

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources

Form C-141  
Revised October 10, 2003

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

Submit 2 Copies to appropriate  
District Office in accordance  
with Rule 116 on back  
side of form

**Release Notification and Corrective Action**

**1RP-341**

**OPERATOR**

Initial Report  Final Report

Name of Company	Plains Marketing, L. P.	Contact	Camille Reynolds
Address	3112 W. US Hwy 82, Lovington, NM 88260	Telephone No.	(505) 441-0965
Facility Name	Saunders 8" # 1 & 3 SRS: 2004-00182	Facility Type	8" Steel Pipeline

Surface Owner	State of New Mexico	Mineral Owner		Lease No.	
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**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
L	24	14S	33E					Lea

Latitude 33° 05', 14.9" North Longitude 103° 34', 31.2"

**NATURE OF RELEASE**

Type of Release	Crude Oil	Volume of Release	60 barrels-1 <sup>st</sup> , 20 barrels-2 <sup>nd</sup>	Volume Recovered	23 barrels-1 <sup>st</sup> , 14 barrels-2 <sup>nd</sup>
Source of Release	8" Steel Pipeline	Date and Hour of Occurrence	30 Jul 04 @ 0630 & 09 Aug 04 0600	Date and Hour of Discovery	30 Jul 04 @ 0915 & 09 Aug 04 @ 0800
Was Immediate Notice Given?	XX Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Paul Sheeley & Larry Johnson		
By Whom?	Camille Reynolds	Date and Hour	30 Jul 04 @ 1530 & 09 Aug 04 @ 1330		
Was a Watercourse Reached?	<input type="checkbox"/> Yes XX <input type="checkbox"/> No	If YES, Volume Impacting the Watercourse			

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\* External corrosion of the 8" steel pipeline. A tie clamp was installed to mitigate the release. The line is an 8 inch steel transmission pipeline that produces approximately 1400 barrels of crude per day. The pressure on the line varies from 25 to 30 psi and the gravity of the sweet crude oil is 38-42. The sweet crude has an H<sub>2</sub>S content of less than 10 ppm.

Describe Area Affected and Cleanup Action Taken.\* Per the approved NMOCD Plains Marketing, L. P., Remediation Work Plan, dated 26 October 2004, the crude oil release site was excavated, the impacted soil mechanically screened, aerated, treated with nutrients, confirmation soil samples collected. Once the confirmation soil samples were below NMOCD regulatory standards, a 40-ml poly-liner was installed; the site was backfilled with the bio-mound material and contoured to the original rangeland topography.

**SEE ATTACHED BASIN ENVIRONMENTAL SERVICE TECHNOLOGIES CLOSURE REQUEST, DATED 02 NOVEMBER 2007, WITH ATTACHMENTS FOR DETAILS OF REMEDIAL ACTIVITIES CONDUCTED.**

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: <i>Camille Reynolds</i>	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Camille Reynolds	Approved by District Supervisor <i>L. Johnson</i>	
Title: Remediation Coordinator	ENVIRONMENTAL ENGINEER	
E-mail Address: cjreynolds@paalp.com	Approval Date: <u>11.8.07</u>	Expiration Date:
Date: 05 November 2007 Phone: (505) 441-0965	Conditions of Approval:	Attached <input type="checkbox"/>

\* Attach Additional Sheets If Necessary

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side of form

**Release Notification and Corrective Action**

**OPERATOR**

Initial Report  Final Report

Name of Company Plains Marketing, LP	Contact Camille Reynolds	
Address 5805 East Hwy. 80, Midland, TX 79706	Telephone No. 505-441-0965	
Facility Name Saunders 8" #1	Facility Type 8" Steel Pipeline	
Surface Owner State Of New Mexico	Mineral Owner	Lease No.

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
L	24	14S	33E					Lea

Latitude 33°05'14.9" Longitude 103°34'31.2"

**NATURE OF RELEASE**

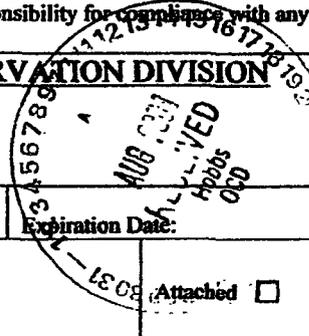
Type of Release Crude Oil	Volume of Release 60 barrels	Volume Recovered 23 barrels
Source of Release 8" Steel Pipeline	Date and Hour of Occurrence 7-30-04 @ 06:30	Date and Hour of Discovery 7-30-04 @ 09:15
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Paul Sheeley	
By Whom? Camille Reynolds	Date and Hour 7-30-04 @ 3:30	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\* External corrosion of the 8" steel pipeline. A line clamp was installed to mitigate the release. The line is an 8 inch steel transmission pipeline that produces approximately 1,400 barrels of crude oil per day. The pressure on the line varies from 25-30 psi and the gravity of the sweet crude oil is 38-42. The sweet crude oil has an H<sub>2</sub>S content of less than 10 ppm.

Describe Area Affected and Cleanup Action Taken.\* The impacted soil was excavated and stockpiled on plastic. Aerial extent of surface impact was 11,854 ft<sup>2</sup>.

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.

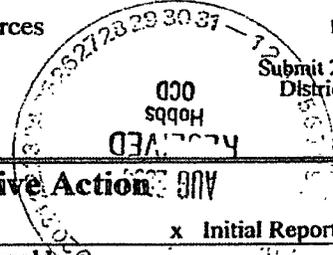
Signature: <i>Camille Reynolds</i>	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Camille Reynolds	Approved by District Supervisor:	
Title: Remediation Coordinator	Approval Date:	
E-mail Address: cireynolds@paalp.com	Conditions of Approval:	Expiration Date:
Date: 8/1/04	Phone: 505-441-0965	Attached <input type="checkbox"/>

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**Release Notification and Corrective Action**

**OPERATOR**  Initial Report  Final Report

Name of Company Plains Marketing, LP	Contact Camille Reynolds
Address 5805 East Hwy. 80, Midland, TX 79706	Telephone No. 505-441-0965
Facility Name Saunders 8" #3	Facility Type 8" Steel Pipeline

Surface Owner State Of New Mexico	Mineral Owner	Lease No.
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**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Fect from the	North/South Line	Feet from the	East/West Line	County
L	24	14S	33E					Lea

Latitude 33°05'14.9" Longitude 103°34'31.2"

**NATURE OF RELEASE**

Type of Release Crude Oil	Volume of Release 20 barrels	Volume Recovered 14barrels
Source of Release 8" Steel Pipeline	Date and Hour of Occurrence 8-9-04 @ 06:00	Date and Hour of Discovery 8-9-04 @ 08:00
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Larry Johnson	
By Whom? Camille Reynolds	Date and Hour 8-9-04 @ 13:15	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\* External corrosion of the 8" steel pipeline. A line clamp was installed to mitigate the release. The line is an 8 inch steel transmission pipeline that produces approximately 1,400 barrels of crude per day. The pressure on the line varies from 25 to 30 psi and the gravity of the sweet crude oil is 38-42. The sweet crude has an H<sub>2</sub>S content of less than 10 ppm

Describe Area Affected and Cleanup Action Taken.\* The impacted soil was excavated and stockpiled on plastic. Aerial extent of surface impact was 2,500 ft<sup>2</sup>.

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.

**OIL CONSERVATION DIVISION**

Signature: <i>Camille Reynolds</i>	Approved by District Supervisor:	
Printed Name: Camille Reynolds	Approval Date:	Expiration Date:
Title: Remediation Coordinator	Conditions of Approval:	
E-mail Address: cjrreynolds@paalp.com	Attached <input type="checkbox"/>	
Date: 8-16-04	Phone: 505-441-0965	

\* Attach Additional Sheets If Necessary

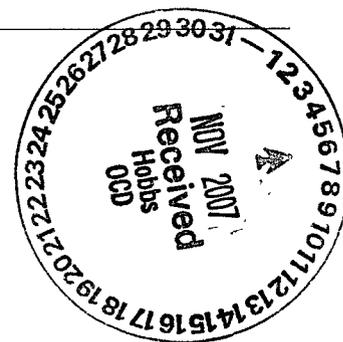
# *Basin Environmental Service Technologies, LLC*

P. O. Box 301  
Lovington, New Mexico 88260  
kdutton@basinenv.com  
Office: (505) 396-2378 Fax: (505) 396-1429



02 November 2007

Mr. Larry Johnson  
New Mexico Oil Conservation Division  
Hobbs District 1  
1625 N. French Drive  
Hobbs, New Mexico 88240



Re: Closure Request, Saunders 8" # 1 & 3 (231735)  
Plains Marketing, L. P. Preliminary Site Investigation Report & General  
Remediation Plan, dated 08 September 2004  
Plains Marketing, L. P. Preliminary Site Investigation Report & Remediation  
Plan, dated 26 October 2004  
Unit L (NW ¼, SW ¼) Section 24, Township 14 South, Range 33 East  
Lea County, New Mexico  
Plains SRS: 2004-00182  
NMSLO Number: ROE-984 (05 August 2004)  
NMOCD File Number: 1RP-341

Dear Mr. Johnson:

Basin Environmental Service Technologies, LLC (Basin), on behalf of Plains Marketing, L. P. (Plains), is submitting this request for closure of the Saunders 8" # 1 & 3 remediation site at the above referenced location. Remediation activities were successfully accomplished as proposed in the New Mexico Oil Conservation Division (NMOCD) and New Mexico State Land Office (NMSLO) approved Preliminary Site Investigation Report and General Remediation Plan, dated 08 September 2004 and Preliminary Site Investigation Report and Remediation Plan, dated 26 October 2004.

Allstate Environmental Services, LLC, responded and clamped the initial pipeline release on 30 July 2004 (Saunders 8" #1), located on the Saunders 8" Pipeline. The impacted soils were excavated and stockpiled on a 6-mil poly-liner adjacent to the site. On 09 August 2004, an additional release (Saunders 8" #3) occurred at the original release point allowing crude oil to be released into the existing excavation before Plains operations personnel contained the release utilizing a pipeline clamp. Basin Environmental Service Technologies, LLC (Basin), at the request of Plains, assumed oversight responsibilities

for the remediation activities at the Saunders 8" Pipeline release in September 2004. As reported on the initial C-141 (Saunders 8" #1), dated 09 August 2004, approximately 60 barrels of crude oil were released and 23 barrels recovered. The subsequent C-141 (Saunders 8" #3), dated 16 August 2004, reported approximately 20 barrels of crude oil were released and 14 barrels recovered. NMOCD ranking criteria for the Saunders 8" 1 & 3 release site had two (2) ranking criteria classifications, the release point excavated area was >20 and the pooling area and unimproved road area was 10-19, which sets the remediation levels for benzene, toluene, ethylbenzene, and xylenes (BTEX), and total petroleum hydrocarbons – gasoline range organics/diesel range organics (TPH-GRO/DRO) at 10 mg/kg for benzene, 50 mg/kg for total BTEX and 100 mg/kg for TPH-GRO/DRO and 10 mg/kg for benzene, 50 mg/kg for total BTEX and 1000 mg/kg for TPH-GRO/DRO, respectively.

The following NMOCD approved remedial activities were accomplished at the Saunders 8" # 1 & 3 pipeline release site:

- In August and September 2004, excavation activities were conducted at the release point, pooling area and unimproved road areas. In September 2004, soil samples were collected from the walls and floor of the crude oil impacted excavation area, pooling area and unimproved road area and field screened to ascertain the levels of Volatile Organic Compounds (VOC) present. Field screening results indicated that elevated VOC concentrations existed and further excavation and vertical and horizontal delineation were warranted.
- In September 2004, four (4) soil borings were installed on the excavation floor, down gradient, up gradient and cross gradient positions to evaluate the horizontal and vertical impact of the crude oil pipeline release utilizing an air rotary drill rig operated by Straub Corporation, Stanton, Texas. Subsurface soil samples were collected at 5 feet intervals, screened with a Photo Ionization Detector (PID), and selected soil samples analyzed for constituent concentrations of BTEX and TPH-GRO/DRO. The four (4) soil borings were installed to a subsurface depth ranging from approximately 70 to 79 feet below ground surface (bgs). Laboratory results indicated crude oil impact to be limited to an area adjacent to the release point at a subsurface depth of approximately 44 feet bgs. (see Table 2, Soil Chemistry, Soil Borings).
- In September 2004, three (3) soil samples were collected from the remediated pooling area and unimproved road area. The soil samples were analyzed for constituent concentrations of BTEX and TPH-GRO/DRO. Laboratory results indicated that constituent concentrations of BTEX were below NMOCD regulatory standards and reported TPH-GRO/DRO concentrations exceeding NMOCD regulatory standards for the three (3) soil samples.
- A proposed Preliminary Site Investigation Report and General Remediation Plan, dated 08 September 2004, was submitted to NMOCD and approved. The

approved plan proposed numerous remedial strategies to be evaluated to determine the most effective and efficient remediation approach to abide with NMOCD regulatory guidelines. In October 2004, after evaluating various remedial strategies, a proposed Preliminary Site Investigation Report and Remediation Plan, dated 26 October 2004, was submitted to NMOCD and subsequently approved. The plan included over excavation of the release point, pooling area and unimproved road area, mechanically screen the excavated soil, construct bio mounds on-site, apply nutrients and aeration to the bio mounds, install a 40-mil poly-liner at the release point at approximately fourteen (14) feet bgs, backfill the site with the mechanically screened caliche rock and screened soil (<1000 mg/kg). As requested by the NMSLO, a Site Restoration Plan was submitted and approved.

- In December 2004, over excavation of the Saunders 8" # 1 & 3 release point, pooling area and unimproved road area was initiated. Mechanical screening of the excavated soil was simultaneously accomplished as the excavated soils were extracted. A total of 28 bio mounds, consisting of approximately 200 cubic yards each, were constructed adjacent to the excavation. Aeration of the bio mounds was initiated as the bio mounds were constructed to enhance the degradation process.
- In November and December 2004, seven (7) confirmation soil samples were collected from the walls and floor of the excavation, pooling area and unimproved road area and analyzed for constituent concentrations of BTEX and TPH-GRO/DRO. Laboratory results indicated that constituent concentrations of BTEX were below NMOCD thresholds with the exception of the excavation floor east soil sample. Laboratory results indicated constituent concentrations of TPH-GRO/DRO were below NMOCD thresholds for four (4) soil samples and reported above NMOCD thresholds for the remaining three (3) soil samples. Laboratory results indicated the south unimproved road area required further excavating. Over excavation of the south unimproved road area was accomplished and a confirmation soil sample was collected in January 2005, which analytical results reported concentrations of BTEX and TPH-GRO/DRO were below NMOCD thresholds.
- In January, April, June, 2005, confirmation soil sampling of the bio mounds was accomplished. The soil samples were field screened with a PID and analyzed for concentrations of BTEX and TPH-GRO/DRO. Based on laboratory analytical results nine (9) bio mounds were below NMOCD thresholds for concentrations of BTEX and TPH-GRO/DRO and nineteen (19) exceeded NMOCD thresholds. Aeration of the bio mounds exceeding NMOCD thresholds was conducted on a monthly basis to continue the attenuation process. In January 2006, confirmation soil samples were collected from the nineteen (19) remaining bio mounds and analyzed for constituent concentrations of BTEX and TPH-GRO/DRO. Laboratory results reported that seven (7) bio mounds were below NMOCD thresholds and the twelve (12) exceeded NMOCD thresholds. In June 2006,

nutrients were re-introduced to the remaining twelve (12) bio mounds. In September 2006, confirmation soil samples were collected from the twelve (12) bio mounds and analyzed for constituent concentrations of BTEX and TPH-GRO/DRO. Laboratory results reported that ten (10) bio mounds were below NMOCD thresholds and two (2) exceeded NMOCD thresholds. The remaining two (2) bio mounds were sampled in March 2007 and laboratory results reported constituent concentrations of BTEX and TPH-GRO/DRO were below NMOCD thresholds.

- In April 2007, installation of the 40-mil poly-liner at the release point and excavation floor was completed with a 6-inch sand layer above and beneath the poly-liner. Backfilling the excavation with the mechanically screened rock and treated bio mound soil was initiated once the poly-liner was installed. Backfilling of the site was completed in June 2007, with the site being contoured to the surrounding pastureland. Reseeding of the site with approved NMSLO grass seed was accomplished and monitoring the growth process and reporting results to NMSLO will be adhered to until the vegetation is established and NMSLO releases Plains.

The remediation activities were completed in accordance with the NMOCD approved Plains Marketing, L. P., Preliminary Site Investigation and Remediation Plan, dated 26 October 2004. Based on the results of the NMOCD approved remediation activities conducted at the Saunders 8" # 1 & 3 release site, Basin, on behalf of Plains, requests that the NMOCD consider this site as eligible for closure under the *New Mexico Oil Conservation Division Guidelines for Remediation of Leaks, Spills and Releases (1993)*.

Should you have any questions or comments, please contact me at (505) 441-2124.

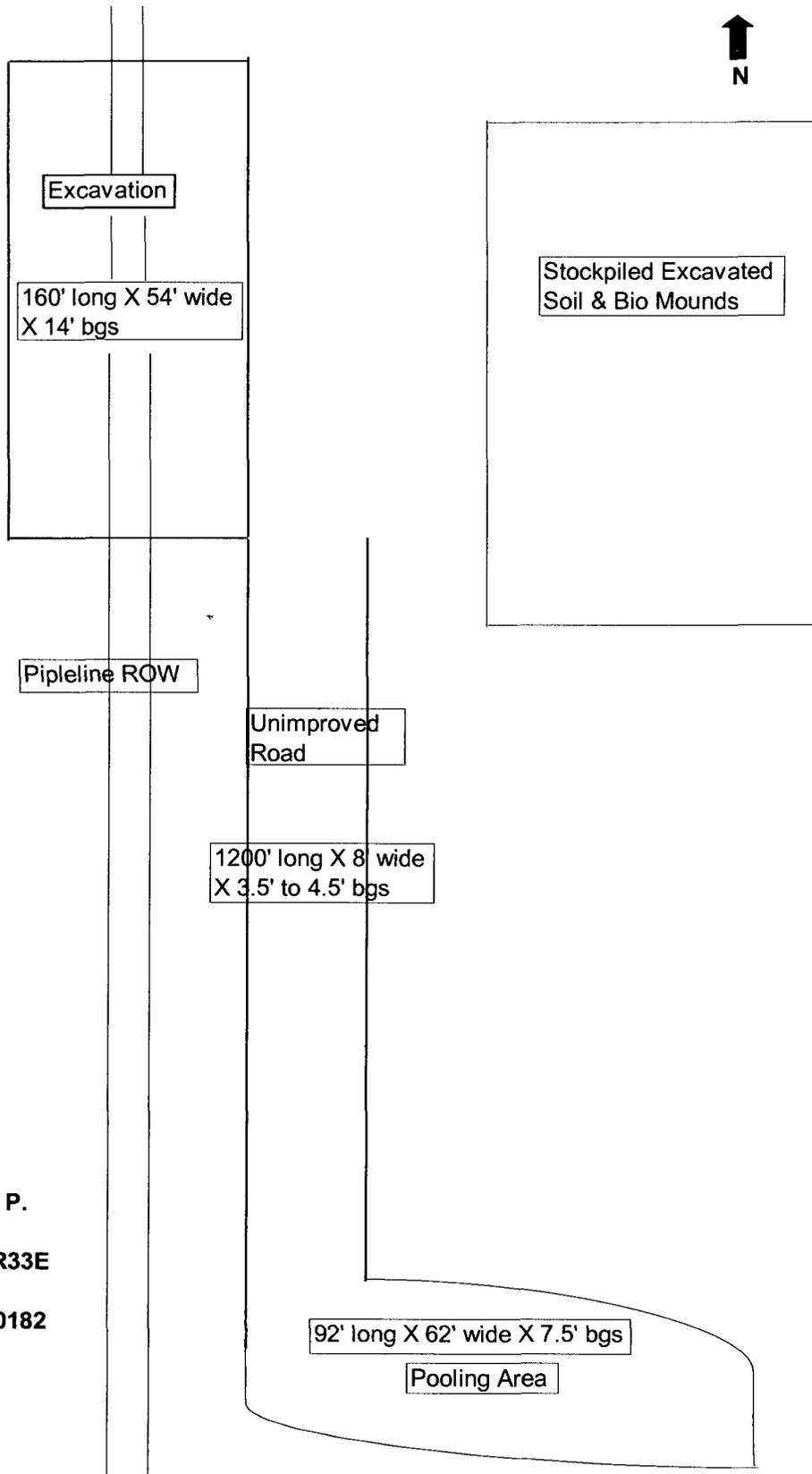
Sincerely,



Ken Dutton  
Basin Environmental Services

Attachments: Site Map  
Table 1, Soil Chemistry Results, Soil Borings  
Table 2, Soil Chemistry Results, Pooling Area, Unimproved Road  
Table 3, Soil Chemistry Results, Excavated Area  
Table 4, Soil Chemistry Results, Bio-Mounds  
Digital Photos  
NMOCD C-141 (Initial)  
NMOCD C-141 (Final)

cc: Mr. Thaddeus Kostrubala (NMSLO, Santa, Fe, NM)



Plains Marketing, L. P.  
Saunders 8" # 1 & 3  
NW/SW S24, T14S, R33E  
Lea County, NM  
Plains SRS: 2004-00182

TABLE 1

SOIL CHEMISTRY RESULTS, SOIL BORINGS

PLAINS MARKETING L.P.  
 SAUNDERS 8" # 1 & 3  
 LEA COUNTY, NEW MEXICO  
 SRS: 2004-00182

SAMPLE LOCATION	SAMPLE DEPTH	SAMPLE DATE	SOIL STATUS	METHOD: EPA SW 846-8021B, 5030					METHOD: 8015M		TOTAL
				BENZENE	TOLUENE	ETHYL-BENZENE	M,P-XYLENES	O-XYLENE	GRO	DRO	TPH
				(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
SB-1*	10' (24')	09/14/04	In-Situ	0.316	5.12	3.36	14.8	7.56	2210	7210	9420
SB-1*	20' (34')	09/14/04	In-Situ	0.338	5.18	4.97	16.4	8.54	3050	8690	11700
SB-1*	30' (44')	09/14/04	In-Situ	0.135	2.60	2.95	10.9	5.47	2170	7370	9540
SB-1*	40' (54')	09/14/04	In-Situ	<0.025	<0.025	<0.025	<0.025	<0.025	<10	815	815
SB-1*	50' (64')	09/14/04	In-Situ	<0.025	<0.025	<0.025	0.050	<0.025	19.7	250	270
SB-1*	65' (79')	09/14/04	In-Situ	<0.025	<0.025	<0.025	<0.025	<0.025	<10	19.1	19.1
SB-2	5'	09/14/04	In-Situ	<0.025	<0.025	<0.025	<0.025	<0.025	<10	<10	<10
SB-2	15'	09/14/04	In-Situ	<0.025	<0.025	<0.025	<0.025	<0.025	<10	<10	<10
SB-2	45'	09/14/04	In-Situ	<0.025	<0.025	<0.025	<0.025	<0.025	<10	<10	<10
SB-2	70'	09/14/04	In-Situ	<0.025	<0.025	<0.025	<0.025	<0.025	<10	<10	<10
SB-3	5'	09/14/04	In-Situ	<0.025	<0.025	<0.025	<0.025	<0.025	<10	<10	<10
SB-3	15'	09/14/04	In-Situ	<0.025	<0.025	<0.025	<0.025	<0.025	<10	<10	<10
SB-3	45'	09/14/04	In-Situ	<0.025	<0.025	<0.025	<0.025	<0.025	<10	<10	<10
SB-3	70'	09/14/04	In-Situ	<0.025	<0.025	<0.025	<0.025	<0.025	<10	<10	<10
SB-4	5'	09/14/04	In-Situ	<0.025	<0.025	<0.025	<0.025	<0.025	<10	<10	<10
SB-4	15'	09/14/04	In-Situ	<0.025	<0.025	<0.025	<0.025	<0.025	<10	<10	<10
SB-4	45'	09/14/04	In-Situ	<0.025	<0.025	<0.025	<0.025	<0.025	<10	<10	<10
SB-4	70'	09/14/04	In-Situ	<0.025	<0.025	<0.025	<0.025	<0.025	<10	<10	<10

NOTE: \* Soil Boring was installed on excavation floor, 14' bgs, bold number indicates true bgs from surface

**TABLE 2**

**SOIL CHEMISTRY RESULTS, POOLING AREA, UNIMPROVED ROAD**

**PLAINS MARKETING L.P.  
SAUNDERS 8" # 1 & 3  
LEA COUNTY, NEW MEXICO  
SRS: 2004-00182**

SAMPLE LOCATION	SAMPLE DEPTH	SAMPLE DATE	SOIL STATUS	METHOD: EPA SW 846-8021B, 5030					METHOD: 8015M		TOTAL
				BENZENE	TOLUENE	ETHYL-BENZENE	M,P-XYLENES	O-XYLENE	GRO	DRO	TPH
				(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Pooling Area	6.5'	09/15/04	In-Situ	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	137	1920	2060
North Unimproved Road	2.5'	09/15/04	In-Situ	<0.0250	<0.0250	<0.0250	0.073	0.0534	198	7360	7560
South Unimproved Road	2.5'	09/15/04	In-Situ	<0.0250	0.03	0.0438	0.162	0.0936	90.7	3980	4070
Pooling Area	7.5'	12/21/04	In-Situ	<0.0250	<0.0250	0.0255	0.0659	0.0327	31.1	160	191
North Unimproved Road	3.5'	12/21/04	In-Situ	0.196	1.21	0.871	4.62	2.71	174	629	803
South Unimproved Road	3.5'	12/21/04	In-Situ	<0.0250	0.0770	0.175	0.957	0.736	288	980	1270
South Unimproved Road	4.5'	01/26/05	In-Situ	<0.0250	<0.0250	<0.0250	0.0311	<0.0250	<10.0	<10.0	<10.0



TABLE 4

## SOIL CHEMISTRY RESULTS, BIO-MOUNDS

PLAINS MARKETING L.P.  
SAUNDERS 8" # 1 & 3  
LEA COUNTY, NEW MEXICO  
SRS: 2004-00182

SAMPLE LOCATION	SAMPLE DEPTH	SAMPLE DATE	SOIL STATUS	METHOD: EPA SW 846-8021B, 5030					METHOD: 8015M		TOTAL TPH (mg/kg)
				BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL- BENZENE (mg/kg)	M,P- XYLENES (mg/kg)	O-XYLENE (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	
Bio-Mound # 2	42"	01/26/05	biomound	0.244	1.41	0.509	3.03	1.21	933	1420	2350
Bio-Mound # 1	42"	01/26/05	biomound	0.438	2.19	0.470	3.31	0.525	1690	2000	3690
Bio-Mound # 8	42"	01/26/05	biomound	0.357	5.65	1.46	5.86	8.90	1290	1970	3260
Bio-Mound # 7	42"	01/26/05	biomound	0.328	6.31	3.72	10.7	12.2	1450	2170	3620
Bio-Mound # 9	42"	01/26/05	biomound	2.41	39.70	13.9	93.6	44.4	4520	6020	10500
Bio-Mound # 3	42"	01/26/05	biomound	0.178	0.715	0.339	2.04	0.546	772	1350	2120
Bio-Mound # 4	42"	01/26/05	biomound	<0.025	0.206	0.290	1.23	0.313	327	1060	1390
Bio-Mound # 6	42"	01/26/05	biomound	0.282	1.320	0.349	2.53	5.21	889	1600	2490
Bio-Mound # 5	42"	01/26/05	biomound	0.041	0.482	0.266	1.92	0.674	318	607	925
Bio-Mound #9	42"	04/26/05	biomound	0.051	0.596	0.462	3.57	1.87	779	1840	2620
Bio-Mound #10	42"	04/26/05	biomound	0.679	0.148	0.231	0.936	0.331	1040	3690	4730
Bio-Mound # 7	42"	04/26/05	biomound	<0.025	0.078	0.122	0.879	0.282	825	2530	3360
Bio-Mound # 8	42"	04/26/05	biomound	<0.025	0.106	0.163	0.490	0.201	704	2150	2850
Bio-Mound # 1	42"	04/26/05	biomound	<0.025	0.128	0.112	0.735	0.159	682	2240	2920
Bio-Mound # 2	42"	04/26/05	biomound	<0.025	<0.025	0.109	0.466	0.203	462	1600	2060
Bio-Mound # 16	42"	04/26/05	biomound	<0.025	<0.025	0.052	0.135	0.041	369	2490	2860
Bio-Mound # 15	42"	04/26/05	biomound	<0.025	<0.025	0.036	0.066	<0.025	434	2250	2680
Bio-Mound # 18	42"	04/26/05	biomound	<0.025	<0.025	<0.025	<0.025	<0.025	67.9	738	806
Bio-Mound # 17	42"	04/26/05	biomound	<0.025	<0.025	0.033	0.082	<0.025	183	1570	1750
Bio-Mound # 24	42"	04/26/05	biomound	<0.025	<0.025	<0.025	0.090	0.025	89.4	729	818
Bio-Mound # 23	42"	04/26/05	biomound	<0.025	<0.025	<0.025	<0.025	<0.025	141	785	926
Bio-Mound # 27	42"	04/26/05	biomound	<0.025	<0.025	<0.025	0.272	<0.025	196	1440	1640

TABLE 4 (cont)

SOIL CHEMISTRY RESULTS, BIO-MOUNDS

PLAINS MARKETING L.P.  
 SAUNDERS 8" # 1 & 3  
 LEA COUNTY, NEW MEXICO  
 SRS: 2004-00182

SAMPLE LOCATION	SAMPLE DEPTH	SAMPLE DATE	SOIL STATUS	METHOD: EPA SW 846-8021B, 5030					METHOD: 8015M		TOTAL TPH (mg/kg)
				BENZENE	TOLUENE	ETHYL-BENZENE	M,P-XYLENES	O-XYLENE	GRO	DRO	
				(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
Bio-Mound # 28	42"	04/26/05	biomound	<0.025	<0.025	0.586	0.669	0.036	224	1590	1810
Bio-Mound # 11	42"	04/26/05	biomound	<0.025	0.088	0.221	1.09	0.380	1030	3590	4620
Bio-Mound # 12	42"	04/26/05	biomound	<0.025	0.030	0.072	0.308	0.102	488	2420	2910
Bio-Mound # 5	42"	04/26/05	biomound	<0.025	<0.025	0.025	0.523	0.026	306	1700	2010
Bio-Mound # 6	42"	04/26/05	biomound	<0.025	0.034	0.060	0.122	0.105	235	1480	1720
Bio-Mound # 4	42"	04/26/05	biomound	<0.025	<0.025	0.365	0.092	0.383	204	1580	1780
Bio-Mound # 3	42"	04/26/05	biomound	<0.025	<0.025	0.122	0.301	0.160	275	1560	1840
Bio-Mound # 14	42"	04/26/05	biomound	<0.025	<0.025	0.052	0.911	<0.025	151	1370	1520
Bio-Mound # 13	42"	04/26/05	biomound	<0.025	<0.025	0.064	0.308	0.087	442	2280	2720
Bio-Mound # 20	42"	04/26/05	biomound	<0.025	<0.025	<0.025	<0.025	<0.025	85.1	894	979
Bio-Mound # 19	42"	04/26/05	biomound	<0.025	<0.025	<0.025	<0.025	<0.025	109	1150	1260
Bio-Mound # 22	42"	04/26/05	biomound	<0.025	<0.025	<0.025	<0.025	<0.025	92.5	1000	1090
Bio-Mound # 21	42"	04/26/05	biomound	<0.025	<0.025	0.025	0.105	<0.025	107	944	1050
Bio-Mound # 26	42"	04/26/05	biomound	<0.025	<0.025	<0.025	0.095	<0.025	187	1270	1460
Bio-Mound # 25	42"	04/26/05	biomound	<0.025	<0.025	0.035	0.103	0.046	257	1520	1780
Bio-Mound # 1	42"	06/21/05	biomound	<0.025	<0.025	0.106	0.294	0.063	462	2960	3420
Bio-Mound # 2	42"	06/21/05	biomound	<0.025	0.025	0.103	0.324	0.062	144	903	1050
Bio-Mound # 14	42"	06/21/05	biomound	<0.025	<0.025	<0.025	<0.025	<0.025	59.9	847	907
Bio-Mound # 13	42"	06/21/05	biomound	<0.025	<0.025	0.031	0.109	0.030	177	1840	2020
Bio-Mound # 19	42"	06/21/05	biomound	<0.025	<0.025	<0.025	<0.025	<0.025	39.7	1660	1700
Bio-Mound # 22	42"	06/21/05	biomound	<0.025	<0.025	<0.025	<0.025	<0.025	26.5	758	784
Bio-Mound # 21	42"	06/21/05	biomound	<0.025	<0.025	<0.025	0.040	<0.025	58.1	1270	1330

TABLE 4 (cont)

## SOIL CHEMISTRY RESULTS, BIO-MOUNDS

PLAINS MARKETING L.P.  
SAUNDERS 8" # 1 & 3  
LEA COUNTY, NEW MEXICO  
SRS: 2004-00182

SAMPLE LOCATION	SAMPLE DEPTH	SAMPLE DATE	SOIL STATUS	METHOD: EPA SW 846-8021B, 5030					METHOD: 8015M		TOTAL TPH (mg/kg)
				BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL- BENZENE (mg/kg)	M,P- XYLENES (mg/kg)	O-XYLENE (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	
Bio-Mound # 26	42"	06/21/05	biomound	<0.025	<0.025	<0.025	<0.025	<0.025	36.0	687	723
Bio-Mound # 25	42"	06/21/05	biomound	<0.025	<0.025	<0.025	<0.025	<0.025	40.4	502	542
Bio-Mound # 28	42"	06/21/05	biomound	<0.025	<0.025	<0.025	<0.025	<0.025	58.3	1350	1410
Bio-Mound # 11	42"	06/21/05	biomound	<0.025	0.027	0.139	0.239	0.395	246	1480	1730
Bio-Mound # 12	42"	06/21/05	biomound	<0.025	0.025	0.044	0.053	<0.025	289	2520	2810
Bio-Mound # 5	42"	06/21/05	biomound	<0.025	<0.025	0.102	0.189	0.053	88.5	702	791
Bio-Mound # 6	42"	06/21/05	biomound	0.036	0.251	0.129	0.947	0.150	357	1240	1600
Bio-Mound # 4	42"	06/21/05	biomound	<0.025	<0.025	<0.025	<0.025	<0.025	170	1170	1340
Bio-Mound # 3	42"	06/21/05	biomound	<0.025	<0.025	0.052	0.041	<0.025	147	873	1020
Bio-Mound # 9	42"	06/21/05	biomound	<0.025	0.045	0.099	0.349	0.062	725	3280	4000
Bio-Mound # 10	42"	06/21/05	biomound	<0.025	0.036	0.056	0.248	<0.025	520	3630	4150
Bio-Mound # 7	42"	06/21/05	biomound	<0.025	<0.025	0.074	0.225	0.093	309	3250	3560
Bio-Mound # 8	42"	06/21/05	biomound	<0.025	0.056	0.060	0.128	0.072	161	1480	1640
Bio-Mound # 27	42"	06/21/05	biomound	<0.025	<0.025	<0.025	<0.025	<0.025	84.2	2120	2200
Bio-Mound # 17	42"	06/21/05	biomound	<0.025	<0.025	0.045	0.107	0.054	53.7	1210	1260
Bio-Mound # 15	42"	06/21/05	biomound	<0.025	<0.025	<0.025	<0.025	<0.025	138	2520	2660
Bio-Mound # 16	42"	06/21/05	biomound	<0.025	<0.025	<0.025	<0.025	<0.025	147	2980	3130
Bio-Mound # 3	42"	01/10/06	biomound	<0.025	<0.025	<0.025	<0.025	<0.025	33.8	702	736
Bio-Mound # 4	42"	01/10/06	biomound	<0.025	<0.025	<0.025	<0.025	<0.025	17.7	552	570
Bio-Mound # 6	42"	01/10/06	biomound	<0.025	<0.025	<0.025	<0.025	<0.025	31.0	1130	1160
Bio-Mound # 12	42"	01/10/06	biomound	<0.025	<0.025	<0.025	<0.025	<0.025	28.9	1290	1320
Bio-Mound # 11	42"	01/10/06	biomound	<0.025	<0.025	<0.025	<0.025	<0.025	130	3260	3390

TABLE 4 (cont)

## SOIL CHEMISTRY RESULTS, BIO-MOUNDS

PLAINS MARKETING L.P.  
 SAUNDERS 8" # 1 & 3  
 LEA COUNTY, NEW MEXICO  
 SRS: 2004-00182

SAMPLE LOCATION	SAMPLE DEPTH	SAMPLE DATE	SOIL STATUS	METHOD: EPA SW 846-8021B, 5030					METHOD: 8015M		TOTAL TPH (mg/kg)
				BENZENE	TOLUENE	ETHYL- BENZENE	M,P- XYLENES	O-XYLENE	GRO	DRO	
				(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
Bio-Mound # 13	42"	01/10/06	biomound	<0.025	<0.025	<0.025	<0.025	<0.025	35.3	964	999
Bio-Mound # 19	42"	01/10/06	biomound	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	574	574
Bio-Mound # 21	42"	01/10/06	biomound	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	306	306
Bio-Mound # 28	42"	01/11/06	biomound	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	1620	1620
Bio-Mound # 27	42"	01/11/06	biomound	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	1810	1810
Bio-Mound # 17	42"	01/11/06	biomound	<0.025	<0.025	<0.025	<0.025	<0.025	14.7	1790	1800
Bio-Mound # 15	42"	01/11/06	biomound	<0.025	<0.025	<0.025	<0.025	<0.025	115	2990	3100
Bio-Mound # 16	42"	01/11/06	biomound	<0.025	<0.025	<0.025	<0.025	<0.025	22.4	1950	1970
Bio-Mound # 9	42"	01/11/06	biomound	<0.025	<0.025	0.054	0.141	0.049	423	6460	6880
Bio-Mound # 10	42"	01/11/06	biomound	<0.025	<0.025	<0.025	0.026	<0.025	208	3640	3850
Bio-Mound # 7	42"	01/11/06	biomound	<0.025	<0.025	<0.025	<0.025	<0.025	103	1590	1690
Bio-Mound # 8	42"	01/11/06	biomound	<0.025	<0.025	<0.025	<0.025	<0.025	93.2	2220	2310
Bio-Mound # 1	42"	01/11/06	biomound	<0.025	0.033	0.032	0.061	<0.025	48.1	949	997
Bio-Mound # 2	42"	01/11/06	biomound	<0.025	<0.025	<0.025	<0.025	<0.025	44.7	876	920
Bio-Mound # 8	42"	09/21/06	biomound	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	151	151
Bio-Mound # 7	42"	09/21/06	biomound	<0.025	<0.025	<0.025	<0.025	<0.025	43	569	612
Bio-Mound # 10	42"	09/21/06	biomound	<0.025	<0.025	<0.025	<0.025	<0.025	204	3582	3790
Bio-Mound # 9	42"	09/21/06	biomound	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	140	140
Bio-Mound # 16	42"	09/21/06	biomound	<0.025	<0.025	<0.025	<0.025	<0.025	35	1854	1890
Bio-Mound # 15	42"	09/21/06	biomound	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	298	298
Bio-Mound # 17	42"	09/21/06	biomound	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	150	150

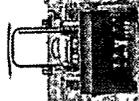


**Plains Marketing, L. P.  
Saunders 8" # 1&3  
NW/SW, S24, T14S, R33E  
Lea County, NM  
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07/16/2007

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