

Denny S. Faust
 DEPUTY OIL & GAS INSPECTOR

JICARILLA APACHE TRIBE

SUBMIT 1 COPY TO
 NATURAL
 RESOURCE DEPT
 AND OIL GAS
 ADMINISTRATION

FEB 26 1998

ENVIRONMENTAL PROTECTION OFFICE

P.O. BOX 507
 DULCE, NEW MEXICO 87528

Approved

PIT REMEDIATION AND CLOSURE REPORT

Operator: PNM Gas Services (BROG) Telephone: 324-3764
 Address: 603 W. Elm Street Farmington, NM 87401
 Facility or Well Name: Jicarilla 103-9
 Location: Unit: A Sec. 17 T. 26 N R. 4 W County Rio Arriba
 Pit Type: Separator Dehydrator Other
 Land Type: Jicarilla Apache

Pit Location: Pit dimensions: length 26' width 14' depth 5'
 (Attach diagram) Reference: wellhead other
 Footage from reference: 99'
 Direction from reference: 60 Degrees East North
 West South

Depth to Ground Water: <small>(Vertical distance from contaminants to seasonal high water elevation of ground water)</small>	Less than 50 feet	(20 points)	<u>0</u>
	50 feet to 99 feet	(10 points)	<u>0</u>
	Greater than 100 feet	(0 points)	<u>0</u>
Wellhead Protection Area: <small>(Less than 200 feet from a private domestic water source, or less than 1,000 feet from all other water sources)</small>	Yes	(20 points)	<u>0</u>
	No	(0 points)	<u>0</u>
Distance to Surface Water: <small>(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)</small>	Less than 200 feet	(20 points)	<u>0</u>
	200 feet to 1,000 feet	(10 points)	<u>0</u>
	Greater than 1,000 feet	(0 points)	<u>0</u>
Distance to Ephemeral Stream (dry wash): <small>(Horizontal distance to all downgradient streams having a width of at least 10 feet)</small>	Less than or equal to 100 feet	(10 points)	<u>10</u>
	Greater than 100 feet	(0 points)	<u>0</u>
Distance to Nearest Lake, Playa, or Watering Pond: <small>(Horizontal distance to all downgradient lakes, playas, and livestock or wildlife water ponds)</small>	Less than or equal to 100 feet	(10 points)	<u>0</u>
	Greater than 100 feet	(0 points)	<u>0</u>
RANKING SCORE (TOTAL POINTS):			<u>10</u>

RECEIVED
 NOV - 3 1997
 OIL CON. DIV.
 DIST. 3

Date Remediation Started: 7/7/97 Date Completed: 8/27/97

Remediation Method: Excavation X Approx. Cubic Yards 77

(Check all appropriate sections) Landfarmed X Amount Landfarmed (cubic yds): 77

Other _____

Remediation Location: Onsite X Offsite _____

(i.e., landfarmed onsite, name and location of offsite facility)

General Description of Remedial Action:

Removed contaminated soil from all four side walls as to get it below 100 ppm head space reading. Bottom is rock.

Ground Water Encountered: No X Yes _____ Depth _____

Final Pit Closure Sampling:

(if multiple samples, attach sample result and diagram of sample locations and depths.)

Sample Location North, East, South, and west side walls

Sample depth 4'

Sample date 7/7/97 Sample time 1.5.15

Sample Results

Soil: Benzene (ppm) ND Water: Benzene (ppb) _____

Total BTEX (ppm) ND Toluene (ppb) _____

Field headspace (ppm) 21.8 Ethylbenzene (ppb) _____

TPH ND ppm Method 8015 Total Xylenes (ppb) _____

Ground Water Sample: Yes _____ No X (If yes, attach sample results)

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND MY BELIEF

DATE 7/17/97 PRINTED NAME Ronald A. Dedrick

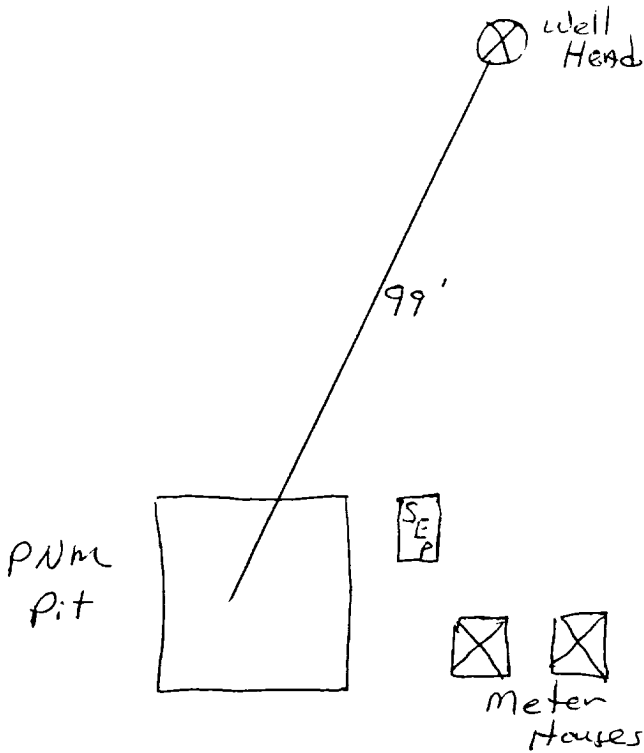
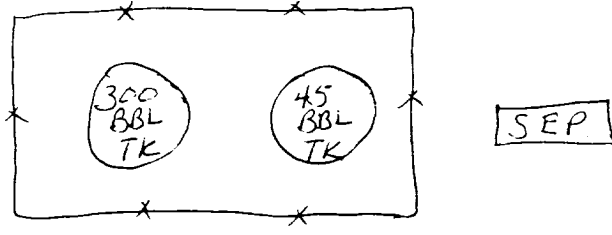
SIGNATURE Ronald A. Dedrick AND TITLE Environmental Technician II

AFTER REVIEW OF THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE TO JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.

APPROVED: YES X NO _____ (REASON): spray & close

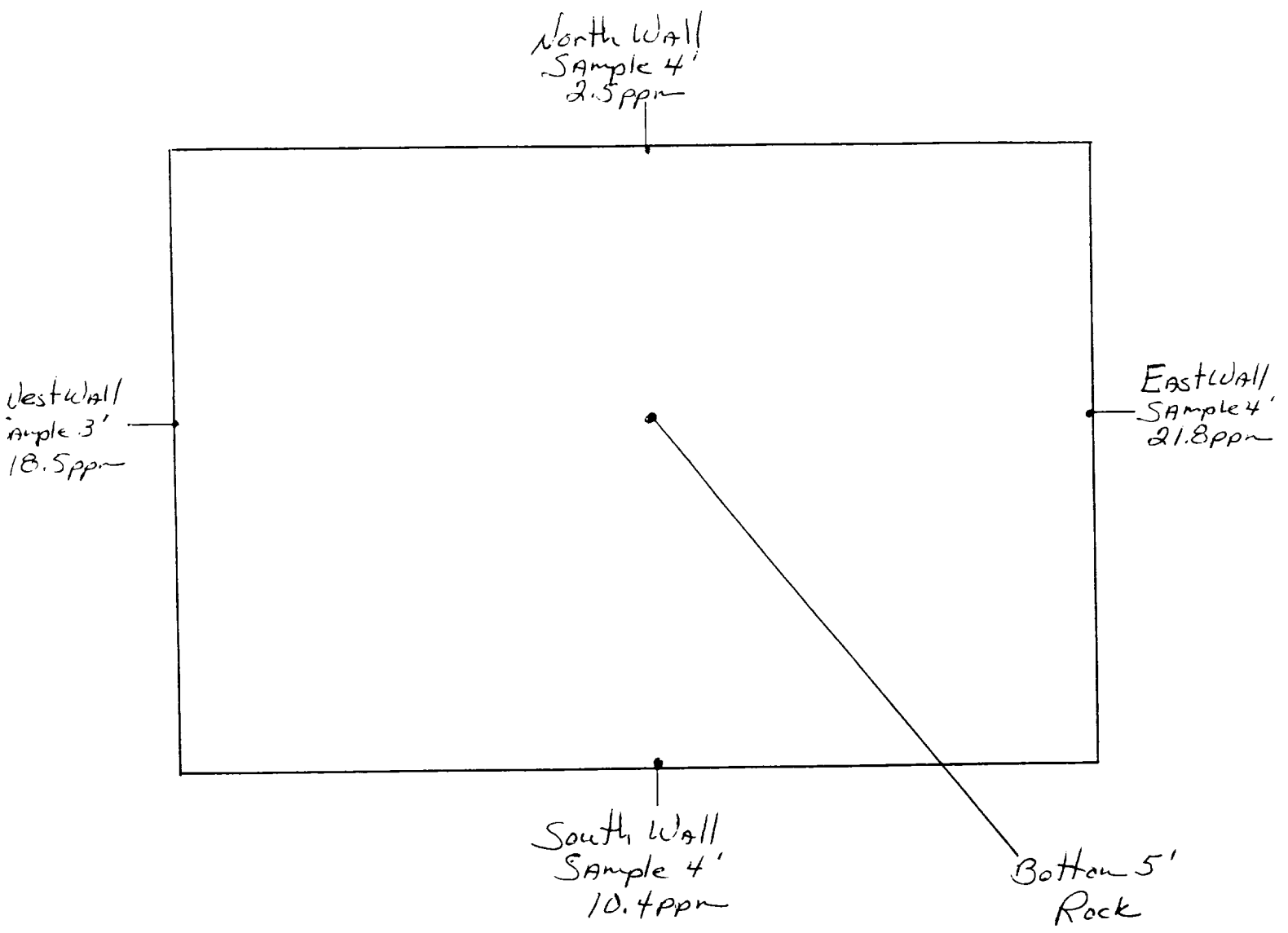
SIGNED: Keri C. Merrill DATE: 7-22-97

Jicarilla 103-9
Sec 17 T26N R4W Unit A
BROG



Jicarilla 103-9
Sec. 17 T26N R4W Unit A
BROG

26' x 16' x 5'



OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn: *Denver Bearden*
 Company: *PNM Gas Services*
 Address: *603 W. Elm*
 City, State: *Farmington, NM 87401*

Date: *17-Jul-97*
 COC No.: *5522*
 Sample No.: *15289*
 Job No.: *2-1000*

Project Name: ***PNM Gas Services - Jicarilla Apache 103-9***
 Project Location: ***9707071515; 4pt. Composite***
 Sampled by: SA Date: *7-Jul-97* Time: *15:15*
 Analyzed by: DC/HR Date: *15-Jul-97*
 Sample Matrix: *Soil*

Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Diesel Range Organics (C10 - C28)</i>	ND	mg/kg	5	mg/kg

ND - Not Detected at Limit of Quantitation

Quality Assurance Report

DRO QC No.: 0548-STD

Continuing Calibration Verification

Parameter	Method Blank	Unit of Measure	True Value	Analyzed Value	RPD	RPD Limit
<i>Diesel Range (C10 - C28)</i>	ND	ppm	200	182	9.5	15%

Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	83	87	(70-130)	5	20%

Method - SW-846 EPA Method 8015A mod. - Nonhalogenated Volatile Hydrocarbons by Gas Chromatography

Approved by: *Jag*
 Date: *7/17/97*

P.O. BOX 2606 • FARMINGTON, NM 87499

OFF: (505) 325-5667



LAB: (505) 325-1556

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Date: *17-Jul-97*
 COC No.: *5522*
 Sample No.: *15289*
 Job No.: *2-1000*

Project Name: ***PNM Gas Services - Jicarilla 103-9***
 Project Location: ***9707071515; 4pt. Composite***
 Sampled by: SA Date: *7-Jul-97* Time: *15:15*
 Analyzed by: DC Date: *16-Jul-97*
 Sample Matrix: *Soil*

Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Benzene</i>	ND	ug/kg	1	ug/kg
<i>Toluene</i>	ND	ug/kg	1	ug/kg
<i>Ethylbenzene</i>	ND	ug/kg	1	ug/kg
<i>m,p-Xylene</i>	ND	ug/kg	1	ug/kg
<i>o-Xylene</i>	ND	ug/kg	1	ug/kg
	<i>TOTAL</i>	ND		ug/kg

ND - Not Detected at Limit of Quantitation

Method - SW-846 EPA Method 8020A Aromatic Volatile Organics by Gas Chromatography

Approved by: *[Signature]*
 Date: *7/17/97*

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Technology: Precision Analytical with the Environment

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ENVIRONMENTAL
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DULCE, NEW MEXICO 87528

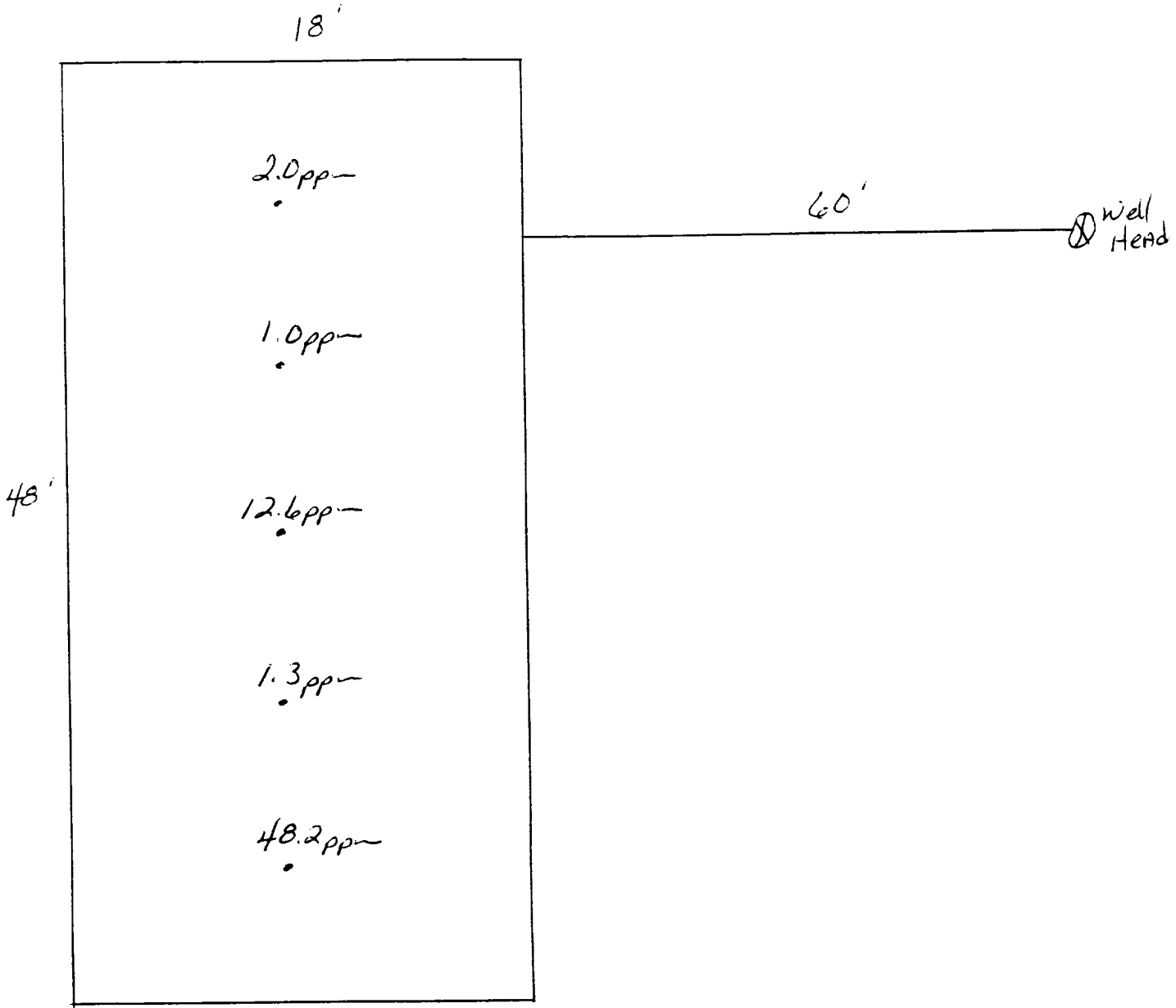
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RESOURCE DEPT
AND OIL GAS
ADMINISTRATION

ON-SITE SOIL REMEDIATION REPORT

Operator: PNM Gas Services (<u>BROG</u>) Telephone: <u>324-3764</u>	
Address: <u>603 W. Elm Street Farmington, NM 87401</u>	
Facility or Well Name: <u>Jicarilla 10.3-9</u>	
Location: Unit: <u>A</u> Sec. <u>17</u> T. <u>26</u> N R. <u>4</u> W County <u>Rio Arriba</u>	
Land Type: <u>Jicarilla Apache</u>	
Date Remediation Started: <u>7/7/97</u>	Date Completed: _____
Remediation Method: Landfarmed <input checked="" type="checkbox"/>	Approx. cubic yards <u>77</u>
Composted _____	
Other _____	
Depth to Ground Water: (pts.) <u>0</u>	Final Closure Sampling: Sampling Date: <u>7/31/97</u> Time <u>0907</u> Sampling Results: Field Headspace (ppm) <u>48.2</u> TPH (ppm) <u>ND</u> Method <u>8015</u> Other _____
Distance to an Ephemeral Stream: (pts.) <u>10</u>	
Distance to Nearest Lake, Playa, or Watering Pond: (pts.) <u>0</u>	
Wellhead Protection Area: (pts.) <u>0</u>	
Distance to Surface Water: (pts.) <u>0</u>	
Ranking Score (Total Points): <u>10</u>	
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF	
DATE <u>8/7/97</u>	PRINTED NAME <u>Ronald A. Dedrick</u>
SIGNATURE <u>Ronald A. Dedrick</u>	AND TITLE <u>Environmental Technician II</u>
AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION, ON-SITE REMEDIATION APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE	
APPROVED: YES <input checked="" type="checkbox"/> NO _____ (REASON) <u>use as Backfill</u>	
SIGNED: <u>Kear C. Marshall</u>	DATE: <u>8-12-97</u>

Jicarilla 103-9
Sec. 17 T26N R4W Unit A
BROG

Land farm



OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn: *Denver Bearden*
 Company: *PNM Gas Services*
 Address: *603 W. Elm*
 City, State: *Farmington, NM 87401*

Date: *5-Aug-97*
 COC No.: *5531*
 Sample No.: *15541*
 Job No.: *2-1000*

Project Name: *PNM Gas Services - Jicarilla 103-9 Landfarm*
 Project Location: *9707310907; 5pt. Composite*
 Sampled by: *RB* Date: *31-Jul-97* Time: *9:07*
 Analyzed by: *HR/DC* Date: *1-Aug-97*
 Sample Matrix: *Soil*

Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Diesel Range Organics (C10 - C28)</i>	ND	mg/kg	5	mg/kg

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DRO QC No.: 0548-STD

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Approved by: *[Signature]*
 Date: *8/5/97*

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -