · · ·  |  |  | 6/26/2014 @   | <u>10:30 a.m.</u>   | 6/26/20  | 14@11:1  | 5 a.m.   |  |
| VVas Immed   | ate Notice   | Given?  |  | ] No. ⊠ Not  |  | NNERA- Stov   | nom? Courtes  | y Notification   | to NMOC  |  | ory Smith;   |
| Required   |  | L   |  |  |  | INNEFA-Stev   | e Austin, Mik   |  |  | 0 -NAF   | -1   |
| By Whom?   | Thomas I   | 000   |  |  |  | Date and Hou  | r 7/7/2014 @1   | 0.01 a m em  | ail and ni   | 1000 C   |  |
| Was a Wate   | rcourse Re   | eached?   |  |  |  | If YES. Volum   | e Impacting th  | e Watercours   | e  |  | an   |
|  |  | ]   | 🗌 Yes 🛛  | 🛾 No   |  | ···· <b>·</b>   | <b>......</b>   |  |  |  |  |
| Describe Ar<br>An Enterpris<br>locked out a  | Describe Area Affected and Cleanup Action Taken.*: Enterprise personnel responded to a possible line leak on the Lateral 10D-1 pipeline.<br>An Enterprise technician verified the leak and initiated notification procedures. The pipeline was isolated, blown down, and depressurized, leaked out and tagged out. The repairs and remediation were completed on July 8, 2014. |   |  |  |  |   |   |  |  |  |  |
| I hereby cer<br>rules and re<br>which may of<br>relieve the of<br>ground wate<br>operator of | tify that the<br>gulations a<br>endanger p<br>operator of<br>er, surface y<br>responsibili   | information g<br>ll operators au<br>ublic health ou<br>liability should<br>water, human<br>ty for complia | iven above<br>re required<br>the enviro<br>their opera<br>health or th | is true and com<br>to report and/or<br>nment. The acc<br>ations have faile<br>ne environment.<br>ay other federal, | npleto<br>file o<br>cepta<br>d to<br>In a<br>state | et deep. A third<br>e to the best of<br>certain release<br>ance of a C-141<br>adequately inve<br>addition, NMOC<br>e, or local laws | my knowledge<br>notifications ar<br>report by the<br>estigate and re<br>D acceptance<br>and/or regulati | e and understand perform con<br>NMOCD mark<br>mediate conta<br>of a C-141 re | and that pur<br>rective ac<br>ed as "Fir<br>amination<br>port does | ursuant<br>tions for<br>hal Rep<br>that po<br>not reli | t to NMOCD<br>or releases<br>port" does not<br>see a threat to<br>ieve the |
| Signature:   |  | n tuty  | 1  |  | -  | (Approved by En   | VIL CONS  | ERVATION   | I DIVIS  |  | June 1   |
|  |  |   |  |  |  |   | Aglad.  |  | $\square$  |  |  |
| Title: Direct  | or, Environ  | mental  |  |  | <i>F</i>   | Approval Date: (  |   | /   Expiration   | 1 Date:  |  |  |
| E-mail Address:jefields@eprod.com  |  |   |  |  |  | Conditions of Ap  | oproval:  |  | Attach   | ied 🗌  | ]  |
| Date: 9/15/2014 Phone: (713)381-6684   |  |   |  |  |  |   |   |  |  |  |  |

\* Attach Additional Sheets If Necessary

HNes 14126837529



## **CORRECTIVE ACTION REPORT**

Property:

Lateral 10D-1 Pipeline Release NW 1/4, S12 T26N R12W San Juan County, New Mexico

August 25, 2014 Apex Project No. 7030414G026

Prepared for:

Enterprise Field Services LLC 614 Reilly Avenue Farmington, NM 87401 Attn: Mr. Thomas Long

Prepared by:

then M. Woods

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### CORRECTIVE ACTION REPORT

Lateral 10D-1 Pipeline Release NW 1/4, S12 T26N R12W San Juan County, New Mexico

### Apex Project No. 7030414G026

### 1.0 INTRODUCTION

### 1.1 Site Description & Background

The Lateral 10D-1 Pipeline Release Site is located within the Enterprise Field Services LLC (Enterprise) pipeline right-of-way (ROW) in the northwest (NW) ¼ of Section 12 in Township 26 North and Range 12 West in San Juan County, New Mexico (36.50578N 108.06366W), referred to hereinafter as the "Site" or "subject Site". The Site is located on land owned by the Navajo Nation, and operated by the Navajo Agricultural Products Industry (NAPI). The property surrounding the Site is primarily agricultural, with occasional oil and gas gathering facilities, including one (1) Enterprise natural gas gathering pipeline which traverses the area from southeast to northwest.

On July 8, 2014, Enterprise shut in the Lateral 10D-1 pipeline and initiated excavation activities at the Site in an effort to locate and repair a subsurface leak. The leak was subsequently identified and repaired, and was located in the general vicinity of a pipeline release which occurred in September 2013. An unknown quantity of natural gas was released from the pipeline as a result of internal corrosion. The leak was identified by vapor monitoring at the ground surface. No surface expression of the release was evident.

A topographic map depicting the location of the Site is included as Figure 1, and a Site Vicinity Map is included as Figure 2 in Appendix A.

### 1.2 **Project Objective**

The primary objective of the corrective actions was to reduce the concentration of constituents of concern (COCs) in the on-Site soils to below the New Mexico Energy, Minerals, and Natural Resources Department (EMNRD), Oil Conservation Division (OCD) *Remediation Action Levels* using the New Mexico EMNRD OCD's *Guidelines for Remediation of Leaks, Spills and Releases* as guidance.

### 2.0 SITE RANKING

The Site is subject to regulatory oversight by the Navajo Nation Environmental Protection Agency (NNEPA) and the New Mexico OCD. Apex TITAN, Inc. (Apex) utilized the New Mexico ENMRD OCD's *Guidelines for Remediation of Leaks, Spills and Releases*. Apex utilized the general site characteristics obtained during the completion of corrective action activities to determine the appropriate "ranking" for the Site. The ranking criteria and associated scoring are provided in the following table:



| Ranking   | Ranking Score     |    |          |
|---|-------------------|----|----------|
|   | <50 feet          | 20 |          |
| Depth to Groundwater                                      | 50 to 99 feet     | 10 | 20*      |
|   | >100 feet         | 0  |          |
| Wellhead Protection Area •<br><1,000 feet from a water    | Yes               | 20 | 0        |
| source, or; <200 feet from private domestic water source. | No                | 0  | <b>~</b> |
|   | <200 feet         | 20 |          |
| Distance to Surface Water Body                            | 200 to 1,000 feet | 10 | 20       |
|   | >1,000 feet 0     |    |          |
| Total Ran   | 40                |    |          |

\*Based on anticipated groundwater depth of <50 feet below grade surface (bgs).

Based on Apex's evaluation of the scoring criteria, the Site would have a maximum Total Ranking Score of "40". This ranking is based on the following:

- No water wells were identified on the Office of the State Engineer website database within the search radius. However, previous experience at the site indicates groundwater present at less than 10 feet bgs, resulting in a ranking of "20" for depth to groundwater.
- No water sources were identified within 1,000 feet of the Site.
- The Site is located approximately 50 feet southwest of the head of a small un-named ephemeral wash that drains to the Gallegos Wash, resulting in a ranking of "20" for distance to potential surface water.

### 3.0 **RESPONSE ACTIONS**

### 3.1 Soil Excavation Activities

On July 8, 2014, Enterprise shut in the Lateral 10D-1 pipeline and initiated excavation activities at the Site in an effort to locate and repair a subsurface leak. The leak was subsequently identified and repaired. The release was located in the general vicinity of a prior pipeline release which was repaired in September 2013. An unknown quantity of natural gas was released from the pipeline as a result of internal corrosion. The leak was identified by vapor monitoring at the ground surface. No surface expression of the release was evident and no adverse soil impact was identified. During the corrective action activities, Energy Maintenance Services USA, Inc. provided heavy equipment and labor support, and Kyle Summers and Heather Woods, Apex environmental professionals, provided environmental support.

The overall surface expression of the final excavation measured approximately 50 feet long by 15 feet wide, with a total depth of approximately 7 feet bgs. The excavated soils were place in a stockpile adjacent to the excavation.

The lithology encountered during the completion of corrective action activities consisted primarily of unconsolidated sands and silty sands.

Excavation activities associated with the pipeline repair were completed on July 8, 2014. Soil samples (S-1 through S-5) and stockpile samples (SP-1 through SP-3) were collected subsequent to the pipeline repair activities. Analytical results for the confirmation and stockpile soil samples indicate that adversely affected soils were not identified at the Site. The excavation was backfilled with the stockpiled soil and contoured to surrounding grade.



Figure 3 is a site map that indicates the approximate location of the excavated area in relation to pertinent land features (Appendix A).

### 3.2 Soil Sampling Program

Apex screened head-space samples of Site soils with a photoionization detector (PID) fitted with a 10.6 eV lamp. Soil samples were collected from the zones exhibiting the highest PID reading.

Apex's soil sampling program included the collection of five (5) final confirmation samples (S-1 through S-5) and stockpile samples (SP-1 through SP-3) from the resulting excavation for laboratory analysis. Soil sample S-1 was collected from the excavation floor, beneath the release point; soil sample S-2 was collected from the northeastern sidewall; soil sample S-3 was collected from the southeastern sidewall; soil sample S-4 was collected from the southwestern sidewall; and soil sample S-5 was collected from the northwestern sidewall. Figure 3 depicts the approximate location of the excavated areas and shows the final confirmation sample locations in relation to the final excavation dimensions (Appendix A).

The samples were collected and placed in laboratory prepared glassware, labeled/sealed using the laboratory supplied labels, and placed on ice in a cooler, which was secured with a custody seal. The samples and completed chain-of-custody forms were relinquished to Envirotech Analytical Laboratory in Farmington, New Mexico, for analysis.

### 3.3 Laboratory Analytical Methods

The confirmation soil samples were analyzed for benzene, toluene, ethylbenzene, and total xylenes (BTEX) using EPA SW-846 Method #8021, and total petroleum hydrocarbons (TPH) gasoline range organics (GRO) and diesel range organics (DRO) using EPA SW-846 Method #8015.

Laboratory results are summarized in Table 1, included in Appendix B. The executed chain-ofcustody form and laboratory data sheets are provided in Appendix C.

### 4.0 DATA EVALUATION

The Site is subject to regulatory oversight by the NNEPA and the New Mexico OCD. Apex utilized the New Mexico EMNRD OCD guidance and rules. To address activities related to condensate releases, the New Mexico EMNRD OCD utilizes the *Guidelines for Remediation of Leaks, Spills and Releases* as guidance, in addition to the OCD rules, specifically NMAC 19.15.30 *Remediation*. These guidance documents establish investigation and abatement action requirements for sites subject to reporting and/or corrective action.

### 4.1 Confirmation Soil Samples

Apex compared the BTEX and TPH concentrations or reporting limits (RLs) associated with the final confirmation samples collected from the excavated area and related stockpile to the OCD *Remediation Action Levels* for sites having a total ranking score of "40".

• The laboratory analyses of confirmation samples collected from soils remaining in place do not indicate benzene concentrations above laboratory RLs, which are below the OCD *Remediation Action Level.* 



- The laboratory analyses of confirmation samples collected from soils remaining in place do not indicate total BTEX concentrations above laboratory RLs, which are below the OCD *Remediation Action Level*.
- The laboratory analyses of the confirmation sample collected from soils remaining in place indicate combined TPH GRO/DRO concentrations ranging from below the laboratory detection limits to 33.7 milligrams per kilogram (mg/Kg) which are below the OCD *Remediation Action Level*.

Confirmation sample results are provided in Table 1 in Appendix B.

### 5.0 FINDINGS AND RECOMMENDATIONS

The Lateral 10D-1 Pipeline Release Site is located within the Enterprise pipeline ROW in the NW ¼ of Section 12 in Township 26 North and Range 12 West in San Juan County, New Mexico. The Site is located on land owned by the Navajo Nation, and operated by NAPI. The property surrounding the Site is primarily agricultural, with occasional oil and gas gathering facilities, including one (1) Enterprise natural gas gathering pipeline which traverses the area from southeast to northwest.

On July 8, 2014, Enterprise shut in the Lateral 10D-1 pipeline, initiated excavation activities at the Site in an attempt to locate and repair a subsurface leak. The leak was subsequently identified and repaired. The release was located in the general vicinity of a prior pipeline release which was repaired in September 2013. An unknown quantity of natural gas was released from the pipeline as a result of internal corrosion. The leak was identified by vapor monitoring at the ground surface. No surface expression of the release was evident.

- The primary objective of the corrective actions was to reduce the concentration of COCs in the on-Site soils to below the New Mexico EMNRD OCD Remediation Action Levels using the New Mexico EMNRD OCD's Guidelines for Remediation of Leaks, Spills and Releases as guidance.
- The lithology encountered during the completion of corrective action activities consisted primarily of unconsolidated sands and silty sands.
- The overall surface expression of the final excavation measured approximately 50 feet long by 15 feet wide, with a total depth of approximately 7 feet bgs.
- Prior to backfilling, eight (8) final confirmation and stockpile samples were collected from the resulting excavation and stockpiles for laboratory analyses. Based on analytical results, soils remaining in place do not exhibit COC concentrations above the OCD *Remediation Action Levels* for a Site ranking of "40".
- Subsequent to the receipt of laboratory analytical results, the stockpiled soils were used to backfill the excavation. The area was contoured to surrounding grade following backfilling activities.

Based on the laboratory analytical results, no additional investigation or corrective action appears warranted at this time.



### 6.0 STANDARD OF CARE, LIMITATIONS, AND RELIANCE

Apex's services were performed in accordance with standards customarily provided by a firm rendering the same or similar services in the area during the same time period. Apex makes no warranties, expressed or implied, as to the services performed hereunder. Additionally, Apex does not warrant the work of third parties supplying information used in the report (e.g. laboratories, regulatory agencies, or other third parties). This scope of services was performed in accordance with the scope of work agreed with the client.

Findings, conclusions and recommendations resulting from these services are based upon information derived from the on-Site activities and other services performed under this scope of work and it should be noted that this information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, or not present during these services, and Apex cannot represent that the Site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those identified during this scope of services. Environmental conditions at other areas or portions of the Site may vary from those encountered at actual sample locations. Apex's findings and recommendations are based solely upon data available to Apex at the time of these services.

This report has been prepared for the exclusive use of Enterprise, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the Site) is prohibited without the expressed written authorization of Enterprise and Apex. Any unauthorized distribution or reuse is at the client's sole risk. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions and limitations stated in the proposal, the report, and Apex's Agreement. The limitation of liability defined in the agreement is the aggregate limit of Apex's liability to the client.



Z:\Houston South\Drafting\New Mexico 04\2014\7030414G026\Figure 1.dwg 07/30/14



Z:\Houston South\Drafting\New Mexico 04\2014\7030414G026\Figure 2.dwg 07/30/14



Z:\Houston South\Drafting\New Mexico 04\2014\7030414G026\Figure 3.dwg 07/30/14

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| TABLE 1   |  |   |   |  |   |  |  |   |   |
|---|--|---|---|--|---|--|--|---|---|
| Lateral 10D-1 (2014) Pipeline Release           |  |   |   |  |   |  |  |   |   |
|   |  |   |   | SOIL ANALYT  | ICAL SUMMARY  | 7  |  |   |   |
|   |  |   |   |  |   |  |  |   |   |
| Sample I.D.                                     | Date   | Sample Depth  | Benzene   | Toluene  | Ethylbenzene  | Xylenes  | Total BTEX                             | TPH   | ТРН   |
|   |  | (feet)  | (mg/kg)   | (mg/kg)  | (mg/kg)   | (mg/kg)  | (mg/kg)                                | ĢRO   | DRO   |
|   |  |   |   |  |   |  |  | (mg/kg)   | (mg/kg)   |
| New Mexico Ent                                  | ergy, Mineral &  | Natural Resources   |   |  |   |  |  |   |   |
| Department, Oil C                               | Conservation Div   | ision, Remediation  | 10  | NE   | NE  | NE   | 50                                     | 10  | 00  |
|   |  |   |   |  |   |  |  |   |   |
|   |  | -   |   | E  | F   |  |  |   |   |
|   |  |   |   | Excavation Con   | firmation Samples   |  |  |   |   |
|   | 7/8/2014   | 7   | <0.05   | Excavation Con<br><0.05  | firmation Samples   | <0.05  | ND                                     | <4.99   | <30.0   |
| <u>S-1</u><br>S-2                               | 7/8/2014<br>7/8/2014   | 7<br>5 to 7   | <0.05<br><0.05  | Excavation Con<br><0.05<br><0.05   | firmation Samples<br><0.05<br><0.05   | <0.05<br><0.05   | ND<br>ND                               | <4.99<br><4.99  | <30.0<br><29.9  |
| S-1<br>S-2<br>S-3                               | 7/8/2014<br>7/8/2014<br>7/8/2014   | 7<br>5 to 7<br>5 to 7   | <0.05<br><0.05<br><0.05                                     | Excavation Con<br><0.05<br><0.05<br><0.05  | firmation Samples<br><0.05<br><0.05<br><0.05  | <0.05<br><0.05<br><0.05  | ND<br>ND<br>ND                         | <4.99<br><4.99<br><5.00                                     | <30.0<br><29.9<br><30.0   |
| S-1<br>S-2<br>S-3<br>S-4                        | 7/8/2014<br>7/8/2014<br>7/8/2014<br>7/8/2014                                     | 7<br>5 to 7<br>5 to 7<br>5 to 7<br>5 to 7                                     | <0.05<br><0.05<br><0.05<br><0.05                            | Excavation Con<br><0.05<br><0.05<br><0.05<br><0.05   | firmation Samples<br><0.05<br><0.05<br><0.05<br><0.05   | <0.05<br><0.05<br><0.05<br><0.05                                     | ND<br>ND<br>ND<br>ND                   | <4.99<br><4.99<br><5.00<br><4.98                            | <30.0<br><29.9<br><30.0<br><30.0  |
| S-1<br>S-2<br>S-3<br>S-4<br>S-5                 | 7/8/2014<br>7/8/2014<br>7/8/2014<br>7/8/2014<br>7/8/2014                         | 7<br>5 to 7<br>5 to 7<br>5 to 7<br>5 to 7<br>5 to 7                           | <0.05<br><0.05<br><0.05<br><0.05<br><0.05                   | Excavation Con<br><0.05<br><0.05<br><0.05<br><0.05<br><0.05                                      | firmation Samples<br><0.05<br><0.05<br><0.05<br><0.05<br><0.05<br><0.05                                     | <0.05<br><0.05<br><0.05<br><0.05<br><0.05<br><0.05                   | ND<br>ND<br>ND<br>ND<br>ND             | <4.99<br><4.99<br><5.00<br><4.98<br><4.99                   | <30.0<br><29.9<br><30.0<br><30.0<br><29.9   |
| S-1<br>S-2<br>S-3<br>S-4<br>S-5                 | 7/8/2014<br>7/8/2014<br>7/8/2014<br>7/8/2014<br>7/8/2014                         | 7<br>5 to 7<br>5 to 7<br>5 to 7<br>5 to 7<br>5 to 7                           | <0.05<br><0.05<br><0.05<br><0.05<br><0.05                   | Excavation Con<br><0.05<br><0.05<br><0.05<br><0.05<br><0.05<br>Stockpile Confi                   | Samples           <0.05   | <0.05<br><0.05<br><0.05<br><0.05<br><0.05<br><0.05                   | ND<br>ND<br>ND<br>ND<br>ND             | <4.99<br><4.99<br><5.00<br><4.98<br><4.99                   | <30.0<br><29.9<br><30.0<br><30.0<br><29.9   |
| S-1<br>S-2<br>S-3<br>S-4<br>S-5<br>SP-1         | 7/8/2014<br>7/8/2014<br>7/8/2014<br>7/8/2014<br>7/8/2014<br>7/8/2014             | 7<br>5 to 7<br>5 to 7<br>5 to 7<br>5 to 7<br>5 to 7<br>Stockpile              | <0.05<br><0.05<br><0.05<br><0.05<br><0.05<br><0.05          | Excavation Com<br><0.05<br><0.05<br><0.05<br><0.05<br><0.05<br>Stockpile Confi<br><0.05          | Generation Samples           <0.05  | <0.05<br><0.05<br><0.05<br><0.05<br><0.05<br><0.05                   | ND<br>ND<br>ND<br>ND<br>ND             | <4.99<br><4.99<br><5.00<br><4.98<br><4.99<br><5.00          | <pre>&lt;30.0 &lt;29.9 &lt;30.0 &lt;30.0 &lt;29.9 &lt;30.0 &lt;30.0 &lt;29.9 </pre> |
| S-1<br>S-2<br>S-3<br>S-4<br>S-5<br>SP-1<br>SP-2 | 7/8/2014<br>7/8/2014<br>7/8/2014<br>7/8/2014<br>7/8/2014<br>7/8/2014<br>7/8/2014 | 7<br>5 to 7<br>5 to 7<br>5 to 7<br>5 to 7<br>5 to 7<br>Stockpile<br>Stockpile | <0.05<br><0.05<br><0.05<br><0.05<br><0.05<br><0.05<br><0.05 | Excavation Com<br><0.05<br><0.05<br><0.05<br><0.05<br>Stockpile Confi<br><0.05<br><0.05<br><0.05 | firmation Samples<br><0.05<br><0.05<br><0.05<br><0.05<br><0.05<br>mation Samples<br><0.05<br><0.05<br><0.05 | <0.05<br><0.05<br><0.05<br><0.05<br><0.05<br><0.05<br><0.05<br><0.05 | ND<br>ND<br>ND<br>ND<br>ND<br>ND<br>ND | <4.99<br><4.99<br><5.00<br><4.98<br><4.99<br><5.00<br><4.99 | <pre>&lt;30.0 &lt;29.9 &lt;30.0 &lt;30.0 &lt;29.9 &lt;30.0 &lt;30.0 &lt;29.9 </pre> |

Note: Concentrations in **bold** and yellow exceed the applicable OCD Remediation Action Level

NE = Not Established

ND = Not Detected above the Laboratory Reporting Limits



### **Analytical Report**

### **Report Summary**

Client: Enterprise Products Chain Of Custody Number: 17196 Samples Received: 7/8/2014 4:17:00PM Job Number: 97057-0352 Work Order: P407033 Project Name/Location: 10D-1

Date: 7/10/14

Entire Report Reviewed By:

Tim Cain, Laboratory Manager

Supplement to analytical report generated on: 7/10/14 10:25 am

The results in this report apply to the samples submitted to Envirotech's Analytical Laboratory and were analyzed in accordance with the chain of custody document supplied by you, the client, and as such are for your exclusive use only. The results in this report are based on the sample as received unless otherwise noted. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. If you have any questions regarding this analytical report, please don't hesitate to contact Envirotech's Laboratory Staff.

| 5796 US Highway 64, Farmington, NM 87401                        | Ph (505) 632-0615 | Fx (505) 632-1865 | envirotech-inc.com            |
|---|-------------------|-------------------|-------------------------------|
| Three Springs - 65 Mercado Street, Suite 115, Durango, CO 81301 | Ph (970) 259-0615 | Fr (800) 362-1879 | laboratory@envirotech-inc.com |



| Enterprise Products  | Project Name:    | 10D-1                   |                 |
|----------------------|------------------|-------------------------|-----------------|
| 614 Reilly Ave       | Project Number:  | 97057-0352              | Reported:       |
| Farmington NM, 87401 | Project Manager: | Kyle Summers-Apex TITAN | 10-Jul-14 13:22 |

### **Analyical Report for Samples**

| Client Sample ID | Lab Sample ID | Matrix | Sampled  | Received | Container        |
|------------------|---------------|--------|----------|----------|------------------|
| S-1              | P407033-01A   | Soil   | 07/08/14 | 07/08/14 | Glass Jar, 4 oz. |

| 5796 US Highway 64, Farmington, NM 87401                        | Ph (505) 632-0615 | Fx (505) 632-1865 | envirotech-inc.com            |
|---|-------------------|-------------------|-------------------------------|
| Three Springs - 65 Mercado Street, Suite 115, Durango, CO 81301 | Ph (970) 259-0615 | Fr (800) 362-1879 | laboratory@envirotech-inc.com |



| Enterprise Products<br>614 Reilly Ave<br>Farmington NM, 87401 | Projec<br>Projec<br>Projec | t Name:<br>t Number:<br>t Manager: | 10D-1<br>97057-0352<br>Kyle Summers-Apex TITAN |          |         |          | <b>Reported:</b><br>10-Jul-14 13:22 |           |       |
|---|----------------------------|------------------------------------|--|----------|---------|----------|-------------------------------------|-----------|-------|
|   |                            | P4070                              | S-1<br>33-01 (Se                               | olid)    |         |          |                                     |           |       |
| Analyte   | Result                     | Reporting<br>Limit                 | Units  | Dilution | Batch   | Prepared | Analyzed                            | Method    | Notes |
| Volatile Organics by EPA 8021                                 |                            |                                    |  |          |         |          |                                     |           |       |
| Benzene   | ND                         | 0.05                               | mg/kg  | 1        | 1428015 | 07/09/14 | 07/09/14                            | EPA 8021B |       |
| Toluene   | ND                         | 0.05                               | mg/kg  | 1        | 1428015 | 07/09/14 | 07/09/14                            | EPA 8021B |       |
| Ethylbenzene  | ND                         | 0.05                               | mg/kg  | 1        | 1428015 | 07/09/14 | 07/09/14                            | EPA 8021B |       |
| p,m-Xylene  | ND                         | 0.05                               | mg/kg  | 1        | 1428015 | 07/09/14 | 07/09/14                            | EPA 8021B |       |
| o-Xylene  | ND                         | 0.05                               | mg/kg  | 1        | 1428015 | 07/09/14 | 07/09/14                            | EPA 8021B |       |
| Total Xylenes   | ND                         | 0.05                               | mg/kg  | 1        | 1428015 | 07/09/14 | 07/09/14                            | EPA 8021B |       |
| Total BTEX  | ND                         | 0.05                               | mg/kg  | ١        | 1428015 | 07/09/14 | 07/09/14                            | EPA 8021B |       |
| Surrogate: Bromochlorobenzene                                 | W www.akester              | 97.7 %                             |  | -120     | 1428015 | 07/09/14 | 07/09/14                            | EPA 8021B |       |
| Surrogate: 1,3-Dichlorobenzene                                |                            | 96.0 %                             | 80   | -120     | 1428015 | 07/09/14 | 07/09/14                            | EPA 8021B |       |
| Nonhalogenated Organics by 8015                               |                            |                                    |  |          |         |          |                                     |           |       |
| Gasoline Range Organics (C6-C10)                              | ND                         | 4.99                               | mg/kg  | 1        | 1428015 | 07/09/14 | 07/09/14                            | EPA 8015D |       |
| Diesel Range Organics (C10-C28)                               | ND                         | 30.0                               | mg/kg  | 1        | 1428016 | 07/09/14 | 07/09/14                            | EPA 8015D |       |

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|---|-------------------|-------------------|-------------------------------|
| Three Springs - 65 Mercado Street, Suite 115, Durango, CO 81301 | Ph (970) 259-0615 | Fr (800) 362-1879 | laboratory@envirotech-inc.com |



| Enterprise Products  | Project Name:    | 10D-1                   |                 |
|----------------------|------------------|-------------------------|-----------------|
| 614 Reilly Ave       | Project Number:  | 97057-0352              | Reported:       |
| Farmington NM, 87401 | Project Manager: | Kyle Summers-Apex TITAN | 10-Jul-14 13:22 |

### Volatile Organics by EPA 8021 - Quality Control

### **Envirotech Analytical Laboratory**

|                                   |         | Reporting     |       | Spike      | Source      |           | %REC   |     | RPD   |       |
|-----------------------------------|---------|---------------|-------|------------|-------------|-----------|--------|-----|-------|-------|
| Analyte                           | Result  | Limit         | Units | Level      | Result      | %REC      | Limits | RPD | Limit | Notes |
| Batch 1428015 - Purge and Trap EP | A 5030A |               |       |            |             |           |        |     |       |       |
| Blank (1428015-BLK1)              |         |               |       | Prepared & | k Analyzed: | 09-Jul-14 |        |     |       |       |
| Benzene                           | ND      | 0.05          | mg/kg |            |             |           |        |     |       |       |
| Toluene                           | ND      | 0.05          | 11    |            |             |           |        |     |       |       |
| Ethylbenzene                      | ND      | 0.05          | "     |            |             |           |        |     |       |       |
| p,m-Xylene                        | ND      | 0.05          | u     |            |             |           |        |     |       |       |
| o-Xylene                          | ND      | 0.05          | "     |            |             |           |        |     |       |       |
| Total Xylenes                     | ND      | 0.05          | "     |            |             |           |        |     |       |       |
| Total BTEX                        | ND      | 0.05          | "     |            |             |           |        |     |       |       |
| Surrogate: 1,3-Dichlorobenzene    | 46.8    |               | ug/L  | 50.0       |             | 93.7      | 80-120 |     |       |       |
| Surrogate: Bromochlorobenzene     | 45.8    |               | "     | 50.0       |             | 91.6      | 80-120 |     |       |       |
| Duplicate (1428015-DUP1)          | Sou     | rce: P407033- | 01    | Prepared & | 2 Analyzed  | 09-Jul-14 |        |     |       |       |
| Benzene                           | ND      | 0.05          | mg/kg |            | ND          |           |        |     | 30    |       |
| Toluen¢                           | ND      | 0.05          | "     |            | ND          |           |        |     | 30    |       |
| Ethylbenzene                      | ND      | 0.05          | "     |            | ND          |           |        |     | 30    |       |
| p,m-Xylene                        | ND      | 0.05          | "     |            | ND          |           |        |     | 30    |       |
| o-Xylene                          | ND      | 0.05          | "     |            | ND          |           |        |     | 30    |       |
| Surrogate: 1,3-Dichlorohenzene    | 47.6    |               | ug/L  | 50.0       |             | 95.2      | 80-120 |     |       |       |
| Surrogate: Bromochlorobenzene     | 48.5    |               | "     | 50.0       |             | 97.1      | 80-120 |     |       |       |
| Matrix Spike (1428015-MS1)        | Sou     | rce: P407033- | 01    | Prepared & | Analyzed:   | 09-Jul-14 |        |     |       |       |
| Benzene                           | 49.2    |               | ug/L  | 50.0       | ND          | 98.4      | 39-150 |     |       |       |
| Toluene                           | 49.1    |               | "     | 50.0       | ND          | 98.3      | 46-148 |     |       |       |
| Ethylbenzene                      | 49.0    |               | "     | 50.0       | ND          | 98.0      | 32-160 |     |       |       |
| p,m-Xylene                        | 95.0    |               | "     | 100        | ND          | 95.0      | 46-148 |     |       |       |
| o-Xylene                          | 50.4    |               |       | 50.0       | ND          | 101       | 46-148 |     |       |       |
| Surrogate: 1,3-Dichlorobenzene    | 50.8    |               | "     | 50.0       |             | 102       | 80-120 |     |       |       |
| Surrogate: Bromochlorobenzene     | 52.1    |               | "     | 50.0       |             | 104       | 80-120 |     |       |       |

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| Enterprise Products  | Project Name:    | 10D-1                   |                 |
|----------------------|------------------|-------------------------|-----------------|
| 614 Reilly Ave       | Project Number:  | 97057-0352              | Reported:       |
| Farmington NM, 87401 | Project Manager: | Kyle Summers-Apex TITAN | 10-Jul-14 13:22 |

### Nonhalogenated Organics by 8015 - Quality Control

| Envirotech Analytical Laboratory         |        |                    |       |            |             |           |        |     |       |       |
|--|--------|--------------------|-------|------------|-------------|-----------|--------|-----|-------|-------|
| · · · · · · · · · · · · · · · · · · ·    |        | Reporting          |       | Spike      | Source      |           | %REC   |     | RPD   |       |
| Analyte                                  | Result | Limit              | Units | Level      | Result      | %REC      | Limits | RPD | Limit | Notes |
| Batch 1428015 - Purge and Trap EPA 5030A |        |                    |       |            |             |           |        |     |       |       |
| Blank (1428015-BLK1)                     | _      |                    |       | Prepared & | Analyzed:   | 09-Jul-14 |        |     |       |       |
| Gasoline Range Organics (C6-C10)         | ND     | 4.99               | mg/kg |            |             |           |        |     |       |       |
| Duplicate (1428015-DUP1)                 | Sou    | rce: P407033-      | 01    | Prepared & | : Analyzed: | 09-Jul-14 |        |     |       |       |
| Gasoline Range Organics (C6-C10)         | ND     | 4.99               | mg/kg |            | ND          |           |        |     | 30    |       |
| Matrix Spike (1428015-MS1)               | Sou    | Source: P407033-01 |       | Prepared & | Analyzed:   | 09-Jul-14 |        |     |       |       |
| Gasoline Range Organics (C6-C10)         | 0.38   |                    | mg/L  | 0.450      | ND          | 84.9      | 75-125 |     |       |       |

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| Enterprise Products  | Project Name:    | 10D-1                   |                 |
|----------------------|------------------|-------------------------|-----------------|
| 614 Reilly Ave       | Project Number:  | 97057-0352              | Reported:       |
| Farmington NM, 87401 | Project Manager: | Kyle Summers-Apex TITAN | 10-Jul-14 13:22 |

#### Nonhalogenated Organics by 8015 - Quality Control

| Envirotech Analytical Laboratory         |        |                    |       |                                |                  |           |                |     |              |       |
|--|--------|--------------------|-------|--------------------------------|------------------|-----------|----------------|-----|--------------|-------|
| Analyte                                  | Result | Reporting<br>Limit | Units | Spike<br>Level                 | Source<br>Result | %REC      | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
| Batch 1428016 - DRO Extraction EPA 3550C |        |                    |       |                                |                  |           |                |     |              |       |
| Blank (1428016-BLK1)                     |        |                    |       | Prepared &                     | Analyzed:        | 09-Jul-14 |                |     |              |       |
| Diesel Range Organics (C10-C28)          | ND     | 30.0               | mg/kg |                                |                  |           |                |     |              |       |
| Duplicate (1428016-DUP1)                 | Sou    | rce: P407034-      | 01    | Prepared & Analyzed: 09-Jul-14 |                  |           |                |     |              |       |
| Diesel Range Organics (C10-C28)          | ND     | 29.9               | mg/kg |                                | ND               |           |                |     | 30           |       |
| Matrix Spike (1428016-MS1)               | Sou    | rce: P407034-      | 01    | Prepared & Analyzed: 09-Jul-14 |                  |           |                |     |              |       |
| Diesel Range Organics (C10-C28)          | 237    |                    | mg/L  | 250                            | 15.7             | 88.6      | 75-125         |     |              |       |

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| Enterprise Products  | Project Name:    | 10D-1                   |  |
|----------------------|------------------|-------------------------|--|
| 614 Reilly Ave       | Project Number:  | 97057-0352              | Reported:                              |
| Farmington NM, 87401 | Project Manager: | Kyle Summers-Apex TITAN | 10-Jul-14 13:22                        |
|                      |                  |                         | ······································ |

#### **Notes and Definitions**

- DET
   Analyte DETECTED

   ND
   Analyte NOT DETECTED at or above the reporting limit

   NR
   Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

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# CHAIN OF CUSTODY RECORD

17196

| Client: APETTAN Project Name / Location:                           |                |                   |   |                             |                        |                      |              |               |              | A             | NALY          | (SIS     | / Paf    | RAMI      | ETER     | TERS  |        |        |        |              |                         |  |
|--|----------------|-------------------|---|-----------------------------|------------------------|----------------------|--------------|---------------|--------------|---------------|---------------|----------|----------|-----------|----------|-------|--------|--------|--------|--------------|-------------------------|--|
| Email results to:<br>Kyle Summe<br>Client Phone No.:<br>103-821-50 | 125<br>203     | Sai<br>Ac<br>Clie | Sampler Name:<br>ARON BRYANT HEATHER WOODS<br>Client No.:<br>97057-0352 |                             |                        |                      | Method 8015) | (Method 8021) | Method 8260) | 8 Metals      | / Anion       |          | with H/P | ble 910-1 | 418.1)   | RIDE  |        |        | e Cool | e Intact     |                         |  |
| Sample No./ Identification   | Sample<br>Date | Sample<br>Time    | Lab No.   | No./Volume<br>of Containers | Рі<br>н№о <sub>3</sub> | HCI                  | /8           | TPH (N        | BTEX         | voc (         | RCRA          | Cation   | RCI      | TCLP      | CO Ta    | л нат | CHLO   |        |        | Sampl        | Sampl                   |  |
| 5-1  | 7-8-14         | 1445              | P407033-01  | 1 x 40z                     |                        |                      |              | Х             | X            |               |               |          |          |           |          |       |        |        |        | $\checkmark$ | $\overline{\mathbf{A}}$ |  |
|  |                |                   |   | ·                           | -                      |                      |              |               |              |               |               |          |          |           | -        |       |        |        |        |              |                         |  |
|  |                |                   |   |                             |                        |                      |              |               |              |               |               |          |          |           |          |       |        |        |        |              |                         |  |
|  |                |                   |   |                             | $\left\{ - \right\}$   |                      | -            |               |              |               |               |          |          |           |          |       |        |        |        |              |                         |  |
|  |                |                   |   |                             |                        |                      |              |               |              |               |               |          |          |           |          |       |        |        |        |              | _                       |  |
|  |                |                   |   |                             |                        |                      |              |               |              |               |               |          | -        |           |          |       |        |        |        |              |                         |  |
|  |                |                   |   |                             |                        |                      |              | _             |              |               |               |          |          |           |          |       |        |        |        |              |                         |  |
|  |                |                   |   |                             |                        |                      |              |               |              |               |               |          |          |           |          |       |        |        |        |              |                         |  |
| Delinguished by (Signeture)  |                |                   |   | Date Time                   | Recei                  |                      |              |               |              |               |               |          |          |           |          |       |        |        |        |              |                         |  |
| Reiningaismed by. (Signature)                                      | SA             |                   |   | 7-8-14 4:17                 |                        |                      | 7. (Sil      |               | ne)          |               |               |          |          |           |          |       |        |        | 7/8/14 | JĮ           | :17                     |  |
| Relinquished by: (Signature)                                       |                |                   | /   |                             | Recei                  | ved by               |              | natu          | ire)         |               |               |          |          |           |          |       |        |        |        |              |                         |  |
| Sample Matrix  |                |                   |   |                             |                        |                      |              |               |              |               |               |          |          |           |          |       |        |        |        |              |                         |  |
| Sample(s) dropped off after  | hours to see   | cure drop of      | f area.   | <u>نابا</u><br>کرم          |                        |                      |              |               |              |               | 20            | <u> </u> | 1 -      |           | <u> </u> |       |        |        | -      |              | $\neg$                  |  |
|  |                |                   | E   |                             | ytica                  | <b>DTE</b><br>al Lat |              | tory          | ,            | K             | ιE            | s d      | 6        | ታሪ        | 0        |       |        |        |        |              |                         |  |
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## **Analytical Report**

### **Report Summary**

Client: Enterprise Products Chain Of Custody Number: 17205 Samples Received: 7/9/2014 4:13:00PM Job Number: 97057-0352 Work Order: P407043 Project Name/Location: Lateral 10D-1

Date: 7/14/14

Entire Report Reviewed By:

Tim Cain, Laboratory Manager

The results in this report apply to the samples submitted to Envirotech's Analytical Laboratory and were analyzed in accordance with the chain of custody document supplied by you, the client, and as such are for your exclusive use only. The results in this report are based on the sample as received unless otherwise noted. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. If you have any questions regarding this analytical report, please don't hesitate to contact Envirotech's Laboratory Staff.



| Enterprise Products  | Project Name:    | Lateral 10D-1           |                 |
|----------------------|------------------|-------------------------|-----------------|
| 614 Reilly Ave       | Project Number:  | 97057-0352              | Reported:       |
| Farmington NM, 87401 | Project Manager: | Kyle Summers-Apex TITAN | 14-Jul-14 11:16 |

### **Analyical Report for Samples**

| Client Sample ID | Lab Sample ID | Matrix | Sampled  | Received | Container        |
|------------------|---------------|--------|----------|----------|------------------|
| S-2              | P407043-01A   | Soil   | 07/08/14 | 07/09/14 | Glass Jar, 4 oz. |
| S-3              | P407043-02A   | Soil   | 07/08/14 | 07/09/14 | Glass Jar, 4 oz. |
| S-4              | P407043-03A   | Soil   | 07/08/14 | 07/09/14 | Glass Jar, 4 oz. |
| S-5              | P407043-04A   | Soil   | 07/08/14 | 07/09/14 | Glass Jar, 4 oz. |

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| Enterprise Products<br>614 Reilly Ave<br>Farmington NM, 87401 | Projec<br>Projec<br>Projec | et Name:<br>et Number:<br>et Manager: | Later<br>9705<br>Kyle | ral 10D-1<br>57-0352<br>Summers-A | pex TITAN |          |          | <b>Reported:</b><br>14-Jul-14 11:16 |       |  |  |  |
|---|----------------------------|---------------------------------------|-----------------------|-----------------------------------|-----------|----------|----------|-------------------------------------|-------|--|--|--|
| S-2<br>P407043-01 (Solid)                                     |                            |                                       |                       |                                   |           |          |          |                                     |       |  |  |  |
| Reporting   |                            |                                       |                       |                                   |           |          |          |                                     |       |  |  |  |
| Analyte   | Result                     | Limit                                 | Units                 | Dilution                          | Batch     | Prepared | Analyzed | Method                              | Notes |  |  |  |
| Volatile Organics by EPA 8021                                 |                            |                                       |                       |                                   |           |          |          |                                     |       |  |  |  |
| Benzene   | ND                         | 0.05                                  | mg/kg                 | 1                                 | 1428022   | 07/10/14 | 07/11/14 | EPA 8021B                           |       |  |  |  |
| Toluene   | ND                         | 0.05                                  | mg/kg                 | 1                                 | 1428022   | 07/10/14 | 07/11/14 | EPA 8021B                           |       |  |  |  |
| Ethylbenzene  | ND                         | 0.05                                  | mg/kg                 | 1                                 | 1428022   | 07/10/14 | 07/11/14 | EPA 8021B                           |       |  |  |  |
| p,m-Xylene  | ND                         | 0.05                                  | mg/kg                 | 1                                 | 1428022   | 07/10/14 | 07/11/14 | EPA 8021B                           |       |  |  |  |
| o-Xylene  | ND                         | 0.05                                  | mg/kg                 | 1                                 | 1428022   | 07/10/14 | 07/11/14 | EPA 8021B                           |       |  |  |  |
| Total Xylenes   | ND                         | 0.05                                  | mg/kg                 | 1                                 | 1428022   | 07/10/14 | 07/11/14 | EPA 8021B                           |       |  |  |  |
| Total BTEX  | ND                         | 0.05                                  | mg/kg                 | 1                                 | 1428022   | 07/10/14 | 07/11/14 | EPA 8021B                           |       |  |  |  |
| Surrogate: Bromochlorobenzene                                 |                            | 102 %                                 | 80                    | -120                              | 1428022   | 07/10/14 | 07/11/14 | EPA 8021B                           |       |  |  |  |
| Surrogate: 1,3-Dichlorobenzene                                |                            | 99.4 %                                | 80                    | -120                              | 1428022   | 07/10/14 | 07/11/14 | EPA 8021B                           |       |  |  |  |
| Nonhalogenated Organics by 8015                               |                            |                                       |                       |                                   |           |          |          |                                     |       |  |  |  |
| Gasoline Range Organics (C6-C10)                              | ND                         | 4.99                                  | mg/kg                 | 1                                 | 1428022   | 07/10/14 | 07/11/14 | EPA 8015D                           |       |  |  |  |
| Diesel Range Organics (C10-C28)                               | ND                         | 29.9                                  | mg/kg                 | 1                                 | 1428023   | 07/10/14 | 07/11/14 | EPA 8015D                           |       |  |  |  |

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|---|----------------------------|---------------------------------------|-----------------------|----------------------------------|------------|----------|----------|----------------------------|-------|
|   |                            | P4070                                 | S-3<br>43-02 (Se      | olid)                            |            |          |          |                            |       |
| Analyte   | Result                     | Reporting<br>Limit                    | Units                 | Dilution                         | Batch      | Prepared | Analyzed | Method                     | Notes |
| Volatile Organics by EPA 8021                                 |                            |                                       |                       |                                  |            |          |          |                            |       |
| Benzene   | ND                         | 0.05                                  | mg/kg                 | 1                                | 1428022    | 07/10/14 | 07/11/14 | EPA 8021B                  |       |
| Toluene   | ND                         | 0.05                                  | mg/kg                 | 1                                | 1428022    | 07/10/14 | 07/11/14 | EPA 8021B                  |       |
| Ethylbenzene  | ND                         | 0.05                                  | mg/kg                 | 1                                | 1428022    | 07/10/14 | 07/11/14 | EPA 8021B                  |       |
| p,m-Xylene  | ND                         | 0.05                                  | mg/kg                 | 1                                | 1428022    | 07/10/14 | 07/11/14 | EPA 8021B                  |       |
| o-Xylene  | ND                         | 0.05                                  | mg/kg                 | 1                                | 1428022    | 07/10/14 | 07/11/14 | EPA 8021B                  |       |
| Total Xylenes   | ND                         | 0.05                                  | mg/kg                 | 1                                | 1428022    | 07/10/14 | 07/11/14 | EPA 8021B                  |       |
| Total BTEX  | ND                         | 0.05                                  | mg/kg                 | 1                                | 1428022    | 07/10/14 | 07/11/14 | EPA 8021B                  |       |
| Surrogate: Bromochlorobenzene                                 |                            | 102 %                                 | 80                    | -120                             | 1428022    | 07/10/14 | 07/11/14 | EPA 8021B                  |       |
| Surrogate: 1,3-Dichlorobenzene                                |                            | 99.2 %                                | 80                    | -120                             | 1428022    | 07/10/14 | 07/11/14 | EPA 8021B                  |       |
| Nonhalogenated Organics by 8015                               |                            |                                       |                       |                                  |            |          |          |                            |       |
| Gasoline Range Organics (C6-C10)                              | ND                         | 5.00                                  | mg/kg                 | 1                                | 1428022    | 07/10/14 | 07/11/14 | EPA 8015D                  |       |
| Diesel Range Organics (C10-C28)                               | ND                         | 30.0                                  | mg/kg                 | I                                | 1428023    | 07/10/14 | 07/11/14 | EPA 8015D                  |       |

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|---|----------------------------|---------------------------------------|-----------------------|----------------------------------|------------|----------|----------|-----------------------------------|-------|
|   |                            | P4070                                 | S-4<br>43-03 (So      | olid)                            |            |          |          |                                   |       |
| Analyte   | Result                     | Reporting<br>Limit                    | Units                 | Dilution                         | Batch      | Prepared | Analyzed | Method                            | Notes |
| Volatile Organics by EPA 8021                                 |                            |                                       |                       |                                  |            |          |          |                                   |       |
| Benzene   | ND                         | 0.05                                  | mg/kg                 | 1                                | 1428022    | 07/10/14 | 07/11/14 | EPA 8021B                         |       |
| Toluene   | ND                         | 0.05                                  | mg/kg                 | 1                                | 1428022    | 07/10/14 | 07/11/14 | EPA 8021B                         |       |
| Ethylbenzene  | ND                         | 0.05                                  | mg/kg                 | 1                                | 1428022    | 07/10/14 | 07/11/14 | EPA 8021B                         |       |
| p,m-Xylene  | ND                         | 0.05                                  | mg/kg                 | 1                                | 1428022    | 07/10/14 | 07/11/14 | EPA 8021B                         |       |
| o-Xylene  | ND                         | 0.05                                  | mg/kg                 | 1                                | 1428022    | 07/10/14 | 07/11/14 | EPA 8021B                         |       |
| Total Xylenes   | ND                         | 0.05                                  | mg/kg                 | 1                                | 1428022    | 07/10/14 | 07/11/14 | EPA 8021B                         |       |
| Total BTEX  | ND                         | 0.05                                  | mg/kg                 | 1                                | 1428022    | 07/10/14 | 07/11/14 | EPA 8021B                         |       |
| Surrogate: Bromochlorobenzene                                 |                            | 101 %                                 | 80                    | -120                             | 1428022    | 07/10/14 | 07/11/14 | EPA 8021B                         |       |
| Surrogate: 1,3-Dichlorobenzene                                |                            | 98.1 %                                | 80                    | -120                             | 1428022    | 07/10/14 | 07/11/14 | EPA 8021B                         |       |
| Nonhalogenated Organics by 8015                               | ,                          |                                       |                       |                                  |            |          |          |                                   |       |
| Gasoline Range Organics (C6-C10)                              | ND                         | 4.98                                  | mg/kg                 | 1                                | 1428022    | 07/10/14 | 07/11/14 | EPA 8015D                         |       |
| Diesel Range Organics (C10-C28)                               | ND                         | 30.0                                  | mg/kg                 | 1                                | 1428023    | 07/10/14 | 07/11/14 | EPA 8015D                         |       |

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|---|----------------------------|---------------------------------------|-----------------------|----------------------------------|------------|----------|----------|---------------------------------|-------|
|   |                            | P4070                                 | S-5<br>43-04 (Se      | olid)                            |            |          |          |                                 |       |
| Analyte   | Result                     | Reporting<br>Limit                    | Units                 | Dilution                         | Batch      | Prepared | Analyzed | Method                          | Notes |
| Volatile Organics by EPA 8021                                 |                            |                                       |                       |                                  |            |          |          |                                 |       |
| Benzene   | ND                         | 0.05                                  | mg/kg                 | 1                                | 1428022    | 07/10/14 | 07/11/14 | EPA 8021B                       |       |
| Toluene   | ND                         | 0.05                                  | mg/kg                 | 1                                | 1428022    | 07/10/14 | 07/11/14 | EPA 8021B                       |       |
| Ethylbenzene  | ND                         | 0.05                                  | mg/kg                 | 1                                | 1428022    | 07/10/14 | 07/11/14 | EPA 8021B                       |       |
| p,m-Xylene  | ND                         | 0.05                                  | mg/kg                 | 1                                | 1428022    | 07/10/14 | 07/11/14 | EPA 8021B                       |       |
| o-Xylene  | ND                         | 0.05                                  | mg/kg                 | 1                                | 1428022    | 07/10/14 | 07/11/14 | EPA 8021B                       |       |
| Total Xylenes   | ND                         | 0.05                                  | mg/kg                 | 1                                | 1428022    | 07/10/14 | 07/11/14 | EPA 8021B                       |       |
| Total BTEX  | ND                         | 0.05                                  | mg/kg                 | 1                                | 1428022    | 07/10/14 | 07/11/14 | EPA 8021B                       |       |
| Surrogate: Bromochlorobenzene                                 |                            | 102 %                                 | 80                    | -120                             | 1428022    | 07/10/14 | 07/11/14 | EPA 8021B                       |       |
| Surrogate: 1,3-Dichlorobenzene                                |                            | 99.4 %                                | 80                    | -120                             | 1428022    | 07/10/14 | 07/11/14 | EPA 8021B                       |       |
| Nonhalogenated Organics by 8015                               |                            |                                       |                       |                                  |            |          |          |                                 |       |
| Gasoline Range Organics (C6-C10)                              | ND                         | 4.99                                  | mg/kg                 | 1                                | 1428022    | 07/10/14 | 07/11/14 | EPA 8015D                       |       |
| Diesel Range Organics (C10-C28)                               | ND                         | 29.9                                  | mg/kg                 | 1                                | 1428023    | 07/10/14 | 07/11/14 | EPA 8015D                       |       |

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| Enterprise Products  | Project Name:    | Lateral 10D-1           |                 |
|----------------------|------------------|-------------------------|-----------------|
| 614 Reilly Ave       | Project Number:  | 97057-0352              | Reported:       |
| Farmington NM, 87401 | Project Manager: | Kyle Summers-Apex TITAN | 14-Jul-14 11:16 |

### Volatile Organics by EPA 8021 - Quality Control

### **Envirotech Analytical Laboratory**

| Analida                                | Popult | Reporting     | Linita | Spike      | Source      | AND EC    | %REC   | מתת | RPD<br>Limit | Natas |
|--|--------|---------------|--------|------------|-------------|-----------|--------|-----|--------------|-------|
| Analyte                                |        |               | onns   | Level      | Result      | 70REC     | LINKS  | KPD |              | notes |
| Batch 1428022 - Purge and Trap EPA 50. | 30A    |               |        |            |             |           |        |     |              |       |
| Blank (1428022-BLK1)                   |        |               |        | Prepared & | & Analyzed: | 10-Jul-14 |        |     |              |       |
| Benzene                                | ND     | 0.001         | mg/kg  |            |             |           |        |     |              |       |
| Toluene                                | ND     | 0.001         | "      |            |             |           |        |     |              |       |
| Ethylbenzene                           | ND     | 0.001         |        |            |             |           |        |     |              |       |
| p,m-Xylene                             | ND     | 0.001         |        |            |             |           |        |     |              |       |
| o-Xylene                               | ND     | 0.001         |        |            |             |           |        |     |              |       |
| Total Xylenes                          | ND     | 0.001         | н      |            |             |           |        |     |              |       |
| Total BTEX                             | ND     | 0.001         | "      |            |             |           |        |     |              |       |
| Surrogate: 1,3-Dichlorobenzene         | 44.4   |               | ug/L   | 50.0       |             | 88.9      | 80-120 |     |              |       |
| Surrogate: Bromochlorohenzene          | 46.3   |               | "      | 50.0       |             | 92.7      | 80-120 |     |              |       |
| Duplicate (1428022-DUP1)               | Sou    | rce: P407040- | 01     | Prepared & | k Analyzed: | 10-Jul-14 |        |     |              |       |
| Benzene                                | ND     | 0.001         | mg/kg  |            | ND          |           |        |     | 30           |       |
| Toluene                                | ND     | 0.001         | "      |            | ND          |           |        |     | 30           |       |
| Ethylbenzene                           | ND     | 0.001         | "      |            | ND          |           |        |     | 30           |       |
| p,m-Xylene                             | ND     | 0.001         | "      |            | ND          |           |        |     | 30           |       |
| o-Xylene                               | ND     | 0.001         | "      |            | ND          |           |        |     | 30           |       |
| Surrogate: 1,3-Dichlorobenzene         |        |               | ug/L   | 50.0       |             | 88.7      | 80-120 |     |              |       |
| Surrogate: Bromochlorobenzene          | 46.7   |               | "      | 50.0       |             | 93.3      | 80-120 |     |              |       |
| Matrix Spike (1428022-MS1)             | Sou    | rce: P407040- | 01     | Prepared & | k Analyzed: | 10-Jul-14 |        |     |              |       |
| Benzene                                | 47.1   |               | ug/L   | 50.0       | ND          | 94,2      | 39-150 |     |              |       |
| Toluene                                | 47.0   |               |        | 50.0       | ND          | 94.1      | 46-148 |     |              |       |
| Ethylbenzene                           | 47.0   |               |        | 50.0       | ND          | 94.1      | 32-160 |     |              |       |
| p,m-Xylene                             | 93.6   |               |        | 100        | ND          | 93.6      | 46-148 |     |              |       |
| o-Xylene                               | 46.9   |               |        | 50.0       | ND          | 93.7      | 46-148 |     |              |       |
| Surrogate: 1,3-Dichlorobenzene         | 46.4   |               | "      | 50.0       |             | 92.8      | 80-120 |     |              |       |
| Surrogate: Bromochlorobenzene          | 49.1   |               | n      | 50.0       |             | 98.1      | 80-120 |     |              |       |

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| Enterprise Products  | Project Name:    | Lateral 10D-1           |                 |
|----------------------|------------------|-------------------------|-----------------|
| 614 Reilly Ave       | Project Number:  | 97057-0352              | Reported:       |
| Farmington NM, 87401 | Project Manager: | Kyle Summers-Apex TITAN | 14-Jul-14 11:16 |

#### Nonhalogenated Organics by 8015 - Quality Control

### **Envirotech Analytical Laboratory**

|  |        | Reporting   |       | Spike      | Source      |           | %REC   |     | RPD   |       |
|--|--------|-------------|-------|------------|-------------|-----------|--------|-----|-------|-------|
| Analyte                                  | Result | Limit       | Units | Level      | Result      | %REC      | Limits | RPD | Limit | Notes |
| Batch 1428022 - Purge and Trap EPA 5030A |        |             |       |            |             |           |        |     |       |       |
| Blank (1428022-BLK1)                     |        |             |       | Prepared & | z Analyzed: | 10-Jul-14 |        |     |       |       |
| Gasoline Range Organics (C6-C10)         | ND     | 0.10        | mg/kg |            |             |           |        |     |       |       |
| Duplicate (1428022-DUP1)                 | Sourc  | e: P407040- | 01    | Prepared & | Analyzed:   | 10-Jul-14 |        |     |       |       |
| Gasoline Range Organics (C6-C10)         | ND     | 0.10        | mg/kg |            | ND          |           |        |     | 30    |       |
| Matrix Spike (1428022-MS1)               | Sourc  | e: P407040- | 01    | Prepared & | Analyzed:   | 10-Jul-14 |        |     |       |       |
| Gasoline Range Organics (C6-C10)         | 0.44   |             | mg/L  | 0.450      | ND          | 97.8      | 75-125 |     |       |       |



| Enterprise Products  | Project Name:    | Lateral 10D-1           |                 |
|----------------------|------------------|-------------------------|-----------------|
| 614 Reilly Ave       | Project Number:  | 97057-0352              | Reported:       |
| Farmington NM, 87401 | Project Manager: | Kyle Summers-Apex TITAN | 14-Jul-14 11:16 |

### Nonhalogenated Organics by 8015 - Quality Control

#### **Envirotech Analytical Laboratory** Reporting Spike Source %REC RPD Units RPD Result Limit Level %REC Limit Analyte Result Limits Batch 1428023 - DRO Extraction EPA 3550C Blank (1428023-BLK1) Prepared: 10-Jul-14 Analyzed: 11-Jul-14 Diesel Range Organics (C10-C28) ND 29.9 mg/kg Duplicate (1428023-DUP1) Source: P407040-01 Prepared & Analyzed: 10-Jul-14 Diesel Range Organics (C10-C28) ND 30.0 mg/kg ND 30

| Matrix Spike (1428023-MS1)      | Source: P4 | 07040-01 | Prepared & | Analyzed: | 10-Jul-14 |        |  |  |
|---------------------------------|------------|----------|------------|-----------|-----------|--------|--|--|
| Diesel Range Organics (C10-C28) | 219        | mg/L     | 250        | 7.96      | 84.5      | 75-125 |  |  |

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Notes



| Enterprise Products  | Project Name:    | Lateral 10D-1           |                 |
|----------------------|------------------|-------------------------|-----------------|
| 614 Reilly Ave       | Project Number:  | 97057-0352              | Reported:       |
| Farmington NM, 87401 | Project Manager: | Kyle Summers-Apex TITAN | 14-Jul-14 11:16 |

#### **Notes and Definitions**

- DET
   Analyte DETECTED

   ND
   Analyte NOT DETECTED at or above the reporting limit

   NR
   Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

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## CHAIN OF CUSTODY RECORD

17205

| Client: Project Name / Location: |                       |                |                        |                |                    |                        |                       | 1.DRO               |        |        |             | A     | NAL      | /SIS        | / PA  | RAM    | ETEF   | RS     |        |       |       |        |
|----------------------------------|-----------------------|----------------|------------------------|----------------|--------------------|------------------------|-----------------------|---------------------|--------|--------|-------------|-------|----------|-------------|-------|--------|--------|--------|--------|-------|-------|--------|
| Enterprise Fuld Ja               | Prvices               |                | ampler Name:           |                | <u></u>            |                        |                       |                     | 260    |        |             |       |          |             |       | 1      | 1      | Т      |        |       | Τ-    |        |
| hulods Qa                        | eapex co<br>pexcrs co | s. con         | A. Brank               | ' H. i         | bods               |                        |                       |                     | 015)   | 8021   | (J)         |       |          |             |       |        |        |        |        |       |       |        |
| Client Phone No.:                |                       |                | lient No.:             | <u></u>        |                    |                        |                       |                     | od 8   | poq    | od 8        | etals | ion      |             | H/P   | 10-1   |        |        |        |       |       | gt c   |
| (903) 821-5603                   | 3                     |                | 4705                   | 7-0352         |                    |                        | Veth                  | (Met                | Meth   | 8<br>M | / Ar        |       | with     | ble 9       | 118.  | RIDE   |        |        |        | e lut |       |        |
| Sample No./ Identification       | Sample<br>Date        | Sample<br>Time | Lab No.                | No./<br>of Co  | Volume<br>ntainers | Pr<br>HNO <sub>3</sub> | eservat<br>нсі        | ive<br>Co <i>ld</i> | трн (/ | втех   | voc (       | RCRA  | Cation   | RCI         | TCLP  | со та  | TPH (4 | CHLO   |        |       | Samol | Sample |
| 5-2                              | 718/14                | 1505           | P407043-01             | 1-40           | z Glass            | -                      |                       | x                   | x      | X      |             |       |          |             |       |        |        |        |        |       | Y     | Y      |
| 5-3                              | 7/8/14                | 1510           | P407043-02             | 1-40           | z Glass            |                        |                       | X                   | x      | x      |             |       |          |             |       |        |        |        |        |       |       |        |
| 5-4                              | 718/14                | 1515           | P407043-03             | 1-4            | oz Glaus           |                        |                       | ×                   | K.     | X      |             |       |          |             |       |        |        |        |        |       |       |        |
| S-5                              | 718/14                | 1520           | P407043-04             | 1-4            | oz Gluss           |                        |                       | ×                   | ٨      | ۲      |             |       |          |             |       |        |        |        |        |       | 1     | - +-   |
|                                  |                       |                |                        |                |                    |                        |                       |                     |        |        |             |       |          |             |       |        |        |        |        |       |       |        |
|                                  |                       |                |                        |                | _                  |                        |                       |                     | •      |        |             |       |          |             |       |        |        |        |        |       |       |        |
|                                  |                       |                |                        |                |                    |                        |                       |                     |        |        |             |       |          |             |       |        |        |        |        |       |       |        |
|                                  |                       |                |                        |                |                    |                        |                       |                     |        |        |             |       | _        |             |       |        |        |        |        |       |       |        |
|                                  |                       |                |                        |                |                    |                        |                       |                     |        |        |             |       |          |             |       |        |        |        |        |       |       |        |
|                                  |                       |                |                        |                |                    |                        |                       | _                   |        |        |             |       |          |             |       |        |        |        |        |       |       |        |
| Relinquished by: (Signature)     |                       |                |                        | Date<br>7/9/14 | Time               | Recei                  | ved b                 | y: (Si              | gnati  | ure)   |             | -     |          | _           | ~     |        |        |        |        | Da    | te    | Time   |
| Heather M. W                     | bods                  |                | t t                    | 1.6/19         | 1613               |                        |                       |                     |        |        | /           |       |          | . V-        | 1     |        |        |        | -      | 79    | 141   | 613    |
| Relinquished by: (Signature)     |                       |                |                        |                |                    | Recei                  | ved b                 | y: (Si              | gnatı  | ure)   |             |       |          |             |       |        |        |        |        |       |       |        |
| Sample Matrix                    |                       |                |                        |                |                    |                        |                       |                     |        |        |             |       |          |             |       |        |        |        |        |       |       |        |
| Soil 💭 Solid 🗌 Sludge 🗌          | Aqueous 🗌             | Other [        | <u> </u>               |                |                    |                        |                       |                     |        |        |             |       |          |             |       |        |        |        |        |       |       |        |
| Sample(s) dropped off after      | hours to sec          | ure drop       | off area.              | メー             |                    |                        | . 1                   |                     |        |        | Da.         |       |          | 'R7         | 12    | $\sim$ |        | ·      |        |       |       |        |
| RUSH Per                         | - Hea<br>10/14 -      | ther<br>TC     |                        | 36             | Analy              | t <b>i C</b>           | <b>) [</b> (<br>al La | e (                 | atory  | /      | ۱۱ <u>.</u> | 3     | ן ר<br>ו | ۲. <i>(</i> | 1     | 12     |        | 5      |        |       |       |        |
| 5795 US Highway 64               | 4 • Farmingto         | on, NM 87      | 401 • 505-632-0615 • 7 | lhree Spri     | ngs • 65 M         | ercad                  | do Stre               | eet, Su             | uite 1 | 15, Di | Jrang       | jo, C | 5 813    | 01 •        | labor | ratory | /@en   | virote | ch-inc | Pa    | je 11 | of 11  |

san juan reproduction 578-12



### **Analytical Report**

### **Report Summary**

Client: Enterprise Products Chain Of Custody Number: 17197 Samples Received: 7/8/2014 4:17:00PM Job Number: 97057-0352 Work Order: P407034 Project Name/Location: 10D-1

Date: 7/10/14

Entire Report Reviewed By:

Tim Cain, Laboratory Manager

Supplement to analytical report generated on: 7/10/14 10:28 am

The results in this report apply to the samples submitted to Envirotech's Analytical Laboratory and were analyzed in accordance with the chain of custody document supplied by you, the client, and as such are for your exclusive use only. The results in this report are based on the sample as received unless otherwise noted. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. If you have any questions regarding this analytical report, please don't hesitate to contact Envirotech's Laboratory Staff.

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| Enterprise Products  | Project Name:    | 10D-1                   |                 |
|----------------------|------------------|-------------------------|-----------------|
| 614 Reilly Ave       | Project Number:  | 97057-0352              | Reported:       |
| Farmington NM, 87401 | Project Manager: | Kyle Summers-Apex TITAN | 10-Jul-14 13:23 |

### **Analyical Report for Samples**

| Client Sample ID | Lab Sample ID | Matrix | Sampled  | Received | Container        |
|------------------|---------------|--------|----------|----------|------------------|
| SP-1             | P407034-01A   | Soil   | 07/08/14 | 07/08/14 | Glass Jar, 4 oz. |
| SP-2             | P407034-02A   | Soil   | 07/08/14 | 07/08/14 | Glass Jar, 4 oz. |
| SP-3             | P407034-03A   | Soil   | 07/08/14 | 07/08/14 | Glass Jar, 4 oz. |

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| Enterprise Products<br>614 Reilly Ave<br>Farmington NM, 87401 | Project Name:       10D-1         Project Number:       97057-0352         Project Manager:       Kyle Summers-Apex TITAN |                    |       |          |         |          | Interprise Products     Project Name:     10D-1       14 Reilly Ave     Project Number:     97057-0352       armington NM, 87401     Project Manager:     Kyle Summers-Apex TITAN |           |       |  |  |  | <b>Reported</b> :<br>10-Jul-14 13:23 |  |  |  |
|---|---|--------------------|-------|----------|---------|----------|---|-----------|-------|--|--|--|--------------------------------------|--|--|--|
| SP-1<br>P407034-01 (Solid)                                    |   |                    |       |          |         |          |   |           |       |  |  |  |                                      |  |  |  |
| Analyte   | Result  | Reporting<br>Limit | Units | Dilution | Batch   | Prepared | Analyzed  | Method    | Notes |  |  |  |                                      |  |  |  |
| Volatile Organics by EPA 8021                                 |   |                    |       |          |         |          |   |           |       |  |  |  |                                      |  |  |  |
| Benzene   | ND  | 0.05               | mg/kg | 1        | 1428015 | 07/09/14 | 07/09/14  | EPA 8021B |       |  |  |  |                                      |  |  |  |
| Toluene   | ND  | 0.05               | mg/kg | 1        | 1428015 | 07/09/14 | 07/09/14  | EPA 8021B |       |  |  |  |                                      |  |  |  |
| Ethylbenzene  | ND  | 0.05               | mg/kg | 1        | 1428015 | 07/09/14 | 07/09/14  | EPA 8021B |       |  |  |  |                                      |  |  |  |
| p,m-Xylene  | ND  | 0.05               | mg/kg | 1        | 1428015 | 07/09/14 | 07/09/14  | EPA 8021B |       |  |  |  |                                      |  |  |  |
| o-Xylene  | ND  | 0.05               | mg/kg | 1        | 1428015 | 07/09/14 | 07/09/14  | EPA 8021B |       |  |  |  |                                      |  |  |  |
| Total Xylenes   | ND  | 0.05               | mg/kg | l        | 1428015 | 07/09/14 | 07/09/14  | EPA 8021B |       |  |  |  |                                      |  |  |  |
| Total BTEX  | ND  | 0.05               | mg/kg | 1        | 1428015 | 07/09/14 | 07/09/14  | EPA 8021B |       |  |  |  |                                      |  |  |  |
| Surrogate: Bromochlorobenzene                                 |   | 99.2 %             | 80    | -120     | 1428015 | 07/09/14 | 07/09/14  | EPA 8021B |       |  |  |  |                                      |  |  |  |
| Surrogate: 1,3-Dichlorobenzene                                |   | 97.9 %             | 80    | -120     | 1428015 | 07/09/14 | 07/09/14  | EPA 8021B |       |  |  |  |                                      |  |  |  |
| Nonhalogenated Organics by 8015                               |   |                    |       |          |         |          |   |           |       |  |  |  |                                      |  |  |  |
| Gasoline Range Organics (C6-C10)                              | ND  | 5.00               | mg/kg | 1        | 1428015 | 07/09/14 | 07/09/14  | EPA 8015D |       |  |  |  |                                      |  |  |  |
| Diesel Range Organics (C10-C28)                               | ND  | 30.0               | mg/kg | 1        | 1428016 | 07/09/14 | 07/09/14  | EPA 8015D |       |  |  |  |                                      |  |  |  |



| Enterprise Products<br>614 Reilly Ave<br>Farmington NM, 87401 | Projec<br>Projec<br>Projec | t Name:<br>t Number:<br>t Manager: | 10D-<br>9705<br>Kyle | ·1<br>7-0352<br>Summers-A | pex TITAN |          | <b>Reported:</b><br>10-Jul-14 13:23 |           |       |  |  |  |
|---|----------------------------|------------------------------------|----------------------|---------------------------|-----------|----------|-------------------------------------|-----------|-------|--|--|--|
| SP-2<br>P407034-02 (Solid)                                    |                            |                                    |                      |                           |           |          |                                     |           |       |  |  |  |
|   |                            | Reporting                          |                      |                           |           |          |                                     |           |       |  |  |  |
| Analyte   | Result                     | Limit                              | Units                | Dilution                  | Batch     | Prepared | Analyzed                            | Method    | Notes |  |  |  |
| Volatile Organics by EPA 8021                                 |                            |                                    |                      |                           |           |          |                                     |           |       |  |  |  |
| Benzene   | ND                         | 0.05                               | mg/kg                | 1                         | 1428015   | 07/09/14 | 07/09/14                            | EPA 8021B |       |  |  |  |
| Toluene   | ND                         | 0.05                               | mg/kg                | 1                         | 1428015   | 07/09/14 | 07/09/14                            | EPA 8021B |       |  |  |  |
| Ethylbenzene  | ND                         | 0.05                               | mg/kg                | 1                         | 1428015   | 07/09/14 | 07/09/14                            | EPA 8021B |       |  |  |  |
| p,m-Xylene  | ND                         | 0.05                               | mg/kg                | 1                         | 1428015   | 07/09/14 | 07/09/14                            | EPA 8021B |       |  |  |  |
| o-Xylene  | ND                         | 0.05                               | mg/kg                | 1                         | 1428015   | 07/09/14 | 07/09/14                            | EPA 8021B |       |  |  |  |
| Total Xylenes   | ND                         | 0.05                               | mg/kg                | 1                         | 1428015   | 07/09/14 | 07/09/14                            | EPA 8021B |       |  |  |  |
| Total BTEX  | ND                         | 0.05                               | mg/kg                | 1                         | 1428015   | 07/09/14 | 07/09/14                            | EPA 8021B |       |  |  |  |
| Surrogate: Bromochlorobenzene                                 |                            | 98.0 %                             | 80                   | -120                      | 1428015   | 07/09/14 | 07/09/14                            | EPA 8021B |       |  |  |  |
| Surrogate: 1,3-Dichlorobenzene                                |                            | 95.5 %                             | 80                   | -120                      | 1428015   | 07/09/14 | 07/09/14                            | EPA 8021B |       |  |  |  |
| Nonhalogenated Organics by 8015                               |                            |                                    |                      |                           |           |          |                                     |           |       |  |  |  |
| Gasoline Range Organics (C6-C10)                              | ND                         | 4.99                               | mg/kg                | 1                         | 1428015   | 07/09/14 | 07/09/14                            | EPA 8015D |       |  |  |  |
| Diesel Range Organics (C10-C28)                               | 33.7                       | 30.0                               | mg/kg                | 1                         | 1428016   | 07/09/14 | 07/09/14                            | EPA 8015D |       |  |  |  |



| Enterprise Products<br>614 Reilly Ave<br>Farmington NM, 87401 | rprise Products Project Name: 10D-1<br>Reilly Ave Project Number: 97057-0352<br>nington NM, 87401 Project Manager: Kyle Summers-Apex TITAN |                    |       |          |         |          |          |           | :23   |  |  |  |
|---|--|--------------------|-------|----------|---------|----------|----------|-----------|-------|--|--|--|
| SP-3<br>P407034-03 (Solid)                                    |  |                    |       |          |         |          |          |           |       |  |  |  |
| Analyte   | Result   | Reporting<br>Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |  |  |  |
| Volatile Organics by EPA 8021                                 |  |                    |       |          |         |          |          |           |       |  |  |  |
| Benzene   | ND   | 0.05               | mg/kg | 1        | 1428015 | 07/09/14 | 07/09/14 | EPA 8021B |       |  |  |  |
| Toluene   | ND   | 0.05               | mg/kg | 1        | 1428015 | 07/09/14 | 07/09/14 | EPA 8021B |       |  |  |  |
| Ethylbenzene  | ND   | 0.05               | mg/kg | 1        | 1428015 | 07/09/14 | 07/09/14 | EPA 8021B |       |  |  |  |
| p,m-Xylene  | ND   | 0.05               | mg/kg | 1        | 1428015 | 07/09/14 | 07/09/14 | EPA 8021B |       |  |  |  |
| o-Xylene  | ND   | 0.05               | mg/kg | 1        | 1428015 | 07/09/14 | 07/09/14 | EPA 8021B |       |  |  |  |
| Total Xylenes   | ND   | 0.05               | mg/kg | 1        | 1428015 | 07/09/14 | 07/09/14 | EPA 8021B |       |  |  |  |
| Total BTEX  | ND   | 0.05               | mg/kg | 1        | 1428015 | 07/09/14 | 07/09/14 | EPA 8021B |       |  |  |  |
| Surrogate: 1,3-Dichlorobenzene                                |  | 98.0 %             | 80    | -120     | 1428015 | 07/09/14 | 07/09/14 | EPA 8021B |       |  |  |  |
| Surrogate: Bromochlorobenzene                                 |  | 102 %              | 80    | -120     | 1428015 | 07/09/14 | 07/09/14 | EPA 8021B |       |  |  |  |
| Nonhalogenated Organics by 8015                               |  |                    |       |          |         |          |          | _         |       |  |  |  |
| Gasoline Range Organics (C6-C10)                              | ND   | 5.00               | mg/kg | 1        | 1428015 | 07/09/14 | 07/09/14 | EPA 8015D |       |  |  |  |
| Diesel Range Organics (C10-C28)                               | ND   | 29.9               | mg/kg | 1        | 1428016 | 07/09/14 | 07/09/14 | EPA 8015D |       |  |  |  |



| Enterprise Products  | Project Name:    | 10D-1                   |                 |
|----------------------|------------------|-------------------------|-----------------|
| 614 Reilly Ave       | Project Number:  | 97057-0352              | Reported:       |
| Farmington NM, 87401 | Project Manager: | Kyle Summers-Apex TITAN | 10-Jul-14 13:23 |

### Volatile Organics by EPA 8021 - Quality Control

### **Envirotech Analytical Laboratory**

|                                    |        | Reporting      |       | Spike      | Source    |           | %REC   |     | RPD   |       |
|------------------------------------|--------|----------------|-------|------------|-----------|-----------|--------|-----|-------|-------|
| Analyte                            | Result | Limit          | Units | Level      | Result    | %REC      | Limits | RPD | Limit | Notes |
| Batch 1428015 - Purge and Trap EPA | 5030A  |                |       |            |           |           |        |     |       |       |
| Blank (1428015-BLK1)               |        |                |       | Prepared & | Analyzed  | 09-Jul-14 |        |     |       |       |
| Benzene                            | ND     | 0.05           | mg/kg |            |           |           |        |     |       |       |
| Toluene                            | ND     | 0.05           |       |            |           |           |        |     |       |       |
| Ethylbenzene                       | ND     | 0.05           | "     |            |           |           |        |     |       |       |
| p,m-Xylene                         | ND     | 0.05           |       |            |           |           |        |     |       |       |
| o-Xylene                           | ND     | 0.05           | •     |            |           |           |        |     |       |       |
| Total Xylenes                      | ND     | 0.05           |       |            |           |           |        |     |       |       |
| Total BTEX                         | ND     | 0.05           | "     |            |           |           |        |     |       |       |
| Surrogate: 1,3-Dichlorobenzene     | 46.8   |                | ug/L  | 50,0       |           | 93.7      | 80-120 |     |       |       |
| Surrogate: Bromochlorobenzene      | 45.8   |                | "     | 50.0       |           | 91.6      | 80-120 |     |       |       |
| Duplicate (1428015-DUP1)           | Sou    | irce: P407033- | 01    | Prepared & | Analyzed: | 09-Jul-14 |        |     |       |       |
| Benzene                            | ND     | 0.05           | mg/kg |            | ND        |           |        |     | 30    |       |
| Toluene                            | ND     | 0.05           | н     |            | ND        |           |        |     | 30    |       |
| Ethylbenzene                       | ND     | 0.05           |       |            | ND        |           |        |     | 30    |       |
| p,m-Xylene                         | ND     | 0.05           |       |            | ND        |           |        |     | 30    |       |
| o-Xylene                           | ND     | 0.05           | "     |            | ND        |           |        |     | 30    |       |
| Surrogate: 1,3-Dichlorobenzene     | 47.6   |                | ug/L  | 50.0       |           | 95.2      | 80-120 |     |       |       |
| Surrogate: Bromochlorobenzene      | 48.5   |                | "     | 50.0       |           | 97. I     | 80-120 |     |       |       |
| Matrix Spike (1428015-MS1)         | Sou    | irce: P407033- | -01   | Prepared & | Analyzed: | 09-Jul-14 |        |     |       |       |
| Benzene                            | 49.2   |                | ug/L  | 50.0       | ND        | 98.4      | 39-150 |     |       |       |
| Toluene                            | 49.1   |                | •     | 50.0       | ND        | 98.3      | 46-148 |     |       |       |
| Ethylbenzene                       | 49.0   |                |       | 50.0       | ND        | 98.0      | 32-160 |     |       |       |
| p,m-Xylene                         | 95.0   |                | *     | 100        | ND        | 95.0      | 46-148 |     |       |       |
| o-Xylene                           | 50.4   |                | **    | 50.0       | ND        | 101       | 46-148 |     |       |       |
| Surrogate: 1,3-Dichlorobenzene     | 50.8   |                | "     | 50.0       |           | 102       | 80-120 |     |       |       |
| Surrogate: Bromochlorobenzene      | 52.1   |                | "     | 50.0       |           | 104       | 80-120 |     |       |       |

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| Enterprise Products  | Project Name:    | 10D-1                   |                 |
|----------------------|------------------|-------------------------|-----------------|
| 614 Reilly Ave       | Project Number:  | 97057-0352              | Reported:       |
| Farmington NM, 87401 | Project Manager: | Kyle Summers-Apex TITAN | 10-Jul-14 13:23 |

### Nonhalogenated Organics by 8015 - Quality Control

| Envirotech Analytical Laboratory         |        |                    |       |                |                  |           |                |     |              |       |
|--|--------|--------------------|-------|----------------|------------------|-----------|----------------|-----|--------------|-------|
| Analyte                                  | Result | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC      | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
| Batch 1428015 - Purge and Trap EPA 5030A |        |                    |       |                |                  |           |                |     |              |       |
| Blank (1428015-BLK1)                     |        |                    |       | Prepared &     | Analyzed:        | 09-Jul-14 |                |     |              |       |
| Gasoline Range Organics (C6-C10)         | ND     | 4.99               | mg/kg |                |                  |           |                |     |              |       |
| Duplicate (1428015-DUP1)                 | Sou    | rce: P407033-      | 01    | Prepared &     | Analyzed:        | 09-Jul-14 |                |     |              |       |
| Gasoline Range Organics (C6-C10)         | ND     | 4.99               | mg/kg |                | ND               |           |                |     | 30           |       |
| Matrix Spike (1428015-MS1)               | Sou    | rce: P407033-      | 01    | Prepared &     | Analyzed:        | 09-Jul-14 |                |     |              |       |
| Gasoline Range Organics (C6-C10)         | 0.38   |                    | mg/L  | 0.450          | ND               | 84.9      | 75-125         |     |              |       |

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| Enterprise Products  | Project Name:    | 10D-1                   |                 |
|----------------------|------------------|-------------------------|-----------------|
| 614 Reilly Ave       | Project Number:  | 97057-0352              | Reported:       |
| Farmington NM, 87401 | Project Manager: | Kyle Summers-Apex TITAN | 10-Jul-14 13:23 |

### Nonhalogenated Organics by 8015 - Quality Control

### **Envirotech Analytical Laboratory**

|  |        | Reporting    |         | Spike      | Source    |           | %REC   |     | RPD   |       |
|--|--------|--------------|---------|------------|-----------|-----------|--------|-----|-------|-------|
| Analyte                                  | Result | Limit        | Units   | Level      | Result    | %REC      | Limits | RPD | Limit | Notes |
| Batch 1428016 - DRO Extraction EPA 3550C |        |              | <u></u> | <u> </u>   |           |           |        |     |       |       |
| Blank (1428016-BLK1)                     |        |              |         | Prepared & | Analyzed: | 09-Jul-14 | _      |     |       |       |
| Diesel Range Organics (C10-C28)          | ND     | 30.0         | mg/kg   |            |           |           |        |     |       |       |
| Duplicate (1428016-DUP1)                 | Sour   | ce: P407034- | 01      | Prepared & | Analyzed: | 09-Jul-14 |        |     |       |       |
| Diesel Range Organics (C10-C28)          | ND     | 29.9         | mg/kg   |            | ND        |           |        |     | 30    |       |
| Matrix Spike (1428016-MS1)               | Sour   | ce: P407034- | 01      | Prepared & | Analyzed: | 09-Jul-14 |        |     |       |       |
| Diesel Range Organics (C10-C28)          | 237    |              | mg/L    | 250        | 15.7      | 88.6      | 75-125 |     |       |       |

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| Enterprise Products  | Project Name:    | 10D-1                   |                 |
|----------------------|------------------|-------------------------|-----------------|
| 614 Reilly Ave       | Project Number:  | 97057-0352              | Reported:       |
| Farmington NM, 87401 | Project Manager: | Kyle Summers-Apex TITAN | 10-Jul-14 13:23 |

## **Notes and Definitions**

- DET
   Analyte DETECTED

   ND
   Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

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| R | US | H |
|---|----|---|
|---|----|---|

## CHAIN OF CUSTODY RECORD

17197

| lient: APEX TITAN Project Name / Location:                             |                     |                           | ANALYSIS / PARAMETERS                       |                                       |            |                  |               |              |               |              |          |           |      |          |            |        |        |        |      |              |              |
|--|---------------------|---------------------------|---|---------------------------------------|------------|------------------|---------------|--------------|---------------|--------------|----------|-----------|------|----------|------------|--------|--------|--------|------|--------------|--------------|
| Email results to:<br><u>KyLE</u> Summ<br>Client Phone No.:<br>903-821- | 56 63               | Sar<br> A<br>Clie         | npler Name:<br>ARGN BryA-<br>ent No.:<br>97 | т <u>Исали</u><br>7657-035            | EK.        | ww               | ÞJ            | Method 8015) | (Method 8021) | Method 8260) | 8 Metals | ı / Anion |      | with H/P | tble 910-1 | 418.1) | RIDE   |        |      | e Cool       | e Intact     |
| Sample No./ Identification   | Sample<br>Date      | Sample<br>Time            | Lab No.                                     | No./Volume<br>of Containers           | PI<br>HNO3 | reservati<br>нсі | ive<br>·      | трн (        | втех          | voc          | RCRA     | Catior    | RCI  | TCLP     | CO Ta      | ТРН (  | CHLO   |        |      | Sampl        | Sampl        |
| SP-1   | 7-8-14              | 1450                      | P40-7034-01                                 | 1x 402                                |            |                  |               | χ            | Х             |              |          |           |      |          |            |        |        |        |      | $\checkmark$ | $\checkmark$ |
| SP-2   |                     | 1455                      | P407034-02                                  |                                       |            |                  |               |              |               |              |          |           |      |          |            |        |        |        |      |              |              |
| SP-3   |                     | 1500                      | P407034-03                                  |                                       |            |                  |               |              |               |              |          |           |      |          |            |        |        |        |      |              |              |
|  |                     |                           |   |                                       |            |                  |               |              |               |              |          |           |      |          |            |        |        |        |      |              |              |
|  |                     |                           |   |                                       |            |                  |               |              |               |              |          |           |      |          |            |        |        |        |      |              |              |
|  |                     |                           |   |                                       |            |                  |               |              | -             |              |          |           |      |          |            |        |        |        |      |              |              |
|  |                     |                           |   |                                       |            |                  |               |              |               |              |          |           |      |          |            |        |        |        |      |              |              |
|  |                     |                           |   | · · · · · · · · · · · · · · · · · · · |            |                  |               |              |               |              |          |           |      |          |            |        |        |        |      |              |              |
| · · · · · · · · · · · · · · · · · · ·                                  |                     |                           |   |                                       |            |                  |               |              |               |              |          |           |      |          |            |        |        |        |      |              |              |
|  | <u> </u>            |                           |   |                                       | <u> </u>   |                  |               |              |               |              |          |           |      |          |            |        |        |        |      |              |              |
| Relinquished by: (Signature)   | $^{>}A^{-}$         |                           |   | 7-8-14 4:17                           |            |                  | iy: (Si<br>11 |              | ure)          | 2            |          |           |      |          |            |        |        |        |      | 4 IS         | .me<br>.17   |
| Relinquished by: (Signature)   | V                   |                           |   |                                       | Rece       | ived b           | iy: (Si       | ighat        | ure)          | <u> </u>     |          |           |      |          |            |        |        |        |      |              |              |
| Sample Matrix  |                     |                           |   |                                       |            |                  |               |              |               |              |          |           |      |          |            |        |        |        |      | _            |              |
| Solic Solid Sludge   | Aqueous             | Uther L                   | f area.                                     |                                       |            |                  |               |              |               |              |          |           |      |          |            |        |        |        |      |              |              |
| 18.1 18.4 envirotech RB 21200  |                     |                           |   |                                       |            |                  |               |              |               |              |          |           |      |          |            |        |        |        |      |              |              |
| 5795 US Highway 6  | 1)<br>4 • Farmingto | - <b>Ъ</b><br>on, NM 8740 | 1 • 505-632-0615 • T                        | hree Springs • 65 M                   | Aerca      | do Stre          | əet, Sı       | uite 1       | 1 <b>5,</b> D | urang        | jo, C    | O 813     | • 10 | labor    | atory      | @en    | virote | ch-inc | Page | 10 0         | of 10        |

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