10638
Enc ✓

NEVADA GOLDFIELDS INC.

BARITE HILL PROJECT

Highway 221 & State Road 33-162
P.O. Box 1510
McCormick, South Carolina 29835
Phone 803/465-3321 Fax 803/465-4308

March 15, 1996

RECEIVED
MAR 18 1996
HYDROGEOLOGY

Bureau of Solid & Hazardous Waste
SCDHEC
2600 Bull Street
Columbia, South Carolina 29201

RE: Industrial Solid Waste Landfill; Permit # 332338-1601
Monitor Well results

Dear Mr. Van Keisler,

Enclosed are two copies of the Solid Waste monitor well results. Also included are two copies of a hydrogeologic evaluation of the ground water flow and rate at the project.

All constituents were within the tolerance limits.

If you have any questions, please contact me at (803) 443-2222.

Sincerely,

Scott A. Wilkinson
Project Manager

APPROVED
MAR 18 1996
(SIGNATURE)
SW 960308. ck
3/26/96

Davis & Floyd, Inc.

Laboratory Analysis Report

Work Order # 95-11-250

Received: 11/28/95

12/12/95 11:19:32

REPORT NEVADA GOLDFIELDS, INC.
TO P.O. BOX 1530
McCORMICK, SC 29835

ATTEN SCOTT WILKENSON

PREPARED DAVIS & FLOYD, INC.
BY P.O. DRAWER 428
GREENWOOD, SC 29648

PHONE (803)-229-5211

CERTIFIED BY

JOHN_MCCORD

WORK ID JOB NO. 7561.00
P.O. # N/A
TAKEN DAVIS & FLOYD, INC./SML
TYPE GROUNDWATER
NUMBER OF SAMPLES 7

Comments:
WE ARE PLEASED TO PROVIDE THIS CERTIFIED REPORT OF ANALYSES. FEEL FREE TO TELEPHONE IF FURTHER EXPLANATION IS REQUIRED. UNLESS OTHER ARRANGEMENTS HAVE BEEN MADE, SAMPLES WILL BE DISPOSED OF OR RETURNED 14 DAYS FROM THE DATE OF THIS REPORT.

SAMPLE IDENTIFICATION	DATE COLLECTED
01 L-2	11/27/95 13:11:00
02 O	11/27/95 13:38:00
03 N	11/27/95 14:00:00
04 GW-5	11/27/95 14:27:00
05 D-3	11/27/95 15:12:00
06 D-3 DUP.	11/27/95 16:15:00
07 A-3	11/27/95 16:15:00

Davis & Floyd, Inc.

Laboratory Analysis Report

Work Order # 95-11-250

Received: 11/28/95 12/12/95 11:19:32

Test Description	Units	01 L-2	02 O	03 N	04 GW-5
GROUNDWATER ELEVATION	Feet Above MSL	NA	NA	NA	NA
pH (FIELD ANALYSIS)	pH units	6.8	6.7	6.8	7.0
SPECIFIC CONDUCTANCE (FLD)	micromhos/cm	526	484	613	604
TEMPERATURE	Degrees C	17	19	18	19
SILVER (TOTAL)	mg/l	< 0.010	< 0.010	< 0.010	< 0.010
ALUMINUM (TOTAL)	mg/l	2.08	12.7	20.3	12.5
BARIUM (TOTAL)	mg/l	< 0.020	0.112	0.048	0.097
CALCIUM (TOTAL)	mg/l	44.3	39.3	34.2	44.2
CADMIUM (TOTAL)	mg/l	< 0.0050	< 0.0050	< 0.0050	< 0.0050
CHROMIUM (TOTAL)	mg/l	< 0.010	< 0.010	0.020	0.031
COPPER (TOTAL)	mg/l	< 0.010	< 0.010	0.022	0.032
COPPER (DISSOLVED)	mg/l	< 0.010	< 0.010	< 0.010	< 0.010
IRON (TOTAL)	mg/l	2.70	19.0	24.2	19.5
POTASSIUM (TOTAL)	mg/l	< 2.0	2.72	< 2.0	< 2.0
MAGNESIUM (TOTAL)	mg/l	16.7	25.0	37.9	36.5
MANGANESE (TOTAL)	mg/l	0.137	0.753	1.26	1.90
SODIUM (TOTAL)	mg/l	19.7	25.3	49.6	41.4
NICKEL (TOTAL)	mg/l	< 0.020	< 0.020	< 0.020	< 0.020
ZINC (TOTAL)	mg/l	< 0.020	0.114	0.232	0.122
MERCURY (TOTAL)	mg/l	< 0.00020	< 0.00020	< 0.00020	< 0.00020
ARSENIC (TOTAL)	mg/l	< 0.0050	< 0.0050	< 0.0050	< 0.0050
LEAD (TOTAL)	mg/l	< 0.0050	0.0054	< 0.0050	< 0.0050
SELENIUM (TOTAL)	mg/l	< 0.0050	< 0.0050	< 0.0050	< 0.0050
ORGANIC CARBON TOTAL	mg/l	1.3	1.8	1.7	2.1
ALKALINITY BICARBONATE	mg/l	124	126	168	234

Davis & Floyd, Inc.

Laboratory Analysis Report

Received: 11/28/95

12/12/95 11:19:32

Work Order # 95-11-250

Continued From Above

Test Description	Units	01 L-2	02 O	03 N	04 GW-5
CHLORIDE (by IC)	mg/l	77.3	61.4	72.0	37.9
FLUORIDE (by IC)	mg/l	< 0.10	0.12	0.18	0.18
pH (LAB)	pH units	7.0	7.0	7.2	7.3
SULFATE (by IC)	mg/l	4.79	11.5	21.1	12.0
AMMONIA NITROGEN	mg/l	0.13	0.17	< 0.10	0.42
NITRITE NITROGEN	mg/l	< 0.10	< 0.10	< 0.10	0.10
NITRATE NITROGEN (by IC)	mg/l	0.30	0.23	< 0.10	0.12
CYANIDE (TOTAL)	mg/l	< 0.0050	< 0.0050	< 0.0050	< 0.0050
DISSOLVED SOLIDS TOTAL	mg/l	438	391	431	422

Test Description	Units	05 D-3	06 D-3 DUP.	07 A-3
GROUNDWATER ELEVATION	Feet Above MSL	NA	NA	NA
pH (FIELD ANALYSIS)	pH units	9.6	9.6	4.2
SPECIFIC CONDUCTANCE (FLD)	micromhos/cm	426	426	27
TEMPERATURE	Degrees C	18	18	18
SILVER (TOTAL)	mg/l	< 0.010	< 0.010	< 0.010
ALUMINUM (TOTAL)	mg/l	0.135	0.276	0.195
BARIUM (TOTAL)	mg/l	< 0.020	0.024	0.133
CALCIUM (TOTAL)	mg/l	46.7	63.1	< 1.0
CADMIUM (TOTAL)	mg/l	< 0.0050	< 0.0050	< 0.0050
CHROMIUM (TOTAL)	mg/l	< 0.010	< 0.010	< 0.010
COPPER (TOTAL)	mg/l	< 0.010	< 0.010	0.016
COPPER (DISSOLVED)	mg/l	< 0.010	< 0.010	0.013

Davis & Floyd, Inc.

Laboratory Analysis Report

Received: 11/28/95

12/12/95 11:19:32

Work Order # 95-11-250

Continued From Above

Test Description	Units	05 D-3	06 D-3 DUP.	07 A-3
IRON (TOTAL)	mg/l	0.409	0.822	0.305
POTASSIUM (TOTAL)	mg/l	4.61	7.53	< 2.0
MAGNESIUM (TOTAL)	mg/l	7.99	8.00	< 1.0
MANGANESE (TOTAL)	mg/l	0.289	0.444	< 0.010
SODIUM (TOTAL)	mg/l	24.8	31.4	3.45
NICKEL (TOTAL)	mg/l	< 0.020	< 0.020	< 0.020
ZINC (TOTAL)	mg/l	0.033	0.044	0.022
MERCURY (TOTAL)	mg/l	< 0.00020	< 0.00020	< 0.00020
ARSENIC (TOTAL)	mg/l	< 0.0050	< 0.0050	< 0.0050
LEAD (TOTAL)	mg/l	< 0.0050	0.0083	< 0.0050
SELENIUM (TOTAL)	mg/l	< 0.0050	< 0.0050	< 0.0050
ORGANIC CARBON TOTAL	mg/l	8.8	8.4	1.0
ALKALINITY BICARBONATE	mg/l	142	186	< 1.0
CHLORIDE (by IC)	mg/l	35.3	34.0	3.68
FLUORIDE (DISSOLVED)	mg/l			< 0.10
FLUORIDE (by IC)	mg/l	0.27	0.41	
pH (LAB)	pH units	8.2	8.6	5.2
SULFATE (by IC)	mg/l	15.1	26.5	1.17
AMMONIA NITROGEN	mg/l	0.31	0.28	< 0.10
NITRITE NITROGEN	mg/l	< 0.10	< 0.10	< 0.10
NITRATE NITROGEN (by IC)	mg/l	< 0.10	< 0.10	0.20
CYANIDE (TOTAL)	mg/l	< 0.0050	< 0.0050	< 0.0050
DISSOLVED SOLIDS TOTAL	mg/l	329	305	69

'Davis & Floyd, Inc.

Laboratory Analysis Report

Work Order # 95-11-262

Received: 11/28/95 12/11/95 11:55:48

REPORT NEVADA GOLDFIELDS, INC.
TO P.O. BOX 1530
McCORMICK, SC 29835

ATTEN SCOTT WILKENSON

PREPARED DAVIS & FLOYD, INC.
BY P.O. DRAWER 428
GREENWOOD, SC 29648

PHONE (803)-229-5211

CERTIFIED BY

JOHN_MCCORD

WORK ID JOB NO. 7561.00
P.O. # N/A
TAKEN DAVIS & FLOYD, INC./SML
TYPE GROUNDWATER
NUMBER OF SAMPLES 3

Comments:
WE ARE PLEASED TO PROVIDE THIS CERTIFIED REPORT OF ANALYSES. FEEL FREE TO TELEPHONE IF FURTHER EXPLANATION IS REQUIRED. UNLESS OTHER ARRANGEMENTS HAVE BEEN MADE, SAMPLES WILL BE DISPOSED OF OR RETURNED 14 DAYS FROM THE DATE OF THIS REPORT.

SAMPLE IDENTIFICATION	DATE COLLECTED
01 F-3	11/28/95 11:23:00
02 GW-6	11/28/95 11:35:00
03 B-2	11/28/95 12:04:00

'Davis & Floyd, Inc.

Laboratory Analysis Report

Work Order # 95-11-262

Received: 11/28/95 12/11/95 11:55:48

Test Description	Units	01 F-3	02 GW-6	03 B-2
GROUNDWATER ELEVATION	Feet Above MSL	NA	NA	NA
pH (FIELD ANALYSIS)	pH units	5.1	7.0	7.6
SPECIFIC CONDUCTANCE (FLD)	micromhos/cm	55	273	268
TEMPERATURE	Degrees C	18	20	19
SILVER (TOTAL)	mg/l	< 0.010	< 0.010	< 0.010
ALUMINUM (TOTAL)	mg/l	11.4	0.262	0.400
BARIUM (TOTAL)	mg/l	0.157	0.022	0.166
CALCIUM (TOTAL)	mg/l	5.2	15.9	30.4
CADMIUM (TOTAL)	mg/l	< 0.0050	< 0.0050	< 0.0050
CHROMIUM (TOTAL)	mg/l	< 0.010	< 0.010	< 0.010
COPPER (TOTAL)	mg/l	0.192	< 0.010	< 0.010
COPPER (DISSOLVED)	mg/l	< 0.010	< 0.010	< 0.010
IRON (TOTAL)	mg/l	52.5	0.277	6.35
POTASSIUM (TOTAL)	mg/l	< 2.0	< 2.0	< 2.0
MAGNESIUM (TOTAL)	mg/l	1.47	8.51	5.12
MANGANESE (TOTAL)	mg/l	0.039	0.277	0.543
SODIUM (TOTAL)	mg/l	7.29	25.6	10.6
NICKEL (TOTAL)	mg/l	< 0.020	< 0.020	< 0.020
ZINC (TOTAL)	mg/l	0.103	< 0.020	0.077
MERCURY (TOTAL)	mg/l	0.00051	< 0.00020	< 0.00020
ARSENIC (TOTAL)	mg/l	< 0.0050	< 0.0050	< 0.0050
LEAD (TOTAL)	mg/l	0.0191	< 0.0050	0.0605
SELENIUM (TOTAL)	mg/l	< 0.0050	0.0050	< 0.0050
ORGANIC CARBON TOTAL	mg/l	1.4	2.0	1.0
ALKALINITY BICARBONATE	mg/l	11.0	68.0	96.0

Davis & Floyd, Inc.

Laboratory Analysis Report

Received: 11/28/95

12/11/95 11:55:48

Work Order # 95-11-262

Continued From Above

Test Description	Units	01 F-3	02 GW-6	03 B-2
CHLORIDE (by IC)	mg/l	5.23	30.6	9.29
FLUORIDE (by IC)	mg/l	< 0.10	0.18	0.16
pH (LAB)	pH units	5.7	6.9	7.5
SULFATE (by IC)	mg/l	8.24	11.4	10.2
AMMONIA NITROGEN	mg/l	< 0.10	< 0.10	< 0.10
NITRITE NITROGEN	mg/l	< 0.10	< 0.10	< 0.10
NITRATE NITROGEN (by IC)	mg/l	0.26	0.27	< 0.10
CYANIDE (TOTAL)	mg/l	< 0.0050	< 0.0050	< 0.0050
DISSOLVED SOLIDS TOTAL	mg/l	76	224	201

4511250

DAVIS & FLOYD

Chain of Custody Form

816 East Durst Street, Greenwood, S.C. 29649 Phone (803)229-5211 Fax (803)229-7119

PROJ. NO.: 7561.00

PROJECT NAME: Nevada Goldfield

SAMPLERS NAME/AFFILIATION:(PRINTED): Steve Lohr

SAMPLE NO.	DATE	GRAB	TIME	COMP.	TIME ON	TIME OFF	SAMPLE DESCRIPTION	NO. OF BOTTLES	1 125ml Pl.	2 250ml Pl.	3 250ml Pl.	4 1000ml Pl.	5 1/2 Gal. Pl.	6 1/2 Gal Pl.	7 125ml Gl. w/sep.	8	9	10	11	12	13	14	15	SAMPLE TYPE	POTENTIAL HAZARD
	11.27.95	X	1311				L-2	7	1	1	1	1	1	1	1									GW	
		X	1338				O	7	1	1	1	1	1	1	1										
		X	1400				N	7	1	1	1	1	1	1	1										
		X	1427				GW-5	7	1	1	1	1	1	1	1										
		X	1512				D-3	7	1	1	1	1	1	1	1										
		X	1512				D-3 DUP.	7	1	1	1	1	1	1	1										
		X	1615				A-3	7	1	1	1	1	1	1	1										
		X	1805				B-2	7	1	1	1	1	1	1	1										

RELINQUISHED BY: (SIGNATURE)	DATE / TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE / TIME	RECEIVED BY: (SIGNATURE)
Steve Lohr	11-28-95 0800				

RELINQUISHED BY: (SIGNATURE)	DATE / TIME	RECEIVED FOR LAB BY: (SIGNATURE)	DATE / TIME	CLIENT CONTACT:	
		Lisa L. McCall	11.28.95 0800	RESULTS SENT TO:	DATE:

DW-DRINKING WATER WW-WASTE WATER HW-HAZARDOUS WATER SD-SOLID AB-ABSORBENT TUBE

GW-GROUND WATER RC-RCRA SW-SURFACE WATER IM-IMPINGER SOLUTION F -FILTERS

9511262

DAVIS & FLOYD

Chain of Custody Form

816 East Durst Street, Greenwood, S.C. 29649 Phone (803)229-5211 Fax (803)229-7119

PROJ. NO.: 7561.00

PROJECT NAME: Nevada Goldfields

SAMPLERS NAME/AFFILIATION:(PRINTED): Steve Lohr

SAMPLE NO.	DATE	GRAB	TIME	COMP.	TIME ON	TIME OFF	SAMPLE DESCRIPTION	NO. OF BOTTLES	1 125ml Pl.	2 250ml Pl.	3 250ml Pl.	4 1000ml Pl.	5 1/2 Gal. Pl.	6 1/2 Gal. Pl.	7 125ml Gl. w/Sep.	8	9	10	11	12	13	14	15	SAMPLE TYPE	POTENTIAL HAZARD
	11-28-95	X	1123				F-3	7	1	1	1	1	1	1	1									GW	
		X	1135				GW-6	7	1	1	1	1	1	1	1										
		X	1204				B-2	7	1	1	1	1	1	1	1										

RELINQUISHED BY: (SIGNATURE)	DATE / TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE / TIME	RECEIVED BY: (SIGNATURE)
Steve Lohr	11-28-95 1525				

RELINQUISHED BY: (SIGNATURE)	DATE / TIME	RECEIVED FOR LAB BY: (SIGNATURE)	DATE / TIME	CLIENT CONTACT:	
		Lisa S. McCall	11-28-95 1525	RESULTS SENT TO:	DATE:

DW-DRINKING WATER WW-WASTE WATER HW-HAZARDOUS WATER SD-SOLID AB-ABSORBENT TUBE

GW-GROUND WATER RC-RCRA SW-SURFACE WATER IW-IMPINGER SOLUTION

DAVIS & FLOYD

ENGINEERS ARCHITECTS PLANNERS SCIENTISTS

CHARLESTON • GREENWOOD • COLUMBIA

FIELD DATA LOG FOR GROUNDWATER SAMPLE COLLECTION/ GROUNDWATER ELEVATION MEASUREMENTS

Well No.: L-2

Client: Nevada Goldfield

Site Name: McCormick Job No.: 7561.00

Date: 11-27-95 LWR submitted by: N/A

Sampling Personnel: WSB, SML

Site Personnel: N/A

Regulatory Personnel: N/A

Weather Conditions: Cloudy Temp.: 50's

Well Diameter: 2.0 in.

(A) Top of Well Elevation: N/A msl (yes/no)

(B) Depth to Immiscible Layer: N/A ft.

(C) Immiscible Layer Elevation: (A)-(B)= N/A msl (yes/no)

(D) Depth to Groundwater: 33.83 ft.

(E) Groundwater Elevation: (A)-(D)= N/A msl (yes/no)

(F) Total Well Depth = 81.95 ft.

(G) Length of Water Column: (F)-(D)= 48.12 ft.

Casing Volume = (G) x Volume in gal./ft.= 7.8 gals.

Method of Well Evacuation Bail Start Time: 1235

Method of Sample Collection Bail Time: 1311

Chain-of-Custody Form Started (yes/no)

Source(s) of Well ID site map ID Label (yes/no)

Well Completion: Protective Casing (yes/no) Flush (yes/no)

Flush-Mount Cover Seal Intact (yes/no) Locking Cap (yes/no)

Locked at Arrival (yes/no) Departure (yes/no)

Well Casing (height above/depth below) ground: 2.5 ft.

Casing Type (PVC) (Steel) (Other)

Dedicated Pump or Bailer (yes/no) Type Teflon

Protective Post/Abutment (yes/no) Concrete Pad (yes/no)

Well Integrity Satisfactory (yes/no) If no, explain below.

Well Yield (low / moderate / (high))

WELL VOLUME DATA

DIA. OF PIPE (in.)	VOLUME IN GAL./Ft.
1.0	0.041
2.0	0.163
3.0	0.367
4.0	0.653
5.0	1.020
6.0	1.470

TO CONVERT GAL/FT TO LITERS/FT, MULTIPLY ABOVE FIGURES BY 3.8 LITERS/GALLON.

FIELD ANALYSES

	1st Volume	2nd Volume	3rd Volume	4th Volume	5th Volume
Volume Purged (gallons)		2V	3V		
Time (military)		1255	1306		
pH (S.U.)		6.8	6.8		
Sp. Cond. (umhos/cm)		574	526		
Water Temp. (°C)		17	17		
Odor (subjective)*		1	1		
Turbidity (subjective)**		3	3		

* (1)None (2)Slight (3)Moderate (4)Stronge

** (1)Clear (2)Slightly Turbid (3)Moderately Turbid (4)Very Turbid (5)Extremely Turbid

Comments/Observations/Recommendations:

FORM COMPLETED BY: [signature] (SIGNATURE)

DATE: 11-27-95

D& F Form48 (3/94)

DAVIS & FLOYD
ENGINEERS ARCHITECTS PLANNERS SCIENTISTS
CHARLESTON • GREENWOOD • COLUMBIA

FIELD DATA LOG FOR GROUNDWATER SAMPLE COLLECTION/ GROUNDWATER ELEVATION MEASUREMENTS

Well No.: 0

Client: Nevada Goldfields
Site Name: McCormick Job No.: 7561.00
Date: 11-27-95 LWR submitted by: N/A
Sampling Personnel: WSB, SML
Site Personnel: N/A
Regulatory Personnel: N/A
Weather Conditions: Sunny Temp.: 60's
Well Diameter: 2.0 in.
(A) Top of Well Elevation: N/A msl (yes/no)
(B) Depth to Immiscible Layer: N/A ft.
(C) Immiscible Layer Elevation: (A)-(B)= N/A msl (yes/no)
(D) Depth to Groundwater: 20.94 ft.
(E) Groundwater Elevation: (A)-(D)= N/A msl (yes/no)
(F) Total Well Depth = 28.45 ft.
(G) Length of Water Column: (F)-(D)= 7.51 ft.
Casing Volume = (G) x Volume in gal./ft.= 1.2 gals.
Method of Well Evacuation Bail Start Time: 1332
Method of Sample Collection Bail Time: 1338
Chain-of-Custody Form Started (yes/no)

Source(s) of Well ID sitemap ID Label (yes/no)
Well Completion: Protective Casing (yes/no) Flush (yes/no)
Flush-Mount Cover Seal Intact (yes/no) Locking Cap (yes/no)
Locked at Arrival (yes/no) Departure (yes/no)
Well Casing (height above/depth below) ground: 2.5 ft.
Casing Type (PVC) (Steel) (Other)
Dedicated Pump or Bailer (yes/no) Type Teflon
Protective Post/Abutment (yes/no) Concrete Pad (yes/no)
Well Integrity Satisfactory (yes/no) If no, explain below.
Well Yield (low / moderate / high)

WELL VOLUME DATA

DIA. OF PIPE (in.)	VOLUME IN GAL./Ft.
1.0	0.041
2.0	0.163
3.0	0.367
4.0	0.653
5.0	1.020
6.0	1.470

TO CONVERT GAL/FT TO LITERS/FT, MULTIPLY ABOVE FIGURES BY 3.8 LITERS/GALLON.

FIELD ANALYSES

	1st Volume	2nd Volume	3rd Volume	4th Volume	5th Volume
Volume Purged (gallons)		TP@2v	~~3v~~		
Time (military)		1335			
pH (S.U.)		6.7			
Sp. Cond. (umhos/cm)		484			
Water Temp. (°C)		19			
Odor (subjective)*		1			
Turbidity (subjective)**		3			

* (1)None (2)Slight (3)Moderate (4)Stronge
** (1)Clear (2)Slightly Turbid (3)Moderately Turbid (4)Very Turbid (5)Extremely Turbid

Comments/Observations/Recommendations:

FORM COMPLETED BY: [signature] (SIGNATURE)
DATE: 11-27-95

D&F Form48 (3/94)

DAVIS & FLOYD

ENGINEERS ARCHITECTS
PLANNERS SCIENTISTS

CHARLESTON • GREENWOOD • COLUMBIA

FIELD DATA LOG
FOR GROUNDWATER SAMPLE COLLECTION/ GROUNDWATER ELEVATION MEASUREMENTS

Well No.: N

Client: Nevada Goldfields

Site Name: McCormick Job No.: 7561.00

Date: 11-27-95 LWR submitted by: N/A

Sampling Personnel: WSB, SML

Site Personnel: N/A

Regulatory Personnel: N/A

Weather Conditions: Sunny Temp.: 60's

Well Diameter: 2.0 in.

(A) Top of Well Elevation: N/A msl (yes/no)

(B) Depth to Immiscible Layer: N/A ft.

(C) Immiscible Layer Elevation: (A)-(B)= N/A msl (yes/no)

(D) Depth to Groundwater: 13.11 ft.

(E) Groundwater Elevation: (A)-(D)= N/A msl (yes/no)

(F) Total Well Depth = 27.00 ft.

(G) Length of Water Column: (F)-(D)= 13.89 ft.

Casing Volume = (G) x Volume in gal./ft.= 2.3 gals.

Method of Well Evacuation Bail Start Time: 1353

Method of Sample Collection Bail Time: 1400

Chain-of-Custody Form Started (yes/no)

Source(s) of Well ID site map ID Label (yes/no)

Well Completion: Protective Casing (yes/no) Flush (yes/no)

Flush-Mount Cover Seal Intact (yes/no) Locking Cap (yes/no)

Locked at Arrival (yes/no) Departure (yes/no)

Well Casing (height above/depth below) ground: 2.5 ft.

Casing Type (PVC) (Steel) (Other)

Dedicated Pump or Bailer (yes/no) Type Teflon

Protective Post/Abutment (yes/no) Concrete Pad (yes/no)

Well Integrity Satisfactory (yes/no) If no, explain below.

Well Yield (low / moderate / high)

WELL VOLUME DATA

DIA. OF PIPE (in.)	VOLUME IN GAL./Ft.
1.0	0.041
2.0	0.163
3.0	0.367
4.0	0.653
5.0	1.020
6.0	1.470

TO CONVERT GAL/FT TO LITERS/FT, MULTIPLY ABOVE FIGURES BY 3.8 LITERS/GALLON.

FIELD ANALYSES

	1st Volume	2nd Volume	3rd Volume	4th Volume	5th Volume
Volume Purged (gallons)		TD@ 2V			
Time (military)		1400			
pH (S.U.)		6.8			
Sp. Cond. (umhos/cm)		613			
Water Temp. (°C)		18 -			
Odor (subjective)*		1			
Turbidity (subjective)**		3			

* (1)None (2)Slight (3)Moderate (4)Stronge

** (1)Clear (2)Slightly Turbid (3)Moderately Turbid (4)Very Turbid (5)Extremely Turbid

Comments/Observations/Recommendations:

FORM COMPLETED BY: [signature] (SIGNATURE)

DATE: 11-27-95

D&F Form48 (3/94)

DAVIS & FLOYD
ENGINEERS ARCHITECTS PLANNERS SCIENTISTS
CHARLESTON • GREENWOOD • COLUMBIA

FIELD DATA LOG FOR GROUNDWATER SAMPLE COLLECTION/ GROUNDWATER ELEVATION MEASUREMENTS

Well No.: GW-5

Client: Nevada Goldfield
Site Name: McCormick Job No.: 7561.00
Date: 11-27-95 LWR submitted by: N/A
Sampling Personnel: WSB, SML
Site Personnel: N/A
Regulatory Personnel: N/A
Weather Conditions: Sunny Temp.: 60's
Well Diameter: 4.0 in.
(A) Top of Well Elevation: N/A msl (yes/no)
(B) Depth to Immiscible Layer: N/A ft.
(C) Immiscible Layer Elevation: (A)-(B)= N/A msl (yes/no)
(D) Depth to Groundwater: 11.72 ft.
(E) Groundwater Elevation: (A)-(D)= N/A msl (yes/no)
(F) Total Well Depth = 37.80 ft.
(G) Length of Water Column: (F)-(D)= 26.08 ft.
Casing Volume = (G) x Volume in gal./ft.= ≈ 17.0 gals.
Method of Well Evacuation Bail Start Time: 1417
Method of Sample Collection Bail Time: 1427
Chain-of-Custody Form Started (yes/no)

Source(s) of Well ID site map ID Label (yes/no)
Well Completion: Protective Casing (yes/no) Flush (yes/no)
Flush-Mount Cover Seal Intact (yes/no) Locking Cap (yes/no)
Locked at Arrival (yes/no) Departure (yes/no)
Well Casing (height above/depth below) ground: 3.5 ft.
Casing Type (PVC) (Steel) (Other)
Dedicated Pump or Bailer (yes/no) Type PVC
Protective Post/Abutment (yes/no) Concrete Pad (yes/no)
Well Integrity Satisfactory (yes/no) If no, explain below.
Well Yield (low / moderate / high)

WELL VOLUME DATA

DIA. OF PIPE (in.)	VOLUME IN GAL./FT.
1.0	0.041
2.0	0.163
3.0	0.367
4.0	0.653
5.0	1.020
6.0	1.470

TO CONVERT GAL/FT TO LITERS/FT, MULTIPLY ABOVE FIGURES BY 3.8 LITERS/GALLON.

FIELD ANALYSES

	1st Volume	2nd Volume	3rd Volume	4th Volume	5th Volume
Volume Purged (gallons)		TD @<1V			
Time (military)		1427			
pH (S.U.)		7.0			
Sp. Cond. (umhos/cm)		604			
Water Temp. (°C)		19			
Odor (subjective)*		1			
Turbidity (subjective)**		3			

* (1)None (2)Slight (3)Moderate (4)Stronge
** (1)Clear (2)Slightly Turbid (3)Moderately Turbid (4)Very Turbid (5)Extremely Turbid

Comments/Observations/Recommendations: Well dropped below obstruction so couldn't get to one volume.

FORM COMPLETED BY: [signature] (SIGNATURE)
DATE: 11-27-95

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FIELD DATA LOG FOR GROUNDWATER SAMPLE COLLECTION/ GROUNDWATER ELEVATION MEASUREMENTS

Well No.: D-3 DUP.

Client: Nevada Goldfield

Site Name: McCormick Job No.: 7561.00

Date: 11-27-95 LWR submitted by: N/A

Sampling Personnel: WSD, SML

Site Personnel: N/A

Regulatory Personnel: N/A

Weather Conditions: Sunny Temp.: 60's

Well Diameter: 2.0 in.

(A) Top of Well Elevation: N/A msl (yes/no)

(B) Depth to Immiscible Layer: N/A ft.

(C) Immiscible Layer Elevation: (A)-(B)= N/A msl (yes/no)

(D) Depth to Groundwater: 37.20 ft.

(E) Groundwater Elevation: (A)-(D)= N/A msl (yes/no)

(F) Total Well Depth = 80.00 ft.

(G) Length of Water Column: (F)-(D)= 42.80 ft.

Casing Volume = (G) x Volume in gal./ft.= ~~6~~ SML 7.0 gals.

Method of Well Evacuation Bail Start Time: 1447

Method of Sample Collection Bail Time: 1512

Chain-of-Custody Form Started (yes/no)

Source(s) of Well ID site map ID Label (yes/no)

Well Completion: Protective Casing (yes/no) Flush (yes/no)

Flush-Mount Cover Seal Intact (yes/no) Locking Cap (yes/no)

Locked at Arrival (yes/no) Departure (yes/no)

Well Casing (height above/depth below) ground: 2.5 ft.

Casing Type (PVC) (Steel) (Other)

Dedicated Pump or Bailer (yes/no) Type Teflon

Protective Post/Abutment (yes/no) Concrete Pad (yes/no)

Well Integrity Satisfactory (yes/no) If no, explain below.

Well Yield (low / moderate / high)

WELL VOLUME DATA

DIA. OF PIPE (in.)	VOLUME IN GAL./Ft.
1.0	0.041
2.0	0.163
3.0	0.367
4.0	0.653
5.0	1.020
6.0	1.470

TO CONVERT GAL/FT TO LITERS/FT, MULTIPLY ABOVE FIGURES BY 3.8 LITERS/GALLON.

FIELD ANALYSES

	1st Volume	2nd Volume	3rd Volume	4th Volume	5th Volume
Volume Purged (gallons)			TD@1.7V		
Time (military)			1512		
pH (S.U.)			9.6/9.6		
Sp. Cond. (umhos/cm)			426/426		
Water Temp. (°C)			18/18		
Odor (subjective)*			2		
Turbidity (subjective)**			2		

* (1)None (2)Slight (3)Moderate (4)Stronge

** (1)Clear (2)Slightly Turbid (3)Moderately Turbid (4)Very Turbid (5)Extremely Turbid

Comments/Observations/Recommendations:

FORM COMPLETED BY: [signature] (SIGNATURE)

DATE: 11-27-95

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FIELD DATA LOG
FOR GROUNDWATER SAMPLE COLLECTION/ GROUNDWATER ELEVATION MEASUREMENTS

Well No.: A-3

Client: Nevada Goldfields

Site Name: McCormick Job No.: 7561.00

Date: 11-27-95 LWR submitted by: N/A

Sampling Personnel: WSB, SML

Site Personnel: N/A

Regulatory Personnel: N/A

Weather Conditions: Sunny Temp.: 60's

Well Diameter: 2.0 in.

(A) Top of Well Elevation: N/A msl (yes/no)

(B) Depth to Immiscible Layer: N/A ft.

(C) Immiscible Layer Elevation: (A)-(B)= N/A msl (yes/no)

(D) Depth to Groundwater: 48.33 ft.

(E) Groundwater Elevation: (A)-(D)= N/A msl (yes/no)

(F) Total Well Depth = 72.95 ft.

(G) Length of Water Column: (F)-(D)= 24.62 ft.

Casing Volume = (G) x Volume in gal./ft.= 4.0 gals.

Method of Well Evacuation Bail Start Time: 1542

Method of Sample Collection Bail Time: 1615

Chain-of-Custody Form Started (yes/no)

Source(s) of Well ID site map ID Label (yes/no)

Well Completion: Protective Casing (yes/no) Flush (yes/no)

Flush-Mount Cover Seal Intact (yes/no) Locking Cap (yes/no)

Locked at Arrival (yes/no) Departure (yes/no)

Well Casing (height above/depth below) ground: 2.5 ft.

Casing Type (PVC) (Steel) (Other)

Dedicated Pump or Bailer (yes/no) Type Teflon

Protective Post/Abutment (yes/no) Concrete Pad (yes/no)

Well Integrity Satisfactory (yes/no) If no, explain below.

Well Yield (low / moderate / high)

WELL VOLUME DATA

DIA. OF PIPE (in.)	VOLUME IN GAL./FT.
1.0	0.041
2.0	0.163
3.0	0.367
4.0	0.653
5.0	1.020
6.0	1.470

TO CONVERT GAL/FT TO LITERS/FT, MULTIPLY ABOVE FIGURES BY 3.8 LITERS/GALLON.

FIELD ANALYSES

	1st Volume	2nd Volume	3rd Volume	4th Volume	5th Volume
Volume Purged (gallons)		2V	3V	4V	
Time (military)		1555	1600	1612	
pH (S.U.)		4.2	4.4	4.2	
Sp. Cond. (umhos/cm)		43	30	27	
Water Temp. (°C)		17	17	18	
Odor (subjective)*		1	1	1	
Turbidity (subjective)**		2	2	4	

* (1)None (2)Slight (3)Moderate (4)Stronge

** (1)Clear (2)Slightly Turbid (3)Moderately Turbid (4)Very Turbid (5)Extremely Turbid

Comments/Observations/Recommendations:

FORM COMPLETED BY: [signature] (SIGNATURE)

DATE: 11-27-95

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FIELD DATA LOG FOR GROUNDWATER SAMPLE COLLECTION/ GROUNDWATER ELEVATION MEASUREMENTS

Well No.: F-3

Client: Nevada Goldfield

Site Name: McCormick Job No.: 7561.00

Date: 11-28-95 LWR submitted by: N/A

Sampling Personnel: WSB, SML

Site Personnel: N/A

Regulatory Personnel: N/A

Weather Conditions: Cloudy Temp.: 60's

Well Diameter: 2.0 in.

(A) Top of Well Elevation: N/A msl (yes/no)

(B) Depth to Immiscible Layer: N/A ft.

(C) Immiscible Layer Elevation: (A)-(B)= N/A msl (yes/no)

(D) Depth to Groundwater: 45.51 ft.

(E) Groundwater Elevation: (A)-(D)= N/A msl (yes/no)

(F) Total Well Depth = ~~71.19~~ 71.30 ft.

(G) Length of Water Column: (F)-(D)= 25.79 ft.

Casing Volume = (G) x Volume in gal./ft.= 4.2 gals.

Method of Well Evacuation Bail Start Time: 1055

Method of Sample Collection Bail Time: 1123

Chain-of-Custody Form Started (yes/no)

Source(s) of Well ID site map ID Label (yes/no)

Well Completion: Protective Casing (yes/no) Flush (yes/no)

Flush-Mount Cover Seal Intact (yes/no) Locking Cap (yes/no)

Locked at Arrival (yes/no) Departure (yes/no)

Well Casing (height above/depth below) ground: 2.5 ft.

Casing Type (PVC) (Steel) (Other)

Dedicated Pump or Bailer (yes/no) Type Teflon

Protective Post/Abutment (yes/no) Concrete Pad (yes/no)

Well Integrity Satisfactory (yes/no) If no, explain below.

Well Yield (low / moderate / high)

WELL VOLUME DATA

DIA. OF PIPE (in.)	VOLUME IN GAL./FT.
1.0	0.041
2.0	0.163
3.0	0.367
4.0	0.653
5.0	1.020
6.0	1.470

TO CONVERT GAL/FT TO LITERS/FT, MULTIPLY ABOVE FIGURES BY 3.8 LITERS/GALLON.

FIELD ANALYSES

	1st Volume	2nd Volume	3rd Volume	4th Volume	5th Volume
Volume Purged (gallons)		2v	3v		
Time (military)		1112	1118		
pH (S.U.)		5.1	5.1		
Sp. Cond. (umhos/cm)		57	55		
Water Temp. (°C)		19	18		
Odor (subjective)*		1	1		
Turbidity (subjective)**		4	4		

* (1)None (2)Slight (3)Moderate (4)Stronge

** (1)Clear (2)Slightly Turbid (3)Moderately Turbid (4)Very Turbid (5)Extremely Turbid

Comments/Observations/Recommendations:

FORM COMPLETED BY: [signature] (SIGNATURE)

DATE: 11-28-95

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FIELD DATA LOG FOR GROUNDWATER SAMPLE COLLECTION/ GROUNDWATER ELEVATION MEASUREMENTS

Well No.: GW-6

Client: Nevada Goldfields
Site Name: McCormick Job No.: 7561.00
Date: 11-28-95 LWR submitted by: N/A
Sampling Personnel: WSB, SML
Site Personnel: N/A
Regulatory Personnel: N/A
Weather Conditions: Cloudy Temp.: ↑ 50's
Well Diameter: 4.0 in.
(A) Top of Well Elevation: N/A msl (yes/no)
(B) Depth to Immiscible Layer: N/A ft.
(C) Immiscible Layer Elevation: (A)-(B)= N/A msl (yes/no)
(D) Depth to Groundwater: ~~28.40~~ 3.57 ft.
(E) Groundwater Elevation: (A)-(D)= N/A msl (yes/no)
(F) Total Well Depth = 28.40 ft.
(G) Length of Water Column: (F)-(D)= 24.83 ft.
Casing Volume = (G) x Volume in gal./ft.= 16.2 gals.
Method of Well Evacuation Blow Out Start Time: 1635
Method of Sample Collection Blow Out Time: 1135
Chain-of-Custody Form Started (yes/no)

Source(s) of Well ID site map ID Label (yes/no)
Well Completion: Protective Casing (yes/no) Flush (yes/no)
Flush-Mount Cover Seal Intact (yes/no) Locking Cap (yes/no)
Locked at Arrival (yes/no) Departure (yes/no)
Well Casing (height above/depth below) ground: 2.5 ft.
Casing Type (PVC) (Steel) (Other)
Dedicated Pump or Bailer (yes/no) Type Blowout
Protective Post/Abutment (yes/no) Concrete Pad (yes/no)
Well Integrity Satisfactory (yes/no) If no, explain below.
Well Yield (low / moderate / high)

WELL VOLUME DATA

DIA. OF PIPE (in.)	VOLUME IN GAL./Ft.
1.0	0.041
2.0	0.163
3.0	0.367
4.0	0.653
5.0	1.020
6.0	1.470

TO CONVERT GAL/FT TO LITERS/FT, MULTIPLY ABOVE FIGURES BY 3.8 LITERS/GALLON.

FIELD ANALYSES

	1st Volume	2nd Volume	3rd Volume	4th Volume	5th Volume
Volume Purged (gallons)	TD@1.5V.				
Time (military)	1135				
pH (S.U.)	7.0				
Sp. Cond. (umhos/cm)	273				
Water Temp. (°C)	20				
Odor (subjective)*	1				
Turbidity (subjective)**	1				

* (1)None (2)Slight (3)Moderate (4)Stronge
** (1)Clear (2)Slightly Turbid (3)Moderately Turbid (4)Very Turbid (5)Extremely Turbid

Comments/Observations/Recommendations:

FORM COMPLETED BY: [signature] (SIGNATURE)
DATE: 11-28-95

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FIELD DATA LOG FOR GROUNDWATER SAMPLE COLLECTION/ GROUNDWATER ELEVATION MEASUREMENTS

Well No.: B-2

Client: Nevada Goldfields
Site Name: McCormick Job No.: 7561.00
Date: 11.28.95 LWR submitted by: N/A
Sampling Personnel: WSB, SML
Site Personnel: N/A
Regulatory Personnel: N/A
Weather Conditions: Sunny Temp.: 70's
Well Diameter: 2.0 in.
(A) Top of Well Elevation: N/A msl (yes/no)
(B) Depth to Immiscible Layer: N/A ft.
(C) Immiscible Layer Elevation: (A)-(B)= N/A msl (yes/no)
(D) Depth to Groundwater: 22.30 ft.
(E) Groundwater Elevation: (A)-(D)= N/A msl (yes/no)
(F) Total Well Depth = 125.20 ft.
(G) Length of Water Column: (F)-(D)= 102.90 ft.
Casing Volume = (G) x Volume in gal./ft.= 16.8 gals.
Method of Well Evacuation Pump/Blowout Start Time: 1155
Method of Sample Collection Pump/Blowout Time: 1204
Chain-of-Custody Form Started (yes/no)

Source(s) of Well ID site map ID Label (yes/no)
Well Completion: Protective Casing (yes/no) Flush (yes/no)
Flush-Mount Cover Seal Intact (yes/no) Locking Cap (yes/no)
Locked at Arrival (yes/no) Departure (yes/no)
Well Casing (height above/depth below) ground: 4.0 ft.
Casing Type (PVC) (Steel) (Other)
Dedicated Pump or Bailer (yes/no) Type
Protective Post/Abutment (yes/no) Concrete Pad (yes/no)
Well Integrity Satisfactory (yes/no) If no, explain below.
Well Yield (low / moderate / high) ?

WELL VOLUME DATA

DIA. OF PIPE (in.)	VOLUME IN GAL./Ft.
1.0	0.041
2.0	0.163
3.0	0.367
4.0	0.653
5.0	1.020
6.0	1.470

TO CONVERT GAL/FT TO LITERS/FT, MULTIPLY ABOVE FIGURES BY 3.8 LITERS/GALLON.

FIELD ANALYSES

	1st Volume	2nd Volume	3rd Volume	4th Volume	5th Volume
Volume Purged (gallons)	TO @ IV				
Time (military)	1204				
pH (S.U.)	7.6				
Sp. Cond. (umhos/cm)	268				
Water Temp. (°C)	19				
Odor (subjective)*	2				
Turbidity (subjective)**	1				

* (1)None (2)Slight (3)Moderate (4)Stronge
** (1)Clear (2)Slightly Turbid (3)Moderately Turbid (4)Very Turbid (5)Extremely Turbid

Comments/Observations/Recommendations:

FORM COMPLETED BY: [signature] (SIGNATURE)
DATE: 11.28.95

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Well L2

LOCATION 19275.583, 7092.098

COLLAR ELEVATION - 462.221
DEPTH OF WELL - 81.91

DATE	8/7/92	8/25/92	11/23/92	duplicate 11/23/92	2/24/93	5/18/93	duplicate 5/18/93	8/17/93	11/15/93	2/14/94	duplicat 2/14/94	5/9/94	duplicate 5/9/94	8/8/94	11/30/94	5/30/95	11/27/95	MEAN "X"	Number of Assays	Std.Dev. "s"
DEPTH TO WATER	38	37.51	36.33		33.62	31.95		33.96	35.43	34.51		33.78		34.68	34.29	33	33.83			
WATER ELEVATION	424.221	424.711	425.891		428.601	430.271		428.261	426.791	427.711		428.441		427.541	427.931	409.445	408.615			
Silver	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.002	<0.010	<0.010	0	8	0
Aluminum	209	88.6	36.5	32.0	13.1	9.65	5.74	4.91	1.14	1.02	1.14	2.74	4.36	6.44	3.09	0.390	2.08	49.9375	8	69.95811
Barium	0.30	0.17	0.079	0.069	0.026	0.027	<0.020	0.022	0.006	<0.020	<0.020	<0.020	0.025	0.026	0.014	<0.020	<0.020	0.086625	8	0.101249
Calcium	67	57	50.0	49.2					43.5						44.7	45.3	44.3	55.8	4	8.247827
Cadmium	0.006	<0.005	0.0015	0.0011	<0.00100	<0.0050	<0.0050	<0.001	<0.001	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.001	<0.0050	<0.0050	0.001075	8	0.002077
Chromium	0.07	0.19	0.018	0.018	0.020	0.013	0.015	0.028	0.010	<0.010	<0.010	<0.010	0.012	<0.010	0.007	<0.010	<0.010	0.0465	8	0.060860
Copper	0.25	0.15	0.066	0.056	0.022	<0.020	0.021	0.017	0.005	<0.020	<0.020	0.014	0.023	0.030	0.010	<0.010	<0.010	0.07275	8	0.085661
Copper (Dissolved)														0.003		0.017	<0.010			
Iron	160	91.7	43.4	39.2	13.1	7.65	6.08	7.19	2.02	1.69	1.78	3.32	7.57	7.9	3.91	0.449	2.7	46.04	8	54.49827
Potassium	4	<2	1.18	0.963					<0.4						0.474	<2.0	<2.0	1.53575	4	1.721012
Magnesium	38	29	22.0	21.4					16.6						17.2	16.2	16.7	27.6	4	7.744245
Manganese	12.70	7.35	3.57	3.10					0.106						0.291	0.021	0.137	6.68	4	4.441388
Sodium	24	29	22.2	22.3					20.9						21.7	22.4	19.7	24.375	4	3.192047
Nickel	0.06	0.05	0.028	0.023	0.011	<0.020	<0.020	0.016	0.011	<0.020	<0.020	<0.020	0.040	<0.020	0.012	<0.020	<0.020	0.0235	8	0.021947
Zinc	0.23	0.18	0.074	0.061	0.028	0.073	0.123	0.051	0.017	0.105	0.073	0.021	0.151	0.029	0.038	<0.020	<0.020	0.1025	8	0.069989
Mercury	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0	8	0
Arsenic	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0	8	0
Lead	0.028	0.028	0.009	0.008	<0.005	0.006	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.009875	8	0.011764
Selenium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0	8	0
TOC	2	<1	2	7	1	1	2	2	2.4	1.5	1.2	1.5	1.2	1.2	2.1	2.0	1.3	2.125	8	2.100170
Alkalinity	146	138	138	139					146						135	130	124	140.25	4	3.862210
Chloride	73	77	75	75	80	81	81	79	81.0	81.9	80.2	80.6	80.7	74.2	80.1	82.6	77.3	77.625	8	3.067688
Fluoride	0.9	0.5	0.2	0.2					0.18						0.12	<0.10	<0.10	0.45	4	0.331662
pH (Lab)	6.96	6.81						6.9	6.9	6.6	6.5	6.7	6.7	6.9		6.6	7	6.89	3	0.075498
pH (Field)	6.84	6.12	6.79		6.32	6.46		6.67	6.25	6.35		6.59		6.47	6.69	6.6	6.8	6.533333	6	0.282960
Sulfate	<60	<30	<12	<6	<6	<6	<3		3.4	3.5	4.0	5.6	14	<6.0	4.2	4.6	4.79	0	7	0
Spec. Cond.	493	504	510		511	504		496	498	515		470		628	457	517	526	503	6	7.266360
Temperature	17	18	16		13	20		18	18.8	17.2		19.1		19.5	14.5	19	17	17	6	2.366431
Ammonia N	0.40	0.3	<0.1	0.1					0.20						<0.10	<0.10	0.13	0.2	4	0.182574
Nitrite N					<0.05										<0.050	<0.050	<0.10	0	1	ERR
Nitrate N	0.29	0.37	0.42	0.43	0.36	0.38	0.37	0.34	0.363	0.380	0.375	0.359	0.558	0.341	0.366	0.325	0.3	0.37	8	0.044077
Cyanide (total)	<0.005	<0.005	<0.050	<0.100	<0.006	<0.006	<0.006	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0	8	0
TDS	657	485	481	488	363	326	377	363	325	314	304	295	292	350	322	389	438	442.5	8	108.1480
TSS														171						

Well O

LOCATION 18758.548, 6704.178

COLLAR ELEVATION - 442.445
DEPTH OF WELL - 28.62

DATE	1/22/92	2/28/92	5/14/92	8/25/92	11/23/92	2/24/93	5/18/93	8/17/93	11/15/93	2/14/94	5/9/94	8/8/94	11/30/94	5/30/95	11/27/95
DEPTH TO WATER	26.42	23.16	23.25	23.32	22.34	20.03	20.05	21.16	22.56	20.56	21.16	21.59	21.07	21.35	20.94
WATER ELEVATION	416.025	419.285	419.195	419.125	420.105	422.415	422.395	421.285	419.885	421.885	421.285	420.855	421.375	421.095	421.505
Silver	<0.010	<0.010	<0.010	<0.01	<0.01	<0.01	<0.01	<0.01	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Aluminum	0.9	1.2	1.4	2.8	12.5	15.4	21.2	17.1	11.5	15.4	10.1	2.54	13.7	2.28	12.7
Barium	0.03	0.02	0.03	0.03	0.079	0.099	0.325	0.093	0.083	0.148	0.089	<0.020	0.090	0.094	0.112
Calcium	33.9	29.5	28	31	36.0				33.3				34.9	37.2	39.3
Cadmium	<0.005	<0.005	<0.005	<0.005	<0.00100	0.0011	<0.00100	<0.001	0.0010	<0.0050	<0.0050	<0.0050	<0.001	<0.0050	<0.0050
Chromium	<0.01	<0.01	<0.01	<0.01	0.007	0.008	0.009	0.009	0.006	0.012	<0.010	<0.010	0.007	<0.010	<0.010
Copper	<0.02	<0.02	<0.01	<0.02	0.0040	<0.0040	0.023	0.009	0.008	<0.020	0.013	0.012	0.007	<0.010	<0.010
Copper (Dissolved)												0.003		<0.010	<0.010
Iron	1.18	1.48	2.1	3.6	18.7	19.5	10.0	23.6	18.9	24.9	13.8	16.6	20.3	3.34	19
Potassium	4	2	2	<2	2.62				2.17				2.22	<2.0	2.72
Magnesium	15.1	15.4	16	18	24.0				24.1				23.9	21.1	25
Manganese	0.10	0.08	0.06	0.11	0.612				0.664				0.699	0.133	0.753
Sodium	26	24	26.00	26	26.9				24.7				26.0	27.0	25.3
Nickel	<0.02	<0.02	<0.02	<0.02	0.006	0.006	0.004	0.012	0.007	<0.020	<0.020	<0.020	0.007	<0.020	<0.020
Zinc	0.02	<0.02	0.02	0.04	0.092	0.098	0.094	0.181	0.111		0.356	0.087	0.106	0.035	0.114
Mercury	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Arsenic	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Lead	0.013	0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0054
Selenium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.020	<0.005	<0.005	<0.0050	<0.010	<0.0050	<0.0050	<0.020	<0.0100	<0.0050
TOC		2	1	2	3	2	5	2	2.1	2.2	2.4	2.8	1.6	2.0	1.8
Alkalinity		129	134	140	140				141				130	127	126
Chloride	60	60	58	57	55	60	62	60	59.1	61.9	61.7	60.4	63.0	70.0	72
Fluoride	0.2	0.5	0.2	0.2	0.3				0.29				0.19	0.18	0.18
pH (Lab)	7.27	7.14	6.92	6.94				6.8	6.7	6.4	6.8	6.9		6.5	7.2
pH (Field)		6.93	6.83	7.24	7.04	6.56	6.44	6.64	6.26	6.23	6.53	6.39	6.74	6.6	6.8
Sulfate X	11	3	<3	<3	<6	<3	<6	<3	<6.0	<6.0	<12	<15	<6.0	17.9	21.1
Spec. Cond.	201	433	440	253	451	443	467	448	446	439	439	257	396	503	613
Temperature	13	15.5	16.7	18	16	14	17	17	19.6	15.6	18.4	19.5	16.1	18	18
Ammonia N		0.13	<0.1	0.2	0.4				<0.10				0.16	<0.10	<0.10
Nitrite N	<0.05					<0.05							<0.050	<0.050	<0.10
Nitrate N		0.35	0.37	0.41	0.44	0.31	0.27	0.26	0.200	0.174	0.257	0.350	0.329	0.211	<0.10
Cyanide (total)		<0.005	<0.005	<0.005	<0.010	<0.006	<0.006	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
TDS	222	258	267	294	252	269	303	297	275	268	258	267	283	348	431
TSS												875			

N

LOCATION 18757.420, 6358.792

COLLAR ELEVATION - 433.935
DEPTH OF WELL - 27.07

DATE	1/14/92	1/22/92	2/27/92	5/14/92	8/25/92	11/23/92	2/24/93	5/18/93	8/17/03	11/15/93	2/14/94	5/9/94	8/8/94	12/8/94	5/30/95	11/27/95
DEPTH TO WATER	16.43	16.14	15.07	15.39	15.4	14.09	12.17	16.53	14.3	14.46	12.44	13.28	13.70	12.94	13.75	13.11
WATER ELEVATION	417.505	417.795	418.865	418.545	418.535	419.845	421.765	417.405	419.635	419.475	421.495	420.655	420.235	420.995	420.185	420.825
Silver	<0.010	<0.010	<0.010	<0.010	<0.01	<0.01	<0.01	<0.01	<0.01	<0.010	<0.010	<0.010	<0.020	<0.010	<0.010	<0.010
Aluminum	35.1	48.1	38.8	24.0	25.1	19.9	24.5	33.3	53.1	18.4	17.7	38.2	36.6	38.2	5.00	20.3
Barium	0.09	0.11	0.11	0.07	0.05	0.045	0.049	0.086	0.120	0.047	0.047	0.096	0.087	0.075	<0.020	0.048
Calcium	36.8	31.4	31.0	30	31	29.6				26.9				34.6	32.3	34.2
Cadmium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.00100	<0.00100	<0.0050	<0.001	0.0014	<0.0050	<0.0050	<0.0050	0.0018	<0.0050	<0.0050
Chromium	0.04	0.04	0.05	0.02	0.03	0.017	0.024	0.034	0.037	0.016	0.026	0.045	0.047	0.041	<0.010	0.02
Copper	0.03	0.03	0.05	0.02	<0.02	0.015	0.016	0.038	0.043	0.020	0.024	0.053	0.038	0.035	<0.010	0.22
Copper (Dissolved)													0.003		0.019	<0.010
Iron	45.8	61.4	41.2	27	29.4	20.3	24.2	39.5	56.9	21.7	23.3	47.8	47.8	41.5	5.54	24.2
Potassium	7	4	5	2	2	2.90				1.57				2.16	<2.0	<2.0
Magnesium	42.0	48.1	34.0	34	34	31.4				31.1				41.6	29.9	37.9
Manganese	2.01	2.74	2.60	1.58	1.27	0.833				1.27				1.89	0.262	1.26
Sodium	48	44	36.00	45.00	50.00	49.8				44.2				48.4	48.7	49.6
Nickel	0.02	0.02	0.02	<0.02	<0.02	0.007	0.007	0.085	0.031	0.009	<0.020	<0.020	0.02	0.013	<0.020	<0.020
Zinc	0.33	0.44	0.30	0.20	0.17	0.165	0.154	1.44	0.544	0.157	0.168	0.344	0.305	0.241	0.075	0.232
Mercury	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Arsenic	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Lead	0.019	0.006	0.010	<0.005	0.006	<0.005	<0.005	<0.005	<0.005	<0.0050	<0.0050	0.0068	0.0114	0.0112	<0.0050	<0.0050
Selenium	<0.005	<0.025	<0.025	<0.020	<0.005	<0.005	<0.005	<0.040	<0.005	<0.0050	<0.0050	<0.020	<0.0050	<0.0050	<0.0100	<0.0050
TOC	2	2	2	1	1	5	2	2	2	2.2	1.6	1.8	2.2	1.6	1.8	1.7
Alkalinity	201	206	214	196	204	205				196				187	178	168
Chloride	50	65	51	55	58	53	59	69	68	62.0	64.3	66.5	68.4	72.0	78.3	72
Fluoride	0.4	0.8		0.3	0.4	0.4				0.87		0.9	0.52	0.21	0.22	0.18
pH (Lab)	7.28	7.35	7.23	7.07	7.07				6.9	7.0	6.8	6.9	6.7	6.9	6.7	7.2
pH (Field)			7.31	6.95	7.04	7.01	6.9	7.01	6.75	6.41	6.27	6.52	6.61	6.98	6.9	6.8
Sulfate X	<12	<75	8	<12	<12	<6	<12	7	<30	<15	<12	<60	<30	<12	20.4	21.1
Spec. Cond.	500	247	468	528	554	543	548	619	581	533	530	514	539	546	662	613
Temperature		13	15	15.6	18	17	12	20	18	19.8	13.6	16.9	20.5	16.5	18	18
Ammonia N	0.25	0.14	0.15	0.3	0.2	0.1				<0.10				<0.10	<0.10	<0.10
Nitrite N	<0.05	<0.10	<0.05				<0.05							<0.050	<0.050	<0.10
Nitrate N	<0.10	<0.10	<0.2	<0.05	<0.05	0.06	<0.05	<0.05	<0.05	<0.25	<0.050	<0.050	0.055	0.374	0.134	<0.10
Cyanide (total)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.006	<0.006	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.005	<0.0050	<0.0050
TDS	283	274	1152	299	336	286	366	234	337	302	306	300	314	312	407	431
TSS													1270			

GW-5

LOCATION 18774.200, 6890.800

COLLAR ELEVATION - 432.600
DEPTH OF WELL - 37.8ft

DATE	3/27/91	6/28/91	9/19/91	12/19/91	2/27/92	duplicat 2/27/92	5/14/92	8/25/92	11/23/92	2/24/93	5/18/93	8/17/93	8/17/93 duplicate	11/15/93	2/14/94	5/9/94	8/8/94	8/8/94 duplicate	12/8/94	5/30/95	11/27/95
DEPTH TO WATER	12.89	12.6	13.69	15.22	13.37		13.99	13.92	12.6	10.39	10.86	13.32		13.67	10.98	12.37	12.79		11.52	12.34	11.72
WATER ELEVATION	419.71	420	418.91	417.38	419.23		418.61	418.68	420	422.21	421.74	419.28		418.93	421.62	420.23	419.81		421.08	420.26	420.88
Silver	<0.01	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.010	<0.010	<0.010	<0.020	<0.020	<0.010	<0.010	<0.010
Aluminum	6.8	4.3	3.1	125	58.1	120	26.3	43.4	63.1	26.8	34.2	20.0	19.7	17.0	53.2	37.4	34.1	61.8	89.2	20.5	12.5
Barium	<0.02	0.03	0.03	0.46	0.29	0.44	0.12	0.16	0.264	0.121	0.167	0.098	0.093	0.078	0.240	0.178	0.167	0.255	0.934	0.107	0.097
Calcium	13.0	27.8	28.1	64.7	45.7	74.7	34	40	51.0					30.0					59.4	38.8	44.2
Cadmium	<0.002	<0.005	<0.005	0.005	<0.005	<0.005	<0.005	<0.005	0.0027	0.0014	<0.0050	<0.001	<0.001	<0.001	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Chromium	<0.01	<0.01	<0.01	0.32	0.17	0.3	0.07	0.10	0.168	0.063	0.098	0.057	0.054	0.044	0.165	0.111	0.098	0.161	0.217	0.054	0.031
Copper	0.02	0.04	<0.02	0.22	0.11	0.2	0.05	0.07	0.125	0.046	0.081	0.040	0.044	0.038	0.141	0.095	0.086	0.132	0.182	0.047	0.032
Copper (Dissolved)																	0.004	0.002		0.021	<0.010
Iron	8.64	5.23	3.76	185	92.6	162	39.8	56.6	99.1	33.6	51.4	26.0	28.5	24.8	90.6	61.1	54.0	89.7	131	30.7	19.5
Potassium	<2	<2	<2	6	3	6	2	2	2.85					1.08					3.25	<2.0	<2.0
Magnesium	15.9	19.3	20.1	97.2	58.6	86.1	34	38	56.9					26.0					71.4	32.7	36.5
Manganese	0.61	0.55	0.65	4.86	3.01	4.11	1.30	1.56	2.68					0.814					3.23	1.13	1.9
Sodium	8	28	30	25	20	28	26	28	26.4					21.9					281.0	30.0	41.4
Nickel	<0.02	0.03	<0.02	0.11	0.06	0.10	0.02	0.03	0.059	0.022	0.027	0.032	0.021	0.017	0.065	0.037	0.037	0.056	0.074	0.022	<0.020
Zinc	0.12	0.15	<0.02	0.66	0.43	0.57	0.14	0.19	0.351	0.126	0.245	0.163	0.107	0.090	0.354	0.236	0.185	0.286	0.378	0.115	0.122
Mercury	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Arsenic	<0.005	<0.02	<0.005	<0.025	<0.005	<0.025	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Lead	0.005	0.014	<0.005	<0.026	0.025	0.028	<0.005	0.015	0.016	0.022	0.010	0.006	0.006	<0.005	0.0122	0.0107	0.0086	0.0108	0.0183	0.0064	<0.0050
Selenium	<0.005	<0.005	<0.005	<0.10	<0.025	<0.025	<0.005	<0.005	<0.005	<0.010	<0.025	<0.005	<0.005	<0.005	<0.005	<0.020	<0.0050	<0.0050	<0.0050	<0.0100	<0.0050
TOC	2	2	1	2	2	2	1	1	3	2	1	1	2	1.2	1.3	1.8	1.5	1.8	<1.0	1.8	2.1
Alkalinity	65.1	173.3	173	165	168	170	153	154	152					156					181	158	234
Chloride	4	41	41	60	38	44	38	36	35	38	43	45	45	44.9	44.1	44.8	44.1	44.8	48.9	47.7	37.9
Fluoride					0.2	2.5	1	0.2	0.7					0.44					0.13	0.27	0.18
pH (Lab)	6.7	6.73	6.85	6.47	6.94	6.87	6.72	6.85				7.0	7.1	7.0	6.5	6.9	6.8	6.9	6.8	6.8	7.3
pH (Field)					6.89	6.88	6.82	6.10	6.64	6.35	6.62	6.66		6.42	6.33	6.54	6.50	6.54	6.98	6.8	7
Sulfate	22	<12	3	<30	6	<3	<30	<3	<30	<30	<30	<12	<12	<6.0	<15	<15	<30	<30	<30	<12	12
Spec. Cond.	180	395	355	407	374	376	376	399	399	424	424	411		408	447	427	240	249	426	476	604
Temperature	23	22.5		19	15.5	15.5	17.8	18	18	15	17	17		19.6	17.2	17.8	18.5	18.5	16.7	17	19
Ammonia N	0.38	0.34		0.15	0.13	<0.1	<0.1	0.2	0.1					0.21					0.34	<0.10	0.42
Nitrite N			<0.05	<0.05						<0.05									<0.050	<0.050	0.1
Nitrate N	<0.05	<0.05	0.09	0.11	<0.05	<0.05	0.11	0.08	0.14	<0.05	0.11	0.09	0.11	<0.050	<0.10	0.258	0.125	0.117	0.125	0.140	0.12
Cyanide (total)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.006	<0.006	<0.005	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
TDS	185	251	154	237	264	264	257	265	234	256	334	261	246	219	267	248	244	194	287	314	422
TSS																	1240	2240			

03

LOCATION 19506.650, 7324.42

COLLAR ELEVATION - 470.391
DEPTH OF WELL - 79ft

DATE	8/28/91	9/12/91	2/27/92	5/14/92	8/25/92	11/23/92	2/24/93	5/19/93	8/17/93	11/16/93	2/14/94	5/9/94	8/8/94	11/30/94	duplicate	5/30/95	11/27/95	11/27/95 dup
DEPTH TO WATER	37.54	37.6	41.06	40.24	41.11	39.8	36.72	34.5	36.88	39.05	38.15	37.08	38.39	37.9		37.85	37.2	
WATER ELEVATION	432.851	432.791	429.331	430.151	429.281	430.591	433.671	435.891	433.511	431.341	432.241	433.311	432.001	432.491		432.541	433.191	
Silver	0.014	0.061	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.010	<0.010	<0.010	<0.010	<0.002	<0.002	<0.010	<0.010	<0.010
Aluminum	158	62	4.1	1.0	1.6	0.509	0.438	0.351	0.091	0.360	0.926	0.811	2.54	0.644	1.02	0.862	0.135	0.276
Barium	0.21	0.42	<0.02	<0.02	<0.02	0.004	0.007	<0.0040	<0.004	0.008	<0.020	<0.020	<0.020	0.004	0.005	<0.020	<0.020	0.024
Calcium	85.0		36.2	33	35	33.5				32.7				33.3	32.3	34.7	46.7	63.1
Cadmium	0.007	<0.005	<0.005	<0.005	<0.005	<0.00100	<0.00100	<0.00100	<0.001	<0.001	<0.0050	<0.0050	<0.0050	<0.001	<0.001	<0.0050	<0.0050	<0.0050
Chromium	0.04	<0.01	<0.01	<0.01	<0.01	<0.0020	<0.0020	<0.0020	<0.002	<0.002	<0.010	<0.010	<0.010	<0.002	<0.002	<0.010	<0.010	<0.010
Copper	0.13	0.81	<0.02	<0.01	<0.02	<0.0040	<0.0040	<0.0040	<0.004	<0.004	<0.020	<0.010	0.008	<0.004	<0.004	<0.010	<0.010	<0.010
Copper (Dissolved)													<0.002			<0.010	<0.010	<0.010
Iron	208	81	5.94	1.2	2.4	0.723	0.638	0.491	0.194	0.830	1.35	1.18	4.05	1.04	1.67	1.10	0.409	0.822
Potassium	6	3	<2	<2	<2	0.454				<0.4				0.528	0.428	<2.0	4.61	7.53
Magnesium	87	0.85	15.2	13	14	12.9				13.2				13.1	12.8	13.1	7.99	8
Manganese	7	0.18	0.53	0.24	0.41	0.202				0.108				0.157	0.217	0.100	0.289	0.444
Sodium	18	10	19	20	21	20.4				20.1				20.7	19.9	22.0	24.8	31.4
Nickel	0.19	<0.02	0.04	<0.02	0.03	0.023	0.020	0.015	0.021	0.015	0.020	<0.020	0.030	0.015	0.016	<0.020	<0.020	<0.020
Zinc	0.81	0.23	0.04	<0.02	<0.02	0.010	0.014	0.076	0.042	0.019	0.021	<0.020	0.059	0.017	0.013	0.025	0.033	0.044
Mercury	0.0002	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Arsenic	<0.020	<0.020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.01	<0.0050	<0.0050	<0.0050
Lead	0.025	0.094	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.01	<0.0050	<0.0050	0.0083
Selenium	<0.10	<0.020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.01	<0.0050	<0.0050	<0.0050
TOC	1	2	1	1	<1	3	2	2	3	1.9	5.8	3.0	3.3	1.8	3.3	1.1	8.8	8.4
Alkalinity	127	11	129	123	124	127				132				127	126	121	142	186
Chloride	44	5	51	49	47	46	46	46	48	50.9	52.1	50.2	50.1	52.1	52.2	52.2	35.3	34
Fluoride	0.75	0.2	1.2	<0.1	0.1	0.1				0.16				0.10	0.13	0.12	0.27	0.41
pH (Lab)	6.85	5.91	6.64	6.67	6.68				6.8	6.8	6.7	6.8	6.8			6.3	8.2	8.6
pH (Field)			6.68	6.54	5.89	6.60	6.71	6.45	6.43	6.49	6.22		6.34	6.62	6.62	6.5	9.6	9.6
Sulfate	<3	<15	<3	3	<3	<3	<3	<3	<3	<3.0	5.0	4.2	<3.0	<3.0	<3.0	3.1	15.1	26.5
Spec. Cond.	350	45	348.5	354	394	391	376	384	386	400	400	391	219	361	361	403	426	426
Temperature	21	7	16	18.3	18	16	13.5	17	16	17.8	16.6	18.7	17.4	15.1	15.1	19	18	18
Ammonia N	1.4	0.35	0.27	<0.1	0.2	<0.1				<0.10				<0.10	<0.10	0.13	0.31	0.28
Nitrite N	<0.05	<0.05					<0.05							<0.050	<0.050	<0.050	<0.10	<0.10
Nitrate N	0.15	0.08	0.06	0.14	0.12	0.14	<0.05	0.33	0.13	0.138	0.141	0.331	0.143	0.170	0.150	0.140	<0.10	<0.10
Cyanide (total)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.006	<0.006	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
TDS	116	260	259	260	274	224	236	525	230	241	252	231	200	232	239	298	329	305
TSS													88					

DHEC MONITOR WELLS
QUARTERLY REPORTS

A3 UPGRADIENT

LOCATION 20242.910, 6753.730

COLLAR ELEVATION - 486.100
DEPTH OF WELL - 70ft

DATE	8/28/91	9/12/91	2/27/92	5/14/92	8/25/92	11/23/92	2/24/93	5/19/93	8/17/93	11/15/93	2/14/94	5/9/94	8/8/94	11/30/94	5/30/95	11/27/95
DEPTH TO WATER	46.27	46.18	50.82	52.21	52.65	49.89	46.06	43.14	44.22	46.91	48.06	49.08	50.93	49.64	47.72	48.33
WATER ELEVATION	439.83	439.92	435.28	433.89	433.45	436.21	440.04	442.96	441.88	439.19	438.04	437.02	435.17	436.46	438.38	437.77
Silver	<0.01	<0.010	<0.010	<0.010	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.010	<0.010	<0.002	<0.010	<0.010
Aluminum	51	71	16.6	1.9	2.6	2.63	1.16	1.19	0.236	0.501	0.247	4.04	8.17	0.307	0.143	0.195
Barium	0.53	0.11	0.23	0.11	0.10	0.098	0.129	0.149	0.100	0.130	0.144	0.197	0.274	0.135	0.136	0.133
Calcium	4		0.6	<1	<1	0.272				0.262				<0.2	<1.0	<1.0
Cadmium	0.006	<0.005	<0.005	<0.005	<0.005	<0.001	<0.00100	<0.00100	<0.001	<0.001	<0.0050	<0.0050	<0.0050	<0.001	<0.0050	<0.0050
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<0.0020	<0.0020	<0.002	<0.002	<0.010	<0.010	<0.010	<0.002	<0.010	<0.010
Copper	1	0.06	0.28	0.07	0.04	0.060	0.042	0.042	0.016	0.034	0.031	0.101	0.245	0.021	0.016	0.016
Copper (Dissolved)													0.015		0.020	0.013
Iron	128	95	28.2	5.9	3.0	5.13	2.29	2.11	0.425	1.57	0.609	8.25	20.9	0.671	0.139	0.305
Potassium	3	<2	2	<2	<2	<0.40				<0.4				<0.4	<2.0	<2.0
Magnesium	1	50	0.38	<1	<1	<0.20				<0.2				<0.2	<1.0	<1.0
Manganese	0.31	3	0.06	0.02	0.01	0.018				0.009				0.003	<0.010	<0.010
Sodium	9	24	8	9	10	11.3				5.45				3.13	3.56	3.45
Nickel	<0.02	0.10	<0.02	<0.02	<0.02	<0.0040	<0.0040	<0.0040	0.017	<0.004	<0.020	<0.020	<0.020	<0.004	<0.020	<0.020
Zinc	0.34	0.38	0.09	0.06	<0.02	0.021	0.020	0.038	0.086	0.027	0.056	0.044	0.061	0.016	<0.020	0.022
Mercury	0.0005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Arsenic	<0.005	<0.024	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050
Lead	0.076	0.013	0.020	<0.005	0.009	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0089	0.0148	<0.0050	<0.0050	<0.0050
Selenium	<0.05	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050
TOC	1	<1	1	2	1	3	1	3	3	1.4	1.6	3.6	2.1	1.2	1.1	1
Alkalinity	14	128	11	12	7.4	11.6				2.8				<1.0	<1.0	<1.0
Chloride	5	45	5	5	5	5	5	5	5	4.1	4.0	3.6	3.6	3.7	3.7	3.68
Fluoride	0.20	0.60		0.1	<0.1	0.1				0.15				<0.10	<0.10	<0.10
pH (Lab)	5.64	7.08	5.40	5.46	5.75				5.4	5.3	5.0	5.1	5.3		4.8	5.2
pH (Field)			5.40	5.56	5.17	5.27	4.64	4.54	4.81	4.94	4.6	5.16	4.77	4.81	4.7	4.2
Sulfate	7	<12	4	5	4	4	<3	<3	4	<3.0	<3.0	<15	<12	<3.0	<3.0	1.17
Spec. Cond.	40	310	50	53	61	65	43	41	45	45	46	36	17	30	28	27
Temperature	21	8	16.1	18.9	18	16	15	18	19	19.3	16.3	16.4	18.4	14.2	19	18
Ammonia N	0.1	0.35	<0.1	<0.1	0.2	<0.1				<0.10				0.16	<0.10	<0.10
Nitrite N	<0.05	<0.05	<0.05				<0.05							<0.050	<0.050	<0.10
Nitrate N	0.30	0.23	0.25	0.28	0.27	0.29	0.32	0.34	0.27	0.293	0.308	0.485	0.279	0.283	0.229	0.2
Cyanide (total)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.020	<0.006	<0.006	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
TDS	116	38	56	42	58	33	17	57	24	32	29	27	50	41	51	69
TSS													1160			

F3 UPGRADIENT

LOCATION 19505.880, 5619.790

COLLAR ELEVATION - 482.263
DEPTH OF WELL - 75ft

DATE	8/14/91	8/22/91	2/27/92	5/14/92	8/25/92	duplicate 8/25/92	11/23/92	2/24/93	5/19/93	8/17/93	11/16/93	duplicate 11/16/93	2/14/94	5/9/94	8/8/94	11/30/94	5/30/95	11/28/95
DEPTH TO WATER	38.61	38.82	45.18	53.96	53.19		51.66	48.67	47.22	48.15	47.98		47.45	49.36	48.12	44.79	44.15	45.51
WATER ELEVATION	443.653	443.443	437.083	428.303	429.073		430.603	433.593	435.043	434.113	434.283		434.813	432.903	434.143	437.473	438.113	436.753
Silver	<0.010	<0.010	<0.010	0.04	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.010	<0.010	<0.010	<0.010	<0.010	<0.002	<0.010	<0.010
Aluminum	18.2	15	10.9	23.0	20.4	7.1	23.8	8.7	3.74	2.72	2.70	2.03	14.8	7.1	2.84	6.02	4.81	11.4
Barium	0.17	0.17	0.15	0.29	0.22	0.13	0.238	0.141	0.115	0.106	0.118	0.117	0.199	0.133	0.110	0.105	0.117	0.157
Calcium	8.4	13	5.9	11	11	11	17.4				3.41	1.87				1.60	<1.0	5.2
Cadmium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0021	0.0011	<0.00200	<0.001	<0.0010	<0.001	<0.0050	<0.0050	<0.0050	<0.001	<0.0050	<0.0050
Chromium	<0.01	0.01	<0.01	0.01	<0.01	<0.01	0.011	0.007	0.002	0.003	0.002	<0.002	0.011	<0.010	<0.010	0.002	<0.010	<0.010
Copper	0.14	0.11	0.08	0.28	0.12	0.08	0.193	0.085	0.035	0.026	0.042	0.040	0.335	0.071	0.050	0.062	0.066	0.192
Copper (Dissolved)															0.003		0.022	<0.010
Iron	22.9	28	17.4	78.30	35.0	20.8	51.6	22.1	8.94	5.25	9.27	8.24	76.5	18.5	10.6	15.6	14.0	52.5
Potassium	3	<2	<2	<2	<2	<2	0.965				0.409	0.455				0.592	<2.0	<2.0
Magnesium	1.24	2	1.23	2	2	2	1.71				1.12	1.06				0.836	<1.0	1.47
Manganese	0.05	0.07	0.04	0.08	0.06	0.05	0.059				0.025	0.024				0.024	0.026	0.039
Sodium	19	15	9	12	13	13	14.6				6.78	6.56				9.70	11.7	7.29
Nickel	0.03	<0.02	<0.02	<0.02	<0.02	<0.02	0.004	<0.0040	<0.0040	0.005	<0.0040	<0.004	<0.020	<0.020	<0.020	<0.004	<0.020	<0.020
Zinc	0.21	0.12	0.08	0.12	0.08	0.06	0.082	0.058	0.112	0.052	0.034	0.045	0.097	0.055	0.043	0.036	0.051	0.103
Mercury	<0.0002	<0.0002	0.0002	0.0003	0.0003	0.0005	0.0003	0.0003	<0.0002	<0.0002	0.00076	0.00083	0.00083	0.00073	0.00066	0.00047	0.00052	0.00051
Arsenic	<0.005	0.012	<0.005	<0.005	<0.005	<0.003	<0.005	<0.005	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Lead	0.026	0.038	0.018	0.12	0.079	0.033	0.079	0.040	0.007	0.015	0.0198	<0.0050	0.0327	0.0169	0.0061	0.0196	0.0173	0.0191
Selenium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
TOC	2	<1	2	1	<1	<1	3	3	4	2	5.4	9.6	2.4	1.4	4.5	2.4	1.9	1.4
Alkalinity	47	53	21	24	47	26	47.2				9.9	11.0				15.8	8.6	11
Chloride	7	6	7	7	7	7	8	7	8	7	5.9	6.0	5.9	5.4	7.4	7.3	7.1	5.23
Fluoride	0.2	<0.1		0.3	0.2	0.2	0.3				<0.10	0.11				0.10	0.11	<0.10
pH (Lab)	6.3	6.19		6.01	6.36	6.16				5.9	6.0	5.9	5.6	5.9	6.2		5.9	5.7
pH (Field)			5.62	5.82	5.47	5.47	5.65	5.58	5.26	5.45	5.44		5.28	6.57	5.22	6.68	5.3	5.1
Sulfate X	12	16	10	<12	<12	8	<12	8	9	8	4.7	5.9	<15	7.4	<15	9.6	5.9	8.24
Spec. Cond.	155	110	83	85	121	121	118	94	101	71	63		68	65	37	70	74	55
Temperature			15.5	20	18	18	16	15	17	22	19.2		16.2	20.5	17.8	15.1	19	18
Ammonia N	0.25	0.13	0.13	<0.1	0.3	0.1	<0.1				<0.10	<0.10				<0.10	<0.10	<0.10
Nitrite N	<0.05	<0.05	<0.05					<0.05								<0.050	<0.050	<0.10
Nitrate N	0.12	0.17	0.15	0.17	0.15	0.17	0.17	0.18	0.19	0.19	0.183	0.189	0.127	0.334	0.190	0.194	0.178	0.26
Cyanide (total)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.006	<0.006	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
TDS	246	20	88	86	113	106	100	51	74	57	48	36	59	40	60	46	71	76
TSS															892			

GW-6

LOCATION 18937.500, 6179.100

COLLAR ELEVATION - 425.900
DEPTH OF WELL - 28.4ft

DATE	3/27/91	6/28/91	9/19/91	12/19/91	2/28/92	5/14/92	8/25/92	11/23/92	2/24/93	5/18/93	8/17/93	11/15/93	2/14/94	5/9/94	8/8/94	12/8/94	5/30/95	11/28/95
DEPTH TO WATER	2.6	2.4	4.79	6.42	5.33	6.29	4.97	3.96	2.54	2.42	2.95	3.39	2.6	19.08	3.19	2.81	3.40	3.57
WATER ELEVATION	423.3	423.5	421.11	419.48	420.57	419.61	420.93	421.94	423.36	423.48	422.95	422.51	423.3	406.82	422.71	423.09	422.50	422.33
Silver	<0.01	<0.010	<0.010	<0.010	<0.010	<0.010	<0.01	<0.01	<0.01	<0.01	<0.01	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Aluminum	1.2	1.8	1.5	0.6	2.6	1.8	0.5	2.16	0.655	0.911	0.296	1.20	0.824	0.139	0.282	0.486	2.23	0.262
Barium	0.03	0.03	0.05	0.04	0.03	0.05	0.04	0.055	0.026	0.035	0.041	0.049	0.032	0.021	0.039	0.022	0.049	0.022
Calcium	18.1	21.7	21.6	22.5	18.7	22	22	20.3				17.4				16.6	17.7	15.9
Cadmium	<0.002	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0011	<0.00100	<0.00100	<0.001	<0.001	0.0050	<0.0050	<0.0050	<0.001	<0.0050	<0.0050
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.003	<0.0020	0.002	<0.002	<0.002	<0.010	<0.010	<0.010	<0.002	<0.010	<0.010
Copper	<0.02	0.02	0.03	<0.01	0.02	<0.01	<0.02	0.007	<0.0040	0.004	<0.004	0.006	<0.020	<0.010	0.006	<0.004	<0.010	<0.010
Copper (Dissolved)															<0.002		0.015	<0.010
Iron	1.02	1.59	1.06	0.59	2.23	1.2	0.4	2.12	0.558	0.892	0.311	1.51	1.29	0.171	0.405	0.514	2.77	0.277
Potassium	<2	2	<2	<2	<2	<2	<2	1.35				1.18				0.874	<2.0	<2.0
Magnesium	10.2	11.5	11.8	11.9	10.1	12	12	10.9				9.93				8.99	9.65	8.51
Manganese	0.22	0.32	1.38	0.96	0.53	1.16	1.21	1.11				1.41				0.356	1.19	0.277
Sodium	26	29	31	30	22	27	30	28.4				26.0				25.4	24.7	25.6
Nickel	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.0040	<0.0040	<0.0040	0.005	<0.004	<0.020	<0.020	<0.020	<0.004	<0.020	<0.020
Zinc	<0.02	0.11	0.08	<0.02	0.02	<0.02	<0.02	0.019	0.008	0.038	0.043	0.030	0.042	0.035	<0.020	0.018	<0.020	<0.020
Mercury	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Arsenic	<0.005	<0.02	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Lead	0.017	0.015	<0.005	<0.005	0.016	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Selenium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0100	0.005
TOC	5	8	2	1	1	1	2	3	1	2	1	1.9	1.3	1.4	2.1	1.0	2.6	2
Alkalinity	87.15	86.1	122	118	89	90	107	101				103				88.2	81.4	68
Chloride		49	44	41	43	42	39	39	39	37	34	37.4	38.5	38.2	35.8	36.4	34.7	30.6
Fluoride					0.5	0.2	0.2	0.2				0.23				0.15	0.15	0.18
pH (Lab)	7.0	6.55	6.70	6.27	6.51	6.54	6.68				6.9	6.8	6.6	6.5	7.0	6.6	6.2	6.9
pH (Field)					6.61	6.59	6.92	6.83	6.40	6.27	6.27	6.47	6.16	6.52	6.13	6.60	6.4	7
Sulfate	12	14	16	13	12	11	12	13	14	11	9	11.2	11.4	11.8	10.5	11.4	10.4	11.4
Spec. Cond.	290	320	320	316	312.5	349.8	194	339	313	311	296	314	296	285	144	269	277	273
Temperature	23	22.5		20	14.7	15.6	18	17	12	15	21	19.9	12.3	19.5	17.4	16.5	18	20
Ammonia N	0.19	0.24		<0.1	<0.1	0.1	0.3	0.3				<0.10				<0.10	<0.10	<0.10
Nitrite N			<0.05	<0.05					<0.05							<0.050	<0.050	<0.10
Nitrate N	0.06	<0.05	<0.05	0.19	0.10	<0.05	<0.05	0.13	0.08	<0.05	<0.05	0.058	0.122	0.269	0.055	0.137	<0.050	0.27
Cyanide (total)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.006	<0.006	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
TDS	272	220	162	216	234	235	245	210	197	219	201	196	203	182	212	179	218	224
TSS															20			

B2

LOCATION 18992.210, 6023.290

COLLAR ELEVATION - 446.500
DEPTH OF WELL - 121ft

DATE	8/14/91	8/22/91	2/28/92	5/14/92	8/26/92	11/23/92	2/24/93	duplicate 2/24/93	5/18/93	8/17/93	11/15/93	2/14/94	5/9/94	8/8/94	12/8/94	5/30/95	11/28/95
DEPTH TO WATER	22.25	22.59	23	23	26.8	26.19	21.16		18.31	22.35	24.14	22.1	20.16	21.6	20.56	19.46	22.3
WATER ELEVATION	424.25	423.91	423.5	423.5	419.7	420.31	425.34		428.19	424.15	422.36	424.4	426.34	424.9	425.94	427.04	424.2
Silver	<0.010	<0.010	<0.010	<0.010	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.010	<0.010	<0.010	<0.010	<0.010
Aluminum	2.0	7	0.2	0.7	0.6	0.669	0.480	0.671	0.639	0.239	0.973	0.880	0.458	1.02	1.70	1.09	0.4
Barium	0.20	0.25	0.15	0.18	0.20	0.203	0.182	0.184	0.190	0.166	0.181	0.188	0.182	0.187	0.195	0.202	0.166
Calcium	34.3	40	31.7	31	38	36.1					30.6				31.9	35.6	30.4
Cadmium	<0.005	0.007	<0.005	<0.005	<0.005	<0.001	<0.00100	<0.00100	<0.0050	<0.001	<0.001	<0.0050	<0.0050	<0.0050	0.0018	<0.0050	<0.0050
Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0020	<0.0020	<0.0020	<0.010	<0.002	0.002	<0.010	<0.010	<0.010	0.004	<0.010	<0.010
Copper	0.02	0.05	<0.02	0.01	0.01	0.009	0.007	0.009	<0.020	0.007	0.021	0.022	0.015	0.021	0.029	0.023	<0.010
Copper (Dissolved)														<0.002		<0.010	<0.010
Iron	11.9	40	0.61	7.7	6.2	7.06	6.10	7.75	7.04	2.51	15.6	13.9	6.93	12.4	25.8	15.8	6.35
Potassium	3	2	<2	<2	<2	1.30					1.28				1.37	<2.0	<2.0
Magnesium	6.29	8	5.16	5	6	5.84					5.37				5.50	5.79	5.12
Manganese	0.62	2	0.34	0.59	0.60	0.617					0.821				1.17	0.797	0.543
Sodium	14	15	11	12	13	13.1					11.3				11.4	12.1	10.6
Nickel	<0.02	<0.02	<0.02	<0.02	<0.02	<0.0040	<0.0040	<0.0040	<0.020	0.006	<0.004	<0.020	<0.020	<0.020	0.004	<0.020	<0.020
Zinc	0.31	<0.03	0.04	0.12	0.11	0.094	0.130	0.101	0.153	0.075	0.211	0.201	0.108	0.190	0.331	0.215	0.077
Mercury	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00020	<0.00020	<0.00020	<0.00020
Arsenic	0.005	0.009	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050
Lead	0.195	0.39	0.009	0.038	0.088	0.094	0.103	0.126	0.070	0.062	0.161	0.165	0.082	0.137	0.357	0.157	0.0605
Selenium X	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050
TOC	<1	8	1	2	1	6	1	2	1	2	1.2	1.3	1.5	1.2	<1	<1.0	1
Alkalinity	31	114	124	119	133	126					136				118	110	96
Chloride	7	7	8	9	18	15	12	12	10	10	9.9	10.1	9.6	9.8	10.0	10.7	9.29
Fluoride	0.2	0.2	0.2	0.1	0.1	0.2					0.32				0.17	0.19	0.16
pH (Lab)	7.1	7.32	7.68	7.78	7.69					7.7	7.6	7.5	7.2	7.3	7.9	7.0	7.5
pH (Field)			7.64	7.54	7.75	6.83	7.16		7.18	7.43	6.21	6.37	6.72	7.61	7.76	7.3	7.6
Sulfate	9	10	9	8	9	9	11	11	10	8	19.7	12.1	11.4	12.6	9.8	17.9	10.2
Spec. Cond.	240	235	267	254	172	310	287		267	266	256	269	245	132	256	273	268
Temperature			15	17.8	18	15	15		18		18.9	18	19.6	18.4	15.6	18	19
Ammonia N	0.27	0.14	<0.1	<0.1	0.2	0.2					0.17				<0.10	<0.10	<0.10
Nitrite N	<0.05	<0.05					<0.05	<0.05							<0.050	<0.050	<0.10
Nitrate NX	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.050	<0.050	0.221	<0.050	0.684	<0.050	<0.10
Cyanide (total)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.006	<0.006	<0.006	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
TDS	158	14	200	189	220	179	175	173	164	172	192	182	174	161	164	214	201
TSS														54			