



Environmental Services Group
Southern Region

Federal R #2 *P-15-27W-OSW*
Meter Code 94925

Pit was excavated to 12 feet beneath ground surface. Headspace soil readings from excavation bottom were 502 parts per million. Soil analytical were as follows; benzene - <3 mg/kg, total BTEX - 310 mg/kg, TPH - 4,310 mg/kg.

One soil boring was completed and a monitoring well installed. Groundwater was encountered at 30.4 feet. Initial groundwater analytical were as follows; benzene - 3.2 ug/L, toluene - 3.4 ug/L, ethylbenzene - 1.4 ug/L, xylenes - 19.8 ug/l. Second groundwater analytical were as follows; benzene - 3 ug/L, toluene - < 1 ug/L, ethylbenzene - 4.5 ug/L, xylene - 38.6 ug/l.

George J. Trout
DEPUTY OIL & GAS INSPECTOR

FEB 0 '6 97

Approved



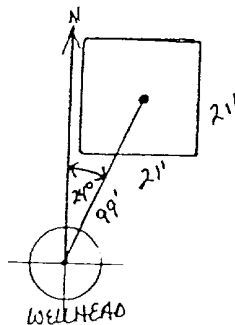
FIELD PIT SITE ASSESSMENT FORM

GENERAL	Meter: <u>94925</u> Location: <u>FEDERAL R #2</u> Operator #: _____ Operator Name: <u>BEASOE PETER CORP.</u> P/L District: <u>BLANCO</u> Coordinates: Letter: <u>P</u> Section <u>15</u> Township: <u>27</u> Range: <u>8</u> Or Latitude _____ Longitude _____ Pit Type: Dehydrator _____ Location Drip: <u>X</u> Line Drip: _____ Other: _____ Site Assessment Date: <u>1-10-95</u> Area: <u>13</u> Run: <u>31</u>																
SITE ASSESSMENT	NMOCD Zone: (From NMOCD Maps) Land Type: <table border="0"> <tr> <td>Inside</td> <td>☒ (1)</td> <td>BLM</td> <td>☐ (1)</td> </tr> <tr> <td>Outside</td> <td>☐ (2)</td> <td>State</td> <td>☐ (2)</td> </tr> <tr> <td></td> <td></td> <td>Fee</td> <td>☒ (3)</td> </tr> <tr> <td></td> <td></td> <td>Indian</td> <td>_____</td> </tr> </table> Depth to Groundwater Less Than 50 Feet (20 points) ☒ (1) 50 Ft to 99 Ft (10 points) ☐ (2) Greater Than 100 Ft (0 points) ☐ (3) Wellhead Protection Area : Is it less than 1000 ft from wells, springs, or other sources of fresh water extraction? , or ; Is it less than 200 ft from a private domestic water source? ☐ (1) YES (20 points) ☒ (2) NO (0 points) Horizontal Distance to Surface Water Body Less Than 200 Ft (20 points) ☐ (1) 200 Ft to 1000 Ft (10 points) ☒ (2) Greater Than 1000 Ft (0 points) ☐ (3) Name of Surface Water Body <u>CANON LARGO</u> (Surface Water Body : Perennial Rivers, Major Wash, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds) Distance to Nearest Ephemeral Stream ☐ (1) < 100' (Navajo Pits Only) ☐ (2) > 100' TOTAL HAZARD RANKING SCORE: <u>30</u> POINTS	Inside	☒ (1)	BLM	☐ (1)	Outside	☐ (2)	State	☐ (2)			Fee	☒ (3)			Indian	_____
Inside	☒ (1)	BLM	☐ (1)														
Outside	☐ (2)	State	☐ (2)														
		Fee	☒ (3)														
		Indian	_____														
MARKS	Remarks : <u>REDLINE & TOPO SHOW LOCATION INSIDE V.2. ONLY PIT ON LOCATION.</u> <u>BELONGS TO SPNG. WILL CLOSE PIT.</u>																

94925

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 24° Footage from Wellhead 99'
b) Length : 21' Width : 21' Depth : 2'



Remarks :

PHOTOS - 1314

Completed By:

Pat Champion

1.10.95

1.10.95 RT 1.10.95

Phase I Excavation

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: <u>94925</u> Location: <u>Federal R#2</u> Coordinates: Letter: <u>P</u> Section <u>15</u> Township: <u>27</u> Range: <u>8</u> Or Latitude _____ Longitude _____ Date Started : <u>1-23-95</u> Run: <u>13</u> <u>31</u>
FIELD OBSERVATIONS	Sample Number(s): <u>MK331</u> Sample Depth: <u>12'</u> Feet Final PID Reading <u>502</u> PID Reading Depth <u>12'</u> Feet Yes No Groundwater Encountered ☐ ☒ Approximate Depth _____ Feet
CLOSURE	Remediation Method : Excavation ☒ Approx. Cubic Yards <u>50</u> Onsite Bioremediation ☐ Backfill Pit Without Excavation ☐ Soil Disposition: Envirotech ☐ ☒ Tierra Other Facility ☐ Name: _____ Pit Closure Date: <u>1-23-95</u> Pit Closed By: <u>B.E.I</u>
REMARKS	Remarks : <u>Arrived Took Fence down soil black strong Hydrocarbon odor turned gray 195+ 3'</u>
Signature of Specialist: <u>Morgan Killian</u>	



FIELD SERVICES LABORATORY

ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	MK331	946590
MTR CODE SITE NAME:	94925	Federal R #2
SAMPLE DATE TIME (Hrs):	01/23/95	1430
PROJECT:	Phase I	
DATE OF TPH EXT. ANAL.:	01/28/95	01/28/95
DATE OF BTEX EXT. ANAL.:	01/28/95	01/28/95
TYPE DESCRIPTION:	VC	Dark brown fine sand

Field Remarks: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	<2.70	MG/KG	0.5398		2.47	20
TOLUENE	88.6	MG/KG	0.5398		2.47	20
ETHYL BENZENE	18.6	MG/KG	0.5398		2.47	20
TOTAL XYLENES	202	MG/KG	0.5398		2.47	20
TOTAL BTEX	310	MG/KG				
TPH (418.1)	4310	MG/KG			1.96	28
HEADSPACE PID	502	PPM				
PERCENT SOLIDS	92.9	%				

-- TPH is by EPA Method 418.1 and BTEX is by EPA Method 8020 --

The Surrogate Recovery was at 84.9 % for this sample All QA/QC was acceptable.
Narrative: _____

DF = Dilution Factor Used

Approved By: _____

Date: _____

7/19/96



CHAIN OF CUSTODY RECORD

[illegible]

Phase II Soil Boring

RECORD OF SUBSURFACE EXPLORATION

Borehole # BH-1
 Well # _____
 Page 1 of 1

ULIP ENVIRONMENTAL
 Morroc Road
 Farmington, New Mexico 87401
 (505) 326-2262 FAX (505) 326-2388

Project Name EPNG PITS
 Project Number 14509 Phase 6000 77
 Project Location Federal R #2 94925

Elevation _____
 Borehole Location QP-SIS-T27-R8
 GWL Depth _____
 Logged By CM CHANCE
 Drilled By K Padilla
 Date/Time Started 8/28/95 1015
 Date/Time Completed 8/28/95 1430

Well Logged By CM Chance
 Personnel On-Site K Padilla, F. Rivera, D. Chawla
 Contractors On-Site _____
 Client Personnel On-Site _____

Drilling Method 4 1/4" ID HSA / 8 1/4" ID HSA
 Air Monitoring Method PID, CGI

Depth (Feet)	Sample Number	Sample Interval	Sample Type & Recovery (inches)	Sample Description Classification System: USCS	USCS Symbol	Depth Lithology Change (feet)	Air Monitoring Units: PPM			Drilling Conditions & Blow Counts
							BZ	BH	S HS	
0				Backfill to 12'						
5										
10										
15	1	15-17	16"	Gr silty SAND, v.f. sand, v. loose, sl moist			4	25	24 980	-1026 h-
20	2	20-22	8"	Blk silty SAND, v.f. sand, v. loose, sl moist			15	72	115 1100	-1032
25	3	25-27	10"	AA			3	30	120 1900	-1038
30	4	30-32	5'	Br silty SAND, v. loose, saturated			3	90	NA	-GW @ 30.4' BGS -1047 -Pull 4 1/4" augers & drill to 40' w/ 8 1/4" auger
35				Clngs - Br silty SAND, saturated						
40				AA						-Will set well @ 40'
				TDB 40'						

Comments:

No lab sample due to v. high PID readings on split spoons above GW. Will set well @ 40' BGS. (1' slough. Well set @ 39' BGS)

MONITORING WELL INSTALLATION RECORD

Philip Environmental Services Corp.

000 Marvao Road

Farmington, New Mexico 87401

(505) 326-2262 FAX (505) 326-2388

Borehole # BH-1
Well # MW-1
Page 1 of 1

Project Name EPNG PITS

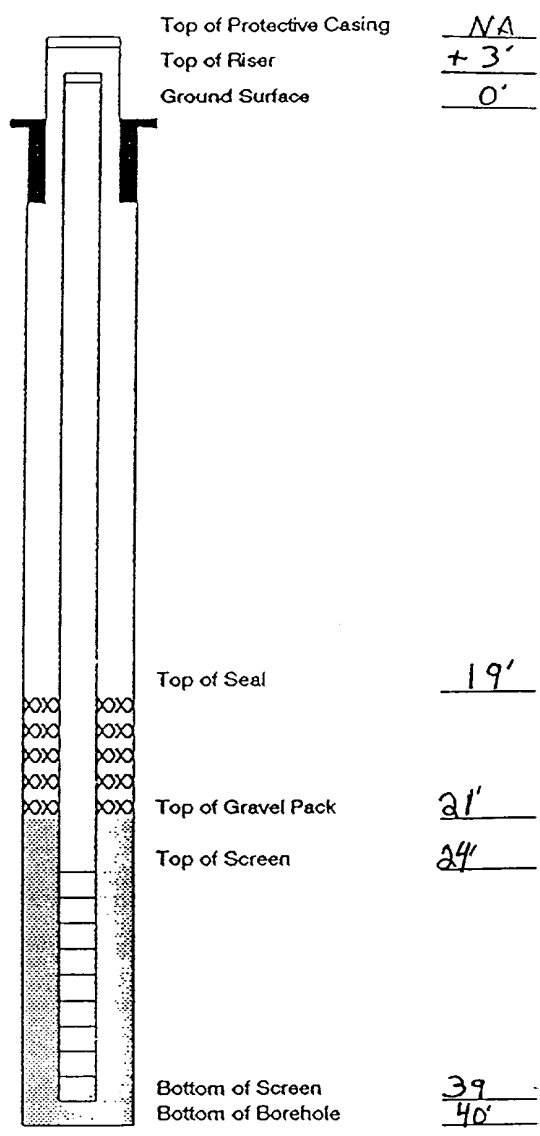
Project Number 14509 Phase 6001.77
Project Location Federal R#2 94925

Elevation _____
Well Location QP-SIS-T27-R8
GWL Depth 30' BGS
Installed By R. Padilla

On-Site Geologist CM Chance
Personnel On-Site F. Rixey, D. Charles
Contractors On-Site _____
Client Personnel On-Site _____

Date/Time Started 8/28/95-1435
Date/Time Completed 8/28/95-1630

Depths in Reference to Ground Surface		
Item	Material	Depth
Top of Protective Casing		NA
Bottom of Protective Casing		NA
Top of Permanent Borehole Casing		NA
Bottom of Permanent Borehole Casing		NA
Top of Concrete		NA
Bottom of Concrete		NA
Top of Grout	5-94# Type I-II	0'
Bottom of Grout	25-50# Portland Cement Bentonite	19'
Top of Well Riser	27' 4" dia SCH40	+3'
Bottom of Well Riser	Flush Thread PVC	24'
Top of Well Screen	15' 4" dia SCH40 Flush Thread	24'
Bottom of Well Screen	0.01 slot PVC	39'
Top of Peltonite Seal	2.5-50# Enviro Plug	19'
Bottom of Peltonite Seal	Bentonite	21'
Top of Gravel Pack	22-50# 10-20	21'
Bottom of Gravel Pack	Silica Sand	39'
Top of Natural Cave-In		39'
Bottom of Natural Cave-In		40'
Top of Groundwater		30'
Total Depth of Borehole		40'



Comments: Bentonite hydrated w/10 gal potable water. Locking well cap & padlock placed on well.
Groundwater has no odor or visible contamination.

Geologist Signature CM Chance



Water Sampling Data

Location No. MW1Serial No. WSD-Group List Number Sample Type: ☒ Groundwater ☐ Surface Water ☐ Other Date 05-12-95Project Name EPNS PITS Project No. 14509Project Manager Cory Chance Phase/Task No. 6003 77Site Name FEDERAL R #2 (94925)

Sampling Specifications

Requested Sampling
Depth Interval (feet) Top 3'
Requested Wait Following
Development/Purging (hours) None

Initial Measurements

Time Elapsed From Final Development/Purging ^{MW}(hours) 10
Initial Water Depth (feet) 9.3' to 33.5'
Nonaqueous Liquids Present (Describe) None

Water Quality/Water Collection

DO = Dissolved Oxygen; Cond. = Conductivity

Date	Time	Sampler Initials	Water Quality Readings				Water Collection Data				Notes (Explain in Comments Below)
			Temp. (°C)	pH	DO (mg/L)	Cond. (µmhos/ cm)	Volume Removed (gallons)	Removal Rate (gal/min)	Pump Intake Depth (feet)	Bail	
SEE	well	Development	and purging				DATA sheet				

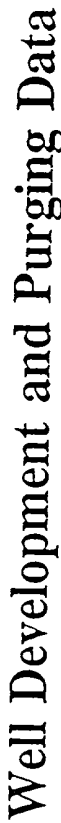
Sample Containers

Container Type: G = Clear Glass; A = Amber Glass; P = Plastic; V = VOA Vial (Glass); O = Other (Specify)

Preservatives: H = HCl; N = HNO₃; S = H₂SO₄; A = NaOH; O = Other (Specify); - = None

Analytical Parameter List	Container			Field Filtered		Preserved	Cooled During Collection		Comments
	Number	Type	Volume (mL)	Yes	No		Yes	No	
BTEX	2	A	40		X	H	X		JAL 18 T 1445
TDS	1	P	250		X	NA	X		

Filter Type Chain-of-Custody Form Number Comments Signature [Signature] Date 05-12-95 Reviewer Date



☐ Development

☐ Purgings

Well Number MW-1

Page of

Project Name EPWS PITS

Project Manager Corey Chance

Project No. 14509

Client Company El Paso Natural Gas

Phase.Task No. 6003. 77

Site Name FEDERAL R #2 (94925)

Site Address

Development Criteria

- ☒ 3 to 5 Casing Volumes of Water Removal
☐ Stabilization of Indicator Parameters
☐ Other

Water Volume Calculation

Initial Depth of Well (feet) 42.8

Serial No. (If applicable)

Initial Depth to Water (feet) 33.5

☒ pH Meter

HYDAC

Height of Water Column in Well (feet)	9.3
---------------------------------------	-----

9.3

☐ DO Monitor

Methods of Development

- Pump**
- ☐ Centrifugal
- ☐ Submersible
- ☐ Peristaltic
- ☐ Other
- Baller**
- ☒ Bottom Valve
- ☐ Double Check Valve
- ☐ Stainless-steel Kemmerer

Water Disposal

Diagrams and Transfers to
KWE Separator in Bloomfield

Water Removal Data

[illegible]

Circle the date and time that the development criteria are met.

Comments

Developer's Signature(s)

Date 03-12-85

Reviewer _____ Date _____



FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT - Water

SAMPLE IDENTIFICATION

SAMPLE NUMBER:	947448
FIELD ID:	JAL18
MTR CODE:	94925
SAMPLE DATE:	9/12/95
SAMPLE TYPE:	Monitor Well
SITE NAME:	Federal R #2
PROJECT:	Phase II MW
DATE OF BTEX ANALYSIS:	14-Sep-95

FIELD COMMENTS: _____

EPA Method 8020 (BTEX) RESULTS

PARAMETER	RESULT	QUALIFIER	WQCC LIMIT PPB
TDS - TOTAL DISSOLVED SOLIDS (PPM)	2208		None
BENZENE (PPB)	3.2		10
TOLUENE (PPB)	3.4		740
ETHYL BENZENE (PPB)	1.4		750
TOTAL XYLENES (PPB)	19.8		620
SURROGATE % RECOVERY	86	Allowed Range 80 to 120 %	

107

Approved By: *John Lueda*

9-15-95



Phase II
WV

CHAIN OF CUSTODY RECORD

Page 3 of

PROJECT NUMBER # 24324		PROJECT NAME Pit Closure Project		DATE 09-12-95	
SAMPLERS: (Signature) James A. Long		DATE 09-12-95		FIELD ID	
LAB ID	DATE	TIME	MATRIX	FIELD ID	
	09-12-95	1145	WATER	JAL-16	
	09-12-95	1150	WATER	JAL-17	
	09-12-95	1445	WATER	JAL-18	
	09-12-95	1735	WATER	JAL-19	
[Large diagonal line across the table]					

TOTAL NUMBERS OF CONTAINERS		SAMPLE TYPE		REQUESTED ANALYSIS				SEQUENCE #		REMARKS	
TPH EPA 418.1	BTEX EPA 8020	LAB PID									
	X		WB							TRIP BLANK	
	X		W		X					VERY SMALL STANDARD OIL COM #1 (70945) MW-1	
	X		W		X					FEDERAL R #2 (94525) MW-1	
	X		W		X					Hammond FED #5 (75336) MW-1	
[Large diagonal line across the table]											

RELINQUISHED BY: (Signature) James A. Long		DATE/TIME 09-12-95 3:45		RECEIVED BY: (Signature) Julia Diddle		DATE/TIME 09-12-95 9:05	
RELINQUISHED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)		DATE/TIME	

REQUESTED TURNAROUND TIME: ☐ ROUTINE ☐ RUSH		SAMPLE RECEIPT REMARKS		RESULTS & INVOICES TO:	
CARRIER CO.				FIELD SERVICES LABORATORY EL PASO NATURAL GAS COMPANY P.O. BOX 4990 FARMINGTON, NEW MEXICO 87499	
BILL NO.:		CHARGE CODE		FAX: 505-599-2261	

MEMORANDUM

To: John Lambdin

Date: March 4, 1996

From: Dennis Bird

Place: Laboratory Services

Subject: Blanco Pipeline Pit Monitor Wells

On Thursday, February 22, 1996, Richard Benson and myself went to Blanco Pipeline and sampled the following pit monitor wells. The following analytical parameters are to be performed on these groundwater samples: BTXE, General Chemistry, Nitrate as NO3-N, Metals As, Ba, Cd, Cr, Hg, Se, Ag, Pb, and Dissolved Oxygen. The samples were assigned the laboratory numbers 960190 and 960191. The samples for metals were filtered with a 0.45 micron filter in the field at the time of sampling. The dissolved oxygen results were taken at the time of sampling with a ChemMets Kit. The Field Service Laboratory will be performing all of the analysis.

The following information was collected on each well.

Monitor Well#	Pipe ID	Static Level	Total Depth	Gallons Bailed	Dissolved Oxygen	Notes
Hammond Fed. #5	4"	45.07'	53.55'	12.8	1.5 ppm	
960191 Federal R #2	4"	33.15'	42.80'	20.0	1.0 ppm	94925

All bailing and sampling was done with disposable, one time use equipment and bottles. All samples were preserved on ice immediately after collection. The static level and total depth was measured from the top of the pipe.

Should you have any question or comments, please let me know.

DB
Dennis P. Bird
Chief Technician

cc: Nancy Prince
Ann Allen
Sandra Miller

EPFS

EL PASO FIELD SERVICES

FIELD SERVICES LABORATORY ANALYTICAL REPORT

SAMPLE IDENTIFICATION

SAMPLE NUMBER:	960191
SITE NAME:	Blanco Pipeline
SAMPLE SITE:	Federal R #2 NW-1
SAMPLE DATE:	02/22/96
SAMPLE TIME (Hrs):	1203
SAMPLED BY:	D. Bird
DATE OF BTEX ANALYSIS:	02/23/96
SAMPLE TYPE:	Water

File Code: 94925

3/14/96

REMARKS:

EPA Method 8020 (BTEX) RESULTS

PARAMETER	RESULT PPB	QUALIFIER	WQCC LIMIT PPB
BENZENE	3.0		10
TOLUENE	< 1.0		740
ETHYL BENZENE	4.5		750
TOTAL XYLENES	38.6		620
SURROGATE % RECOVERY	98.6	Allowed Range 80 to 120 %	

NOTES:

Approved By:

A. K. L...

Date:

2-26-96

EL PASO FIELD SERVICES

Field Services Laboratory Water Analysis Report

LOCATION: Blanco Pipeline PROJECT: M.W.
DATE OF REPORT: 2/28/96 SAVE FILE: 960191
SAMPLED BY: Dennis Bird & Richard Benson

****All Results By Standard Methods (AWWA) Or EPA Method 300****

[illegible]

****All Results Expressed as ppm or umhos****

REMARKS:

Fluoride results were with the HACH DR/2000 using the spadns fluoride reagents.

* It is not unusual for shallow groundwater in New Mexico to naturally exceed these limits.

pprovals:

Lab Super.:

Date:

3/14/94



EL PASO FIELD SERVICES

FIELD SERVICES LABORATORY ANALYTICAL REPORT

SAMPLE IDENTIFICATION

SAMPLE NUMBER:	960191
LOCATION:	Blanco Pipeline
SAMPLE DATE:	02/22/96
SAMPLE TIME (Hrs):	1223
SAMPLED BY:	D. Bird
SAMPLE POINT:	Federal R #2

REMARKS:

RESULTS

PARAMETER	DISSOLVED RESULT (mg/L)	TOTAL RESULT (mg/L)	N. M. WQCC LIMIT (mg/L)
ARSENIC	<0.001	0.002	0.10
BARIUM	0.03	0.19	1.00
CADMIUM	<0.0005	<0.0005	0.01
CHROMIUM	0.006	0.009	0.05
LEAD	0.006	0.011	0.05
MERCURY	0.0001	<0.0001	0.002
SELENIUM	<0.005	<0.005	0.05
SILVER	0.0005	0.0009	0.05

NOTE: The sample results have been corrected for volume adjustment associated with Method 3015.

References:

Method 3015, Microwave Assisted Acid Digestion of Aqueous Samples and Extracts, Test Methods for Evaluating Solid Waste, SW-846, Sept., 1994.
Method 7061A, Arsenic (Atomic Absorption, Gaseous Hydride), Test Methods for Evaluating Solid Waste, SW-846, USEPA, July, 1992.
Method 7081, Barium (Atomic Absorption, Furnace Technique), Test Methods for Evaluating Solid Waste, SW-846, USEPA, July, 1992.
Method 7131, Cadmium (Atomic Absorption, Furnace Technique), Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept, 1986.
Method 7191, Chromium (Atomic Absorption, Furnace Technique), Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept, 1986.
Method 7421, Lead (Atomic Absorption, Furnace Technique), Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept, 1986.
Method 245.5, Mercury (Automated Cold Vapor Technique), Methods for the Determination of Metals in Environmental Samples, EPA600/4-91/010, USEPA, June, 1991.
Method 7741A, Selenium (Atomic Absorption, Gaseous Hydride), Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept, 1994.
Method 7761, Silver (Atomic Absorption, Furnace Technique), Test Methods for Evaluating Solid Waste, SW-846, USEPA, July, 1992.

Reported By:

ml

Approved By:

W. J. [Signature] 3/1/96



Natural Gas Company

CHAIN OF CUSTODY RECORD

Project No.		Project Name		Requested Analysis		Contract Laboratory											
Samplers: (Signature)		Date	Receiving Temp (°F)	Composite or Grab	See Attached	Intact?	Chain of Custody Seals	Total No. of Containers									
Lab ID	Date	Time	Matrix	Sample Number													
2/24/96	1054		WATER	950190	5												
2/24/96	1323		WATER	950191	5												
2/24/96			WATER		1												
Relinquished by: (Signature)		Date/Time		Received by: (Signature)		Date/Time		Received by: (Signature)									
Relinquished by: (Signature)		Date/Time		Received by: (Signature)		Date/Time		Received by: (Signature)									
Relinquished by: (Signature)		Date/Time		Received for Laboratory by: (Signature)		Date/Time		Remarks									
Results & Invoices to:				Charge Code		Date Results Received / by: (Signature)											