

**MEMORANDUM TO FILE**

Date: 31 May 2001

From: Lynn Marie Hornecker 

Subj: Laboratory Test Reports for Water Samples collected from the NASA Water Supply Well  
NASA Crows Landing Flight Facility

Reference:

(a) SWDIV E-mail message dated 15 May 2001

The purpose of this memorandum is to document the receipt on 30 May 2001 of the laboratory data from NASA that was requested by the Navy (reference (a)/Attachment 1).

Attachment

1 SWDIV E-mail message dated 15 May 2001

CF:

Marianna Potacka (Crows Landing BEC)  
Project File (Crows Landing)

## Hornecker, Lynn M (EFDSW)

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**From:** Hornecker, Lynn M (EFDSW)  
**Sent:** Tuesday, May 15, 2001 8:33 AM  
**To:** 'Donald Chuck'  
**Cc:** Potacka, Marianna K (EFDSW); 'solliges@mail.arc.nasa.gov'  
**Subject:** RE: RE: Crows Landing - NASA Water Supply Well

Reference: Navy Environmental Restoration Program Projects at NASA Crows Landing Flight Facility

Hello Don,

I am writing this message to thank you for providing the summary data for the analysis of water samples for nitrates from the NASA water supply well located south of Building 151 at Crows Landing. The well, constructed by NASA in 1995, is screened from approximately 210 to 235 feet below ground surface, and water from the well is used for fire protection.

We understand that NASA routinely collects samples from this well for analysis of nitrates and coliform. We requested copies of the laboratory data in a message to you dated 18 December 2000. NASA provided a summary table with nitrate test results on 5 March 2001. The summary table does not identify the laboratory where the tests were conducted, the analytical test method, the method detection limits, and the dates of the laboratory analyses for the nitrate results. The table indicates that samples were collected for coliform analysis and all coliform data are absent from the table.

The laboratory test results for water samples collected from the NASA water supply well provide data that is useful to the Navy's environmental restoration program due to the proximity of the NASA water supply well to the southern edge of the Administration Area Plume (the commingled petroleum hydrocarbon/solvent plume). Also, the test data for samples collected from this well may provide useful data on background groundwater conditions at the facility. The Navy would like to request that NASA provide the laboratory test reports that show the laboratory names, test methods, method detection limits, and dates of analyses for the nitrate results and that NASA provide the coliform data that is missing from the summary table. This water quality information will help the Navy with the completion of the revised feasibility study for groundwater at IRP Site 17.

Your prompt response to this request will be greatly appreciated.

Thank you very much.

V/R  
Lynn Marie Hornecker  
SOUTHWESTNAVFACENCOM  
BRAC PROGRAMS OFFICE  
(619) 532-0783/Fax (619) 532-0780  
15 May 2001

-----Original Message-----

**From:** Donald Chuck [SMTP:dchuck@mail.arc.nasa.gov]  
**Sent:** Thursday, March 01, 2001 6:45 AM  
**To:** Shelly Navarro  
**Cc:** HorneckerLM@efdsw.navfac.navy.mil  
**Subject:** Fwd: RE: Crows Landing - NASA Water Supply Well

Shelly,

The Navy is looking for data back to 1995. See message below. Thanks.

Don

From: "Hornecker, Lynn M (EFDSW)" <HorneckerLM@efdswnavfac.navy.mil>  
To: "Donald Chuck" <dchuck@mail.arc.nasa.gov>  
Cc: "Potacka, Marianna K (EFDSW)" <PotackaMK@efdswnavfac.navy.mil>  
Subject: RE: Crows Landing - NASA Water Supply Well  
Date: Wed, 28 Feb 2001 11:19:40 -0800  
X-Mailer: Internet Mail Service (5.5.2653.19)

Hello Don,

If possible, the results of analysis of groundwater samples collected from the NASA fire protection water supply well (near Building 151) since the well was constructed in approximately 1995 would be very helpful. If this is not possible, data from the years 1999 and 2000 would be very helpful.

Your assistance is greatly appreciated. Thank you very much.

V/R

Lynn Marie Hornecker  
SOUTHWESTNAVFACENGCOM  
BRAC PROGRAMS OFFICE  
(619) 532-0783/Fax (619) 532-0780  
28 February 2001

> -----Original Message-----

> From: Donald Chuck [SMTP:dchuck@mail.arc.nasa.gov]

> Sent: Wednesday, February 28, 2001 6:20 AM

> To: Hornecker, Lynn M (EFDSW)

> Subject: Re: Crows Landing - NASA Water Supply Well

>

> Lynn,

>

> How far back do you want data from? Once I have that, I can get the data  
> for you.

>

> Don

>

> At 11:10 AM 12/18/2000 -0800, you wrote:

>

>

>

> Hello Don,

>

> I understand that NASA collects water samples for analysis from the  
> well

> located near Building 151 (the fire protection water supply well -

> approximately 235 feet deep) on a routine basis. Would it be  
> possible for  
> us to see some of the analytical data for samples collected from  
> this well?

>  
> Best wishes.

> V/R  
> Lynn Marie Hornecker  
> SOUTHWESTNAVFACENGCOM  
> BRAC PROGRAMS OFFICE  
> (619) 532-0783/Fax (619) 532-0780  
> 18 December 2000  
>

## TRANSMITTAL

Date: 29 August 2001

From: Lynn Marie Hornecker  
CROWS LANDING

To: Diane Silva  
Code 01LS.DS

**Subj: CERCLA Administrative Record Materials**  
Former Naval Auxiliary Landing Field, Crows Landing

*Installation:* Former Naval Auxiliary Landing Field, Crows Landing

*UIC Number:* N60211

*Document Title (or subject):* Laboratory test reports from NASA

*Author:* Lynn Marie Hornecker

*Recipient:*

*Record Date:* 31 May 2001

*Approximate Number of Pages:* 500

*EPA Category:* 01.1

*Sites:* Site 17

*Key Words:* Analytical data for NASA water supply well  
groundwater

*Contract:* N/A

*CTO Number:* N/A





## Analytical Chemists

February 9, 2001

RE: BACTERIOLOGICAL

Page 1

NASA Ames Research Center

Attn: Shelly Navarro

Mail Stop 19-21

Moffett, CA 94035-1000

System Number:

Project Name: Crows Landing-Monthly

### SAMPLE INFORMATION:

ID #	FGL Lab Number	Description	Sample Reason	Sample Type	Sampler	Employed By	Sampled		Started		Finished Date	Foot Note
							Date	Time	Date	Time		
1	STK 130110-01	Wellhead-Well #3	Routine	System	Mike Ostrom	FGL Environmental	01/09/2001	13:42	01/09/2001	17:11	01/10/2001	
2	STK 130110-02	Tank Spigot	Routine	System	Mike Ostrom	FGL Environmental	01/09/2001	13:44	01/09/2001	17:11	01/10/2001	

O/S Out of Service Well. # The 30hr holding time for this DW sample has been exceeded. ? No sample time provided, holding time may have been exceeded.

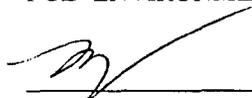
### ANALYTICAL RESULTS:

ID #	Description	Cl <sub>2</sub> Residual	Temp °F	Method	Units	Coliform Result		Person	Notification		Total Coliform Rule		
						Total	Fecal		Date	Time	Total	Fecal	
1	Wellhead-Well #3	---		C/F - P/A	P/A /100ml	-	ABSENT	N/R	N/R	--	-	Pass	Pass
2	Tank Spigot	---		C/F - P/A	P/A /100ml	-	ABSENT	N/R	N/R	--	-	Pass	Pass

N/R Not Required MPN Most Probable Number P/A Presence/Absence \* E. coli specific C/F Chromogenic/Fluorogenic

The State Board of Health requires that bacteriological results must be 'ABSENT' to meet drinking water requirements. Analyses were performed using Standard Methods 18th edition, APHA. If you have any questions regarding your results, please call.

FGL ENVIRONMENTAL



Raquel R. Harvey

RRH:GMA



# ENVIRONMENTAL

## ANALYTICAL CHEMISTS

February 21, 2001

NASA Ames Research Center

Attn: Shelly Navarro

Mail Stop 19-21

Moffett, CA 94035-1000

Description : Tank Spigot

Project : Crows Landing-Monthly

Lab ID : STK130110-02

Customer ID: 3-14076

Sampled On : January 9, 2001-13:44

Sampled By : Mike Ostrom

Received : January 10, 2001-15:00, Stockton

Received : January 10, 2001-15:00, Santa Pau

Matrix : Ground Water

### Sample Results - Inorganic

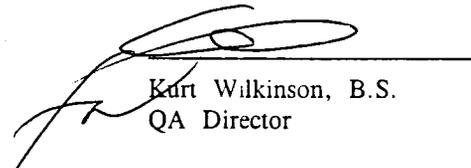
Constituent	Results	PQL	Units	Note	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
<b>Field Test</b>								
Chlorine Residual	3.5	0.1	mg/L			01/09/01:FS00		01/09/2001:
<b>Wet Chemistry</b> G,P:1,4								
Nitrate	74	1.6♦	mg/L		4500NO3F	01/16/01:B220 17:00	4500NO3	01/16/2001:D07 20:39

ND=Non-Detect. PQL=Practical Quantitation Limit. ♦ PQL adjusted for dilutions, concentrations, dry weight reporting, or limited sample.

Containers: (G) Glass Jar, (P) Plastic Preservatives: (1) Cool 4°C, (4) H2SO4 pH < 2

## FGL ENVIRONMENTAL

KW:KDM



Kurt Wilkinson, B.S.  
QA Director



# ENVIRONMENTAL

## ANALYTICAL CHEMISTS

February 21, 2001  
NASA Ames Research Center

Lab ID : STK130110  
Customer : 3-14076

### Quality Control - Inorganic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note	
Wet Chem Nitrate + Nitrite as N	4500NO3F	01/16/2001:B220 (STK130121-02)	MS	mg/L	4.000	102%	89-117		
			MSD	mg/L	4.000	103%	89-117		
			MSRPD	ng/L		0.7%	≤6.3		
	4500NO3	01/16/2001:D		MS	ng/L	4.000	101%	89-117	
				MSD	mg/L	4.000	100%	89-117	
				MSRPD	ng/L		0.6%	≤6.3	
				04-CCB	ng/L		ND	<0.1	
				04-CCV	mg/L	4.000	98.2%	90-110	
				05-CCB	mg/L		ND	<0.1	
				05-CCV	mg/L	4.000	98.4%	90-110	
06-CCB	mg/L		ND	<0.1					
06-CCV	mg/L	4.000	98.4%	90-110					
07-CCB	mg/L		ND	<0.1					
07-CCV	ng/L	4.000	97.7%	90-110					

#### Definitions

- MS/MSD : Matrix Spikes - A random sample is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.
- CCV : Continuing Calibration Verification - Analyzed to verify the instrument calibration is within criteria.
- CCB : Continuing Calibration Blank - Analyzed to verify the instrument baseline is within criteria.
- ND : Non-detect - Result was below the DQO listed for the analyte.
- DQO : Data Quality Objective - This is the criteria against which the quality control data is compared.



## ANALYTICAL CHEMISTS

February 21, 2001

Lab ID : STK130110  
Customer : 3-14076

### NASA Ames Research Center

Attn: Shelly Navarro  
Mail Stop 19-21  
Moffett, CA 94035-1000

## Laboratory Report

**Introduction:** This report package contains total of 5 pages divided into three sections:

- Case Narrative (2 Pages): An overview of the work performed at FGL.
- Sample Results (2 Pages): Results for each sample submitted.
- Quality Control (1 Page): Supporting Quality Control (QC) results.

This report package pertains to the following samples:

Lab	Sample Description	Date Sampled	Date Received	FGL Lab Sample ID #	Matrix
FGL	Wellhead-Well #3	01/09/2001	01/08/2001	STK130110-01	DW
FGL	Tank Spigot	01/09/2001	01/10/2001	STK130110-02	GWN

**Sampling and Receipt Information:** The sampling was performed by FGL using the following methods (where applicable):

- Bacteriological Sampling - S0FS005
- Grab sampling for liquids - S0FS010
- Composite sampling for liquids - S0FS015
- Grab sampling for solids - S0FS020
- Composite sampling for solids - S0FS025

All samples were received intact and within the method specified holding times. All samples arrived at 2 °C. All samples were checked for pH if acid or base preservation required (except for VOAs). For details of sample receipt information, please see the attached Chain of Custody and Condition Upon Receipt Forms.

**Quality Control:** All samples were prepared and analyzed according to the following tables:

### Inorganic - Wet Chemistry QC

4500NO3F	01/16/2001:B220 All preparation quality controls are within established criteria.
	01/16/2001:C220 All preparation quality controls are within established criteria.
	01/16/2001:D - FI202 All analysis quality controls are within established criteria.

Case narrative continued on next page...

February 21, 2001

Lab ID : STK130110

Customer : 3-14076

**NASA Ames Research Center**

**Certification:** I certify that this data package is in compliance with NELAC Standards, both technically and for completeness, except for any conditions listed above. Release of the data contained in this data package is authorized by the Laboratory Director or his designee, as verified by the following signature.

FGL ENVIRONMENTAL

A handwritten signature in black ink, appearing to read 'Kelly A. Dunnahoo', is written over a solid horizontal line.

Kelly A. Dunnahoo, B.S.  
Laboratory Director

KAD:KDM



ANALYTICAL CHEMISTS

March 20, 2001

Lab ID : STK130820
Customer : 3-14076

NASA Ames Research Center
Attn: Shelly Navarro
Mail Stop 19-21
Moffett, CA 94035-1000

Laboratory Report

Introduction: This report package contains total of 5 pages divided into three sections:

- Case Narrative (2 Pages): An overview of the work performed at FGL.
Sample Results (2 Pages): Results for each sample submitted.
Quality Control (1 Page): Supporting Quality Control (QC) results.

This report package pertains to the following samples:

Table with 6 columns: Lab, Sample Description, Date Sampled, Date Received, FGL Lab Sample ID #, Matrix. Rows include FGL Wellhead-Well #3 and FGL Tank Spigot.

Sampling and Receipt Information: All samples were received intact and within the method specified holding times. All samples arrived at 3 °C. All samples were checked for pH if acid or base preservation required (except for VOAs). For details of sample receipt information, please see the attached Chain of Custody and Condition Upon Receipt Forms.

Quality Control: All samples were prepared and analyzed according to the following tables:

Inorganic - Wet Chemistry QC

Table with 2 columns: Sample ID, Description. Rows include 4500NO3F with various dates and analysis details.

Case narrative continued on next page...

March 20, 2001

Lab ID : STK130820  
Customer : 3-14076

**NASA Ames Research Center**

**Certification:** I certify that this data package is in compliance with NELAC Standards, both technically and for completeness, except for any conditions listed above. Release of the data contained in this data package is authorized by the Laboratory Director or his designee, as verified by the following signature.

FGL ENVIRONMENTAL



KAD:kdm

---

Kelly A. Dunnahoo, B.S.  
Laboratory Director





ANALYTICAL CHEMISTS

March 20, 2001

NASA Ames Research Center
Attn: Shelly Navarro
Mail Stop 19-21
Moffett, CA 94035-1000

Description : Tank Spigot
Project : Crows Landing-Monthly

Lab ID : STK 130820-02
Customer ID: 3-14076

Sampled On : February 21, 2001-10:45
Sampled By : Mike Ostrom
Received : February 21, 2001-10:47, Stockton
Received : February 22, 2001-09:20, Santa Paul.
Matrix : Drinking Water

Sample Results - Inorganic

Table with 8 columns: Constituent, Results, PQL, Units, Note, Sample Preparation Method, Sample Preparation Date/ID, Sample Analysis Method, Sample Analysis Date/ID. Rows include Chlorine Residual and Nitrate.

ND=Non-Detect. PQL=Practical Quantitation Limit. ♦ PQL adjusted for dilutions, concentrations, dry weight reporting, or limited sample.
Containers: (G) Glass Jar, (P) Plastic Preservatives: (1) Cool 4°C, (4) H2SO4 pH < 2

FGL ENVIRONMENTAL

Handwritten signature of Kurt Wilkinson, B.S.
QA Director

KW:kdm



## ANALYTICAL CHEMISTS

March 20, 2001

NASA Ames Research Center

Lab ID : STK130820

Customer : 3-14076

### Quality Control - Inorganic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
<b>Wet Chem</b> Nitrate + Nitrite as N	4500NO3F	03/02/2001:A220 (SP 101381-01)	MS	mg/L	4.000	102%	89-117	
			MSD	mg/L	4.000	103%	89-117	
			MSRPD	mg/L		0.7%	≤6.3	
			03/06/2001:A220 (STK130789-02)	MS	mg/L	4.000	99.7%	89-117
			MSD	mg/L	4.000	98.2%	89-117	
			MSRPD	mg/L		1.5%	≤6.3	
	4500NO3F	03/02/2001:D	00-ICB	mg/L		ND	<0.1	
			00-ICV	mg/L	4.000	99.3%	90-110	
01-CCB			mg/L		ND	<0.1		
01-CCV			mg/L	4.000	103%	90-110		
	03/06/2001:D	00-ICB	mg/L		ND	<0.1		
00-ICV		mg/L	4.000	105%	90-110			
01-CCB		mg/L		ND	<0.1			
01-CCV		mg/L	4.000	96.5%	90-110			

#### Definitions

- MS/MSD : Matrix Spikes - A random sample is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.
- ICV : Initial Calibration Verification - Analyzed to verify the instrument calibration is within criteria.
- ICB : Initial Calibration Blank - Analyzed to verify the instrument baseline is within criteria.
- CCV : Continuing Calibration Verification - Analyzed to verify the instrument calibration is within criteria.
- CCB : Continuing Calibration Blank - Analyzed to verify the instrument baseline is within criteria.
- ND : Non-detect - Result was below the DQO listed for the analyte.
- DQO : Data Quality Objective - This is the criteria against which the quality control data is compared.

**Analytical Chemists**

March 6, 2001

**RE: BACTERIOLOGICAL**

Page 1

**NASA Ames Research Center**  
 Attn: Shelly Navarro  
 Mail Stop 19-21  
 Moffett, CA 94035-1000

 System Number:  
 Project Name: Crows Landing-Monthly

**SAMPLE INFORMATION:**

ID #	FGL Lab Number	Description	Sample Reason	Sample Type	Sampler	Employed By	Sampled		Started		Finished Date	Foot Note
							Date	Time	Date	Time		
1	STK 130820-01	Wellhead-Well #3	Routine	Source	Mike Ostrom	FGL Environmental	02/21/2001	10:47	02/22/2001	11:53	02/23/2001	
2	STK 130820-02	Tank Spigot	Routine	System	Mike Ostrom	FGL Environmental	02/21/2001	10:45	02/22/2001	11:54	02/23/2001	

O/S Out of Service Well. !! The 30hr holding time for this DW sample has been exceeded. ? No sample time provided, holding time may have been exceeded.

**ANALYTICAL RESULTS:**

ID #	Description	Cl <sub>2</sub> Residual	Temp °F	Method	Units	Coliform Result		Person	Notification		Total Coliform Rule	
						Total	Fecal		Date	Time	Total	Fecal
1	Wellhead-Well #3	---		C/F - P/A	P/A /100ml	-	ABSENT	N/R	--	-	Pass	Pass
2	Tank Spigot	---		C/F - P/A	P/A /100ml	-	ABSENT	N/R	--	-	Pass	Pass

N/R Not Required MPN Most Probable Number P/A Presence/Absence \* E. coli specific C/F Chromogenic/Fluorogenic

The State Board of Health requires that bacteriological results must be 'ABSENT' to meet drinking water requirements. Analyses were performed using Standard Methods 18th edition, APHA. If you have any questions regarding your results, please call.

FGL ENVIRONMENTAL

  
 Raquel R. Harvey

RRH:gma



**ANALYTICAL CHEMISTS**

April 6, 2001

Lab ID : STK131211  
Customer : 3-14076

**NASA Ames Research Center**  
Attn: Shelly Navarro  
Mail Stop 19-21  
Moffett, CA 94035-1000

**Laboratory Report**

**Introduction:** This report package contains total of 4 pages divided into three sections:

- Case Narrative (1 Page): An overview of the work performed at FGL.
- Sample Results (2 Pages): Results for each sample submitted.
- Quality Control (1 Page): Supporting Quality Control (QC) results.

This report package pertains to the following samples:

Lab	Sample Description	Date Sampled	Date Received	FGL Lab Sample ID #	Matrix
FGL	Wellhead-Well #3	03/20/2001	03/20/2001	STK131211-01	DW
FGL	Tank Spigot	03/20/2001	03/20/2001	STK131211-02	GWN

**Sampling and Receipt Information:** All samples were received intact and within the method specified holding times. All samples arrived at 1 °C. All samples were checked for pH if acid or base preservation required (except for VOAs). For details of sample receipt information, please see the attached Chain of Custody and Condition Upon Receipt Forms.

**Quality Control:** All samples were prepared and analyzed according to the following tables:

**Inorganic - Wet Chemistry QC**

4500NO3F	03/26/2001:A220 All preparation quality controls are within established criteria.
	03/26/2001:D - FI202 All analysis quality controls are within established criteria.

**Certification:** I certify that this data package is in compliance with NELAC Standards, both technically and for completeness, except for any conditions listed above. Release of the data contained in this data package is authorized by the Laboratory Director or his designee, as verified by the following signature.

FGL ENVIRONMENTAL

Kelly A. Dunnahoo, B.S.  
Laboratory Director

KAD:kdm





## ANALYTICAL CHEMISTS INORGANIC CHEMICAL ANALYSIS

Date of Report : April 06, 2001  
 Laboratory Name: **FGL Environmental**  
 Lab Director : \_\_\_\_\_  
 Name of Sampler: Mike Ostrom  
 Employed By : FGL Environmental

Sample ID : STK 131211-02  
 Sampled On : 03/20/2001-13:10  
 Received On : 03/20/2001-16:20  
 Completed On : 03/26/2001

System Name: PAI CORPORATION

Number:

Name or Number of Sample Source: Tank Spigot

User ID:	Station Number :
Date/Time of Sample: 0 1 0 3 2 0 1 3 1 0 Y Y M M D D T T T T	Laboratory Code: 5 8 6 7
Submitted By: <b>FGL Environmental</b>	Phone # (805)-659-0910

### GENERAL MINERAL & PHYSICAL CHEMICAL

MCL	UNITS	CHEMICAL	ENTRY	RESULT	DLR
45	mg/L	Nitrate (NO <sub>3</sub> )	71850	73	1.6

### ADDITIONAL INORGANIC CHEMICAL

MCL	UNITS	CHEMICAL	ENTRY	RESULT	DLR
	mg/L	Chlorine Residual - Field		4.1	0.1

MCL - Maximum Contaminate Level,    DLR - Detection Limit for Reporting Purposes,    ND - Not Detected at/or above DLR



ANALYTICAL CHEMISTS

April 06, 2001  
NASA Ames Research Center

Lab ID : STK131211  
Customer : 3-14076

Quality Control - Inorganic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem Nitrate + Nitrite as N	4500NO3F	03/26/2001:A220 (STK131247-01)	MS	mg/L	4.000	104%	89-117	
			MSD	mg/L	4.000	102%	89-117	
			MSRPD	mg/L		2.1%	≤6.3	
	4500NO3F	03/26/2001:D	00-ICB	mg/L	4.000	ND	<0.1	
00-ICV			mg/L	100%		90-110		
01-CCB			mg/L	ND		<0.1		
01-CCV			mg/L	102%		90-110		

Definitions

- MS/MSD : Matrix Spikes - A random sample is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.
- ICV : Initial Calibration Verification - Analyzed to verify the instrument calibration is within criteria.
- ICB : Initial Calibration Blank - Analyzed to verify the instrument baseline is within criteria.
- CCV : Continuing Calibration Verification - Analyzed to verify the instrument calibration is within criteria.
- CCB : Continuing Calibration Blank - Analyzed to verify the instrument baseline is within criteria.
- ND : Non-detect - Result was below the DQO listed for the analyte.
- DQO : Data Quality Objective - This is the criteria against which the quality control data is compared.



# ENVIRONMENTAL

## Analytical Chemists

March 23, 2001

RE: BACTERIOLOGICAL

Page 1

NASA Ames Research Center  
Attn: Shelly Navarro  
Mail Stop 19-21  
Moffett, CA 94035-1000

System Number:  
Project Name: Crows Landing-Monthly

### SAMPLE INFORMATION:

ID #	FGL Lab Number	Description	Sample Reason	Sample Type	Sampler	Employed By	Sampled Date	Sampled Time	Started Date	Started Time	Finished Date	Foot Note
1	STK 131211-01	Wellhead-Well #3	Routine	Source	Mike Ostrom	FGL Environmental	03/20/2001	13:07	03/20/2001	18:30	03/22/2001	
2	STK 131211-02	Tank Spigot	Routine	System	Mike Ostrom	FGL Environmental	03/20/2001	13:10	03/20/2001	18:30	03/22/2001	

O/S Out of Service Well. ! The 30hr holding time for this DW sample has been exceeded. ? No sample time provided, holding time may have been exceeded.

### ANALYTICAL RESULTS:

ID #	Description	Cl <sub>2</sub> Residual	Temp °F	Method	Units	Coliform Result Total	Fecal	Person	Notification Date	Time	Total Coliform Total	Rule Fecal
1	Wellhead-Well #3	---		C/F - P/A	P/A /100ml	- ABSENT	N/R	N/R	--	-	Pass	Pass
2	Tank Spigot	---		C/F - P/A	P/A /100ml	- ABSENT	N/R	N/R	--	-	Pass	Pass

N/R Not Required MPN Most Probable Number P/A Presence/Absence \* E. coli specific C/F Chromogenic/Fluorogenic

The State Board of Health requires that bacteriological results must be 'ABSENT' to meet drinking water requirements. Analyses were performed using Standard Methods 18th edition, APHA. If you have any questions regarding your results, please call.

FGL ENVIRONMENTAL

  
Raquel R. Harvey

RRH:gma



## ANALYTICAL CHEMISTS

April 24, 2001

Lab ID : STK131598

Customer : 3-14076

**NASA Ames Research Center**

Attn: Shelly Navarro

Mail Stop 19-21

Moffett, CA 94035-1000

### Laboratory Report

**Introduction:** This report package contains total of 4 pages divided into three sections:

- Case Narrative (1 Page): An overview of the work performed at FGL.
- Sample Results (2 Pages): Results for each sample submitted.
- Quality Control (1 Page): Supporting Quality Control (QC) results.

This report package pertains to the following samples:

Lab	Sample Description	Date Sampled	Date Received	FGL Lab Sample ID #	Matrix
FGL	Wellhead-Well #3	04/10/2001	04/10/2001	STK131598-01	Src
FGL	Tank Spigot	04/10/2001	04/10/2001	STK131598-02	GWN

**Sampling and Receipt Information:** All samples were received intact and within the method specified holding times. All samples arrived at 1 °C. All samples were checked for pH if acid or base preservation required (except for VOAs). For details of sample receipt information, please see the attached Chain of Custody and Condition Upon Receipt Forms.

**Quality Control:** All samples were prepared and analyzed according to the following tables:

#### Inorganic - Wet Chemistry QC

4500NO3F	04/13/2001:A220 All preparation quality controls are within established criteria.
	04/13/2001:A - FI202 All analysis quality controls are within established criteria.

**Certification:** I certify that this data package is in compliance with NELAC Standards, both technically and for completeness, except for any conditions listed above. Release of the data contained in this data package is authorized by the Laboratory Director or his designee, as verified by the following signature.

FGL ENVIRONMENTAL

Kelly A. Dunnahoo, B.S.  
Laboratory Director

KAD:kdm





## ANALYTICAL CHEMISTS INORGANIC CHEMICAL ANALYSIS

Date of Report : April 24, 2001  
 Laboratory Name: **FGL Environmental**  
 Lab Director : \_\_\_\_\_  
 Name of Sampler: Mike Ostrom  
 Employed By : FGL Environmental

Sample ID : STK 131598-02  
 Sampled On : 04/10/2001-13:00  
 Received On : 04/10/2001-15:00  
 Completed On : 04/13/2001

System Name: PAI CORPORATION

Number:

Name or Number of Sample Source: Tank Spigot

User ID:	Station Number :
Date/Time of Sample: 0 1 0 4 1 0 1 3 0 0 Y Y M M D D T T T T	Laboratory Code: 5 8 6 7
Submitted By: <b>FGL Environmental</b>	Phone # (805)-659-0910

### GENERAL MINERAL & PHYSICAL CHEMICAL

MCL	UNITS	CHEMICAL	ENTRY	RESULT	DLR
45	mg/L	Nitrate (NO <sub>3</sub> )	71850	72	1.6

### ADDITIONAL INORGANIC CHEMICAL

MCL	UNITS	CHEMICAL	ENTRY	RESULT	DLR
	mg/L	Chlorine Residual - Field		3.2	0.1

MCL - Maximum Contaminate Level,    DLR - Detection Limit for Reporting Purposes,    ND - Not Detected at/or above DLR



## ANALYTICAL CHEMISTS

April 24, 2001  
NASA Ames Research Center

Lab ID : STK131598  
Customer : 3-14076

### Quality Control - Inorganic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem Nitrate + Nitrite as N	4500NO3F	04/13/2001:A220 (SP 102953-01)	MS	mg/L	4.000	99.8%	89-117	
			MSD	mg/L	4.000	99.5%	89-117	
MSRPD			mg/L		0.4%	≤6.3		
	4500NO3F	04/13/2001:A	00-ICB	mg/L		ND	<0.1	
00-ICV			mg/L	4.000	101%	90-110		
01-CCB			mg/L		ND	<0.1		
01-CCV			mg/L	4.000	102%	90-110		

#### Definitions

- MS/MSD : Matrix Spikes - A random sample is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.
- ICV : Initial Calibration Verification - Analyzed to verify the instrument calibration is within criteria.
- ICB : Initial Calibration Blank - Analyzed to verify the instrument baseline is within criteria.
- CCV : Continuing Calibration Verification - Analyzed to verify the instrument calibration is within criteria.
- CCB : Continuing Calibration Blank - Analyzed to verify the instrument baseline is within criteria.
- ND : Non-detect - Result was below the DQO listed for the analyte.
- DQO : Data Quality Objective - This is the criteria against which the quality control data is compared.

**Analytical Chemists**

April 17, 2001

**RE: BACTERIOLOGICAL**

Page 1

**NASA Ames Research Center**  
 Attn: Shelly Navarro  
 Mail Stop 19-21  
 Moffett, CA 94035-1000

System Number:  
 Project Name: Crows Landing-Monthly

**SAMPLE INFORMATION:**

ID #	FGL Lab Number	Description	Sample Reason	Sample Type	Sampler	Employed By	Sampled Date	Sampled Time	Started Date	Started Time	Finished Date	Foot Note
1	STK 131598-01	Wellhead-Well #3	Routine	Source	Mike Ostrom	FGL Environmental	04/10/2001	13:05	04/11/2001	10:15	04/12/2001	
2	STK 131598-02	Tank Spigot	Routine	System	Mike Ostrom	FGL Environmental	04/10/2001	13:00	04/11/2001	10:15	04/12/2001	

O/S Out of Service Well. !! The 30hr holding time for this DW sample has been exceeded. ? No sample time provided, holding time may have been exceeded.

**ANALYTICAL RESULTS:**

ID #	Description	Cl <sub>2</sub> Residual	Temp °F	Method	Units	Coliform Result		Person	Notification		Total Coliform Rule		
						Total	Fecal		Date	Time	Total	Fecal	
1	Wellhead-Well #3	---		C/F - P/A	P/A /100ml	-	ABSENT	N/R	N/R	--	-	Pass	Pass
2	Tank Spigot	---		C/F - P/A	P/A /100ml	-	ABSENT	N/R	N/R	--	-	Pass	Pass

N/R Not Required MPN Most Probable Number P/A Presence/Absence \* E. coli specific C/F Chromogenic/Fluorogenic

The State Board of Health requires that bacteriological results must be 'ABSENT' to meet drinking water requirements. Analyses were performed using Standard Methods 18th edition, APHA. If you have any questions regarding your results, please call.

**FGL ENVIRONMENTAL**

RRH:gma



Raquel R. Harvey



# ENVIRONMENTAL

## ANALYTICAL CHEMISTS

GENERAL MINERAL, PHYSICAL, INORGANIC, & RADIOLOGICAL CHEMICAL ANALYSES

Date of Report: **January 15, 2001** Sample ID No. **STK 35806-01**  
 Laboratory Signature Lab  
 Name: **FGL Environmental** Director: \_\_\_\_\_  
 Name of Sampler: **Mike Ostrom** Employed By: **FGL Environmental**  
 Date/time Sample Date/Time Sample Date Analyses  
 Collected: **12/12/2000-1343** Rec. @ Lab: **12/12/2000-1610** Completed: **12/14/2000**

System Name: **CROWS LANDING** System Number: \_\_\_\_\_

Name or Number of Sample Source: **Wellhead-Well #3**

User ID:	Station Number:
Date/Time of Sample: <b>0 0 1 2 1 2 1 3 4 3</b> Y Y M M D D T T T T	Laboratory Code: <b>5 8 6 7</b>
Submitted by: <b>FGL Environmental</b>	Phone # <b>(805) 659-0910</b>

### GENERAL MINERAL & PHYSICAL CHEMICALS

MCL	UNITS	CHEMICAL	ENTRY	RESULT	DLR
45	mg/L	Nitrate (NO <sub>3</sub> )	71850	77	1.6

MCL - Maximum Contaminate Level      DLR - Detection Limit for Reporting purposes      ND - Not Detected at or above DLR  
 \* 250-500-600      \*\* 900-1600-2200      \*\*\* 500-1000-1500      + Indicates Secondary Drinking Water Standards

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# ENVIRONMENTAL

## ANALYTICAL CHEMISTS

GENERAL MINERAL, PHYSICAL, INORGANIC, & RADIOLOGICAL CHEMICAL ANALYSES

Date of Report: January 15, 2001      Sample ID No **STK 35806-02**  
 Laboratory      Signature Lab  
 Name: **FGL Environmental**      Director:  
 Name of Sampler: **Mike Ostrom**      Employed By: **FGL Environmental**  
 Date/time Sample      Date/Time Sample      Date Analyses  
 Collected: **12/12/2000-1346** Rec. @ Lab: **12/12/2000-1610** Completed: **12/14/2000**

System      System  
 Name: **CROWS LANDING**      Number:

Name or Number of Sample Source: **Tank Spigot**

User ID:	Station Number:
Date/Time of Sample: <b>0 0 1 2 1 2 1 3 4 6</b>	Laboratory Code: <b>5 8 6 7</b>
	Y Y M M D D T T T T
Submitted by: <b>FGL Environmental</b>	Phone # <b>(805) 659-0910</b>

### GENERAL MINERAL & PHYSICAL CHEMICALS

MCL	UNITS	CHEMICAL	ENTRY	RESULT	DLR
45	mg/L	Nitrate (NO <sub>3</sub> )	71850	76	1.6

### ADDITIONAL INORGANIC CHEMICALS

MCL	UNITS	CHEMICAL	ENTRY	RESULT	DLR
	mg/L	Chlorine Residual		2.2	0.1

MCL - Maximum Contaminate Level      DLR - Detection Limit for Reporting purposes      ND - Not Detected at or above DLR  
 + Indicates Secondary Drinking Water Standards

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 Mobile: 559/737-2399

---

**Analytical Chemists**

January 15, 2001

**Inorganic Quality Assurance Report** for sample: 35806

NASA Ames Research Center  
 Attn: Shelly Navarro  
 Mail Stop 19-21  
 Moffett, CA 94035-1000

Actual sample results are contained in the accompanying analytical report(s).

Constituent	BATCH ID	Method	Units	BLANK QA/QC			CALIBRATION QA/QC					METHOD QA/QC									
				DLR	Result	NOTE	Type	Conc.	% REC	AR	NOTE	Type	Conc.	% REC	% REC	AR	% DIF	MAV	NOTE		
Nitrate	0A220	4500NO3	mg/L		N/A									MS	17.71	102	102	89-117	0.5	6.3	

FGL ID = 20001214 ND => Not Detected at above DLR. DLR => Detection Limit for Reporting purposes. N/A => Not Applicable NOTE => See note indicated below.  
 An explanation of QA terms is provided on the reverse side of this page.

KW:kdm

FGL ENVIRONMENTAL, INC.



Kurt Wilkinson, B.S., QA Director



## Analytical Chemists

January 4, 2001

RE: BACTERIOLOGICAL

Page 1

NASA Ames Research Center  
Attn: Shelly Navarro  
Mail Stop 19-21  
Moffett, CA 94035-1000

System Number:  
Project Name: Crows Landing-Monthly

### SAMPLE INFORMATION:

ID #	FGL Lab Number	Description	Sample Reason	Sample Type	Sampler	Employed By	Sampled		Started		Finished Date	Foot Note
							Date	Time	Date	Time		
1	STK 35806-01	Wellhead-Well #3	Routine	Source	Mike Ostrom	FGL Environmental	12/12/2000	13:43	12/13/2000	10:11	12/14/2000	
2	STK 35806-02	Tank Spigot	Routine	System	Mike Ostrom	FGL Environmental	12/12/2000	13:46	12/13/2000	10:11	12/14/2000	

O/S Out of Service Well. !! The 30hr holding time for this DW sample has been exceeded. ? No sample time provided, holding time may have been exceeded.

### ANALYTICAL RESULTS:

ID #	Description	Cl <sub>2</sub> Residual	Temp °F	Method	Units	Coliform Result		Person	Notification		Total Coliform Rule	
						Total	Fecal		Date	Time	Total	Fecal
1	Wellhead-Well #3	---		C/F - P/A	P/A /100ml	- ABSENT	N/R	N/R	--	-	Pass	Pass
2	Tank Spigot	---		C/F - P/A	P/A /100ml	- ABSENT	N/R	N/R	--	-	Pass	Pass

N/R Not Required MPN Most Probable Number P/A Presence/Absence \* E. coli specific C/F Chromogenic/Fluorogenic

The State Board of Health requires that bacteriological results must be 'ABSENT' to meet drinking water requirements. Analyses were performed using Standard Methods 18th edition, APHA. If you have any questions regarding your results, please call.

FGL ENVIRONMENTAL

Raquel R. Harvey

RRH:kdm



# ENVIRONMENTAL

## ANALYTICAL CHEMISTS

GENERAL MINERAL, PHYSICAL, INORGANIC, & RADIOLOGICAL CHEMICAL ANALYSES

Date of Report: December 13, 2000      Sample ID No. **STK 35585-01**  
 Laboratory      Signature Lab  
 Name: **FGL Environmental**      Director: \_\_\_\_\_  
 Name of Sampler: **Mike Ostrom**      Employed By: **FGL Environmental**  
 Date/time Sample      Date/Time Sample      Date Analyses  
 Collected: **11/22/2000-1324** Rec. @ Lab: **11/22/2000-1530** Completed: **12/04/2000**

System      System  
 Name: **CROW'S LANDING**      Number:

Name or Number of Sample Source: **Wellhead-Well #3**

User ID:	Station Number:
Date/Time of Sample: <b>0 0 1 1 2 2 1 3 2 4</b>	Laboratory Code: <b>5 8 6 7</b>
	Y Y M M D D T T T T
Submitted by: <b>FGL Environmental</b>	Phone # <b>(805) 659-0910</b>

### GENERAL MINERAL & PHYSICAL CHEMICALS

MCL	UNITS	CHEMICAL	ENTRY	RESULT	DLR
45	mg/L	Nitrate (NO <sub>3</sub> )	71850	76	1.6

MCL - Maximum Contaminate Level      DLR - Detection Limit for Reporting purposes      ND - Not Detected at or above DLR  
 \* 250-500-600      \*\* 900-1600-2200      \*\*\* 500-1000-1500      + Indicates Secondary Drinking Water Standards

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**Analytical Chemists**

December 13, 2000

**Inorganic Quality Assurance Report for sample: 35585**

 NASA Ames Research Center  
 Attn: Shelly Navarro  
 Mail Stop 19-21  
 Moffett, CA 94035-1000

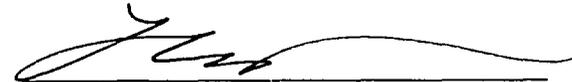
Actual sample results are contained in the accompanying analytical report(s).

Constituent	BATCH ID	Method	Units	BLANK QA/QC			CALIBRATION QA/QC					METHOD QA/QC							
				DLR	Result	NOTE	Type	Conc.	% REC	AR	NOTE	Type	Conc.	% REC	% REC	AR	% DIF	MAV	NOTE
Nitrate	0A220	4500NO3	mg/L	N/A			N/A					MS	4.000	105	103	89-117	1.8	6.3	

FGL ID = 20001204 ND => Not Detected at above DLR. DLR => Detection Limit for Reporting purposes. N/A => Not Applicable NOTE => See note indicated below.  
 An explanation of QA terms is provided on the reverse side of this page.

KW:cea

FGL ENVIRONMENTAL, INC.



Kurt Wilkinson, B.S., QA Director

**Analytical Chemists**

December 5, 2000

**RE: BACTERIOLOGICAL**

Page 1

**NASA Ames Research Center**  
 Attn: Shelly Navarro  
 Mail Stop 19-21  
 Moffett, CA 94035-1000

System Number:  
 Project Name: Crows Landing-Monthly

**SAMPLE INFORMATION:**

ID #	FGL Lab Number	Description	Sample Reason	Sample Type	Sampler	Employed By	Sampled		Started		Finished Date	Foot Note
							Date	Time	Date	Time		
1	STK 35585-01	Wellhead-Well #3	Routine	Source	Mike Ostrom	FGL Environmental	11/22/2000	13:24	11/22/2000	16:00	11/24/2000	
2	STK 35585-02	Tank Spigot	Routine	System	Mike Ostrom	FGL Environmental	11/22/2000	13:21	11/22/2000	16:00	11/24/2000	

O/S Out of Service Well. !! The 30hr holding time for this DW sample has been exceeded. ? No sample time provided, holding time may have been exceeded.

**ANALYTICAL RESULTS:**

ID #	Description	Cl <sub>2</sub> Residual	Temp °F	Method	Units	Coliform Result		Person	Notification		Total Coliform Rule	
						Total	Fecal		Date	Time	Total	Fecal
1	Wellhead-Well #3	---		LTB-MTF	MPN/100ml	< 1.1 ABSENT	N/R	N/R	--	-	Pass	Pass
2	Tank Spigot	---		LTB-MTF	MPN/100ml	< 1.1 ABSENT	N/R	N/R	--	-	Pass	Pass

N/R Not Required MPN Most Probable Number P/A Presence/Absence \* E. coli specific C/F Chromogenic/Fluorogenic

The State Board of Health requires that bacteriological results must be 'ABSENT' to meet drinking water requirements. Analyses were performed using Standard Methods 18th edition, APHA. If you have any questions regarding your results, please call.

FGL ENVIRONMENTAL

  
 \_\_\_\_\_  
 Raquel R. Harvey

RRH:gj



# ENVIRONMENTAL

## ANALYTICAL CHEMISTS

GENERAL MINERAL, PHYSICAL, INORGANIC, & RADIOLOGICAL CHEMICAL ANALYSES

Date of Report: November 9, 2000      Sample ID No STK 35013-01  
 Laboratory      Signature Lab  
 Name: **FGL Environmental**      Director: \_\_\_\_\_  
 Name of Sampler: **Mike Ostrom**      Employed By: **FGL Environmental**  
 Date/time Sample      Date/Time Sample      Date Analyses  
 Collected: 10/18/2000-1235 Rec. @ Lab: 10/18/2000-1500 Completed: 10/27/2000

System      System  
 Name: **CROWS LANDING**      Number:

Name or Number of Sample Source: **Wellhead-Well #3**

User ID:	Station Number:
Date/Time of Sample: <b>0 0 1 0 1 8 1 2 3 5</b>	Laboratory Code: <b>5 8 6 7</b>
	Y Y M M D D T T T T
Submitted by: <b>FGL Environmental</b>	Phone # <b>(805) 659-0910</b>

### GENERAL MINERAL & PHYSICAL CHEMICALS

MCL	UNITS	CHEMICAL	ENTRY	RESULT	DLR
45	mg/L	Nitrate (NO <sub>3</sub> )	71850	76	3.2

MCL - Maximum Contaminate Level      DLR - Detection Limit for Reporting purposes      ND - Not Detected at or above DLR  
 \* 250-500-600      \*\* 900-1600-2200      \*\*\* 500-1000-1500      + Indicates Secondary Drinking Water Standards

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# ENVIRONMENTAL

## ANALYTICAL CHEMISTS

GENERAL MINERAL, PHYSICAL, INORGANIC, & RADIOLOGICAL CHEMICAL ANALYSES

Date of Report: **November 9, 2000** Sample ID No. **STK 35013-02**  
 Laboratory Signature Lab  
 Name: **FGL Environmental** Director: \_\_\_\_\_  
 Name of Sampler: **Mike Ostrom** Employed By: **FGL Environmental**  
 Date/time Sample Date/Time Sample Date Analyses  
 Collected: **10/18/2000-1235** Rec. @ Lab: **10/18/2000-1500** Completed: **10/27/2000**

System Name: **CROWS LANDING** System Number: \_\_\_\_\_

Name or Number of Sample Source: **Tank Spigot**

User ID:	Station Number:
Date/Time of Sample: <b>0 0 1 0 1 8 1 2 3 5</b>	Laboratory Code: <b>5 8 6 7</b>
	Y Y M M D D T T T T
Submitted by: <b>FGL Environmental</b>	Phone # <b>(805) 659-0910</b>

### GENERAL MINERAL & PHYSICAL CHEMICALS

MCL	UNITS	CHEMICAL	ENTRY	RESULT	DLR
45	mg/L	Nitrate (NO <sub>3</sub> )	71850	72	1.6

### ADDITIONAL INORGANIC CHEMICALS

MCL	UNITS	CHEMICAL	ENTRY	RESULT	DLR
	mg/L	Chlorine Residual		7.4	0.50

MCL - Maximum Contaminate Level      DLR - Detection Limit for Reporting purposes      ND - Not Detected at or above DLR  
 + Indicates Secondary Drinking Water Standards

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**Analytical Chemists**

November 9, 2000

**Inorganic Quality Assurance Report for sample: 35013**

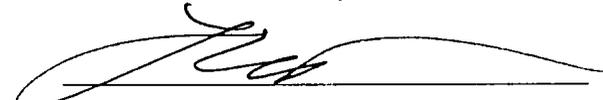
 NASA Ames Research Center  
 Attn: Shelly Navarro  
 Mail Stop 19-21  
 Moffett, CA 94035-1000

Actual sample results are contained in the accompanying analytical report(s).

Constituent	BATCH ID	Method	Units	BLANK QA/QC			CALIBRATION QA/QC					METHOD QA/QC						
				DLR	Result	NOTE	Type	Conc.	% REC	AR	NOTE	Type	Conc.	% REC	% REC	AR	% DIF	MAV
Chlorine Residual	0A12C	4500Cl G	mg/L	0.10	ND		CCV	1.00	107	90-110		Dup	7.34	N/A	N/A	N/A	1.2	20.0
Nitrate	9C 2C	4500N03F	mg/L	0.40	ND		CCV	17.7	103	90-110		MS	17.7	110	110	87-115	0.0	7.4
	9C 2E	4500N03F	mg/L	0.40	0.20		CCV	17.7	106	90-110		MS	17.7	106	106	90-116	0.7	6.0

FGL ID = 20001018 ND => Not Detected at above DLR. DLR => Detection Limit for Reporting purposes. N/A => Not Applicable NOTE => See note indicated below.  
 An explanation of QA terms is provided on the reverse side of this page.

FGL ENVIRONMENTAL, INC.

  
 Kurt Wilkinson, B.S., QA Director

KW:JEC

**Analytical Chemists**

November 27, 2000

**RE: BACTERIOLOGICAL**

Page 1

**NASA Ames Research Center**  
 Attn: Shelly Navarro  
 Mail Stop 19-21  
 Moffett, CA 94035-1000

 System Number:  
 Project Name: Crows Landing-Monthly

**SAMPLE INFORMATION:**

ID #	FGL Lab Number	Description	Sample Reason	Sample Type	Sampler	Employed By	Sampled		Started		Finished Date	Foot Note
							Date	Time	Date	Time		
1	STK 35013-01	Wellhead-Well #3	Routine	Source	Mike Ostrom	FGL Environmental	10/18/2000	12:35	10/18/2000	18:30	10/19/2000	
2	STK 35013-02	Tank Spigot	Routine	System	Mike Ostrom	FGL Environmental	10/18/2000	12:35	10/18/2000	18:30	10/19/2000	

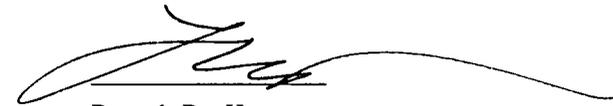
O/S Out of Service Well. # The 30hr holding time for this DW sample has been exceeded. ? No sample time provided, holding time may have been exceeded.

**ANALYTICAL RESULTS:**

ID #	Description	Cl <sub>2</sub> Residual	Temp °F	Method	Units	Coliform Result		Person	Notification		Total Coliform Rule	
						Total	Fecal		Date	Time	Total	Fecal
1	Wellhead-Well #3	---		C/F - P/A	P/A /100ml	- ABSENT	N/R	N/R	--	-	Pass	Pass
2	Tank Spigot	---		C/F - P/A	P/A /100ml	- ABSENT	N/R	N/R	--	-	Pass	Pass

N/R Not Required MPN Most Probable Number P/A Presence/Absence \* E. coli specific C/F Chromogenic/Fluorogenic

The State Board of Health requires that bacteriological results must be 'ABSENT' to meet drinking water requirements. Analyses were performed using Standard Methods 18th edition, APHA. If you have any questions regarding your results, please call.

**FGL ENVIRONMENTAL**


Raquel R. Harvey

RRH:cl



# ENVIRONMENTAL

## ANALYTICAL CHEMISTS

GENERAL MINERAL, PHYSICAL, INORGANIC, & RADIOLOGICAL CHEMICAL ANALYSES

Date of Report: October 6, 2000

Sample ID No. STK 34383-05

Laboratory

Signature Lab

Name: FGL Environmental

Director: 

Name of Sampler: Don Miles

Employed By: FGL Environmental

Date/time Sample

Date/Time Sample

Date Analyses

Collected: 09/13/2000-1515 Rec. @ Lab: 09/13/2000-1630 Completed: 09/15/2000

System

System

Name: CROWS LANDING

Number:

Name or Number of Sample Source: Storage Tank 1515

User ID:	Station Number:
Date/Time of Sample: 0 0 0 9 1 3 1 5 1 5	Laboratory Code: 5 8 6 7
Y Y M M D D T T T T	
Submitted by: FGL Environmental	Phone #(805) 659-0910

### GENERAL MINERAL & PHYSICAL CHEMICALS

MCL	UNITS	CHEMICAL	ENTRY	RESULT	DLR
45	mg/L	Nitrate (NO <sub>3</sub> )	71850	73	1.6

### ADDITIONAL INORGANIC CHEMICALS

MCL	UNITS	CHEMICAL	ENTRY	RESULT	DLR
	mg/L	Chlorine Residual		ND	0.1

MCL - Maximum Contaminate Level      DLR - Detection Limit for Reporting purposes      ND - Not Detected at or above DLR  
 + Indicates Secondary Drinking Water Standards

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 FAX: 559/734-8435  
 Mobile: 559/737-2399

**Analytical Chemists**

October 6, 2000

**Inorganic Quality Assurance Report for sample: 34383**

 ACI Corporation  
 NASA Ames Research Center  
 Building 19, Room 1070A  
 MS/19-21 Shelly Navarro  
 Moffett Field, CA 94035-1000

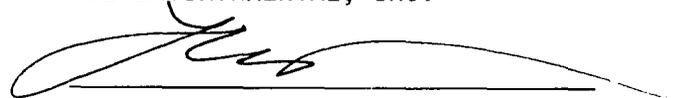
Actual sample results are contained in the accompanying analytical report(s).

Constituent	BATCH ID	Method	Units	BLANK QA/QC			CALIBRATION QA/QC					METHOD QA/QC							
				DLR	Result	NOTE	Type	Conc.	% REC	AR	NOTE	Type	Conc.	% REC	% REC	AR	% DIF	MAV	NOTE
Chlorine Residual	0A12C1	4500Cl G	mg/L	0.10	ND		CCV	1.00	103	90-110		Dup	-.00905	N/A	N/A	N/A	0.0	20.0	
Nitrate	1C 2A	4500NO3F	mg/L	0.40	ND		CCV	17.7	100	90-110		MS	17.7	98.5	97.6	90-116	0.9	6.0	

FGL ID = 20000914 ND => Not Detected at above DLR. DLR => Detection Limit for Reporting purposes. N/A => Not Applicable NOTE => See note indicated below.  
 An explanation of QA terms is provided on the reverse side of this page.

KW:kdm

FGL ENVIRONMENTAL, INC.



Kurt Wilkinson, B.S., QA Director







## Analytical Chemists

August 5, 2000

Inorganic Quality Assurance Report for sample: 33020

SAIC/Science Application  
NASA Ames Res Center Bldg 19  
Room 1070 Annex Attn: Bob Javinsky  
Moffett, CA 94035-1000

Actual sample results are contained in the accompanying analytical report(s).

Constituent	BATCH ID	Method	Units	BLANK QA/QC			CALIBRATION QA/QC					METHOD QA/QC						
				DLR	Result	NOTE	Type	Conc.	% REC	AR	NOTE	Type	Conc.	% REC	% REC	AR	% DIF	MAV
Chlorine Residual	0A13A	4500CL G	mg/L	0.10	ND		CCV	0.750	104	90-110		Dup	7.90	N/A	N/A	N/A	1.9	20.0
Nitrate	3C 2A	4500NO3F	mg/L	0.40	ND		CCV	17.7	100	90-110		MS	17.7	102	101	90-116	0.7	6.0

FGL ID = 20000711 ND => Not Detected at above DLR. DLR => Detection Limit for Reporting purposes. N/A => Not Applicable NOTE => See note indicated below.  
An explanation of QA terms is provided on the reverse side of this page.

KW:kdm

FGL ENVIRONMENTAL, INC.

  
Kurt Wilkinson, B.S., QA Director

**Analytical Chemists**

August 5, 2000

**RE: BACTERIOLOGICAL**

Page 1

**SAIC/Science Application**

 NASA Ames Res Center Bldg 19  
 Room 1070 Annex Attn: Bob Javinsky  
 Moffett, CA 94035-1000

System Number:

Project Name: Crows Landing-Monthly

**SAMPLE INFORMATION:**

ID #	FGL Lab Number	Description	Sample Reason	Sample Type	Sampler	Employed By	Sampled		Started		Finished Date	Foot Note
							Date	Time	Date	Time		
1	STK 33020-01	Wellhead-Well #3	Routine	Source	Perry Centeno	FGL Environmental	07/11/2000	14:40	07/11/2000	17:01	07/12/2000	
2	STK 33020-02	Tank Spigot	Routine	System	Perry Centeno	FGL Environmental	07/11/2000	14:35	07/11/2000	17:02	07/12/2000	

O/S Out of Service Well. # The 30hr holding time for this DW sample has been exceeded. ? No sample time provided, holding time may have been exceeded.

**ANALYTICAL RESULTS:**

ID #	Description	Cl <sub>2</sub> Residual	Temp °F	Method	Units	Coliform Result		Person	Notification		Total Coliform Rule	
						Total	Fecal		Date	Time	Total	Fecal
1	Wellhead-Well #3	---		C/F - P/A	P/A /100ml	- ABSENT	N/R	N/R	--	-	Pass	Pass
2	Tank Spigot	---		C/F - P/A	P/A /100ml	- ABSENT	N/R	N/R	--	-	Pass	Pass

N/R Not Required MPN Most Probable Number P/A Presence/Absence \* E. coli specific C/F Chromogenic/Fluorogenic

The State Board of Health requires that bacteriological results must be 'ABSENT' to meet drinking water requirements. Analyses were performed using Standard Methods 18th edition, APHA. If you have any questions regarding your results, please call.

FGL ENVIRONMENTAL



Raquel R. Harvey

RRH:kdm



# ENVIRONMENTAL

## ANALYTICAL CHEMISTS

GENERAL MINERAL, PHYSICAL, INORGANIC, & RADIOLOGICAL CHEMICAL ANALYSES

Date of Report: **May 1, 2000** Sample ID No. **STK 31713-01**  
 Laboratory Signature Lab  
 Name: **FGL Environmental** Director: \_\_\_\_\_  
 Name of Sampler: **Jeff Mason** Employed By: **FGL Environmental**  
 Date/time Sample Date/Time Sample Date Analyses  
 Collected: **04/18/2000-1420** Rec. @ Lab: **04/18/2000-1540** Completed: **04/24/2000**

System Name: **Crows Landing** System Number:

Name or Number of Sample Source: **Wellhead-Well #3**

User ID:	Station Number:
Date/Time of Sample: <b>0 0 0 4 1 8 1 4 2 0</b> Y Y M M D D T T T T	Laboratory Code: <b>5 8 6 7</b>
Submitted by: <b>FGL Environmental</b>	Phone # <b>(805) 659-0910</b>

### GENERAL MINERAL & PHYSICAL CHEMICALS

MCL	UNITS	CHEMICAL	ENTRY	RESULT	DLR
45	mg/L	Nitrate (NO <sub>3</sub> )	71850	64	1.2

MCL - Maximum Contaminate Level      DLR - Detection Limit for Reporting purposes      ND - Not Detected at or above DLR  
 \* 250-500-600      \*\* 900-1600-2200      \*\*\* 500-1000-1500      + Indicates Secondary Drinking Water Standards

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 Mobile: 559/737-2399



# ENVIRONMENTAL

## ANALYTICAL CHEMISTS

GENERAL MINERAL, PHYSICAL, INORGANIC, & RADIOLOGICAL CHEMICAL ANALYSES

Date of Report: May 1, 2000  
Laboratory

Sample ID No. STK 31713-02

Name: FGL Environmental

Signature Lab

Director:

Name of Sampler: Jeff Mason

Employed By: FGL Environmental

Date/time Sample

Date/Time Sample

Date Analyses

Collected: 04/18/2000-1425 Rec. @ Lab: 04/18/2000-1540 Completed: 04/18/2000

System

System

Name: Crows Landing

Number:

Name or Number of Sample Source: Tank Spigot

User ID:	Station Number:
Date/Time of Sample: 0 0 0 4 1 8 1 4 2 5 Y Y M M D D T T T T	Laboratory Code: 5 8 6 7
Submitted by: FGL Environmental	Phone #(805) 659-0910

### GENERAL MINERAL & PHYSICAL CHEMICALS

MCL	UNITS	CHEMICAL	ENTRY	RESULT	DLR
45	mg/L	Nitrate (NO <sub>3</sub> )	71850	71	2.0

### ADDITIONAL INORGANIC CHEMICALS

MCL	UNITS	CHEMICAL	ENTRY	RESULT	DLR
	mg/L	Chlorine Residual		4.5	0.50

MCL - Maximum Contaminate Level      DLR - Detection Limit for Reporting purposes      ND - Not Detected at or above DLR  
+ Indicates Secondary Drinking Water Standards

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## Analytical Chemists

May 1, 2000

Inorganic Quality Assurance Report for sample: 31713

SAIC/Science Application  
NASA Ames Res Center Bldg 19  
Room 1070 Annex Attn: Bob Javinsky  
Moffett, CA 94035-1000

Actual sample results are contained in the accompanying analytical report(s).

Constituent	BATCH ID	Method	Units	BLANK QA/QC			CALIBRATION QA/QC					METHOD QA/QC							
				DLR	Result	NOTE	Type	Conc.	% REC	AR	NOTE	Type	Conc.	% REC	% REC	AR	% DIF	MAV	NOTE
Chlorine Residual	0A13A	4500Cl G	mg/L	0.10	ND		CCV	0.748	93.9	90-110		Dup	106	N/A	N/A	N/A	3.8	20.0	
Nitrate	6C 2B	4500NO3F	mg/L	0.40	ND		CCV	17.7	97.6	90-110		MS	17.7	105	101	90-116	3.3	6.0	

FGL ID = 20000418 ND => Not Detected at above DLR. DLR => Detection Limit for Reporting purposes. N/A => Not Applicable NOTE => See note indicated below.  
An explanation of QA terms is provided on the reverse side of this page.

KW:kdm

FGL ENVIRONMENTAL, INC.

Kurt Wilkinson, B.S., QA Director

**Analytical Chemists**

April 24, 2000

**RE: BACTERIOLOGICAL**

Page 1

**SAIC/Science Application**

 NASA Ames Res Center Bldg 19  
 Room 1070 Annex Attn: Bob Javinsky  
 Moffett, CA 94035-1000

System Number:

Project Name: Crows Landing-Monthly

**SAMPLE INFORMATION:**

ID #	FGL Lab Number	Description	Sample Reason	Sample Type	Sampler	Employed By	Sampled		Started		Finished Date	Foot Note
							Date	Time	Date	Time		
1	STK 31713-01	Wellhead-Well #3	Routine	Source	Jeff Mason	FGL Environmental	04/18/2000	14:20	04/18/2000	17:15	04/19/2000	
2	STK 31713-02	Tank Spigot	Routine	System	Jeff Mason	FGL Environmental	04/18/2000	14:25	04/18/2000	17:16	04/19/2000	

O/S Out of Service Well. ! The 30hr holding time for this DW sample has been exceeded. ? No sample time provided, holding time may have been exceeded.

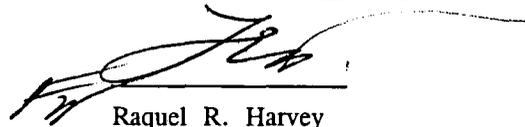
**ANALYTICAL RESULTS:**

ID #	Description	Cl <sub>2</sub> Residual	Temp °F	Method	Units	Coliform Result		Person	Notification		Total Coliform Rule		
						Total	Fecal		Date	Time	Total	Fecal	
1	Wellhead-Well #3	---		C/F - P/A	P/A /100ml	-	ABSENT	N/R	N/R	--	-	Pass	Pass
2	Tank Spigot	---		C/F - P/A	P/A /100ml	-	ABSENT	N/R	N/R	--	-	Pass	Pass

N/R Not Required MPN Most Probable Number P/A Presence/Absence \* E. coli specific C/F Chromogenic/Fluorogenic

The State Board of Health requires that bacteriological results must be 'ABSENT' to meet drinking water requirements. Analyses were performed using Standard Methods 18th edition, APHA. If you have any questions regarding your results, please call.

FGL ENVIRONMENTAL



Raquel R. Harvey

RRH:cl





# ENVIRONMENTAL

## ANALYTICAL CHEMISTS

GENERAL MINERAL, PHYSICAL, INORGANIC, & RADIOLOGICAL CHEMICAL ANALYSES

Date of Report: July 5, 2000      Sample ID No. **STK 32505-02**  
 Laboratory Signature Lab  
 Name: **FGL Environmental**      Director: \_\_\_\_\_  
 Name of Sampler: **PC/FA**      Employed By: **FGL Environmental**  
 Date/time Sample      Date/Time Sample      Date Analyses  
 Collected: **06/06/2000-1530** Rec. @ Lab: **06/06/2000-1640** Completed: **06/06/2000**

System Name: **CROWS LANDING**      System Number:

Name or Number of Sample Source: **Tank Spigot**

User ID:	Station Number:
Date/Time of Sample: <b>0 0 0 6 0 6 1 5 3 0</b>	Laboratory Code: <b>5 8 6 7</b>
	Y Y M M D D T T T T
Submitted by: <b>FGL Environmental</b>	Phone # <b>(805) 659-0910</b>

### GENERAL MINERAL & PHYSICAL CHEMICALS

MCL	UNITS	CHEMICAL	ENTRY	RESULT	DLR
45	mg/L	Nitrate (NO <sub>3</sub> )	71850	69	2.4

### ADDITIONAL INORGANIC CHEMICALS

MCL	UNITS	CHEMICAL	ENTRY	RESULT	DLR
	mg/L	Chlorine Residual		4	1.0

MCL - Maximum Contaminate Level      DLR - Detection Limit for Reporting purposes      ND - Not Detected at or above DLR  
 + Indicates Secondary Drinking Water Standards

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**Analytical Chemists**

July 5, 2000

**Inorganic Quality Assurance Report for sample: 32505**

 SAIC/Science Application  
 NASA Ames Res Center Bldg 19  
 Room 1070 Annex Attn: Bob Javinsky  
 Moffett, CA 94035-1000

Actual sample results are contained in the accompanying analytical report(s).

Constituent	BATCH ID	Method	Units	BLANK QA/QC			CALIBRATION QA/QC					METHOD QA/QC							
				DLR	Result	NOTE	Type	Conc.	% REC	AR	NOTE	Type	Conc.	% REC	% REC	AR	% DIF	MAV	NOTE
Chlorine Residual	0A13A	4500Cl G	mg/L	0.10	ND		CCV	0.750	108	90-110		Dup	0.0160	N/A	N/A	N/A	25.0	20.0	410
Nitrate	6C 2A	4500NO3F	mg/L	0.40	0.07		CCV	17.7	97.0	90-110		MS	17.7	103	103	90-116	0.1	6.0	

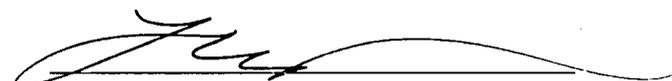
FGL ID.= 20000606 ND => Not Detected at above DLR. DLR => Detection Limit for Reporting purposes. N/A => Not Applicable NOTE => See note indicated below.  
 An explanation of QA terms is provided on the reverse side of this page.

**Notes:**

410 Relative Percent Difference (RPD) not within Maximum Allowable Value (MAV). Data was accepted based on the LCS or CCV recovery.

KW:kdm

FGL ENVIRONMENTAL, INC.

  
 Kurt Wilkinson, B.S., QA Director

**Analytical Chemists**

June 14, 2000

**RE: BACTERIOLOGICAL**

Page 1

**SAIC/Science Application**

 NASA Ames Res Center Bldg 19  
 Room 1070 Annex Attn: Bob Javinsky  
 Moffett, CA 94035-1000

System Number:

Project Name: Crows Landing-Monthly

**SAMPLE INFORMATION:**

ID #	FGL Lab Number	Description	Sample Reason	Sample Type	Sampler	Employed By	Sampled		Started		Finished Date	Foot Note
							Date	Time	Date	Time		
1	STK 32505-01	Wellhead-Well #3	Routine	Source	PC/FA	FGL Environmental	06/06/2000	15:34	06/06/2000	17:42	06/07/2000	
2	STK 32505-02	Tank Spigot	Routine	Source	PC/FA	FGL Environmental	06/06/2000	15:30	06/06/2000	17:42	06/07/2000	

O/S Out of Service Well. ■ The 30hr holding time for this DW sample has been exceeded. ? No sample time provided, holding time may have been exceeded.

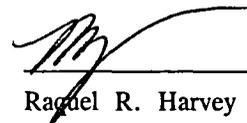
**ANALYTICAL RESULTS:**

ID #	Description	Cl <sub>2</sub> Residual	Temp °F	Method	Units	Coliform Result		Person	Notification		Total Coliform Rule		
						Total	Fecal		Date	Time	Total	Fecal	
1	Wellhead-Well #3	---		C/F - P/A	P/A /100ml	-	ABSENT	N/R	N/R	--	-	Pass	Pass
2	Tank Spigot	---		C/F - P/A	P/A /100ml	-	ABSENT	N/R	N/R	--	-	Pass	Pass

N/R Not Required MPN Most Probable Number P/A Presence/Absence \* E. coli specific C/F Chromogenic/Fluorogenic

The State Board of Health requires that bacteriological results must be 'ABSENT' to meet drinking water requirements. Analyses were performed using Standard Methods 18th edition, APHA. If you have any questions regarding your results, please call.

FGL ENVIRONMENTAL


 Raquel R. Harvey

RRH:kdm



# ENVIRONMENTAL

## ANALYTICAL CHEMISTS

GENERAL MINERAL, PHYSICAL, INORGANIC, & RADIOLOGICAL CHEMICAL ANALYSES

Date of Report: March 3, 2000

Sample ID No. STK 30748-01

Laboratory

Signature Lab

Name: FGL Environmental

Director:

Name of Sampler: Jeff Mason

Employed By: FGL Environmental

Date/time Sample

Date/Time Sample

Date Analyses

Collected: 02/15/2000-1545 Rec. @ Lab: 02/15/2000-1645 Completed: 02/23/2000

System

System

Name: CROW'S LANDING

Number:

Name or Number of Sample Source: Wellhead-Well #3

User ID:	Station Number:
Date/Time of Sample: 0 0 0 2 1 5 1 5 4 5 Y Y M M D D T T T T	Laboratory Code: 5 8 6 7
Submitted by: FGL Environmental	Phone #(805) 659-0910

### GENERAL MINERAL & PHYSICAL CHEMICALS

MCL	UNITS	CHEMICAL	ENTRY	RESULT	DLR
45	mg/L	Nitrate (NO <sub>3</sub> )	71850	71	2.0

MCL - Maximum Contaminate Level

DLR - Detection Limit for Reporting purposes

ND - Not Detected at or above DLR

\* 250-500-600

\*\* 900-1600-2200

\*\*\* 500-1000-1500

+ Indicates Secondary Drinking Water Standards

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# ENVIRONMENTAL

## ANALYTICAL CHEMISTS

GENERAL MINERAL, PHYSICAL, INORGANIC, & RADIOLOGICAL CHEMICAL ANALYSES

Date of Report: **March 3, 2000** Sample ID No. **STK 30748-02**  
 Laboratory Signature Lab  
 Name: **FGL Environmental** Director:  
 Name of Sampler: **Jeff Mason** Employed By: **FGL Environmental**  
 Date/time Sample Date/Time Sample Date Analyses  
 Collected: **02/15/2000-1550** Rec. @ Lab: **02/15/2000-1645** Completed: **02/15/2000**

System Name: **CROW'S LANDING** System Number:

Name or Number of Sample Source: **Tank Spigot**

User ID:	Station Number:
Date/Time of Sample: <b>0 0 0 2 1 5 1 5 5 0</b>	Laboratory Code: <b>5 8 6 7</b>
	Y Y M M D D T T T T
Submitted by: <b>FGL Environmental</b>	Phone # <b>(805) 659-0910</b>

### GENERAL MINERAL & PHYSICAL CHEMICALS

MCL	UNITS	CHEMICAL	ENTRY	RESULT	DLR
45	mg/L	Nitrate (NO <sub>3</sub> )	71850	66	1.2

### ADDITIONAL INORGANIC CHEMICALS

MCL	UNITS	CHEMICAL	ENTRY	RESULT	DLR
	mg/L	Chlorine Residual		3	1.0

MCL - Maximum Contaminate Level      DLR - Detection Limit for Reporting purposes      ND - Not Detected at or above DLR  
 + Indicates Secondary Drinking Water Standards

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**Analytical Chemists**

March 3, 2000

**Inorganic Quality Assurance Report for sample: 30748**

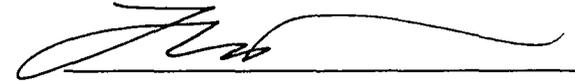
 SAIC/Science Application  
 NASA Ames Res Center Bldg 19  
 Room 1070 Annex Attn: Bob Javinsky  
 Moffett, CA 94035-1000

Actual sample results are contained in the accompanying analytical report(s).

Constituent	BATCH ID	Method	Units	BLANK QA/QC			CALIBRATION QA/QC					METHOD QA/QC							
				DLR	Result	NOTE	Type	Conc.	% REC	AR	NOTE	Type	Conc.	% REC	% REC	AR	% DIF	MAV	NOTE
Chlorine Residual	0A13A	4500Cl G	mg/L	0.10	0.01		CCV	0.748	96.9	90-110		Dup	0.460	N/A	N/A	N/A		3.9	20.0
Nitrate	7C 2A	4500N03F	mg/L	0.40	ND		CCV	17.7	94.3	90-110		MS	17.7	97.7	96.3	90-116		1.3	6.0
	7C 2B	4500N03F	mg/L	0.40	ND		CCV	17.7	95.0	90-110		MS	17.7	98.5	98.0	90-116		0.5	6.0

FGL ID = 20000215 ND => Not Detected at above DLR. DLR => Detection Limit for Reporting purposes. N/A => Not Applicable NOTE => See note indicated below.  
 An explanation of QA terms is provided on the reverse side of this page.

FGL ENVIRONMENTAL, INC.



Kurt Wilkinson, B.S., QA Director

KW:cea

**Analytical Chemists**

February 17, 2000

**RE: BACTERIOLOGICAL**

Page 1

**SAIC/Science Application**  
 NASA Ames Res Center Bldg 19  
 Room 1070 Annex Attn: Bob Javinsky  
 Moffett, CA 94035-1000

 System Number:  
 Project Name: Crows Landing-Monthly

**SAMPLE INFORMATION:**

ID #	FGL Lab Number	Description	Sample Reason	Sample Type	Sampler	Employed By	Sampled		Started		Finished Date	Foot Note
							Date	Time	Date	Time		
1	STK 30748-01	Wellhead-Well #3	Routine	Source	Jeff Mason	FGL Environmental	02/15/2000	15:45	02/15/2000	17:04	02/16/2000	
2	STK 30748-02	Tank Spigot	Routine	System	Jeff Mason	FGL Environmental	02/15/2000	15:50	02/15/2000	17:04	02/16/2000	

O/S Out of Service Well. ! The 30hr holding time for this DW sample has been exceeded. ? No sample time provided, holding time may have been exceeded.

**ANALYTICAL RESULTS:**

ID #	Description	Cl <sub>2</sub> Residual	Temp °F	Method	Units	Coliform Result		Notification			Total Coliform Rule	
						Total	Fecal	Person	Date	Time	Total	Fecal
1	Wellhead-Well #3	---		C/F - P/A	P/A /100ml	- ABSENT	N/R	N/R	--	-	Pass	Pass
2	Tank Spigot	---		C/F - P/A	P/A /100ml	- ABSENT	N/R	N/R	--	-	Pass	Pass

N/R Not Required MPN Most Probable Number P/A Presence/Absence \* E. coli specific C/F Chromogenic/Fluorogenic

The State Board of Health requires that bacteriological results must be 'ABSENT' to meet drinking water requirements. Analyses were performed using Standard Methods 18th edition, APHA. If you have any questions regarding your results, please call.

FGL ENVIRONMENTAL

  
 Raquel R. Harvey

RRH:JEC



# ENVIRONMENTAL

## ANALYTICAL CHEMISTS

GENERAL MINERAL, PHYSICAL, INORGANIC, & RADIOLOGICAL CHEMICAL ANALYSES

Date of Report: **January 25, 2000** Sample ID No. **STK 30093-01**  
 Laboratory Signature Lab  
 Name: **FGL Environmental** Director: *[Signature]*  
 Name of Sampler: **Jeff Mason** Employed By: **FGL Environmental**  
 Date/time Sample Date/Time Sample Date Analyses  
 Collected: **01/11/2000-1344** Rec. @ Lab: **01/11/2000-1505** Completed: **01/20/2000**

System Name: **Crow's Landing** System Number:

Name or Number of Sample Source: **Wellhead-Well #3**

User ID:	Station Number:
Date/Time of Sample: <b>0 0 0 1 1 1 1 3 4 4</b>	Laboratory Code: <b>5 8 6 7</b>
Y Y M M D D T T T T	
Submitted by: <b>FGL Environmental</b>	Phone # <b>(805) 659-0910</b>

### GENERAL MINERAL & PHYSICAL CHEMICALS

MCL	UNITS	CHEMICAL	ENTRY	RESULT	DLR
45	mg/L	Nitrate (NO <sub>3</sub> )	71850	63	1.6

MCL - Maximum Contaminate Level    DLR - Detection Limit for Reporting purposes    ND - Not Detected at or above DLR  
 \* 250-500-600    \*\* 900-1600-2200    \*\*\* 500-1000-1500    + Indicates Secondary Drinking Water Standards

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# ENVIRONMENTAL

## ANALYTICAL CHEMISTS

GENERAL MINERAL, PHYSICAL, INORGANIC, & RADIOLOGICAL CHEMICAL ANALYSES

Date of Report: January 25, 2000  
 Laboratory Name: FGL Environmental  
 Name of Sampler: Jeff Mason  
 Date/Time Sample Collected: 01/11/2000-1346 Rec. @ Lab: 01/11/2000-1505 Completed: 01/11/2000

Sample ID No. STK 30093-02  
 Signature Lab Director: *[Signature]*  
 Employed By: FGL Environmental  
 Date/Time Sample Date Analyses

System Name: Crow's Landing  
 System Number:

Name or Number of Sample Source: Tank Spigot

User ID:	Station Number:
Date/Time of Sample: 0 0 0 1 1 1 1 3 4 6 Y Y M M D D T T T T	Laboratory Code: 5 8 6 7
Submitted by: FGL Environmental	Phone #(805) 659-0910

### GENERAL MINERAL & PHYSICAL CHEMICALS

MCL	UNITS	CHEMICAL	ENTRY	RESULT	DLR
45	mg/L	Nitrate (NO <sub>3</sub> )	71850	71	1.6

### ADDITIONAL INORGANIC CHEMICALS

MCL	UNITS	CHEMICAL	ENTRY	RESULT	DLR
	mg/L	Chlorine Residual		6	5.0

MCL - Maximum Contaminate Level      DLR - Detection Limit for Reporting purposes      ND - Not Detected at or above DLR  
 + Indicates Secondary Drinking Water Standards

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**Analytical Chemists**

January 25, 2000

**Inorganic Quality Assurance Report** for sample: 30093

 SAIC/Science Application  
 NASA Ames Res Center Bldg 19  
 Room 1070 Annex Attn: Bob Javinsky  
 Moffett, CA 94035-1000

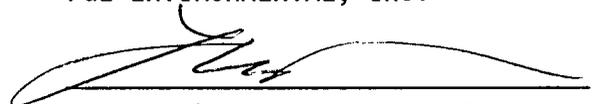
Actual sample results are contained in the accompanying analytical report(s).

Constituent	BATCH ID	Method	Units	BLANK QA/QC			CALIBRATION QA/QC					METHOD QA/QC							
				DLR	Result	NOTE	Type	Conc.	% REC	AR	NOTE	Type	Conc.	% REC	% REC	AR	% DIF	MAV	NOTE
Chlorine Residual	0A13A	4500Cl G	mg/L	0.10	0.01		CCV	0.748	91.0	90-110		Dup	0.0130	N/A	N/A	N/A	0.0	20.0	
Nitrate	9C 2A	4500NO3F	mg/L	0.40	0.06		CCV	17.7	97.1	90-110		MS	17.7	103	108	90-116	3.5	6.0	
	9C 2B	4500NO3F	mg/L	0.40	0.22		CCV	17.7	98.1	90-110		MS	17.7	103	103	90-116	0.2	6.0	

FGL ID = 20000111 ND => Not Detected at above DLR. DLR => Detection Limit for Reporting purposes. N/A => Not Applicable NOTE => See note indicated below.  
 An explanation of QA terms is provided on the reverse side of this page.

KW:VT

FGL ENVIRONMENTAL, INC.



Kurt Wilkinson, B.S., QA Director

**Analytical Chemists**

January 21, 2000

**RE: BACTERIOLOGICAL**

Page 1

**SAIC/Science Application**  
 NASA Ames Res Center Bldg 19  
 Room 1070 Annex Attn: Bob Javinsky  
 Moffett, CA 94035-1000

 System Number:  
 Project Name: Crows Landing-Monthly

**SAMPLE INFORMATION:**

ID #	FGL Lab Number	Description	Sample Reason	Sample Type	Sampler	Employed By	Sampled		Started		Finished Date	Foot Note
							Date	Time	Date	Time		
1	STK 30093-01	Wellhead-Well #3	Routine	Source	Jeff Mason	FGL Environmental	01/11/2000	13:44	01/11/2000	15:38	01/12/2000	
2	STK 30093-02	Tank Spigot	Routine	System	Jeff Mason	FGL Environmental	01/11/2000	13:46	01/11/2000	15:39	01/12/2000	

O/S Out of Service Well. ! The 30hr holding time for this DW sample has been exceeded. ? No sample time provided, holding time may have been exceeded.

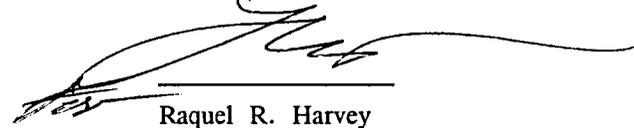
**ANALYTICAL RESULTS:**

ID #	Description	Cl <sub>2</sub> Residual	Temp °F	Method	Units	Coliform Result		Person	Notification		Total Coliform Rule		
						Total	Fecal		Date	Time	Total	Fecal	
1	Wellhead-Well #3	---		C/F - P/A	P/A /100ml	-	ABSENT	N/R		--	-	Pass	Pass
2	Tank Spigot	---		C/F - P/A	P/A /100ml	-	ABSENT	N/R		--	-	Pass	Pass

N/R Not Required MPN Most Probable Number P/A Presence/Absence \* E. coli specific C/F Chromogenic/Fluorogenic

The State Board of Health requires that bacteriological results must be 'ABSENT' to meet drinking water requirements. Analyses were performed using Standard Methods 18th edition, APHA. If you have any questions regarding your results, please call.

FGL ENVIRONMENTAL



Raquel R. Harvey

RRH:JMS



# ENVIRONMENTAL

## ANALYTICAL CHEMISTS

GENERAL MINERAL, PHYSICAL, INORGANIC, & RADIOLOGICAL CHEMICAL ANALYSES

Date of Report: **January 17, 2000**

Sample ID No. **STK 935765-01**

Laboratory

Signature Lab

Name: **FGL Environmental**

Director: *[Signature]*

Name of Sampler: **Jeff Mason**

Employed By: **FGL Environmental**

Date/time Sample

Date/Time Sample

Date Analyses

Collected: **12/14/1999-1424** Rec. @ Lab: **12/14/1999-1536** Completed: **12/22/1999**

System

System

Name: **CROWS LANDING**

Number:

Name or Number of Sample Source: **Wellhead-Well #3**

User ID:	Station Number:
Date/Time of Sample: <b>9 9 1 2 1 4 1 4 2 4</b> Y Y M M D D T T T T	Laboratory Code: <b>5 8 6 7</b>
Submitted by: <b>FGL Environmental</b>	Phone # <b>(805) 659-0910</b>

### GENERAL MINERAL & PHYSICAL CHEMICALS

MCL	UNITS	CHEMICAL	ENTRY	RESULT	DLR
45	mg/L	Nitrate (NO <sub>3</sub> )	71850	66.5	0.4

MCL - Maximum Contaminate Level      DLR - Detection Limit for Reporting purposes      ND - Not Detected at or above DLR  
 \* 250-500-600      \*\* 900-1600-2200      \*\*\* 500-1000-1500      + Indicates Secondary Drinking Water Standards

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# ENVIRONMENTAL

## ANALYTICAL CHEMISTS

GENERAL MINERAL, PHYSICAL, INORGANIC, & RADIOLOGICAL CHEMICAL ANALYSES

Date of Report: January 17, 2000

Sample ID No. ~~STK 935765-02~~

Laboratory

Signature Lab

Name: FGL Environmental

Director:

Name of Sampler: Jeff Mason

Employed By: FGL Environmental

Date/time Sample

Date/Time Sample

Date Analyses

Collected: 12/14/1999-1428 Rec. @ Lab: 12/14/1999-1536 Completed: 12/14/1999

System

System

Name: CROWS LANDING

Number:

Name or Number of Sample Source: Tank Spigot

User ID:	Station Number:
Date/Time of Sample: 9 9 1 2 1 4 1 4 2 8	Laboratory Code: 5 8 6 7
Y Y M M D D T T T T	
Submitted by: FGL Environmental	Phone #(805) 659-0910

### GENERAL MINERAL & PHYSICAL CHEMICALS

MCL	UNITS	CHEMICAL	ENTRY	RESULT	DLR
45	mg/L	Nitrate (NO <sub>3</sub> )	71850	73.4	0.4

### ADDITIONAL INORGANIC CHEMICALS

MCL	UNITS	CHEMICAL	ENTRY	RESULT	DLR
	mg/L	Chlorine Residual		2	1.0

MCL - Maximum Contaminate Level      DLR - Detection Limit for Reporting purposes      ND - Not Detected at or above DLR  
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# ENVIRONMENTAL

## Analytical Chemists

January 17, 2000

Inorganic Quality Assurance Report for sample: 935765

SAIC/Science Application  
NASA Ames Res Center Bldg 19  
Room 1070 Annex Attn: Bob Javinsky  
Moffett, CA 94035-1000

Actual sample results are contained in the accompanying analytical report(s).

Constituent	BATCH ID	Method	Units	BLANK QA/QC			CALIBRATION QA/QC					METHOD QA/QC							
				DLR	Result	NOTE	Type	Conc.	% REC	AR	NOTE	Type	Conc.	% REC	% REC	AR	% DIF	MAV	NOTE
Chlorine Residual	0A13A	4500Cl G	mg/L	0.10	0.01		CCV	0.748	95.6	90-110		Dup	38.0	N/A	N/A	N/A	10.8	20.0	
Nitrate	8C 2B	4500NO3F	mg/L	0.40	0.37		CCV	17.7	99.3	90-110		MS	17.7	103	102	87-115	1.7	7.4	

FGL ID = 19991214 ND => Not Detected at above DLR. DLR => Detection Limit for Reporting purposes. N/A => Not Applicable NOTE => See note indicated below.  
An explanation of QA terms is provided on the reverse side of this page.

KW:kdm

FGL ENVIRONMENTAL, INC.

Kurt Wilkinson, B.S., QA Director

## Analytical Chemists

January 6, 2000

RE: BACTERIOLOGICAL

Page 1

### SAIC/Science Application

NASA Ames Res Center Bldg 19  
 Room 1070 Annex Attn: Bob Javinsky  
 Moffett, CA 94035-1000

System Number:

Project Name: Crows Landing-Monthly

### SAMPLE INFORMATION:

ID #	FGL Lab Number	Description	Sample Reason	Sample Type	Sampler	Employed By	Sampled		Started		Finished Date	Foot Note
							Date	Time	Date	Time		
1	STK 935765-01	Wellhead-Well #3	Routine	Source	Jeff Mason	FGL Environmental	12/14/1999	14:24	12/14/1999	16:25	12/15/1999	

O/S Out of Service Well. ! The 30hr holding time for this DW sample has been exceeded. ? No sample time provided, holding time may have been exceeded.

### ANALYTICAL RESULTS:

ID #	Description	Cl <sub>2</sub> Residual	Temp °F	Method	Units	Coliform Result		Person	Notification		Total Coliform Rule	
						Total	Fecal		Date	Time	Total	Fecal
1	Wellhead-Well #3	---		C/F - P/A	P/A /100ml	- ABSENT	N/R	N/R	--	-	Pass	Pass

N/R Not Required MPN Most Probable Number P/A Presence/Absence \* E. coli specific C/F Chromogenic/Fluorogenic

The State Board of Health requires that bacteriological results must be 'ABSENT' to meet drinking water requirements. Analyses were performed using Standard Methods 18th edition, APHA. If you have any questions regarding your results, please call.

FGL ENVIRONMENTAL



\_\_\_\_\_  
 Raquel R. Harvey

RRH:cl



# ENVIRONMENTAL

## Analytical Chemists

January 6, 2000

RE: BACTERIOLOGICAL

Page 1

### SAIC/Science Application

NASA Ames Res Center Bldg 19  
Room 1070 Annex Attn: Bob Javinsky  
Moffett, CA 94035-1000

System Number:

Project Name: Crows Landing-Monthly

### SAMPLE INFORMATION:

ID #	FGL Lab Number	Description	Sample Reason	Sample Type	Sampler	Employed By	Sampled		Started		Finished Date	Foot Note
							Date	Time	Date	Time		
1	STK 935765-02	Tank Spigot	Routine	System	Jeff Mason	FGL Environmental	12/14/1999	14:28	12/14/1999	16:25	12/15/1999	

O/S Out of Service Well. ! The 30hr holding time for this DW sample has been exceeded. ? No sample time provided, holding time may have been exceeded.

### ANALYTICAL RESULTS:

ID #	Description	Cl <sub>2</sub> Residual	Temp °F	Method	Units	Coliform Result		Person	Notification		Total Coliform Rule	
						Total	Fecal		Date	Time	Total	Fecal
1	Tank Spigot	---		C/F - P/A	P/A /100ml	- ABSENT	N/R	N/R	--	-	Pass	Pass

N/R Not Required MPN Most Probable Number P/A Presence/Absence \* E. coli specific C/F Chromogenic/Fluorogenic

The State Board of Health requires that bacteriological results must be 'ABSENT' to meet drinking water requirements. Analyses were performed using Standard Methods 18th edition, APHA. If you have any questions regarding your results, please call.

FGL ENVIRONMENTAL

  
Raquel R. Harvey

RRH:cl





**Analytical Chemists**

December 7, 1999

**RE: BACTERIOLOGICAL**

Page 1

**SAIC/Science Application**

 NASA Ames Res Center Bldg 19  
 Room 1070 Annex Attn: Bob Javinsky  
 Moffett, CA 94035-1000

System Number:

Project Name: Crows Landing-Monthly

**SAMPLE INFORMATION:**

ID #	FGL Lab Number	Description	Sample Reason	Sample Type	Sampler	Employed By	Sampled		Started		Finished Date	Foot Note
							Date	Time	Date	Time		
1	STK 935521-01	Wellhead-Well #3	Routine	Source	Jeff Mason	FGL Environmental	11/23/1999	13:32	11/23/1999	17:22	11/24/1999	
2	STK 935521-02	Tank Spigot	Routine	System	Jeff Mason	FGL Environmental	11/23/1999	13:32	11/23/1999	17:31	11/24/1999	

O/S Out of Service Well. ! The 30hr holding time for this DW sample has been exceeded. ? No sample time provided, holding time may have been exceeded.

**ANALYTICAL RESULTS:**

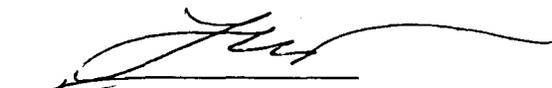
ID #	Description	Cl <sub>2</sub> Residual	Temp °F	Method	Units	Coliform Result		Person	Notification		Total Coliform Rule		
						Total	Fecal		Date	Time	Total	Fecal	
1	Wellhead-Well #3	---		C/F - P/A	P/A /100ml	-	ABSENT	N/R	N/R	--	-	Pass	Pass
2	Tank Spigot	---		C/F - P/A	P/A /100ml	-	ABSENT	N/R	N/R	--	-	Pass	Pass

N/R Not Required MPN Most Probable Number P/A Presence/Absence \* E. coli specific C/F Chromogenic/Fluorogenic

The State Board of Health requires that bacteriological results must be 'ABSENT' to meet drinking water requirements. Analyses were performed using Standard Methods 18th edition, APHA. If you have any questions regarding your results, please call.

FGL ENVIRONMENTAL

RRH:cea


  
 Raquel R. Harvey



# ENVIRONMENTAL

## Analytical Chemists

December 7, 1999

Inorganic Quality Assurance Report for sample: 935521

SAIC/Science Application  
NASA Ames Res Center Bldg 19  
Room 1070 Annex Attn: Bob Javinsky  
Moffett, CA 94035-1000

Actual sample results are contained in the accompanying analytical report(s).

Constituent	BATCH ID	Method	Units	BLANK QA/QC			CALIBRATION QA/QC					METHOD QA/QC						
				DLR	Result	NOTE	Type	Conc.	% REC	AR	NOTE	Type	Conc.	% REC	% REC	AR	% DIF	MAV
Chlorine Residual	0A13A	4500CL G	mg/L	0.10	0.01		CCV	1.28	90.6	90-110		Dup	58.6	N/A	N/A	N/A	2.9	20.0
Nitrate	7C 2B	4500NO3F	mg/L	0.40	0.33		CCV	17.7	110	90-110		MS	17.7	115	115	90-116	0.0	6.0

FGL ID = 19991123 ND => Not Detected at above DLR. DLR => Detection Limit for Reporting purposes. N/A => Not Applicable NOTE => See note indicated below.

An explanation of QA terms is provided on the reverse side of this page.

KW:cea

FGL ENVIRONMENTAL, INC.

Kurt Wilkinson, B.S., QA Director



# ENVIRONMENTAL

## ANALYTICAL CHEMISTS

GENERAL MINERAL, PHYSICAL, INORGANIC, & RADIOLOGICAL CHEMICAL ANALYSES

Date of Report: December 20, 1999

Sample ID No. STK 935563-02

Laboratory

Signature Lab

Name: FGL Environmental

Director:

Name of Sampler: Jeff Mason

Employed By: FGL Environmental

Date/time Sample

Date/Time Sample

Date Analyses

Collected: 11/30/1999-1332 Rec. @ Lab: 11/30/1999-1715 Completed: 12/09/1999

System

System

Name: CROWS LANDING

Number:

Name or Number of Sample Source: Tank Spigot

User ID:	Station Number:
Date/Time of Sample: 9 9 1 1 3 0 1 3 3 2	Laboratory Code: 5 8 6 7
Y Y M M D D T T T T	
Submitted by: FGL Environmental	Phone #(805) 659-0910

### GENERAL MINERAL & PHYSICAL CHEMICALS

MCL	UNITS	CHEMICAL	ENTRY	RESULT	DLR
45	mg/L	Nitrate (NO <sub>3</sub> )	71850	70	1.6

MCL - Maximum Contaminate Level      DLR - Detection Limit for Reporting purposes      ND - Not Detected at or above DLR  
 \* 250-500-600      \*\* 900-1600-2200      \*\*\* 500-1000-1500      + Indicates Secondary Drinking Water Standards

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# ENVIRONMENTAL

## Analytical Chemists

December 20, 1999

Inorganic Quality Assurance Report for sample: 935563

SAIC/Science Application  
NASA Ames Res. Center Bldg 19  
Room 1070 Annex Attn: Bob Javinsky  
Moffett, CA 94035-1000

Actual sample results are contained in the accompanying analytical report(s).

Constituent	BATCH ID	Method	Units	BLANK QA/QC			CALIBRATION QA/QC					METHOD QA/QC						
				DLR	Result	NOTE	Type	Conc.	% REC	AR	NOTE	Type	Conc.	% REC	% REC	AR	% DIF	MAV
Nitrate	0C 2A	4500NO3F	mg/L	0.40	0.20		CCV	17.7	98.6	90-110		MS	17.7	103	103	87-115	0.3	7.4

FGL ID = 19991209 ND => Not Detected at above DLR. DLR => Detection Limit for Reporting purposes. N/A => Not Applicable NOTE => See note indicated below.  
An explanation of QA terms is provided on the reverse side of this page.

KW:cea

FGL ENVIRONMENTAL, INC.

Kurt Wilkinson, B.S., QA Director



# ENVIRONMENTAL

## ANALYTICAL CHEMISTS

GENERAL MINERAL, PHYSICAL, INORGANIC, & RADIOLOGICAL CHEMICAL ANALYSES

Date of Report: **November 2, 1999** Sample ID No. **STK 934844-01**  
 Laboratory Signature Lab *[Signature]*  
 Name: **FGL Environmental** Director: *[Signature]*  
 Name of Sampler: **Stephen Bunce** Employed By: **FGL Environmental**  
 Date/time Sample Date/Time Sample Date Analyses  
 Collected: **10/20/1999-1323** Rec. @ Lab: **10/20/1999-1435** Completed: **10/21/1999**

System Name: **CROWS LANDING** System Number:

Name or Number of Sample Source: **Wellhead-Well #3**

User ID:	Station Number:
Date/Time of Sample: <b>9 9 1 0 2 0 1 3 2 3</b> Y Y M M D D T T T T	Laboratory Code: <b>5 8 6 7</b>
Submitted by: <b>FGL Environmental</b>	Phone # <b>(805) 659-0910</b>

### GENERAL MINERAL & PHYSICAL CHEMICALS

MCL	UNITS	CHEMICAL	ENTRY	RESULT	DLR
45	mg/L	Nitrate (NO <sub>3</sub> )	71850	62.3	0.8

MCL - Maximum Contaminate Level    DLR - Detection Limit for Reporting purposes    ND - Not Detected at or above DLR  
 \* 250-500-600    \*\* 900-1600-2200    \*\*\* 500-1000-1500    + Indicates Secondary Drinking Water Standards

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# ENVIRONMENTAL

## ANALYTICAL CHEMISTS

GENERAL MINERAL, PHYSICAL, INORGANIC, & RADIOLOGICAL CHEMICAL ANALYSES

Date of Report: **November 2, 1999** Sample ID No. **STK 934844-02**  
 Laboratory Signature Lab  
 Name: **FGL Environmental** Director: *[Signature]*  
 Name of Sampler: **Stephen Bunce** Employed By: **FGL Environmental**  
 Date/Time Sample Date/Time Sample Date Analyses  
 Collected: **10/20/1999-1328** Rec. @ Lab: **10/20/1999-1435** Completed: **10/20/1999**

System Name: **CROWS LANDING**

System Number:

Name or Number of Sample Source: **Tank Spigot**

User ID:	Station Number:
Date/Time of Sample: <b>9 9 1 0 2 0 1 3 2 8</b>	Laboratory Code: <b>5 8 6 7</b>
	<b>Y Y M M D D T T T T</b>
Submitted by: <b>FGL Environmental</b>	Phone # <b>(805) 659-0910</b>

### GENERAL MINERAL & PHYSICAL CHEMICALS

MCL	UNITS	CHEMICAL	ENTRY	RESULT	DLR
45	mg/L	Nitrate (NO <sub>3</sub> )	71850	66.9	0.8

### ADDITIONAL INORGANIC CHEMICALS

MCL	UNITS	CHEMICAL	ENTRY	RESULT	DLR
	mg/L	Chlorine Residual		3	1.0

MCL - Maximum Contaminate Level      DLR - Detection Limit for Reporting purposes      ND - Not Detected at or above DLR  
 + Indicates Secondary Drinking Water Standards

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 Mobile: 559/737-2399

**Analytical Chemists**

November 2, 1999

**Inorganic Quality Assurance Report for sample: 934844**

 SAIC/Science Application  
 NASA Ames Res Center Bldg 19  
 Room 1070 Annex Attn: Bob Javinsky  
 Moffett, CA 94035-1000

Actual sample results are contained in the accompanying analytical report(s).

Constituent	BATCH ID	Method	Units	BLANK QA/QC			CALIBRATION QA/QC					METHOD QA/QC						
				DLR	Result	NOTE	Type	Conc.	% REC	AR	NOTE	Type	Conc.	% REC	% REC	AR	% DIF	MAV
Chlorine Residual	0A13A	4500Cl G	mg/L	0.10	0.01		CCV	10.0	97.8	90-110		Dup	3.10	N/A	N/A	N/A	3.6	20.0
Nitrate	1C 2A	4500N03F	mg/L	0.40	ND		CCV	17.7	90.7	90-110		MS	17.7	92.7	91.7	90-116	0.8	6.0

FGL ID = 19991020 ND => Not Detected at above DLR. DLR => Detection Limit for Reporting purposes. N/A => Not Applicable NOTE => See note indicated below.  
 An explanation of QA terms is provided on the reverse side of this page.

KW:kdm

FGL ENVIRONMENTAL, INC.

  
 Kurt Wilkinson, B.S., QA Director



# ENVIRONMENTAL

## ANALYTICAL CHEMISTS

GENERAL MINERAL, PHYSICAL, INORGANIC, & RADIOLOGICAL CHEMICAL ANALYSES

Date of Report: October 4, 1999

Sample ID No. STK 934338-01

Laboratory

Signature Lab

Name: FGL Environmental

Director:

Name of Sampler: Brian Pabst

Employed By: FGL Environmental

Date/time Sample

Date/Time Sample

Date Analyses

Collected: 09/21/1999-1350 Rec. @ Lab: 09/21/1999-1500 Completed: 09/22/1999

System

System

Name: CROWS LANDING

Number:

Name or Number of Sample Source: Wellhead-Well #3

User ID:	Station Number:
Date/Time of Sample: 9 9 0 9 2 1 1 3 5 0	Laboratory Code: 5 8 6 7
Submitted by: FGL Environmental	Phone #(805) 659-0910
Y Y M M D D T T T T	

### GENERAL MINERAL & PHYSICAL CHEMICALS

MCL	UNITS	CHEMICAL	ENTRY	RESULT	DLR
45	mg/L	Nitrate (NO <sub>3</sub> )	71850	72	2.4

MCL - Maximum Contaminate Level      DLR - Detection Limit for Reporting purposes      ND - Not Detected at or above DLR  
 \* 250-500-600      \*\* 900-1600-2200      \*\*\* 500-1000-1500      + Indicates Secondary Drinking Water Standards

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# ENVIRONMENTAL

## Analytical Chemists

November 2, 1999

RE: BACTERIOLOGICAL

Page 1

### SAIC/Science Application

NASA Ames Res Center Bldg 19  
Room 1070 Annex Attn: Bob Javinsky  
Moffett, CA 94035-1000

System Number:

Project Name: Crows Landing-Monthly

### SAMPLE INFORMATION:

ID #	FGL Lab Number	Description	Sample Reason	Sample Type	Sampler	Employed By	Sampled		Started		Finished Date	Foot Note
							Date	Time	Date	Time		
1	STK 934844-01	Wellhead-Well #3	Routine	Source	Stephen Bunce	FGL Environmental	10/20/1999	13:23	10/20/1999	14:54	10/21/1999	
2	STK 934844-02	Tank Spigot	Routine	System	Stephen Bunce	FGL Environmental	10/20/1999	13:28	10/20/1999	14:54	10/21/1999	

O/S Out of Service Well. ■ The 30hr holding time for this DW sample has been exceeded. ? No sample time provided, holding time may have been exceeded.

### ANALYTICAL RESULTS:

ID #	Description	Cl <sub>2</sub> Residual	Temp °F	Method	Units	Coliform Result		Person	Notification		Total Coliform Rule	
						Total	Fecal		Date	Time	Total	Fecal
1	Wellhead-Well #3	---		C/F - P/A	P/A /100ml	- ABSENT	N/R	N/R	--	-	Pass	Pass
2	Tank Spigot	---		C/F - P/A	P/A /100ml	- ABSENT	N/R	N/R	--	-	Pass	Pass

N/R Not Required MPN Most Probable Number P/A Presence/Absence \* E. coli specific C/F Chromogenic/Fluorogenic

The State Board of Health requires that bacteriological results must be 'ABSENT' to meet drinking water requirements. Analyses were performed using Standard Methods 18th edition, APHA. If you have any questions regarding your results, please call.

FGL ENVIRONMENTAL

Raquel R. Harvey

RRH:kdm



# ENVIRONMENTAL

## ANALYTICAL CHEMISTS

GENERAL MINERAL, PHYSICAL, INORGANIC, & RADIOLOGICAL CHEMICAL ANALYSES

Date of Report: October 4, 1999      Sample ID No. STK 934338-01  
 Laboratory      Signature Lab  
 Name: **FGL Environmental**      Director: *[Signature]*  
 Name of Sampler: **Brian Pabst**      Employed By: **FGL Environmental**  
 Date/time Sample      Date/Time Sample      Date Analyses  
 Collected: **09/21/1999-1350** Rec. @ Lab: **09/21/1999-1500** Completed: **09/22/1999**

System      System  
 Name: **CROWS LANDING**      Number:

Name or Number of Sample Source: **Wellhead-Well #3**

User ID:	Station Number:
Date/Time of Sample: <b>9 9 0 9 2 1 1 3 5 0</b>	Laboratory Code: <b>5 8 6 7</b>
Y Y M M D D T T T T	
Submitted by: <b>FGL Environmental</b>	Phone # <b>(805) 659-0910</b>

### GENERAL MINERAL & PHYSICAL CHEMICALS

MCL	UNITS	CHEMICAL	ENTRY	RESULT	DLR
45	mg/L	Nitrate (NO <sub>3</sub> )	71850	72	2.4

MCL - Maximum Contaminate Level      DLR - Detection Limit for Reporting purposes      ND - Not Detected at or above DLR  
 \* 250-500-600      \*\* 900-1600-2200      \*\*\* 500-1000-1500      + Indicates Secondary Drinking Water Standards

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 Mobile: 559/737-2399



# ENVIRONMENTAL

## ANALYTICAL CHEMISTS

GENERAL MINERAL, PHYSICAL, INORGANIC, & RADIOLOGICAL CHEMICAL ANALYSES

Date of Report: **October 4, 1999** Sample ID No. **STK 934338-02**  
 Laboratory Signature Lab  
 Name: **FGL Environmental** Director:  
 Name of Sampler: **Brian Pabst** Employed By: **FGL Environmental**  
 Date/time Sample Date/Time Sample Date Analyses  
 Collected: **09/21/1999-1354** Rec. @ Lab: **09/21/1999-1500** Completed: **09/21/1999**

System Name: **CROWS LANDING** System Number:

Name or Number of Sample Source: **Tank Spigot**

User ID:	Station Number:
Date/Time of Sample: <b>9 9 0 9 2 1 1 3 5 4</b>	Laboratory Code: <b>5 8 6 7</b>
	Y Y M M D D T T T T
Submitted by: <b>FGL Environmental</b>	Phone # <b>(805) 659-0910</b>

### GENERAL MINERAL & PHYSICAL CHEMICALS

MCL	UNITS	CHEMICAL	ENTRY	RESULT	DLR
45	mg/L	Nitrate (NO <sub>3</sub> )	71850	67	2.4

### ADDITIONAL INORGANIC CHEMICALS

MCL	UNITS	CHEMICAL	ENTRY	RESULT	DLR
	mg/L	Chlorine Residual		2.0	0.50

MCL - Maximum Contaminate Level    DLR - Detection Limit for Reporting purposes    ND - Not Detected at or above DLR  
 + Indicates Secondary Drinking Water Standards

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# ENVIRONMENTAL

## Analytical Chemists

October 4, 1999

Inorganic Quality Assurance Report for sample: 934338

SAIC/Science Application  
NASA Ames Res Center Bldg 19  
Room 1070 Annex Attn: Bob Javinsky  
Moffett, CA 94035-1000

Actual sample results are contained in the accompanying analytical report(s).

Constituent	BATCH ID	Method	Units	BLANK QA/QC			CALIBRATION QA/QC					METHOD QA/QC						
				DLR	Result	NOTE	Type	Conc.	% REC	AR	NOTE	Type	Conc.	% REC	% REC	AR	% DIF	MAV
Chlorine Residual	0A13A	4500cl G	mg/L	0.10	0.01		CCV	10.0	103	90-110		Dup	1.99	N/A	N/A	N/A	1.0	20.0
Nitrate	1C 2A	4500N03F	mg/L	0.40	0.05		CCV	17.7	98.0	90-110		MS	17.7	103	100	90-116	2.8	6.0

FGL ID = 19990921 ND => Not Detected at above DLR. DLR => Detection Limit for Reporting purposes. N/A => Not Applicable NOTE => See note indicated below.  
An explanation of QA terms is provided on the reverse side of this page.

KW:kdm

FGL ENVIRONMENTAL, INC.

Kurt Wilkinson, B.S., QA Director



# ENVIRONMENTAL

## Analytical Chemists

October 4, 1999

RE: BACTERIOLOGICAL

Page 1

### SAIC/Science Application

NASA Ames Res Center Bldg 19  
Room 1070 Annex Attn: Bob Javinsky  
Moffett, CA 94035-1000

System Number:

Project Name: Crows Landing-Monthly

### SAMPLE INFORMATION:

ID #	FGL Lab Number	Description	Sample Reason	Sample Type	Sampler	Employed By	Sampled		Started		Finished Date	Foot Note
							Date	Time	Date	Time		
1	STK 934338-01	Wellhead-Well #3	Routine	Source	Brian Pabst	FGL Environmental	09/21/1999	13:50	09/21/1999	16:56	09/22/1999	
2	STK 934338-02	Tank Spigot	Routine	System	Brian Pabst	FGL Environmental	09/21/1999	13:54	09/21/1999	16:56	09/22/1999	

O/S Out of Service Well. !! The 30hr holding time for this DW sample has been exceeded. ? No sample time provided, holding time may have been exceeded.

### ANALYTICAL RESULTS:

ID #	Description	Cl <sub>2</sub> Residual	Temp °F	Method	Units	Coliform Result		Person	Notification		Total Coliform Rule		
						Total	Fecal		Date	Time	Total	Fecal	
1	Wellhead-Well #3	---		C/F - P/A	P/A /100ml	-	ABSENT	N/R		--	-	Pass	Pass
2	Tank Spigot	---		C/F - P/A	P/A /100ml	-	ABSENT	N/R		--	-	Pass	Pass

N/R Not Required MPN Most Probable Number P/A Presence/Absence \* E. coli specific C/F Chromogenic/Fluorogenic

The State Board of Health requires that bacteriological results must be 'ABSENT' to meet drinking water requirements. Analyses were performed using Standard Methods 18th edition, APHA. If you have any questions regarding your results, please call.

FGL ENVIRONMENTAL

RRH:kdM



Raquel R. Harvey



# ENVIRONMENTAL

## ANALYTICAL CHEMISTS

GENERAL MINERAL, PHYSICAL, INORGANIC, & RADIOLOGICAL CHEMICAL ANALYSES

Date of Report: August 20, 1999

Sample ID No. STR 933666-02

Laboratory

Signature Lab

Name: FGL Environmental

Director: *[Signature]*

Name of Sampler: Brian Pabst

Employed By: FGL Environmental

Date/time Sample

Date/Time Sample

Date Analyses

Collected: 08/10/1999-1347 Rec. @ Lab: 08/10/1999-1500 Completed: 08/10/1999

System

System

Name: CROWS LANDING

Number:

Name or Number of Sample Source: Tank Spigot

User ID:

Station Number:

Date/Time of Sample: 9 9 0 8 1 0 1 3 4 7

Laboratory Code: 5 8 6 7

Y Y M M D D T T T T

Submitted by: FGL Environmental

Phone #(805) 659-0910

### GENERAL MINERAL & PHYSICAL CHEMICALS

MCL	UNITS	CHEMICAL	ENTRY	RESULT	DLR
45	mg/L	Nitrate <sup>-</sup> (NO <sub>3</sub> )	71850	71	2.0

### ADDITIONAL INORGANIC CHEMICALS

MCL	UNITS	CHEMICAL	ENTRY	RESULT	DLR
	mg/L	Chlorine Residual		0.3	0.1

MCL - Maximum Contaminate Level    DLR - Detection Limit for Reporting purposes    ND - Not Detected at or above DLR  
+ Indicates Secondary Drinking Water Standards

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# ENVIRONMENTAL

## Analytical Chemists

August 20, 1999

Inorganic Quality Assurance Report for sample: 933666

SAIC/Science Application  
NASA Ames Res Center Bldg 19  
Room 1070 Annex Attn: Bob Javinsky  
Moffett, CA 94035-1000

Actual sample results are contained in the accompanying analytical report(s).

Constituent	BATCH ID	Method	Units	BLANK QA/QC			CALIBRATION QA/QC				METHOD QA/QC								
				DLR	Result	NOTE	Type	Conc.	% REC	AR	NOTE	Type	Conc.	% REC	% REC	AR	% DIF	MAV	NOTE
Chlorine Residual	0A13A	4500Cl G	mg/L	0.10	0.01		CCV	0.500	99.4	90-110		Dup	0.0220	N/A	N/A	N/A	0.0	20.0	
Nitrate	7C 2A	4500NO3F	mg/L	0.40	ND		CCV	17.7	99.4	90-110		MS	17.7	104	104	90-116	0.5	6.0	

FGL ID = 19990810 ND => Not Detected at above DLR. DLR => Detection Limit for Reporting purposes. N/A => Not Applicable NOTE => See note indicated below.  
An explanation of QA terms is provided on the reverse side of this page.

KW:cea

FGL ENVIRONMENTAL, INC.

Kurt Wilkinson, B.S., QA Director

## Analytical Chemists

August 17, 1999

RE: BACTERIOLOGICAL

Page 1

SAIC/Science Application  
 NASA Ames Res Center Bldg 19  
 Room 1070 Annex Attn: Bob Javinsky  
 Moffett, CA 94035-1000

System Number:  
 Project Name: Crows Landing-Monthly

### SAMPLE INFORMATION:

ID #	FGL Lab Number	Description	Sample Reason	Sample Type	Sampler	Employed By	Sampled Date	Sampled Time	Started Date	Started Time	Finished Date	Foot-Note
1	STK 933666-02	Tank Spigot	Routine	System	Brian Pabst	FGL Environmental	08/10/1999	13:47	08/10/1999	16:30	08/11/1999	

O/S Out of Service Well. † The 30hr holding time for this OW sample has been exceeded. ‡ No sample time provided, holding time may have been exceeded.

### ANALYTICAL RESULTS:

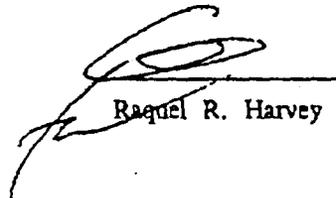
ID #	Description	Cl <sub>2</sub> Residual	Temp °F	Method	Units	Coliform Result		Person	Notification		Total Coliform Rule		
						Total	Fecal		Date	Time	Total	Fecal	
1	Tank Spigot	---		C/F - P/A	P/A /100ml	-	ABSENT	N/R	N/R	--	-	Pass	Pass

N/R Not Required MPH Most Probable Number P/A Presence/Absence \* E. coli specific C/F Chromogenic/Fluorogenic

The State Board of Health requires that bacteriological results must be 'ABSENT' to meet drinking water requirements. Analyses were performed using Standard Methods 18th edition, APHA. If you have any questions regarding your results, please call.

FGL ENVIRONMENTAL

RRH:kdm



Raquel R. Harvey



# ENVIRONMENTAL

## ANALYTICAL CHEMISTS

GENERAL MINERAL, PHYSICAL, INORGANIC, & RADIOLOGICAL CHEMICAL ANALYSES

Date of Report: August 4, 1999 Sample ID No. STK 933245-01  
 Laboratory Name: FGL Environmental Signature Lab: *[Signature]*  
 Name of Sampler: Zuzana M. Vona Director: *[Signature]*  
 Date/time Sample: Employed By: FGL Environmental  
 Collected: 07/18/1999-1450 Date/Time Sample: Date Analyses  
 Rec. @ Lab: 07/20/1999-1600 Completed: 07/26/1999

System Name: CROWS LANDING System Number:

Name or Number of Sample Source: Wellhead-Well #3

User ID:	Station Number:	
Date/Time of Sample: 9 9 0 7 1 8 1 4 5 0	Laboratory Code: 5 8 6 7	
	Y Y M M D D T T T T	
Submitted by: FGL Environmental	Phone #(805) 659-0910	

### GENERAL MINERAL & PHYSICAL CHEMICALS

MCL	UNITS	CHEMICAL	ENTRY	RESULT	DLR
45	mg/L	Nitrate (NO <sub>3</sub> )	71850	62	3.2

MCL - Maximum Contaminate Level      DLR - Detection Limit for Reporting purposes      ND - Not Detected at or above DLR  
 \* 250-500-600      \*\* 900-1600-2200      \*\*\* 500-1000-1500      + Indicates Secondary Drinking Water Standards

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## ENVIRONMENTAL

## ANALYTICAL CHEMISTS

GENERAL MINERAL, PHYSICAL, INORGANIC, &amp; RADIOLOGICAL CHEMICAL ANALYSES

Date of Report: August 4, 1999

Sample ID No. STK 933245-02

Laboratory

Signature Lab

Name: FGL Environmental

Director: *[Signature]*

Name of Sampler: Zuzana M. Vona

Employed By: FGL Environmental

Date/Time Sample

Date/Time Sample

Date Analyses

Collected: 07/18/1999-1453 Rec. @ Lab: 07/20/1999-1600 Completed: 07/20/1999

System

System

Name: CROWS LANDING

Number:

Name or Number of Sample Source: Tank Spigot

User ID:

Station Number:

Date/Time of Sample: 9 9 0 7 1 8 1 4 5 3

Laboratory Code: 5 8 6 7

Y Y M M D D T T T T

Submitted by: FGL Environmental

Phone #(805) 659-0910

## GENERAL MINERAL &amp; PHYSICAL CHEMICALS

MCL	UNITS	CHEMICAL	ENTRY	RESULT	DLR
45	mg/L	Nitrate (NO <sub>3</sub> )	71850	67	3.2

## ADDITIONAL INORGANIC CHEMICALS

MCL	UNITS	CHEMICAL	ENTRY	RESULT	DLR
	mg/L	Chlorine Residual		1.4	0.20

MCL - Maximum Contaminate Level

DLR - Detection Limit for Reporting purposes

ND - Not Detected at or above DLR

+ Indicates Secondary Drinking Water Standards

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012  
 FGL ENVIRONMENTAL  
 THU 15:07 FAX 805 525 4172  
 02:10:00



# ENVIRONMENTAL

MONTHLY

CHAIN OF CUSTODY  
 Laboratory Copy (1 of 3)

Client : SAIC / Science Application International  
 Address: SAIC/Science Application International  
 NASA Ames Res. Center Bldg. 19  
 Room 1070 Annex  
 Attn: Shelly Havarro  
 Moffett Field, CA 94035-1000  
 Phone : (650)604-0926  
 Fax : (650)604-2034 3-12560

Project Name : Crows Landing-Monthly  
 Contact person : Shelly Havarro  
 Chase Order Number:  
 QA/QC report required: Yes No

Sampler(s): 2/2/99  
 Comp sampler setup Date:   /  /   Time:   :  :    
 Rush Results Due By:   /  /    
 Date Received:   /  /    
 Lab Number: 933245

TEST DESCRIPTIONS - See reverse side for Container, Preservative and Sampling information

Sample Num	Location/Description	Date Sampled	Time Sampled	Type of Sampling: Composite(C) Grab(G)	Type of Sample	(P) Potable (NP) Non-Potable	NO <sub>2</sub> /NO <sub>3</sub> -P/A Cont. 4oz. (p)-Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Met-Chem - Cl Res. Cont. 125ml (at), 100cc (p)	Met Chem - NO <sub>3</sub> Cont. 100cc (p)
1	Wellhead-Well #3	7/20/99	1450	G	Spot			1.1 pH	
2	Tank Spigot	7/20/99	1453	G	Spot			1.1 pH	

ANALYSES PERFORMED IN STOCKTON:  
CL RES

ALL OTHER ANALYSES PERFORMED IN SANTA PAULA

Misc. Notes: (SP)  
 Relinquished By: [Signature] Date: 7/20/99 Time: 16:00  
 Received by: [Signature] Date: 7-20-99 Time: 16:00  
 Relinquished By: Y. STARR Date: 7-21-99 Time:   :  :    
 Received by: Greyhound Date: 7-22-99 Time: 12:10

# ENVIRONMENTAL

## Analytical Chemists

August 5, 1999

RE: BACTERIOLOGICAL

Page 1

SAIC/Science Application  
 NASA Ames Res Center Bldg 19  
 Room 1070 Annex Attn: Bob Iavinsky  
 Moffett, CA 94035-1000

System Number:  
 Project Name: Crows Landing-Monthly

### SAMPLE INFORMATION:

ID #	FGL Lab Number	Description	Sample Reason	Sample Type	Sampler	Employed By	Sampled Date	Sampled Time	Started Date	Started Time	Finished Date	Foot Note
1	STK 933245-01	Wellhead-Well #3	Routine	Source	Zuzana M. Vona	FGL Environmental	07/20/1999	14:50	07/20/1999	17:00	07/21/1999	
2	STK 933245-02	Tank Spigot	Routine	System	Zuzana M. Vona	FGL Environmental	07/20/1999	14:53	07/20/1999	17:00	07/21/1999	

O/S Out of Service Well. 1 The 30hr holding time for this DW sample has been exceeded. 2 No sample time provided, holding time may have been exceeded.

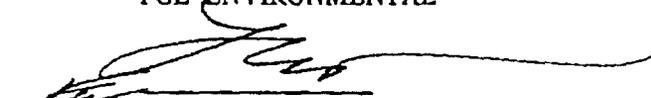
### ANALYTICAL RESULTS:

ID #	Description	Cl <sub>2</sub> Residual	Temp °F	Method	Units	Coliform Result		Notification			Total Coliform Rule		
						Total	Fecal	Person	Date	Time	Total	Fecal	
1	Wellhead-Well #3	---		C/F - P/A	P/A /100ml	-	ABSENT	N/R	N/R	--	-	Pass	Pass
2	Tank Spigot	---		C/F - P/A	P/A /100ml	-	ABSENT	N/R	N/R	--	-	Pass	Pass

N/R Not Required MPN Most Probable Number P/A Presence/Absence \* E. coli specific C/F Chromogenic/Fluorogenic

The State Board of Health requires that bacteriological results must be 'ABSENT' to meet drinking water requirements. Analyses were performed using Standard Methods 18th edition, APHA. If you have any questions regarding your results, please call.

FGL ENVIRONMENTAL



Raquel R. Harvey

RRH:kdm

02:10:00 THU 15:07 FAX 805 525 4172

FGL ENVIRONMENTAL

010

## Analytical Chemists

August 4, 1999

Inorganic Quality Assurance Report for sample: 933245

SAIC/Science Application  
 NASA Ames Res Center Bldg 19  
 Room 1070 Annex Attn: Bob Javinsky  
 Moffett, CA 94035-1000

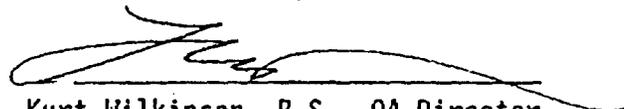
Actual sample results are contained in the accompanying analytical report(s).

Constituent	BATCH ID	Method	Units	BLANK QA/QC			CALIBRATION QA/QC				METHOD QA/QC								
				DLR	Result	NOTE	Type	Conc.	% REC	AR	NOTE	Type	Conc.	% REC	% REC	AR	% DIF	MAV	NOTE
Chlorine Residual	0A13A	4500Cl G	mg/L	0.10	0.01		CCV	0.500	101	90-110		Dup	1.16	H/A	H/A	H/A	1.7	20.0	
Nitrate	6C 2C	4500NO3F	mg/L	0.40	0.04		CCV	17.7	100	90-110		MS	17.7	98.7	97.9	90-116	0.6	6.0	

FGL ID = 19990720 HD => Not Detected at above DLR. DLR => Detection Limit for Reporting purposes. H/A => Not Applicable NOTE => See note indicated below.  
 An explanation of QA terms is provided on the reverse side of this page.

KW: kdm

FGL ENVIRONMENTAL, INC.



Kurt Wilkinson, B.S., QA Director



# ENVIRONMENTAL

## ANALYTICAL CHEMISTS

GENERAL MINERAL, PHYSICAL, INORGANIC, & RADIOLOGICAL CHEMICAL ANALYSES

Date of Report: July 19, 1999

Sample ID No. ~~STK~~ 932469-01

Laboratory

Signature Lab

Name: FGL Environmental

Director:

Name of Sampler: Brian Pabst

Employed By: FGL Environmental

Date/time Sample

Date/Time Sample

Date Analyses

Collected: 06/08/1999-1319 Rec. @ Lab: 06/08/1999-1600 Completed: 06/11/1999

System

System

Name: CROWS LANDING

Number:

Name or Number of Sample Source: Wellhead-Well #3

User ID:	Station Number:
Date/Time of Sample: 9 9 0 6 0 8 1 3 1 9 Y Y M M D D T T T T	Laboratory Code: 5 8 6 7
Submitted by: FGL Environmental	Phone #(805) 659-0910

### GENERAL MINERAL & PHYSICAL CHEMICALS

MCL	UNITS	CHEMICAL	ENTRY	RESULT	DLR
45	mg/L	Nitrate (NO <sub>3</sub> )	71850	69	1.6

MCL - Maximum Contaminate Level      DLR - Detection Limit for Reporting purposes      ND - Not Detected at or above DLR  
 \* 250-500-600      \*\* 900-1600-2200      \*\*\* 500-1000-1500      + Indicates Secondary Drinking Water Standards

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# ENVIRONMENTAL

## ANALYTICAL CHEMISTS

GENERAL MINERAL, PHYSICAL, INORGANIC, & RADIOLOGICAL CHEMICAL ANALYSES

Date of Report: July 19, 1999  
Laboratory

Sample ID No. **STK 932469-02**

Name: **FGL Environmental**  
Name of Sampler: **Brian Pabst**

Signature Lab  
Director: \_\_\_\_\_  
Employed By: **FGL Environmental**

Date/time Sample \_\_\_\_\_ Date/Time Sample \_\_\_\_\_ Date Analyses \_\_\_\_\_  
Collected: **06/08/1999-1324** Rec. @ Lab: **06/08/1999-1600** Completed: **06/08/1999**

System  
Name: **CROWS LANDING**

System  
Number:

Name or Number of Sample Source: **Tank Spigot**

User ID:	Station Number:
Date/Time of Sample: <b>9 9 0 6 0 8 1 3 2 4</b> <b>Y Y M M D D T T T T</b>	Laboratory Code: <b>5 8 6 7</b>
Submitted by: <b>FGL Environmental</b>	Phone # <b>(805) 659-0910</b>

### GENERAL MINERAL & PHYSICAL CHEMICALS

MCL	UNITS	CHEMICAL	ENTRY	RESULT	DLR
45	mg/L	Nitrate (NO <sub>3</sub> )	71850	72	1.6

### ADDITIONAL INORGANIC CHEMICALS

MCL	UNITS	CHEMICAL	ENTRY	RESULT	DLR
	mg/L	Chlorine Residual		1.0	0.20

MCL - Maximum Contaminate Level      DLR - Detection Limit for Reporting purposes      ND - Not Detected at or above DLR  
+ Indicates Secondary Drinking Water Standards

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# ENVIRONMENTAL

## Analytical Chemists

July 19, 1999

Inorganic Quality Assurance Report for sample: 932469

SAIC/Science Application  
NASA Ames Res Center Bldg 19  
Room 1070 Annex Attn: Bob Javinsky  
Moffett, CA 94035-1000

Actual sample results are contained in the accompanying analytical report(s).

Constituent	BATCH ID	Method	Units	BLANK QA/QC			CALIBRATION QA/QC					METHOD QA/QC						
				DLR	Result	NOTE	Type	Conc.	% REC	AR	NOTE	Type	Conc.	% REC	% REC	AR	% DIF	MAV
Chlorine Residual	0A13A	4500Cl G	mg/L	0.10	0.01		CCV	0.500	90.4	90-110		Dup	1.04	N/A	N/A	N/A	0.0	20.0
Nitrate	3C 2A	4500N03F	mg/L	0.40	ND		CCV	17.7	97.2	90-110		MS	17.7	103	102	90-116	0.7	6.0

FGL ID = 19990608 ND => Not Detected at above DLR. DLR => Detection Limit for Reporting purposes. N/A => Not Applicable NOTE => See note indicated below.  
An explanation of QA terms is provided on the reverse side of this page.

KW:cea

FGL ENVIRONMENTAL, INC.

Kurt Wilkinson, B.S., QA Director

**Analytical Chemists**

July 19, 1999

**RE: BACTERIOLOGICAL**

Page 1

**SAIC/Science Application**

NASA Ames Res Center Bldg 19  
 Room 1070 Annex Attn: Bob Javinsky  
 Moffett, CA 94035-1000

System Number:

Project Name: Crows Landing-Monthly

**SAMPLE INFORMATION:**

ID #	FGL Lab Number	Description	Sample Reason	Sample Type	Sampler	Employed By	Sampled Date	Sampled Time	Started Date	Started Time	Finished Date	Foot Note
1	STK 932469-01	Wellhead-Well #3	Routine	Source	Brian Pabst	FGL Environmental	06/08/1999	13:19	06/08/1999	15:21	06/09/1999	
2	STK 932469-02	Tank Spigot	Routine	System	Brian Pabst	FGL Environmental	06/08/1999	13:24	06/08/1999	15:21	06/09/1999	

O/S Out of Service Well. ■ The 30hr holding time for this DW sample has been exceeded. ? No sample time provided, holding time may have been exceeded.

**ANALYTICAL RESULTS:**

ID #	Description	Cl <sub>2</sub> Residual	Temp °F	Method	Units	Coliform Result		Person	Notification		Total Coliform Rule		
						Total	Fecal		Date	Time	Total	Fecal	
1	Wellhead-Well #3	---		C/F - P/A	P/A /100ml	-	ABSENT	N/R		--	-	Pass	Pass
2	Tank Spigot	---		C/F - P/A	P/A /100ml	-	ABSENT	N/R		--	-	Pass	Pass

N/R Not Required MPN Most Probable Number P/A Presence/Absence \* E. coli specific C/F Chromogenic/Fluorogenic

The State Board of Health requires that bacteriological results must be 'ABSENT' to meet drinking water requirements. Analyses were performed using Standard Methods 18th edition, APHA. If you have any questions regarding your results, please call.

FGL ENVIRONMENTAL



Raquel R. Harvey

RRH:cea



# ENVIRONMENTAL

## ANALYTICAL CHEMISTS

GENERAL MINERAL, PHYSICAL, INORGANIC, & RADIOLOGICAL CHEMICAL ANALYSES

Date of Report: May 28, 1999

Sample ID No. STK 931986-01

Laboratory

Signature Lab

Name: FGL Environmental

Director: *[Signature]*

Name of Sampler: Zuzana M. Vona

Employed By: FGL Environmental

Date/time Sample

Date/Time Sample

Date Analyses

Collected: 05/11/1999-1335 Rec. @ Lab: 05/11/1999-1450 Completed: 05/13/1999

System

System

Name: CROWS LANDING

Number:

Name or Number of Sample Source: Wellhead-Well #3

User ID:	Station Number:
Date/Time of Sample: 9 9 0 5 1 1 1 3 3 5	Laboratory Code: 5 8 6 7
Y Y M M D D T T T T	
Submitted by: FGL Environmental	Phone #(805) 659-0910

### GENERAL MINERAL & PHYSICAL CHEMICALS

MCL	UNITS	CHEMICAL	ENTRY	RESULT	DLR
45	mg/L	Nitrate (NO <sub>3</sub> )	71850	59	1.6

MCL - Maximum Contaminate Level      DLR - Detection Limit for Reporting purposes      ND - Not Detected at or above DLR  
 \* 250-500-600      \*\* 900-1600-2200      \*\*\* 500-1000-1500      + Indicates Secondary Drinking Water Standards

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# ENVIRONMENTAL

## ANALYTICAL CHEMISTS

GENERAL MINERAL, PHYSICAL, INORGANIC, & RADIOLOGICAL CHEMICAL ANALYSES

Date of Report: May 28, 1999

Sample ID No. STK 931986-02

Laboratory

Signature Lab

Name: FGL Environmental

Director: *[Signature]*

Name of Sampler: Zuzana M. Vona

Employed By: FGL Environmental

Date/time Sample

Date/Time Sample

Date Analyses

Collected: 05/11/1999-1340 Rec. @ Lab: 05/11/1999-1450 Completed: 05/11/1999

System

System

Name: CROWS LANDING

Number:

Name or Number of Sample Source: Tank Spigot

User ID:	Station Number:
Date/Time of Sample: 9 9 0 5 1 1 1 3 4 0 Y Y M M D D T T T T	Laboratory Code: 5 8 6 7
Submitted by: FGL Environmental	Phone #(805) 659-0910

### GENERAL MINERAL & PHYSICAL CHEMICALS

MCL	UNITS	CHEMICAL	ENTRY	RESULT	DLR
45	mg/L	Nitrate (NO <sub>3</sub> )	71850	67	1.6

### ADDITIONAL INORGANIC CHEMICALS

MCL	UNITS	CHEMICAL	ENTRY	RESULT	DLR
	mg/L	Chlorine Residual		1.8	0.20

MCL - Maximum Contaminate Level      DLR - Detection Limit for Reporting purposes      ND - Not Detected at or above DLR  
 + Indicates Secondary Drinking Water Standards

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# ENVIRONMENTAL

## Analytical Chemists

May 28, 1999

Inorganic Quality Assurance Report for sample: 931986

SAIC/Science Application  
NASA Ames Res Center Bldg 19  
Room 1070 Annex Attn: Bob Javinsky  
Moffett, CA 94035-1000

Actual sample results are contained in the accompanying analytical report(s).

Constituent	BATCH ID	Method	Units	BLANK QA/QC			CALIBRATION QA/QC					METHOD QA/QC							
				DLR	Result	NOTE	Type	Conc.	% REC	AR	NOTE	Type	Conc.	% REC	% REC	AR	% DIF	MAV	NOTE
Chlorine Residual	0A13A	4500Cl G	mg/L	0.10	0.01		CCV	0.500	103	90-110		Dup	0.502	N/A	N/A	N/A	0.6	20.0	
Nitrate	2C 2B	4500NO3F	mg/L	0.40	ND		CCV	17.7	98.7	90-110		MS	17.7	103	102	90-116	0.2	6.0	

FGL ID = 19990511 ND => Not Detected at above DLR. DLR => Detection Limit for Reporting purposes. N/A => Not Applicable NOTE => See note indicated below.  
An explanation of QA terms is provided on the reverse side of this page.

KW:cea

FGL ENVIRONMENTAL, INC.

Kurt Wilkinson, B.S., QA Director



# ENVIRONMENTAL

## Analytical Chemists

May 28, 1999

RE: BACTERIOLOGICAL

Page 1

### SAIC/Science Application

NASA Ames Res Center Bldg 19  
Room 1070 Annex Attn: Bob Javinsky  
Moffett, CA 94035-1000

System Number:

Project Name: Crows Landing-Monthly

### SAMPLE INFORMATION:

ID #	FGL Lab Number	Description	Sample Reason	Sample Type	Sampler	Employed By	Sampled Date	Sampled Time	Started Date	Started Time	Finished Date	Foot Note
1	STK 931986-01	Wellhead-Well #3	Routine	Source	Zuzana M. Vona	FGL Environmental	05/11/1999	13:35	05/11/1999	15:03	05/12/1999	
2	STK 931986-02	Tank Spigot	Routine	System	Zuzana M. Vona	FGL Environmental	05/11/1999	13:40	05/11/1999	15:03	05/12/1999	

O/S Out of Service Well. ! The 30hr holding time for this DW sample has been exceeded. ? No sample time provided, holding time may have been exceeded.

### ANALYTICAL RESULTS:

ID #	Description	Cl <sub>2</sub> Residual	Temp °F	Method	Units	Coliform Result		Notification			Total Coliform Rule	
						Total	Fecal	Person	Date	Time	Total	Fecal
1	Wellhead-Well #3	---		C/F - P/A	P/A /100ml	- ABSENT	N/R	N/R	--	-	Pass	Pass
2	Tank Spigot	---		C/F - P/A	P/A /100ml	- ABSENT	N/R	N/R	--	-	Pass	Pass

N/R Not Required MPN Most Probable Number P/A Presence/Absence \* E. coli specific C/F Chromogenic/Fluorogenic

The State Board of Health requires that bacteriological results must be 'ABSENT' to meet drinking water requirements. Analyses were performed using Standard Methods 18th edition, APHA. If you have any questions regarding your results, please call.

FGL ENVIRONMENTAL

Raquel R. Harvey

RRH:cea



# ENVIRONMENTAL

## Analytical Chemists

May 10, 1999

Inorganic Quality Assurance Report for sample: 931783

SAIC/Science Application  
NASA Ames Res Center Bldg 19  
Room 1070 Annex Attn: Bob Javinsky  
Moffett, CA 94035-1000

Actual sample results are contained in the accompanying analytical report(s).

Constituent	BATCH ID	Method	Units	BLANK QA/QC			CALIBRATION QA/QC					METHOD QA/QC						
				DLR	Result	NOTE	Type	Conc.	% REC	AR	NOTE	Type	Conc.	% REC	% REC	AR	% DIF	MAV
Chlorine Residual	0A13A	4500Cl G	mg/L	0.10	0.01		CCV	0.500	90.4	90-110		Dup	2.50	N/A	N/A	N/A	0.0	20.0
Nitrate	6C 2C	4500N03F	mg/L	0.40	0.25		CCV	17.7	102	90-110		MS	17.7	107	116	90-116	2.8	6.0

FGL ID = 19990420 ND => Not Detected at above DLR. DLR => Detection Limit for Reporting purposes. N/A => Not Applicable NOTE => See note indicated below.

An explanation of QA terms is provided on the reverse side of this page.

KW:kdm

FGL ENVIRONMENTAL, INC.

Kurt Wilkinson, B.S., QA Director



# ENVIRONMENTAL

## ANALYTICAL CHEMISTS

GENERAL MINERAL, PHYSICAL, INORGANIC, & RADIOLOGICAL CHEMICAL ANALYSES

Date of Report: **May 10, 1999**

Sample ID No. **STK 931783-01**

Laboratory

Signature Lab

Name: **FGL Environmental**

Director: *[Signature]*

Name of Sampler: **Zuzana M. Vona**

Employed By: **FGL Environmental**

Date/time Sample

Date/Time Sample

Date Analyses

Collected: **04/20/1999-1310**

Rec. @ Lab: **04/20/1999-1500**

Completed: **04/26/1999**

System

System

Name: **CROWS LANDING**

Number:

Name or Number of Sample Source: **Wellhead-Well #3**

User ID:	Station Number:
Date/Time of Sample: <b>9 9 0 4 2 0 1 3 1 0</b>	Laboratory Code: <b>5 8 6 7</b>
	Y Y M M D D T T T T
Submitted by: <b>FGL Environmental</b>	Phone # <b>(805) 659-0910</b>

### GENERAL MINERAL & PHYSICAL CHEMICALS

MCL	UNITS	CHEMICAL	ENTRY	RESULT	DLR
45	mg/L	Nitrate (NO <sub>3</sub> )	71850	68	1.6

MCL - Maximum Contaminate Level

DLR - Detection Limit for Reporting purposes

ND - Not Detected at or above DLR

\* 250-500-600

\*\* 900-1600-2200

\*\*\* 500-1000-1500

+ Indicates Secondary Drinking Water Standards

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# ENVIRONMENTAL

## Analytical Chemists

May 10, 1999

Inorganic Quality Assurance Report for sample: 931783

SAIC/Science Application  
NASA Ames Res Center Bldg 19  
Room 1070 Annex Attn: Bob Javinsky  
Moffett, CA 94035-1000

Actual sample results are contained in the accompanying analytical report(s).

Constituent	BATCH ID	Method	Units	BLANK QA/QC			CALIBRATION QA/QC					METHOD QA/QC						
				DLR	Result	NOTE	Type	Conc.	% REC	AR	NOTE	Type	Conc.	% REC	% REC	AR	% DIF	MAV
Chlorine Residual	0A13A	4500CL G	mg/L	0.10	0.01		CCV	0.500	90.4	90-110		Dup	2.50	N/A	N/A	N/A	0.0	20.0
Nitrate	6C 2C	4500N03F	mg/L	0.40	0.25		CCV	17.7	102	90-110		MS	17.7	107	116	90-116	2.8	6.0

FGL ID = 19990420 ND => Not Detected at above DLR. DLR => Detection Limit for Reporting purposes. N/A => Not Applicable NOTE => See note indicated below.  
An explanation of QA terms is provided on the reverse side of this page.

KW:kdm

FGL ENVIRONMENTAL, INC.

Kurt Wilkinson, B.S., QA Director



# ENVIRONMENTAL

## ANALYTICAL CHEMISTS

GENERAL MINERAL, PHYSICAL, INORGANIC, & RADIOLOGICAL CHEMICAL ANALYSES

Date of Report: **May 11, 1999** Sample ID No. **STK 931783-02**  
 Laboratory Signature Lab  
 Name: **FGL Environmental** Director: *[Signature]*  
 Name of Sampler: **Zuzana M. Vona** Employed By: **FGL Environmental**  
 Date/time Sample Date/Time Sample Date Analyses  
 Collected: **04/20/1999-1313** Rec. @ Lab: **04/20/1999-1500** Completed: **04/20/1999**

System Name: **CROWS LANDING** System Number:

Name or Number of Sample Source: **Tank Spigot**

User ID:	Station Number:
Date/Time of Sample: <b>9 9 0 4 2 0 1 3 1 3</b> Y Y M M D D T T T T	Laboratory Code: <b>5 8 6 7</b>
Submitted by: <b>FGL Environmental</b>	Phone # <b>(805) 659-0910</b>

### GENERAL MINERAL & PHYSICAL CHEMICALS

MCL	UNITS	CHEMICAL	ENTRY	RESULT	DLR
45	mg/L	Nitrate (NO <sub>3</sub> )	71850	73	1.6

### ADDITIONAL INORGANIC CHEMICALS

MCL	UNITS	CHEMICAL	ENTRY	RESULT	DLR
	mg/L	Chlorine Residual		1.6*	2.0

MCL - Maximum Contaminate Level      DLR - Detection Limit for Reporting purposes      ND - Not Detected at or above DLR  
 + Indicates Secondary Drinking Water Standards

\* The sample was diluted to a value below the detection limit. This error was not caught before the holding time had expired. However, the result was from a reliable instrument response and is considered valid.

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**Analytical Chemists**

April 27, 1999

**RE: BACTERIOLOGICAL**

Page 1

**SAIC/Science Application**

 NASA Ames Res Center Bldg 19  
 Room 1070 Annex Attn: Bob Javinsky  
 Moffett, CA 94035-1000

System Number:

Project Name: Crows Landing-Monthly

**SAMPLE INFORMATION:**

ID #	FGL Lab Number	Description	Sample Reason	Sample Type	Sampler	Employed By	Sampled		Started		Finished Date	Foot Note
							Date	Time	Date	Time		
1	STK 931783-01	Wellhead-Well #3	Routine	Source	Zuzana M. Vona	FGL Environmental	04/20/1999	13:10	04/20/1999	15:30	04/21/1999	
2	STK 931783-02	Tank Spigot	Routine	System	Zuzana M. Vona	FGL Environmental	04/20/1999	13:13	04/20/1999	15:30	04/21/1999	

O/S Out of Service Well. !! The 30hr holding time for this DW sample has been exceeded. ? No sample time provided, holding time may have been exceeded.

**ANALYTICAL RESULTS:**

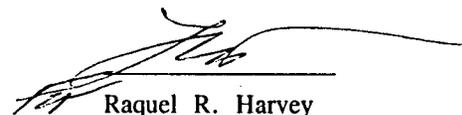
ID #	Description	Cl <sub>2</sub> Residual	Temp °F	Method	Units	Coliform Result		Person	Notification		Total Coliform Rule	
						Total	Fecal		Date	Time	Pass	Fail
1	Wellhead-Well #3	---		C/F - P/A	P/A /100ml	- ABSENT	N/R	N/R	--	-	■	
2	Tank Spigot	---		C/F - P/A	P/A /100ml	- ABSENT	N/R	N/R	--	-	■	

N/R Not Required MPN Most Probable Number P/A Presence/Absence \* E. coli specific C/F Chromogenic/Fluorogenic Pass: ■ Fail - Total: ■ :Fecal

The State Board of Health requires that bacteriological results must be 'ABSENT' to meet drinking water requirements. Analyses were performed using Standard Methods 18th edition, APHA. If you have any questions regarding your results, please call.

FGL ENVIRONMENTAL

RRH:rl


 Raquel R. Harvey



# ENVIRONMENTAL

## ANALYTICAL CHEMISTS

GENERAL MINERAL, PHYSICAL, INORGANIC, & RADIOLOGICAL CHEMICAL ANALYSES

Date of Report: **March 24, 1999**

Sample ID No. **STK 931188-01**

Laboratory

Signature Lab

Name: **FGL Environmental**

Director:

Name of Sampler: **Zuzana M. Vona**

Employed By: **FGL Environmental**

Date/time Sample

Date/Time Sample

Date Analyses

Collected: **03/16/1999-1500** Rec. @ Lab: **03/16/1999-1600** Completed: **03/20/1999**

System

System

Name: **CROWS LANDING**

Number:

Name or Number of Sample Source: **Wellhead-Well #3**

User ID:	Station Number:
Date/Time of Sample: <b>9 9 0 3 1 6 1 5 0 0</b> Y Y M M D D T T T T	Laboratory Code: <b>5 8 6 7</b>
Submitted by: <b>FGL Environmental</b>	Phone # <b>(805) 659-0910</b>

### GENERAL MINERAL & PHYSICAL CHEMICALS

MCL	UNITS	CHEMICAL	ENTRY	RESULT	DLR
45	mg/L	Nitrate (NO <sub>3</sub> )	71850	61	1.6

MCL - Maximum Contaminate Level

DLR - Detection Limit for Reporting purposes

ND - Not Detected at or above DLR

\* 250-500-600

\*\* 900-1600-2200

\*\*\* 500-1000-1500

+ Indicates Secondary Drinking Water Standards

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 Mobile: 559/737-2399



# ENVIRONMENTAL

## ANALYTICAL CHEMISTS

GENERAL MINERAL, PHYSICAL, INORGANIC, & RADIOLOGICAL CHEMICAL ANALYSES

Date of Report: **March 24, 1999**

Sample ID No. **STK 931188-02**

Laboratory

Signature Lab *[Signature]*

Name: **FGL Environmental**

Director:

Name of Sampler: **Zuzana M. Vona**

Employed By: **FGL Environmental**

Date/time Sample

Date/Time Sample

Date Analyses

Collected: **03/16/1999-1505** Rec. @ Lab: **03/16/1999-1600** Completed: **03/16/1999**

System

System

Name: **CROWS LANDING**

Number:

Name or Number of Sample Source: **Tank Spigot**

User ID:	Station Number:
Date/Time of Sample: <b>9 9 0 3 1 6 1 5 0 5</b>	Laboratory Code: <b>5 8 6 7</b>
	Y Y M M D D T T T T
Submitted by: <b>FGL Environmental</b>	Phone # <b>(805) 659-0910</b>

### GENERAL MINERAL & PHYSICAL CHEMICALS

MCL	UNITS	CHEMICAL	ENTRY	RESULT	DLR
45	mg/L	Nitrate (NO <sub>3</sub> )	71850	71	1.6

### ADDITIONAL INORGANIC CHEMICALS

MCL	UNITS	CHEMICAL	ENTRY	RESULT	DLR
	mg/L	Chlorine Residual		5	1.0

MCL - Maximum Contaminate Level      DLR - Detection Limit for Reporting purposes      ND - Not Detected at or above DLR  
+ Indicates Secondary Drinking Water Standards

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# ENVIRONMENTAL

## Analytical Chemists

March 24, 1999

Inorganic Quality Assurance Report for sample: 931188

SAIC/Science Application  
NASA Ames Res Center Bldg 19  
Room 1070 Annex Attn: Bob Javinsky  
Moffett, CA 94035-1000

Actual sample results are contained in the accompanying analytical report(s).

Constituent	BATCH ID	Method	Units	BLANK QA/QC			CALIBRATION QA/QC					METHOD QA/QC						
				DLR	Result	NOTE	Type	Conc.	% REC	AR	NOTE	Type	Conc.	% REC	% REC	AR	% DIF	MAV
Nitrate	OC 2A	4500N03F	mg/L	0.40	0.14		CCV	17.7	99.0	90-110		MS	17.7	101	104	87-115	2.9	7.4

FGL ID = 19990320 ND => Not Detected at above DLR. DLR => Detection Limit for Reporting purposes. N/A => Not Applicable NOTE => See note indicated below.  
An explanation of QA terms is provided on the reverse side of this page.

KW:kdm

FGL ENVIRONMENTAL, INC.

Kurt Wilkinson, B.S., QA Director



# ENVIRONMENTAL

## Analytical Chemists

March 24, 1999

INORGANIC Quality Assurance Report for sample: 931188

SAIC/Science Application International  
NASA Ames Res. Center Bldg. 19  
Room 1070 Annex  
Attn: Shelly Navarro  
Moffett Field, CA 94035-1000

Constituent	BATCH ID	Method	Units	BLANK QA/QC			CALIBRATION QA/QC					METHOD QA/QC						
				DLR	Result	NOTE	Type	Conc.	% REC	AR	NOTE	Type	Conc.	% REC	% REC	AR	% DIF	MAV
Chlorine Residual	0A13A	4500Cl G	mg/L	0.10	0.01		CCV	0.500	101	90-110		Dup	4.50	N/A	N/A	N/A	1.3	20.0

FGL ID = 19990316 ND => Not Detected at or above DLR. DLR => Detection Limit for Reporting purposes. N/A => Not Applicable NOTE => See note indicated below.

KW:kdm

FGL ENVIRONMENTAL, INC.

Kurt Wilkinson, B.S., QA Director



# ENVIRONMENTAL

## Analytical Chemists

March 23, 1999

RE: BACTERIOLOGICAL

Page 1

### SAIC/Science Application

NASA Ames Res Center Bldg 19  
Room 1070 Annex Attn: Bob Javinsky  
Moffett, CA 94035-1000

System Number:

Project Name: Crows Landing-Monthly

### SAMPLE INFORMATION:

ID #	FGL Lab Number	Description	Sample Reason	Sample Type	Sampler	Employed By	Sampled Date	Sampled Time	Started Date	Started Time	Finished Date	Foot Note
1	STK 931188-01	Wellhead-Well #3	Routine	Source	Zuzana M. Vona	FGL Environmental	03/16/1999	15:00	03/16/1999	16:25	03/18/1999	
2	STK 931188-02	Tank Spigot	Routine	System	Zuzana M. Vona	FGL Environmental	03/16/1999	15:05	03/16/1999	16:25	03/18/1999	

O/S Out of Service Well. !! The 30hr holding time for this DW sample has been exceeded. ? No sample time provided, holding time may have been exceeded.

### ANALYTICAL RESULTS:

ID #	Description	Cl <sub>2</sub> Residual	Temp °F	Method	Units	Coliform Result Total	Coliform Result Fecal	Person	Notification Date	Notification Time	Total Coliform Rule Pass	Total Coliform Rule Fail
1	Wellhead-Well #3	---		C/F - P/A	P/A /100ml	- ABSENT	N/R	N/R	--	-	█	
2	Tank Spigot	---		C/F - P/A	P/A /100ml	- ABSENT	N/R	N/R	--	-	█	

N/R Not Required MPN Most Probable Number P/A Presence/Absence \* E. coli specific C/F Chromogenic/Fluorogenic Pass: █ Fail - Total: █ :Fecal

The State Board of Health requires that bacteriological results must be 'ABSENT' to meet drinking water requirements. Analyses were performed using Standard Methods 18th edition, APHA. If you have any questions regarding your results, please call.

RRH:rl

<:REPORT 1:>

FGL ENVIRONMENTAL

  
Raquel R. Harvey

### ANALYTICAL CHEMISTS

GENERAL MINERAL, PHYSICAL, INORGANIC, & RADIOLOGICAL CHEMICAL ANALYSES

Date of Report: March 24, 1999

Sample ID No. STK 931188-01

Laboratory

Signature Lab

Name: FGL Environmental

Director: *[Signature]*

Name of Sampler: Zuzana M. Vona

Employed By: FGL Environmental

Date/time Sample

Date/Time Sample

Date Analyses

Collected: 03/16/1999-1500 Rec. @ Lab: 03/16/1999-1600 Completed: 03/20/1999

System

System

Name: CROWS LANDING

Number:

Name or Number of Sample Source: Wellhead-Well #3

User ID:	Station Number:
Date/Time of Sample: 9 9 0 3 1 6 1 5 0 0 Y Y M M D D T T T T	Laboratory Code: 5 8 6 7
Submitted by: FGL Environmental	Phone #(805) 659-0910

#### GENERAL MINERAL & PHYSICAL CHEMICALS

MCL	UNITS	CHEMICAL	ENTRY	RESULT	DLR
45	mg/L	Nitrate (NO <sub>3</sub> )	71850	61	1.6

MCL - Maximum Contaminate Level      DLR - Detection Limit for Reporting purposes      ND - Not Detected at or above DLR  
 \* 250-500-600      \*\* 900-1600-2200      \*\*\* 500-1000-1500      + Indicates Secondary Drinking Water Standards

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 Mobile: 558/737-2399

## ANALYTICAL CHEMISTS

GENERAL MINERAL, PHYSICAL, INORGANIC, &amp; RADIOLOGICAL CHEMICAL ANALYSES

Date of Report: March 24, 1999

Sample ID No. STK 931188-02

Laboratory

Signature Lab *[Signature]*

Name: FGL Environmental

Director:

Name of Sampler: Zuzana M. Vona

Employed By: FGL Environmental

Date/Time Sample

Date/Time Sample

Date Analyses

Collected: 03/16/1999-1505 Rec. @ Lab: 03/16/1999-1600 Completed: 03/16/1999

System

System

Name: CROWS LANDING

Number:

Name or Number of Sample Source: Tank Spigot

User ID:	Station Number:
Date/Time of Sample: 9 9 0 3 1 6 1 5 0 5 Y Y M M D D T T T T	Laboratory Code: 5 8 6 7
Submitted by: FGL Environmental	Phone #(805) 659-0910

## GENERAL MINERAL &amp; PHYSICAL CHEMICALS

MCL	UNITS	CHEMICAL	ENTRY	RESULT	DLR
45	mg/L	Nitrate (NO <sub>3</sub> )	71850	71	1.6

## ADDITIONAL INORGANIC CHEMICALS

MCL	UNITS	CHEMICAL	ENTRY	RESULT	DLR
	mg/L	Chlorine Residual		5	1.0

MCL - Maximum Contaminate Level      DLR - Detection Limit for Reporting purposes      ND - Not Detected at or above DLR  
 + Indicates Secondary Drinking Water Standards

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# ENVIRONMENTAL

## Analytical Chemists

March 24, 1999

Inorganic Quality Assurance Report for sample: 931188

SAIC/Science Application  
 NASA Ames Res Center Bldg 19  
 Room 1070 Annex Attn: Bob Javinsky  
 Moffett, CA 94035-1000

Actual sample results are contained in the accompanying analytical report(s).

Constituent	BATCH ID	Method	Units	BLANK QA/QC			CALIBRATION QA/QC				METHOD QA/QC								
				DLR	Result	NOTE	Type	Conc.	% REC	AR	NOTE	Type	Conc.	% REC	% REC	AR	% DIF	MAV	NOTE
Nitrate	0C 2A	4500M03F	mg/L	0.40	0.14		CCV	17.7	99.0	90-110		MS	17.7	101	104	87-115	2.9	7.4	

FGL ID = 19990320 ND => Not Detected at above DLR. DLR => Detection Limit for Reporting purposes. N/A => Not Applicable NOTE => See note indicated below.  
 An explanation of QA terms is provided on the reverse side of this page.

KW:kdm

FGL ENVIRONMENTAL, INC.



Kurt Wilkinson, B.S., QA Director

02:10:00 THU 15:05 FAX 805 525 4172 FGL ENVIRONMENTAL

Analytical Chemists

March 24, 1999

INORGANIC Quality Assurance Report for sample: 931188

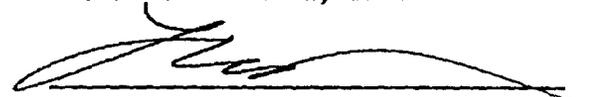
SAIC/Science Application International  
 NASA Ames Res. Center Bldg. 19  
 Room 1070 Annex  
 Attn: Shelly Navarro  
 Moffett Field, CA 94035-1000

Constituent	BATCH ID	Method	Units	BLANK QA/QC			CALIBRATION QA/QC					METHOD QA/QC							
				DLR	Result	NOTE	Type	Conc.	X REC	AR	NOTE	Type	Conc.	X REC	X REC	AR	X DIF	NAV	NOTE
Chlorine Residual	0A13A	4500CL G	mg/L	0.10	0.01		CCV	0.500	101	90-110		Dup	4.50	N/A	N/A	N/A	1.3	20.0	

FGL ID = 19990316 ND => Not Detected at or above DLR. DLR => Detection Limit for Reporting purposes. N/A => Not Applicable NOTE => See note indicated below.

KW:kdm

FGL ENVIRONMENTAL, INC.

  
 Kurt Wilkinson, B.S., QA Director

02:10:00 THU 15:05 FAX 805 525 4172 FGL ENVIRONMENTAL

## Analytical Chemists

March 23, 1999

RE: BACTERIOLOGICAL

Page 1

SAIC/Science Application  
 NASA Ames Res Center Bldg 19  
 Room 1070 Annex Attn: Bob Javinsky  
 Moffett, CA 94035-1000

System Number:  
 Project Name: Crows Landing-Monthly

### SAMPLE INFORMATION:

ID #	FGL Lab Number	Description	Sample Reason	Sample Type	Sampler	Employed By	Sampled Date	Sampled Time	Started Date	Started Time	Finished Date	Foot Note
1	STK 931188-01	Wellhead-Well #3	Routine	Source	Zuzana W. Vona	FGL Environmental	03/16/1999	15:00	03/16/1999	16:25	03/18/1999	
2	STK 931188-02	Tank Spigot	Routine	System	Zuzana W. Vona	FGL Environmental	03/16/1999	15:05	03/16/1999	16:25	03/18/1999	

O/S Out of Service Well. !! The 30hr holding time for this DW sample has been exceeded. ? No sample time provided, holding time may have been exceeded.

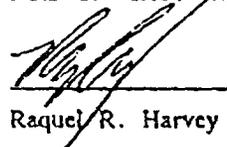
### ANALYTICAL RESULTS:

ID #	Description	Cl <sub>2</sub> Residual	Temp °F	Method	Units	Coliform Result		Person	Notification		Total Coliform Rule	
						Total	Fecal		Date	Time	Pass	Fail
1	Wellhead-Well #3	---		C/F - P/A	P/A /100ml	- ABSENT	N/R	N/R	--	-	---	
2	Tank Spigot	---		C/F - P/A	P/A /100ml	- ABSENT	N/R	N/R	--	-	---	

N/R Not Required MPH Most Probable Number P/A Presence/Absence \* E. coli specific C/F Chromogenic/Fluorogenic Pass:  Fail - Total:  :Fecal

The State Board of Health requires that bacteriological results must be 'ABSENT' to meet drinking water requirements. Analyses were performed using Standard Methods 18th edition, APHA. If you have any questions regarding your results, please call.

FGL ENVIRONMENTAL



Raquel R. Harvey

RRH:rl  
 ::REPORT 1::

02-10-00 THU 15:05 FAX 805 525 4172

FGL ENVIRONMENTAL



# ENVIRONMENTAL

## ANALYTICAL CHEMISTS

GENERAL MINERAL, PHYSICAL, INORGANIC, & RADIOLOGICAL CHEMICAL ANALYSES

Date of Report: March 2, 1999

Sample ID No. STK 930765-01

Laboratory

Signature Lab

Name: FGL Environmental

Director: *[Signature]*

Name of Sampler: Zuzana M. Vona

Employed By: FGL Environmental

Date/time Sample

Date/Time Sample

Date Analyses

Collected: 02/17/1999-1335

Rec. @ Lab: 02/17/1999-1455

Completed: 02/18/1999

System

System

Name: Crows Landing

Number:

Name or Number of Sample Source: Wellhead-Well #3

User ID:	Station Number:
Date/Time of Sample: 9 9 0 2 1 7 1 3 3 5	Laboratory Code: 5 8 6 7
Y Y M M D D T T T T	
Submitted by: FGL Environmental	Phone #(805) 659-0910

### GENERAL MINERAL & PHYSICAL CHEMICALS

MCL	UNITS	CHEMICAL	ENTRY	RESULT	DLR
45	mg/L	Nitrate (NO <sub>3</sub> )	71850	63	1.6

MCL - Maximum Contaminate Level

DLR - Detection Limit for Reporting purposes

ND - Not Detected at or above DLR

\* 250-500-600

\*\* 900-1600-2200

\*\*\* 500-1000-1500

+ Indicates Secondary Drinking Water Standards

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# ENVIRONMENTAL

## ANALYTICAL CHEMISTS

GENERAL MINERAL, PHYSICAL, INORGANIC, & RADIOLOGICAL CHEMICAL ANALYSES

Date of Report: **March 2, 1999**

Sample ID No. **STK 930765-02**

Laboratory

Signature Lab

Name: **FGL Environmental**

Director: *[Signature]*

Name of Sampler: **Zuzana M. Vona**

Employed By: **FGL Environmental**

Date/time Sample

Date/Time Sample

Date Analyses

Collected: **02/17/1999-1338**

Rec. @ Lab: **02/17/1999-1455**

Completed: **02/17/1999**

System

System

Name: **Crows Landing**

Number:

Name or Number of Sample Source: **Tank Spigot**

User ID:	Station Number:
Date/Time of Sample: <b>9 9 0 2 1 7 1 3 3 8</b>	Laboratory Code: <b>5 8 6 7</b>
	Y Y M M D D T T T T
Submitted by: <b>FGL Environmental</b>	Phone # <b>(805) 659-0910</b>

### GENERAL MINERAL & PHYSICAL CHEMICALS

MCL	UNITS	CHEMICAL	ENTRY	RESULT	DLR
45	mg/L	Nitrate (NO <sub>3</sub> )	71850	63	1.2

### ADDITIONAL INORGANIC CHEMICALS

MCL	UNITS	CHEMICAL	ENTRY	RESULT	DLR
	mg/L	Chlorine Residual		3	1.0

MCL - Maximum Contaminate Level

DLR - Detection Limit for Reporting purposes

ND - Not Detected at or above DLR

+ Indicates Secondary Drinking Water Standards

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# ENVIRONMENTAL

## Analytical Chemists

March 2, 1999

Inorganic Quality Assurance Report for sample: 930765

SAIC/Science Application  
NASA Ames Res Center Bldg 19  
Room 1070 Annex Attn: Bob Javinsky  
Moffett, CA 94035-1000

Actual sample results are contained in the accompanying analytical report(s).

Constituent	BATCH ID	Method	Units	BLANK QA/QC			CALIBRATION QA/QC					METHOD QA/QC							
				DLR	Result	NOTE	Type	Conc.	% REC	AR	NOTE	Type	Conc.	% REC	% REC	AR	% DIF	MAV	NOTE
Chlorine Residual	0A13A	4500Cl G	mg/L	0.10	ND		CCV	1.00	91.3	90-110		Dup	0.816	N/A	N/A	N/A	1.8	20.0	
Nitrate	1C 2A	4500NO3F	mg/L	0.40	ND		CCV	17.7	95.3	90-110		MS	17.7	102	99.5	90-116	1.6	6.0	

FGL ID = 19990217 ND => Not Detected at above DLR. DLR => Detection Limit for Reporting purposes. N/A => Not Applicable NOTE => See note indicated below.  
An explanation of QA terms is provided on the reverse side of this page.

KW:vt

FGL ENVIRONMENTAL, INC.

Kurt Wilkinson, B.S., QA Director

February 24, 1999 Analytical Chemists

RE: BACTERIOLOGICAL

Page 1

SAIC/Science Application  
 NASA Ames Res Center Bldg 19  
 Room 1070 Annex Attn: Bob Javinsky  
 Moffett, CA 94035-1000

System Number:  
 Project Name: Crows Landing-Monthly

SAMPLE INFORMATION:

ID #	FGL Lab Number	Description	Sample Reason	Sample Type	Sampler	Employed By	Sampled Date	Sampled Time	Started Date	Started Time	Finished Date	Foot Note
1	STK 930765-01	Wellhead-Well #3	Routine	Source	Zuzana M. Vona	FGL Environmental	02/17/1999	13:35	02/17/1999	15:00	02/18/1999	
2	STK 930765-02	Tank Spigot	Routine	System	Zuzana M. Vona	FGL Environmental	02/17/1999	13:38	02/17/1999	15:00	02/18/1999	

O/S Out of Service Well. !! The 30hr holding time for this DW sample has been exceeded. ? No sample time provided, holding time may have been exceeded.

ANALYTICAL RESULTS:

ID #	Description	Cl <sub>2</sub> Residual	Temp °F	Method	Units	Coliform Result		Notification			Total Coliform Rule	
						Total	Fecal	Person	Date	Time	Pass	Fail
1	Wellhead-Well #3	---		C/F - P/A	P/A /100ml	- ABSENT	N/R	N/R	--	-	█	
2	Tank Spigot	---		C/F - P/A	P/A /100ml	- ABSENT	N/R	N/R	--	-	█	

N/R Not Required MPN Most Probable Number P/A Presence/Absence \* E. coli specific C/F Chromogenic/Fluorogenic Pass: █ Fail - Total: █ :Fecal

The State Board of Health requires that bacteriological results must be 'ABSENT' to meet drinking water requirements. Analyses were performed using Standard Methods 18th edition, APHA. If you have any questions regarding your results, please call.

FGL ENVIRONMENTAL



Raquel R. Harvey

RRH:rl



# ENVIRONMENTAL

## ANALYTICAL CHEMISTS

GENERAL MINERAL, PHYSICAL, INORGANIC, & RADIOLOGICAL CHEMICAL ANALYSES

Date of Report: **January 21, 1999**

Sample ID No. **STK 930210-01**

Laboratory

Signature Lab

Name: **FGL Environmental**

Director: *[Signature]*

Name of Sampler: **Zuzana M. Vona**

Employed By: **FGL Environmental**

Date/Time Sample

Date/Time Sample

Date Analyses

Collected: **01/12/1999-1450** Rec. @ Lab: **01/12/1999-1555** Completed: **01/14/1999**

System

System

Name: **CROWS LANDING**

Number:

Name or Number of Sample Source: **Wellhead-Well #3**

User ID:	Station Number:
Date/Time of Sample: <b>9 9 0 1 1 2 1 4 5 0</b>	Laboratory Code: <b>5 8 6 7</b>
	Y Y M M D D T T T T
Submitted by: <b>FGL Environmental</b>	Phone # <b>(805) 659-0910</b>

### GENERAL MINERAL & PHYSICAL CHEMICALS

MCL	UNITS	CHEMICAL	ENTRY	RESULT	DLR
45	mg/L	Nitrate (NO <sub>3</sub> )	71850	61	1.6

MCL - Maximum Contaminate Level      DLR - Detection Limit for Reporting purposes      ND - Not Detected at or above DLR  
 \* 250-500-600      \*\* 900-1600-2200      \*\*\* 500-1000-1500      + Indicates Secondary Drinking Water Standards

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# ENVIRONMENTAL

## ANALYTICAL CHEMISTS

GENERAL MINERAL, PHYSICAL, INORGANIC, & RADIOLOGICAL CHEMICAL ANALYSES

Date of Report: **January 21, 1999**

Sample ID No. **STK 930210-02**

Laboratory

Signature Lab

Name: **FGL Environmental**

Director: *[Signature]*

Name of Sampler: **Zuzana M. Vona**

Employed By: **FGL Environmental**

Date/time Sample

Date/Time Sample

Date Analyses

Collected: **01/12/1999-1455** Rec. @ Lab: **01/12/1999-1555** Completed: **01/12/1999**

System

System

Name: **CROWS LANDING**

Number:

Name or Number of Sample Source: **Tank Spigot**

User ID:	Station Number:
Date/Time of Sample: <b>9 9 0 1 1 2 1 4 5 5</b>	Laboratory Code: <b>5 8 6 7</b>
	<b>Y Y M M D D T T T T</b>
Submitted by: <b>FGL Environmental</b>	Phone # <b>(805) 659-0910</b>

### GENERAL MINERAL & PHYSICAL CHEMICALS

MCL	UNITS	CHEMICAL	ENTRY	RESULT	DLR
45	mg/L	Nitrate (NO <sub>3</sub> )	71850	64	1.6

### ADDITIONAL INORGANIC CHEMICALS

MCL	UNITS	CHEMICAL	ENTRY	RESULT	DLR
	mg/L	Chlorine Residual		3	1.0

MCL - Maximum Contaminate Level      DLR - Detection Limit for Reporting purposes      ND - Not Detected at or above DLR  
 + Indicates Secondary Drinking Water Standards

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## Analytical Chemists

January 21, 1999

**Inorganic Quality Assurance Report** for sample: 930210

SAIC/Science Application  
NASA Ames Res Center Bldg 19  
Room 1070 Annex Attn: Bob Javinsky  
Moffett, CA 94035-1000

Actual sample results are contained in the accompanying analytical report(s).

Constituent	BATCH ID	Method	Units	BLANK QA/QC			CALIBRATION QA/QC					METHOD QA/QC							
				DLR	Result	NOTE	Type	Conc.	% REC	AR	NOTE	Type	Conc.	% REC	% REC	AR	% DIF	MAV	NOTE
Chlorine Residual	0A13A	4500CL G	mg/L	0.10	ND		CCV	1.00	98.1	90-110		Dup	5.96	N/A	N/A	N/A	0.0	20.0	
Nitrate	2C 2C	4500N03F	mg/L	0.40	ND		CCV	17.7	96.6	90-110		MS	17.7	98.3	96.8	87-115	0.7	7.4	

FGL ID = 19990112 ND => Not Detected at above DLR. DLR => Detection Limit for Reporting purposes. N/A => Not Applicable NOTE => See note indicated below.  
An explanation of QA terms is provided on the reverse side of this page.

KW:cea

FGL ENVIRONMENTAL, INC.

Kurt Wilkinson, B.S., QA Director



# ENVIRONMENTAL

Analytical Chemists  
January 14, 1999

RE: BACTERIOLOGICAL

Page 1

SAIC/Science Application  
NASA Ames Res Center Bldg 19  
Room 1070 Annex Attn: Bob Javinsky  
Moffett, CA 94035-1000

System Number:  
Project Name: Crows Landing-Monthly

### SAMPLE INFORMATION:

ID #	FGL Lab Number	Description	Sample Reason	Sample Type	Sampler	Employed By	Sampled		Started		Finished Date	Foot Note
							Date	Time	Date	Time		
1	STK 930210-01	Wellhead-Well #3	Routine	Source	Zuzana M. Vona	FGL Environmental	01/12/1999	14:50	01/12/1999	16:30	01/13/1999	
2	STK 930210-02	Tank Spigot	Routine	System	Zuzana M. Vona	FGL Environmental	01/12/1999	14:55	01/12/1999	16:30	01/13/1999	

O/S Out of Service Well !! The holding time for this sample has been exceeded. ? No sample time provided, holding time may have been exceeded.

### ANALYTICAL RESULTS:

ID #	Description	Cl <sub>2</sub> Residual	Temp °F	Method	Units	Coliform Result		Notification			Interpretations	
						Total	Fecal	Person	Date	Time	Pass	Fail
1	Wellhead-Well #3	---		MMO/MUG-P/A	P/A /100ml	- ABSENT	N/R	N/R	--	-	■	
2	Tank Spigot	---		MMO/MUG-P/A	P/A /100ml	- ABSENT	N/R	N/R	--	-	■	

N/R Not Required    MPN Most Probable Number    P/A Presence/Absence    \* E. coli specific    Pass: ■    Fail - Total: ■:Fecal

The State Board of Health requires that bacteriological results must be 'ABSENT' to meet drinking water requirements. Analyses were performed using Standard Methods 18th edition, APHA. If you have any questions regarding your results, please call.

FGL ENVIRONMENTAL

Raquel R. Harvey

RRH:rl



# ENVIRONMENTAL

## ANALYTICAL CHEMISTS

GENERAL MINERAL, PHYSICAL, INORGANIC, & RADIOLOGICAL CHEMICAL ANALYSES

Date of Report: **January 5, 1999** Sample ID No. **STK 836184-01**  
 Laboratory Name: **FGL Environmental** Signature Lab: *[Signature]*  
 Name of Sampler: **Zuzana M. Vona** Director: *[Signature]*  
 Date/Time Sample: **12/15/1998-1300** Date/Time Sample: **12/15/1998-1435** Date Analyses: **12/17/1998**  
 Collected: **12/15/1998-1300** Rec. @ Lab: **12/15/1998-1435** Completed: **12/17/1998**

System Name: **CROWS LANDING** System Number:

Name or Number of Sample Source: **Wellhead-Well #3**

User ID:	Station Number:
Date/Time of Sample: <b>9 8 1 2 1 5 1 3 0 0</b> Y Y M M D D T T T T	Laboratory Code: <b>5 8 6 7</b>
Submitted by: <b>FGL Environmental</b>	Phone # <b>(805) 659-0910</b>

### GENERAL MINERAL & PHYSICAL CHEMICALS

MCL	UNITS	CHEMICAL	ENTRY	RESULT	DLR
45	mg/L	Nitrate (NO <sub>3</sub> )	71850	70	1.6

MCL - Maximum Contaminate Level      DLR - Detection Limit for Reporting purposes      ND - Not Detected at or above DLR  
 \* 250-500-600      \*\* 900-1600-2200      \*\*\* 500-1000-1500      + Indicates Secondary Drinking Water Standards

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# ENVIRONMENTAL

## ANALYTICAL CHEMISTS

GENERAL MINERAL, PHYSICAL, INORGANIC, & RADIOLOGICAL CHEMICAL ANALYSES

Date of Report: **January 5, 1999** Sample ID No. **STK 836184-02**  
 Laboratory Signature Lab  
 Name: **FGL Environmental** Director: *[Signature]*  
 Name of Sampler: **Zuzana M. Vona** Employed By: **FGL Environmental**  
 Date/time Sample Date/Time Sample Date Analyses  
 Collected: **12/15/1998-1305** Rec. @ Lab: **12/15/1998-1435** Completed: **12/15/1998**

System Name: **CROWS LANDING** System Number:

Name or Number of Sample Source: **Tank Spigot**

User ID:	Station Number:
Date/Time of Sample: <b>9 8 1 2 1 5 1 3 0 5</b> Y Y M M D D T T T T	Laboratory Code: <b>5 8 6 7</b>
Submitted by: <b>FGL Environmental</b>	Phone # <b>(805) 659-0910</b>

### GENERAL MINERAL & PHYSICAL CHEMICALS

MCL	UNITS	CHEMICAL	ENTRY	RESULT	DLR
45	mg/L	Nitrate (NO <sub>3</sub> )	71850	72	2.0

### ADDITIONAL INORGANIC CHEMICALS

MCL	UNITS	CHEMICAL	ENTRY	RESULT	DLR
	mg/L	Chlorine Residual		12	2.0

MCL - Maximum Contaminate Level      DLR - Detection Limit for Reporting purposes      ND - Not Detected at or above DLR  
 + Indicates Secondary Drinking Water Standards

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# ENVIRONMENTAL

## Analytical Chemists

January 5, 1999

**Inorganic Quality Assurance Report** for sample: 836184

SAIC/Science Application  
NASA Ames Res Center Bldg 19  
Room 1070 Annex Attn: Bob Javinsky  
Moffett, CA 94035-1000

Actual sample results are contained in the accompanying analytical report(s).

Constituent	BATCH ID	Method	Units	BLANK QA/QC			CALIBRATION QA/QC					METHOD QA/QC							
				DLR	Result	NOTE	Type	Conc.	% REC	AR	NOTE	Type	Conc.	% REC	% REC	AR	% DIF	MAV	NOTE
Chlorine Residual	0A13A	4500Cl G	mg/L	0.10	ND		CCV	1.00	104	90-110		Dup	11.6	N/A	N/A	N/A	2.6	20.0	
Nitrate	2C 2C	4500NO3F	mg/L	0.40	0.24		CCV	17.7	103	90-110		MS	17.7	103	104	90-116	0.8	6.0	

FGL ID = 19981215 ND => Not Detected at above DLR. DLR => Detection Limit for Reporting purposes. N/A => Not Applicable NOTE => See note indicated below.  
An explanation of QA terms is provided on the reverse side of this page.

KW:kdm

FGL ENVIRONMENTAL, INC.

Kurt Wilkinson, B.S., QA Director



# ENVIRONMENTAL

December 28, 1998 Analytical Chemists

RE: BACTERIOLOGICAL

Page 1

SAIC/Science Application  
NASA Ames Res Center Bldg 19  
Room 1070 Annex Attn: Bob Javinsky  
Moffett, CA 94035-1000

System Number:  
Project Name: Crows Landing-Monthly

### SAMPLE INFORMATION:

ID #	FGL Lab Number	Description	Sample Reason	Sample Type	Sampler	Employed By	Sampled Date	Time	Started Date	Time	Finished Date	Foot Note
1	STK 836184-01	Wellhead-Well #3	Routine	Source	Zuzana M. Vona	FGL Environmental	12/15/1998	13:00	12/15/1998	16:10	12/16/1998	
2	STK 836184-02	Tank Spigot	Routine	System	Zuzana M. Vona	FGL Environmental	12/15/1998	13:05	12/15/1998	16:10	12/16/1998	

O/S Out of Service Well !! The holding time for this sample has been exceeded. ? No sample time provided, holding time may have been exceeded.

### ANALYTICAL RESULTS:

ID #	Description	Cl <sub>2</sub> Residual	Temp °F	Method	Units	Coliform Result		Person	Notification		Interpretations		
						Total	Fecal		Date	Time	Pass	Fail	
1	Wellhead-Well #3	---		MMO/MUG-P/A	P/A /100ml	-	ABSENT	N/R		--	-		
2	Tank Spigot	---		MMO/MUG-P/A	P/A /100ml	-	ABSENT	N/R		--	-		

N/R Not Required MPN Most Probable Number P/A Presence/Absence \* E. coli specific Pass: [ ] Fail - Total: [ ] :Fecal

The State Board of Health requires that bacteriological results must be 'ABSENT' to meet drinking water requirements. Analyses were performed using Standard Methods 18th edition, APHA. If you have any questions regarding your results, please call.

FGL ENVIRONMENTAL

Raquel R. Harvey

RRH:rl



# ENVIRONMENTAL

## ANALYTICAL CHEMISTS

GENERAL MINERAL, PHYSICAL, INORGANIC, & RADIOLOGICAL CHEMICAL ANALYSES

Date of Report: **October 23, 1998**

Sample ID No. **STK 835207-01**

Laboratory

Signature Lab

Name: **FGL Environmental**

Director:

Name of Sampler: **Zuzana M. Vona**

Employed By: **FGL Environmental**

Date/time Sample

Date/Time Sample

Date Analyses

Collected: **10/13/1998-1420**

Rec. @ Lab: **10/13/1998-1540**

Completed: **10/16/1998**

System

System

Name: **Crows Landing-Monthly**

Number:

Name or Number of Sample Source: **Wellhead-Well #3**

User ID:	Station Number:
Date/Time of Sample: <b>9 8 1 0 1 3 1 4 2 0</b>	Laboratory Code: <b>5 8 6 7</b>
	Y Y M M D D T T T T
Submitted by: <b>FGL Environmental</b>	Phone # <b>(805) 659-0910</b>

### GENERAL MINERAL & PHYSICAL CHEMICALS

MCL	UNITS	CHEMICAL	ENTRY	RESULT	DLR
45	mg/L	Nitrate (NO <sub>3</sub> )	71850	67	4.0

MCL - Maximum Contaminate Level

DLR - Detection Limit for Reporting purposes

ND - Not Detected at or above DLR

\* 250-500-600

\*\* 900-1600-2200

\*\*\* 500-1000-1500

+ Indicates Secondary Drinking Water Standards

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# ENVIRONMENTAL

## ANALYTICAL CHEMISTS

GENERAL MINERAL, PHYSICAL, INORGANIC, & RADIOLOGICAL CHEMICAL ANALYSES

Date of Report: October 23, 1998

Sample ID No. STK 835207-02

Laboratory

Signature Lab

Name: FGL Environmental

Director:

Name of Sampler: Zuzana M. Vona

Employed By: FGL Environmental

Date/Time Sample

Date/Time Sample

Date Analyses

Collected: 10/13/1998-1424 Rec. @ Lab: 10/13/1998-1540 Completed: 10/13/1998

System

System

Name: Crows Landing-Monthly

Number:

STATION NAME/NUMBER 1: Tank Spigot	COMPOSITED PRIMARY STATION CODE
Date/Time of Sample: 9 8 1 0 1 3 1 4 2 4 Y Y M M D D T T T T	Laboratory Code: 5 8 6 7
User ID:	
Submitted by: FGL Environmental	Phone #(805) 659-0910

### GENERAL MINERAL & PHYSICAL CHEMICALS

MCL	UNITS	CHEMICAL	ENTRY	RESULT	DLR
45	mg/L	Nitrate (NO <sub>3</sub> )	71850	68	3.2

### ADDITIONAL INORGANIC CHEMICALS

MCL	UNITS	CHEMICAL	ENTRY	RESULT	DLR
	mg/L	Chlorine Residual		3	1.0

MCL - Maximum Contaminate Level    DLR - Detection Limit for Reporting purposes    ND - Not Detected at or above DLR  
+ Indicates Secondary Drinking Water Standards

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# ENVIRONMENTAL

## Analytical Chemists

October 23, 1998

Inorganic Quality Assurance Report for sample: 835207

SAIC/Science Application  
NASA Ames Res Center Bldg 19  
Room 1070 Annex Attn: Bob Javinsky  
Moffett, CA 94035-1000

Actual sample results are contained in the accompanying analytical report(s).

Constituent	BATCH ID	Method	Units	BLANK QA/QC			CALIBRATION QA/QC					METHOD QA/QC							
				DLR	Result	NOTE	Type	Conc.	% REC	AR	NOTE	Type	Conc.	% REC	% REC	AR	% DIF	MAV	NOTE
Chlorine Residual	0A13A	4500Cl G	mg/L	0.10	ND		CCV	1.00	102	90-110		Dup	0.423	N/A	N/A	N/A	0.0	20.0	
Nitrate	3C 2B	4500NO3F	mg/L	0.40	ND		CCV	17.7	99.5	90-110		MS	17.7	103	102	90-116	0.2	6.0	

FGL ID = 19981013 ND => Not Detected at above DLR. DLR => Detection Limit for Reporting purposes. N/A => Not Applicable NOTE => See note indicated below.  
An explanation of QA terms is provided on the reverse side of this page.

KW:r1

FGL ENVIRONMENTAL, INC.

Kurt Wilkinson, B.S., QA Director



October 16, 1998 **Analytical Chemists**

**RE: BACTERIOLOGICAL**

Page 1

**SAIC/Science Application**  
NASA Ames Res Center Bldg 19  
Room 1070 Annex Attn: Bob Javinsky  
Moffett, CA 94035-1000

System Number:  
Project Name: Crows Landing-Monthly

**SAMPLE INFORMATION:**

ID #	FGL Lab Number	Description	Sample Reason	Sample Type	Sampler	Employed By	Sampled Date	Sampled Time	Started Date	Started Time	Finished Date	Foot Note
1	STK 835207-01	Wellhead-Well #3	Routine	Source	Zuzana M. Vona	FGL Environmental	10/13/1998	14:20	10/13/1998	16:05	10/14/1998	
2	STK 835207-02	Tank Spigot	Routine	System	Zuzana M. Vona	FGL Environmental	10/13/1998	14:24	10/13/1998	16:05	10/14/1998	

O/S Out of Service Well !! The holding time for this sample has been exceeded. ? No sample time provided, holding time may have been exceeded.

**ANALYTICAL RESULTS:**

ID #	Description	Cl <sub>2</sub> Residual	Temp °F	Method	Units	Coliform Result		Person	Notification		Interpretations		
						Total	Fecal		Date	Time	Pass	Fail	
1	Wellhead-Well #3	---		MMO/MUG-P/A	P/A /100ml	-	ABSENT	N/R		--	-	█	
2	Tank Spigot	---		MMO/MUG-P/A	P/A /100ml	-	ABSENT	N/R		--	-	█	

N/R Not Required    MPN Most Probable Number    P/A Presence/Absence    \* E. coli specific    Pass: █    Fail - Total: █ :Fecal

The State Board of Health requires that bacteriological results must be 'ABSENT' to meet drinking water requirements. Analyses were performed using Standard Methods 18th edition, APHA. If you have any questions regarding your results, please call.

FGL ENVIRONMENTAL

Raquel R. Harvey

RRH:rl



# ENVIRONMENTAL

## ANALYTICAL CHEMISTS

GENERAL MINERAL, PHYSICAL, INORGANIC, & RADIOLOGICAL CHEMICAL ANALYSES

Date of Report: October 12, 1998

Sample ID No. STK 834712-01

Laboratory

Signature Lab

Name: FGL Environmental

Director:

Name of Sampler: Brian Pabst

Employed By: FGL Environmental

Date/time Sample

Date/Time Sample

Date Analyses

Collected: 09/16/1998-1249 Rec. @ Lab: 09/16/1998-1445 Completed: 09/21/1998

System

System

Name: CROW'S LANDING

Number:

Name or Number of Sample Source: Wellhead-Well #3

User ID:	Station Number:
Date/Time of Sample: 9 8 0 9 1 6 1 2 4 9 Y Y M M D D T T T T	Laboratory Code: 5 8 6 7
Submitted by: FGL Environmental	Phone #(805) 659-0910

### GENERAL MINERAL & PHYSICAL CHEMICALS

MCL	UNITS	CHEMICAL	ENTRY	RESULT	DLR
45	mg/L	Nitrate (NO <sub>3</sub> )	71850	66	0.8

MCL - Maximum Contaminate Level

DLR - Detection Limit for Reporting purposes

ND - Not Detected at or above DLR

\* 250-500-600

\*\* 900-1600-2200

\*\*\* 500-1000-1500

+ Indicates Secondary Drinking Water Standards

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# ENVIRONMENTAL

## ANALYTICAL CHEMISTS

GENERAL MINERAL, PHYSICAL, INORGANIC, & RADIOLOGICAL CHEMICAL ANALYSES

Date of Report: October 12, 1998

Sample ID No. STK 834712-02

Laboratory

Signature Lab

Name: FGL Environmental

Director:

Name of Sampler: Brian Pabst

Employed By: FGL Environmental

Date/time Sample

Date/Time Sample

Date Analyses

Collected: 09/16/1998-1244 Rec. @ Lab: 09/16/1998-1445 Completed: 09/16/1998

System

System

Name: CROW'S LANDING

Number:

Name or Number of Sample Source: Tank Spigot

User ID:	Station Number:
Date/Time of Sample: 9 8 0 9 1 6 1 2 4 4 Y Y M M D D T T T T	Laboratory Code: 5 8 6 7
Submitted by: FGL Environmental	Phone #(805) 659-0910

### GENERAL MINERAL & PHYSICAL CHEMICALS

MCL	UNITS	CHEMICAL	ENTRY	RESULT	DLR
45	mg/L	Nitrate (NO <sub>3</sub> )	71850	67	1.6

### ADDITIONAL INORGANIC CHEMICALS

MCL	UNITS	CHEMICAL	ENTRY	RESULT	DLR
	mg/L	Chlorine Residual		4	1.0

MCL - Maximum Contaminate Level      DLR - Detection Limit for Reporting purposes      ND - Not Detected at or above DLR  
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## Analytical Chemists

October 14, 1998

INORGANIC Quality Assurance Report for sample: 834712

SAIC/Science Application  
NASA Ames Res Center Bldg 19  
Room 1070 Annex Attn: Bob Javinsky  
Moffett, CA 94035-1000

Constituent	BATCH ID	Method	Units	BLANK QA/QC			CALIBRATION QA/QC					METHOD QA/QC						
				DLR	Result	NOTE	Type	Conc.	% REC	AR	NOTE	Type	Conc.	% REC	% REC	AR	% DIF	MAV
Chlorine Residual	0A13A	4500Cl G	mg/L	0.10	ND		CCV	1.00	95.8	90-110		Dup	-.00900	N/A	N/A	N/A	44.4	20.0
Nitrate	5C 2B	4500NO3F	mg/L	0.40	ND		CCV	17.7	92.0	90-110		MS	17.7	93.3	91.9	90-116	1.4	6.0

FGL ID = 19980916 ND => Not Detected at or above DLR. DLR => Detection Limit for Reporting purposes. N/A => Not Applicable NOTE => See note indicated below.

KW:vt

FGL ENVIRONMENTAL, INC.

Kurt Wilkinson, B.S., QA Director



# ENVIRONMENTAL

October 12, 1998 **Analytical Chemists**

**RE: BACTERIOLOGICAL**

Page 1

**SAIC/Science Application**  
NASA Ames Res Center Bldg 19  
Room 1070 Annex Attn: Bob Javinsky  
Moffett, CA 94035-1000

System Number:  
Project Name: Crows Landing-Monthly

**SAMPLE INFORMATION:**

ID #	FGL Lab Number	Description	Sample Reason	Sample Type	Sampler	Employed By	Sampled Date Time		Started Date Time		Finished Date	Foot Note
1	STK 834712-01	Wellhead-Well #3	Routine	Source	Brian Pabst	FGL Environmental	09/16/1998	12:49	09/16/1998	16:15	09/17/1998	
2	STK 834712-02	Tank Spigot	Routine	System	Brian Pabst	FGL Environmental	09/16/1998	12:44	09/16/1998	16:15	09/17/1998	

O/S Out of Service Well !! The holding time for this sample has been exceeded. ? No sample time provided, holding time may have been exceeded.

**ANALYTICAL RESULTS:**

ID #	Description	Cl <sub>2</sub> Residual	Temp °F	Method	Units	Coliform Result		Person	Notification		Interpretations		
						Total	Fecal		Date	Time	Pass	Fail	
1	Wellhead-Well #3	---		MMO/MUG-P/A	P/A /100ml	-	ABSENT	N/R		--	-	█	
2	Tank Spigot	---		MMO/MUG-P/A	P/A /100ml	-	ABSENT	N/R		--	-	█	

N/R Not Required    MPN Most Probable Number    P/A Presence/Absence    \* E. coli specific    Pass: █    Fail - Total: ████ :Fecal

The State Board of Health requires that bacteriological results must be 'ABSENT' to meet drinking water requirements. Analyses were performed using Standard Methods 18th edition, APHA. If you have any questions regarding your results, please call.

FGL ENVIRONMENTAL

  
Raquel R. Harvey

RRH:rl



# ENVIRONMENTAL

## ANALYTICAL CHEMISTS

GENERAL MINERAL, PHYSICAL, INORGANIC, & RADIOLOGICAL CHEMICAL ANALYSES

Date of Report: August 18, 1998

Sample ID No. STK 834133-02

Laboratory

Signature Lab

Name: FGL Environmental

Director: *[Signature]*

Name of Sampler: Brian Pabst

Employed By: FGL Environmental

Date/time Sample

Date/Time Sample

Date Analyses

Collected: 08/11/1998-1305 Rec. @ Lab: 08/11/1998-1430 Completed: 08/11/1998

System

System

Name: CROWS LANDING MONTHLY

Number:

Name or Number of Sample Source: Tank Spigot

User ID:	Station Number:
Date/Time of Sample: 9 8 0 8 1 1 1 3 0 5 Y Y M M D D T T T T	Laboratory Code: 5 8 6 7
Submitted by: FGL Environmental	Phone #(805) 659-0910

### GENERAL MINERAL & PHYSICAL CHEMICALS

MCL	UNITS	CHEMICAL	ENTRY	RESULT	DLR
45	mg/L	Nitrate (NO <sub>3</sub> )	71850	67	3.2

### ADDITIONAL INORGANIC CHEMICALS

MCL	UNITS	CHEMICAL	ENTRY	RESULT	DLR
	mg/L	Chlorine Residual		1.3	0.1

MCL - Maximum Contaminate Level      DLR - Detection Limit for Reporting purposes      ND - Not Detected at or above DLR  
 + Indicates Secondary Drinking Water Standards

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 Mobile: 209/737-2399



## Analytical Chemists

August 18, 1998

INORGANIC Quality Assurance Report for sample: 834133

SAIC/Science Application  
NASA Ames Res Center Bldg 19  
Room 1070 Annex Attn: Bob Javinsky  
Moffett, CA 94035-1000

Constituent	BATCH ID	Method	Units	BLANK QA/QC			CALIBRATION QA/QC					METHOD QA/QC						
				DLR	Result	NOTE	Type	Conc.	% REC	AR	NOTE	Type	Conc.	% REC	% REC	AR	% DIF	MAV
Chlorine Residual	0A13A	4500Cl G	mg/L	0.10	ND		CCV	1.00	90.9	90-110		Dup	6.48	N/A	N/A	N/A	1.1	20.0
Nitrate	2C 2A	4500NO3F	mg/L	0.40	ND		CCV	17.7	96.8	90-110		MS	17.7	97.7	99.4	90-116	1.2	6.0

FGL ID = 19980811 ND => Not Detected at or above DLR. DLR => Detection Limit for Reporting purposes. N/A => Not Applicable NOTE => See note indicated below.

KW:cea

FGL ENVIRONMENTAL, INC.

Kurt Wilkinson, B.S., QA Director



# ENVIRONMENTAL

## Analytical Chemists

August 18, 1998

INORGANIC Quality Assurance Report for sample: 834133

SAIC/Science Application  
NASA Ames Res Center Bldg 19  
Room 1070 Annex Attn: Bob Javinsky  
Moffett, CA 94035-1000

Constituent	BATCH ID	Method	Units	BLANK QA/QC			CALIBRATION QA/QC					METHOD QA/QC						
				DLR	Result	NOTE	Type	Conc.	% REC	AR	NOTE	Type	Conc.	% REC	% REC	AR	% DIF	MAV
Chlorine Residual	0A13A	4500Cl G	mg/L	0.10	ND		CCV	1.00	90.9	90-110		Dup	6.48	N/A	N/A	N/A	1.1	20.0
Nitrate	2C 2A	4500N03F	mg/L	0.40	ND		CCV	17.7	96.8	90-110		MS	17.7	97.7	99.4	90-116	1.2	6.0

FGL ID = 19980811 ND => Not Detected at or above DLR. DLR => Detection Limit for Reporting purposes. N/A => Not Applicable NOTE => See note indicated below.

KW:cea

FGL ENVIRONMENTAL, INC.

Kurt Wilkinson, B.S., QA Director

**Analytical Chemists**

August 18, 1998

**RE: BACTERIOLOGICAL**

Page 1

**SAIC/Science Application**

 NASA Ames Res Center Bldg 19  
 Room 1070 Annex Attn: Bob Javinsky  
 Moffett, CA 94035-1000

System Number:

Project Name: Crows Landing-Monthly

**SAMPLE INFORMATION:**

ID #	FGL Lab Number	Description	Sample Reason	Sample Type	Sampler	Employed By	Sampled Date	Sampled Time	Started Date	Started Time	Finished Date	Foot Note
1	STK 834133-01	Wellhead-Well #3	Routine	Source	Brian Pabst	FGL Environmental	08/11/1998	13:02	08/11/1998	15:40	08/12/1998	
2	STK 834133-02	Tank Spigot	Routine	System	Brian Pabst	FGL Environmental	08/11/1998	13:05	08/11/1998	15:40	08/12/1998	

0/S Out of Service Well !! The holding time for this sample has been exceeded. ? No sample time provided, holding time may have been exceeded.

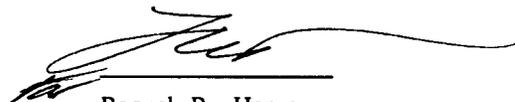
**ANALYTICAL RESULTS:**

ID #	Description	Cl <sub>2</sub> Residual	Temp °F	Method	Units	Coliform Result		Person	Notification		Interpretations		
						Total	Fecal			Date	Time	Pass	Fail
1	Wellhead-Well #3	---		MMO/MUG-P/A	P/A /100ml	-	ABSENT	N/R	N/R	--	-		
2	Tank Spigot	---		MMO/MUG-P/A	P/A /100ml	-	ABSENT	N/R	N/R	--	-		

 N/R Not Required      MPN Most Probable Number      P/A Presence/Absence      \* E. coli specific      Pass:       Fail - Total:  :Fecal

The State Board of Health requires that bacteriological results must be 'ABSENT' to meet drinking water requirements. Analyses were performed using Standard Methods 17th edition, APHA. If you have any questions regarding your results, please call.

FGL ENVIRONMENTAL



Raquel R. Harvey

RRH:cea







## Analytical Chemists

July 20, 1998

RE: BACTERIOLOGICAL

Page 1

SAIC / Science Application International  
 NASA Ames Res. Center Bld 19 Rm1070Annex  
 Attn: Chuck Kalleta/Mail Stop 19-21  
 Moffett Field, CA 94035-1000

System Number:  
 Project Name: Crows Landing-Monthly

### SAMPLE INFORMATION:

ID #	FGL Lab Number	Description	Sample Reason	Sample Type	Sampler	Employed By	Sampled Date	Sampled Time	Started Date	Started Time	Finished Date	Foot Note
1	STK 833511-01	Wellhead-Well #3	Routine	Source	Zuzana M. Vona	FGL Environmental	07/14/1998	13:55	07/14/1998	17:35	07/15/1998	
2	STK 833511-02	Tank Spigot	Routine	System	Zuzana M. Vona	FGL Environmental	07/14/1998	13:50	07/14/1998	17:35	07/15/1998	

O/S Out of Service Well !! The holding time for this sample has been exceeded. ? No sample time provided, holding time may have been exceeded.

### ANALYTICAL RESULTS:

ID #	Description	Cl <sub>2</sub> Residual	Temp °F	Method	Units	Coliform Result Total	Fecal	Person	Notification Date	Time	Interpretations Pass	Fail
1	Wellhead-Well #3	---		MMD/MUG-P/A	P/A /100ml	- ABSENT	N/R	N/R	--	-	█	
2	Tank Spigot	---		MMD/MUG-P/A	P/A /100ml	- ABSENT	N/R	N/R	--	-	█	

N/R Not Required    MPN Most Probable Number    P/A Presence/Absence    \* E. coli specific    Pass: █    Fail - Total: █:Fecal

The State Board of Health requires that bacteriological results must be 'ABSENT' to meet drinking water requirements. Analyses were performed using Standard Methods 17th edition, APHA. If you have any questions regarding your results, please call.

FGL ENVIRONMENTAL



Zuzana M. Vona, B.S.

CJ:ys





# ENVIRONMENTAL

## Analytical Chemists

July 24, 1998

INORGANIC Quality Assurance Report for sample: 833511

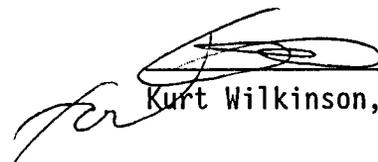
SAIC/Science Application  
NASA Ames Res Center Bldg 19  
Room 1070 Annex Attn: Bob Javinsky  
Moffett, CA 94035-1000

Constituent	BATCH ID	Method	Units	BLANK QA/QC			CALIBRATION QA/QC					METHOD QA/QC						
				DLR	Result	NOTE	Type	Conc.	% REC	AR	NOTE	Type	Conc.	% REC	% REC	AR	% DIF	MAV
Chlorine Residual	0A13A	4500Cl G	mg/L	0.10	ND		CCV	1.00	90.6	90-110		Dup	.00200	N/A	N/A	N/A	0.0	20.0
Nitrate	2C 2B	4500NO3F	mg/L	0.40	0.21		CCV	17.7	95.4	90-110		MS	17.7	93.3	93.0	87-115	0.3	7.4

FGL ID = 19980714 ND => Not Detected at or above DLR. DLR => Detection Limit for Reporting purposes. N/A => Not Applicable NOTE => See note indicated below.

FGL ENVIRONMENTAL, INC.

KW:CL



Kurt Wilkinson, B.S., QA Director



## Analytical Chemists

June 29, 1998

INORGANIC Quality Assurance Report for sample: 832948

SAIC/Science Application  
NASA Ames Res Center Bldg 19  
Room 1070 Annex Attn: Bob Javinsky  
Moffett, CA 94035-1000

Constituent	BATCH ID	Method	Units	BLANK QA/QC			CALIBRATION QA/QC					METHOD QA/QC						
				DLR	Result	NOTE	Type	Conc.	% REC	AR	NOTE	Type	Conc.	% REC	% REC	AR	% DIF	MAV
Chlorine Residual	0A13A	4500Cl G	mg/L	0.10	ND		CCV	1.00	90.2	90-110		Dup	3.50	N/A	N/A	N/A	0.9	20.0
Nitrate	2C 2B	4500NO3F	mg/L	0.40	0.05		CCV	17.7	98.6	90-110		MS	17.7	102	101	90-116	1.7	6.0

FGL ID = 19980609 ND => Not Detected at or above DLR. DLR => Detection Limit for Reporting purposes. N/A => Not Applicable NOTE => See note indicated below.

KW:cea

FGL ENVIRONMENTAL, INC.

Kurt Wilkinson, B.S., QA Director



# ENVIRONMENTAL

## ANALYTICAL CHEMISTS

GENERAL MINERAL, PHYSICAL, INORGANIC, & RADIOLOGICAL CHEMICAL ANALYSES

Date of Report: June 29, 1998

Sample ID No. STK 832948-01

Laboratory

Signature Lab

Name: FGL Environmental

Director:

Name of Sampler: Brian Pabst

Employed By: FGL Environmental

Date/time Sample

Date/Time Sample

Date Analyses

Collected: 06/09/1998-1309 Rec. @ Lab: 06/09/1998-1445 Completed: 06/11/1998

System

System

Name: CROWS LANDING

Number:

Name or Number of Sample Source: Wellhead-Well #3

User ID:	Station Number:
Date/Time of Sample: 9 8 0 6 0 9 1 3 0 9 Y Y M M D D T T T T	Laboratory Code: 5 8 6 7
Submitted by: FGL Environmental	Phone #(805) 659-0910

### GENERAL MINERAL & PHYSICAL CHEMICALS

MCL	UNITS	CHEMICAL	ENTRY	RESULT	DLR
45	mg/L	Nitrate (NO <sub>3</sub> )	71850	65	1.6

MCL - Maximum Contaminate Level      DLR - Detection Limit for Reporting purposes      ND - Not Detected at or above DLR  
 \* 250-500-600      \*\* 900-1600-2200      \*\*\* 500-1000-1500      + Indicates Secondary Drinking Water Standards

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 Mobile: 209/737-2399



# ENVIRONMENTAL

## ANALYTICAL CHEMISTS

GENERAL MINERAL, PHYSICAL, INORGANIC, & RADIOLOGICAL CHEMICAL ANALYSES

Date of Report: **June 29, 1998** Sample ID No. **STK 832948-02**  
 Laboratory Signature Lab  
 Name: **FGL Environmental** Director: \_\_\_\_\_  
 Name of Sampler: **Brian Pabst** Employed By: **FGL Environmental**  
 Date/time Sample Date/Time Sample Date Analyses  
 Collected: **06/09/1998-1313** Rec. @ Lab: **06/09/1998-1445** Completed: **06/09/1998**

System Name: **CROWS LANDING** System Number:

Name or Number of Sample Source: **Tank Spigot**

User ID:	Station Number:
Date/Time of Sample: <b>9 8 0 6 0 9 1 3 1 3</b>	Laboratory Code: <b>5 8 6 7</b>
	Y Y M M D D T T T T
Submitted by: <b>FGL Environmental</b>	Phone # <b>(805) 659-0910</b>

### GENERAL MINERAL & PHYSICAL CHEMICALS

MCL	UNITS	CHEMICAL	ENTRY	RESULT	DLR
45	mg/L	Nitrate (NO <sub>3</sub> )	71850	66	1.6

### ADDITIONAL INORGANIC CHEMICALS

MCL	UNITS	CHEMICAL	ENTRY	RESULT	DLR
	mg/L	Chlorine Residual		3.5	0.50

MCL - Maximum Contaminate Level      DLR - Detection Limit for Reporting purposes      ND - Not Detected at or above DLR  
 + Indicates Secondary Drinking Water Standards

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 Mobile: 209/737-2399

002



# ENVIRONMENTAL

## Analytical Chemists

June 17, 1998

RE: BACTERIOLOGICAL

Page 1

SAIC / Science Application International  
NASA Ames Res. Center Bld 19 Rm1070Annex  
Attn: Chuck Kalleta/Mail Stop 19-21  
Moffett Field, CA 94035-1000

System Number:  
Project Name: Crows Landing-Monthly

### SAMPLE INFORMATION:

ID #	FGL Lab Number	Description	Sample Reason	Sample Type	Sampler	Employed By	Sampled Date Time		Started Date Time		Finished Date	Foot Note
1	STK 832948-01	Wellhead-Well #3	Routine	Source	Brian Pabst	FGL Environmental	08/09/1998	13:09	08/09/1998	15:40	08/10/1998	
2	STK 832948-02	Tank Spigot	Routine	System	Brian Pabst	FGL Environmental	08/09/1998	13:13	08/09/1998	15:40	08/10/1998	

O/S Out of Service Well    ? The holding time for this sample has been exceeded.    ? No sample time provided, holding time may have been exceeded.

### ANALYTICAL RESULTS:

ID #	Description	Cl <sub>2</sub> Residual	Temp °F	Method	Units	Coliform Result		Person	Notification		Interpretations		
						Total	Fecal		Date	Time	Pass	Fail	
1	Wellhead-Well #3	---		MHD/MUG-P/A	P/A /100ml	- ABSENT	N/R	N/R		--	-	■	
2	Tank Spigot	---		MHD/MUG-P/A	P/A /100ml	- ABSENT	N/R	N/R		--	-	■	

N/R Not Required    MPH Most Probable Number    P/A Presence/Absence    \* E. coli specific    Pass: ■    Fail - Total: ■■ :Fecal

The State Board of Health requires that bacteriological results must be 'ABSENT' to meet drinking water requirements. Analyses were performed using Standard Methods 17th edition, APHA. If you have any questions regarding your results, please call.

FGL ENVIRONMENTAL

Charles Johnson, B.S.

CJ:yys

08/04/98 TUE 15:50 FAX



# ENVIRONMENTAL

## Analytical Chemists

May 29, 1998

INORGANIC Quality Assurance Report for sample: 832416

Science Application International Corp.  
NASA Ames Res. Ctr Bldg 19 Rm 1070 Annex  
Attn: Chuck Kalleta/Mail Stop 19-21  
Moffett Field, CA 94035-1000

Constituent	BATCH ID	Method	Units	BLANK QA/QC			CALIBRATION QA/QC					METHOD QA/QC						
				DLR	Result	NOTE	Type	Conc.	% REC	AR	NOTE	Type	Conc.	% REC	% REC	AR	% DIF	MAV
Nitrate	0C 2B	4500N03F	mg/L	0.40	0.10		CCV	17.7	98.8	90-110		MS	17.7	95.7	98.6	87-115	2.9	7.4

FGL ID = 19980514 ND => Not Detected at or above DLR. DLR => Detection Limit for Reporting purposes. N/A => Not Applicable NOTE => See note indicated below.

KW:cea

FGL ENVIRONMENTAL, INC.

Kurt Wilkinson, B.S., QA Director



# ENVIRONMENTAL

## Analytical Chemists

May 29, 1998

INORGANIC Quality Assurance Report for sample: 832416

SAIC / Science Application International  
NASA Ames Res. Center Bld 19 Rm1070Annex  
Attn: Chuck Kalleta/Mail Stop 19-21  
Moffett Field, CA 94035-1000

Constituent	BATCH ID	Method	Units	BLANK QA/QC			CALIBRATION QA/QC					METHOD QA/QC							
				DLR	Result	NOTE	Type	Conc.	% REC	AR	NOTE	Type	Conc.	% REC	% REC	AR	% DIF	MAV	NOTE
Chlorine Residual	0A13A	4500Cl G	mg/L	0.10	ND		CCV	1.00	90.2	90-110		Dup	0.00300	N/A	N/A	N/A	133	20.0	405

FGL ID = 19980512 ND => Not Detected at or above DLR. DLR => Detection Limit for Reporting purposes. N/A => Not Applicable NOTE => See note indicated below.

**Notes:**

405 Relative Percent Difference (RPD) not within the Maximum Allowable Value (MAV) because of low analyte concentration in the sample. Data was accepted based on the LCS or CCV recovery.

FGL ENVIRONMENTAL, INC.

Kurt Wilkinson, B.S., QA Director

KW:cea



# ENVIRONMENTAL

## ANALYTICAL CHEMISTS

GENERAL MINERAL, PHYSICAL, INORGANIC, & RADIOLOGICAL CHEMICAL ANALYSES

Date of Report: **May 29, 1998**

Sample ID No. **STK 832416-01**

Laboratory

Signature Lab *[Signature]*

Name: **FGL Environmental**

Director:

Name of Sampler: **Brian Pabst**

Employed By: **FGL Environmental**

Date/time Sample

Date/Time Sample

Date Analyses

Collected: **05/12/1998-1352** Rec. @ Lab: **05/12/1998-1500** Completed: **05/14/1998**

System

System

Name: **CROWS LANDING**

Number:

Name or Number of Sample Source: **Wellhead-Well #3**

User ID:	Station Number:
Date/Time of Sample: <b>9 8 0 5 1 2 1 3 5 2</b>	Laboratory Code: <b>5 8 6 7</b>
	Y Y M M D D T T T T
Submitted by: <b>FGL Environmental</b>	Phone # <b>(805) 659-0910</b>

### GENERAL MINERAL & PHYSICAL CHEMICALS

MCL	UNITS	CHEMICAL	ENTRY	RESULT	DLR
45	mg/L	Nitrate (NO <sub>3</sub> )	71850	67	1.6

MCL - Maximum Contaminate Level      DLR - Detection Limit for Reporting purposes      ND - Not Detected at or above DLR  
 \* 250-500-600      \*\* 900-1600-2200      \*\*\* 500-1000-1500      + Indicates Secondary Drinking Water Standards

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# ENVIRONMENTAL

## ANALYTICAL CHEMISTS

GENERAL MINERAL, PHYSICAL, INORGANIC, & RADIOLOGICAL CHEMICAL ANALYSES

Date of Report: May 29, 1998

Sample ID No. STK 832416-02

Laboratory

Signature Lab

Name: FGL Environmental

Director:

Name of Sampler: Brian Pabst

Employed By: FGL Environmental

Date/time Sample

Date/Time Sample

Date Analyses

Collected: 05/12/1998-1354 Rec. @ Lab: 05/12/1998-1500 Completed: 05/12/1998

System

System

Name: CROWS LANDING

Number:

Name or Number of Sample Source: Tank Spigot

User ID:	Station Number:
Date/Time of Sample: 9 8 0 5 1 2 1 3 5 4	Laboratory Code: 5 8 6 7
Submitted by: FGL Environmental	Phone #(805) 659-0910
Y Y M M D D T T T T	

### GENERAL MINERAL & PHYSICAL CHEMICALS

MCL	UNITS	CHEMICAL	ENTRY	RESULT	DLR
45	mg/L	Nitrate (NO <sub>3</sub> )	71850	69	1.6

### ADDITIONAL INORGANIC CHEMICALS

MCL	UNITS	CHEMICAL	ENTRY	RESULT	DLR
	mg/L	Chlorine Residual		3.2	0.33

MCL - Maximum Contaminate Level      DLR - Detection Limit for Reporting purposes      ND - Not Detected at or above DLR  
 + Indicates Secondary Drinking Water Standards



## Analytical Chemists

June 17, 1998

RE: BACTERIOLOGICAL

Page 1

**SAIC / Science Application International**  
NASA Ames Res. Center Bld 19 Rm1070Annex  
Attn: Chuck Kalleta/Mail Stop 19-21  
Moffett Field, CA 94035-1000

System Number:  
Project Name: Crows Landing-Monthly

### SAMPLE INFORMATION:

ID #	FGL Lab Number	Description	Sample Reason	Sample Type	Sampler	Employed By	Sampled Date	Sampled Time	Started Date	Started Time	Finished Date	Foot Note
1	STK 832948-01	Wellhead-Well #3	Routine	Source	Brian Pabst	FGL Environmental	08/09/1998	13:09	08/09/1998	15:40	08/10/1998	
2	STK 832948-02	Tank Spigot	Routine	System	Brian Pabst	FGL Environmental	08/09/1998	13:13	08/09/1998	15:40	08/10/1998	

O/S Out of Service Well    ! The holding time for this sample has been exceeded.    ? No sample time provided, holding time may have been exceeded.

### ANALYTICAL RESULTS:

ID #	Description	Cl <sub>2</sub> Residual	Temp °F	Method	Units	Coliform Result		Person	Notification		Interpretations		
						Total	Fecal		Date	Time	Pass	Fail	
1	Wellhead-Well #3	---		MMO/MUG-P/A	P/A /100ml	-	ABSENT	N/R		--	-	█	
2	Tank Spigot	---		MMO/MUG-P/A	P/A /100ml	-	ABSENT	N/R		--	-	█	

N/R Not Required    MPN Most Probable Number    P/A Presence/Absence    \* E. coli specific    Pass: █    Fail - Total: █ :Fecal

The State Board of Health requires that bacteriological results must be 'ABSENT' to meet drinking water requirements. Analyses were performed using Standard Methods 17th edition, APHA. If you have any questions regarding your results, please call.

FGL ENVIRONMENTAL

Charles Johnson, B.S.

CJ:yys



# ENVIRONMENTAL

## ANALYTICAL CHEMISTS

GENERAL MINERAL, PHYSICAL, INORGANIC, & RADIOLOGICAL CHEMICAL ANALYSES

Date of Report: April 29, 1998

Sample ID No. STK 831888-01

Laboratory

Signature Lab

Name: FGL Environmental

Director:

Name of Sampler: Zuzana M. Vona

Employed By: FGL Environmental

Date/time Sample

Date/Time Sample

Date Analyses

Collected: 04/14/1998-1510

Rec. @ Lab: 04/14/1998-1604

Completed: 04/15/1998

System

System

Name: CROWS LANDING

Number:

Name or Number of Sample Source: Wellhead-Well #3

User ID:

Station Number:

Date/Time of Sample: 9 8 0 4 1 4 1 5 1 0

Laboratory Code: 5 8 6 7

Y Y M M D D T T T T

Submitted by: FGL Environmental

Phone #(805) 659-0910

### GENERAL MINERAL & PHYSICAL CHEMICALS

MCL	UNITS	CHEMICAL	ENTRY	RESULT	DLR
45	mg/L	Nitrate (NO <sub>3</sub> )	71850	73	1.6

MCL - Maximum Contaminate Level

DLR - Detection Limit for Reporting purposes

ND - Not Detected at or above DLR

\* 250-500-600

\*\* 900-1600-2200

\*\*\* 500-1000-1500

+ Indicates Secondary Drinking Water Standards

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CA ELAP Certification No: 1573

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Stockton, CA 95215  
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FAX: 209/942-0423  
CA ELAP Certification No: 1563

Field Office  
Visalia, CA  
TEL: 209/734-9473  
FAX: 209/734-8435  
Mobile: 209/737-2399



# ENVIRONMENTAL

## ANALYTICAL CHEMISTS

GENERAL MINERAL, PHYSICAL, INORGANIC, & RADIOLOGICAL CHEMICAL ANALYSES

Date of Report: April 29, 1998

Sample ID No. STK 831888-02

Laboratory

Signature Lab

Name: FGL Environmental

Director:

Name of Sampler: Zuzana M. Vona

Employed By: FGL Environmental

Date/time Sample

Date/Time Sample

Date Analyses

Collected: 04/14/1998-1515

Rec. @ Lab: 04/14/1998-1604

Completed: 04/14/1998

System

System

Name: CROWS LANDING

Number:

Name or Number of Sample Source: Tank Spigot

User ID:	Station Number:
Date/Time of Sample: 9 8 0 4 1 4 1 5 1 5 Y Y M M D D T T T T	Laboratory Code: 5 8 6 7
Submitted by: FGL Environmental	Phone #(805) 659-0910

### GENERAL MINERAL & PHYSICAL CHEMICALS

MCL	UNITS	CHEMICAL	ENTRY	RESULT	DLR
45	mg/L	Nitrate (NO <sub>3</sub> )	71850	71	1.6

### ADDITIONAL INORGANIC CHEMICALS

MCL	UNITS	CHEMICAL	ENTRY	RESULT	DLR
	mg/L	Chlorine Residual		3.1	0.50

MCL - Maximum Contaminate Level

DLR - Detection Limit for Reporting purposes

ND - Not Detected at or above DLR

+ Indicates Secondary Drinking Water Standards

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## Analytical Chemists

April 29, 1998

INORGANIC Quality Assurance Report for sample: 831888

Science Application International Corp.  
NASA Ames Res. Ctr Bldg 19 Rm 1070 Annex  
Attn: Chuck Kalleta/Mail Stop 19-21  
Moffett Field, CA 94035-1000

Constituent	BATCH ID	Method	Units	BLANK QA/QC			CALIBRATION QA/QC					METHOD QA/QC							
				DLR	Result	NOTE	Type	Conc.	% REC	AR	NOTE	Type	Conc.	% REC	% REC	AR	% DIF	MAV	NOTE
Chlorine Residual	0A13A	4500Cl G	mg/L	0.10	ND		CCV	1.00	98.2	90-110		Dup	36.1	N/A	N/A	N/A	0.0	20.0	
Nitrate	1C 2C	4500N03F	mg/L	0.40	0.29		CCV	17.7	96.7	90-110		MS	17.7	121	119	90-116	1.1	6.0	410

FGL ID = 19980414 ND => Not Detected at ar above DLR. DLR => Detection Limit for Reporting purposes. N/A => Not Applicable NOTE => See note indicated below.

**Notes:**

410 Matrix Spike (MS) not within Acceptance Range (AR) and/or Relative Percent Difference (RPD) not within Maximum Allowable Value (MAV). Batch qualified based on the LCS, CCV, or ICV recovery.

KW:kdm

FGL ENVIRONMENTAL, INC.

Kurt Wilkinson, B.S., QA Director



## Analytical Chemists

May 8, 1998

RE: BACTERIOLOGICAL

Page 1

**SAIC / Science Application International**  
 NASA Ames Res. Center Bld 19 Rm1070Annex  
 Attn: Chuck Kalleta/Mail Stop 19-21  
 Moffett Field, CA 94035-1000

System Number:  
 Project Name: Crows Landing-Monthly

### SAMPLE INFORMATION:

ID #	FGL Lab Number	Description	Sample Reason	Sample Type	Sampler	Employed By	Sampled		Started		Finished Date	Foot Note
							Date	Time	Date	Time		
1	STK 831888-01	Wellhead-Well #3	Routine	Source	Zuzana M. Vona	FGL Environmental	04/14/1998	15:10	04/14/1998	16:30	04/15/1998	
2	STK 831888-02	Tank Spigot	Routine	System	Zuzana M. Vona	FGL Environmental	04/14/1998	15:15	04/14/1998	16:30	04/15/1998	

0/S Out of Service Well    # The holding time for this sample has been exceeded.    ? No sample time provided, holding time may have been exceeded.

### ANALYTICAL RESULTS:

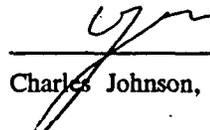
ID #	Description	Cl <sub>2</sub> Residual	Method	Units	Coliform Result		Person	Notification		Interpretations		
					Total	Fecal		Date	Time	Pass	Fail	
1	Wellhead-Well #3	---	MMO/MUG-P/A	P/A /100ml	-	ABSENT	N/R		--	-	■	
2	Tank Spigot	---	MMO/MUG-P/A	P/A /100ml	-	ABSENT	N/R		--	-	■	

N/R Not Required    MPN Most Probable Number    P/A Presence/Absence    \* E. coli specific    Pass: ■    Fail - Total: ■:Fecal

The State Board of Health requires that bacteriological results must be 'ABSENT' to meet drinking water requirements. Analyses were performed using Standard Methods 17th edition, APHA. If you have any questions regarding your results, please call.

FGL ENVIRONMENTAL

CJ:yys

  
 Charles Johnson, B.S.



# ENVIRONMENTAL

## ANALYTICAL CHEMISTS

GENERAL MINERAL, PHYSICAL, INORGANIC, & RADIOLOGICAL CHEMICAL ANALYSES

Date of Report: April 1, 1998

Sample ID No. STK 831468-01

Laboratory

Signature Lab *[Signature]*

Name: FGL Environmental

Director:

Name of Sampler: Zuzana M. Vona

Employed By: FGL Environmental

Date/time Sample

Date/Time Sample

Date Analyses

Collected: 03/24/1998-1428 Rec. @ Lab: 03/24/1998-1535 Completed: 03/30/1998

System

System

Name: CROWS LANDING

Number:

Name or Number of Sample Source: Wellhead-Well #3

User ID:	Station Number:
Date/Time of Sample: 9 8 0 3 2 4 1 4 2 8 Y Y M M D D T T T T	Laboratory Code: 5 8 6 7
Submitted by: FGL Environmental	Phone #(805) 659-0910

### GENERAL MINERAL & PHYSICAL CHEMICALS

MCL	UNITS	CHEMICAL	ENTRY	RESULT	DLR
45	mg/L	Nitrate (NO <sub>3</sub> )	71850	72	1.6

MCL - Maximum Contaminate Level      DLR - Detection Limit for Reporting purposes      ND - Not Detected at or above DLR  
 \* 250-500-600      \*\* 900-1600-2200      \*\*\* 500-1000-1500      + Indicates Secondary Drinking Water Standards

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 Mobile: 209/737-2399



**Analytical Chemists**

April 1, 1998

**INORGANIC Quality Assurance Report for sample: 831468**

 Science Application International Corp.  
 NASA Ames Res. Ctr Bldg 19 Rm 1070 Annex  
 Attn: Chuck Kalleta/Mail Stop 19-21  
 Moffett Field, CA 94035-1000

Constituent	BATCH ID	Method	Units	BLANK QA/QC			CALIBRATION QA/QC					METHOD QA/QC						
				DLR	Result	NOTE	Type	Conc.	% REC	AR	NOTE	Type	Conc.	% REC	% REC	AR	% DIF	MAV
Nitrate	6C 2C	4500NO3F	mg/L	0.40	0.07		CCV	17.7	107	90-110		MS	17.7	109	111	90-116	1.2	6.0

FGL ID = 19980324 ND =&gt; Not Detected at or above DLR. DLR =&gt; Detection Limit for Reporting purposes. N/A =&gt; Not Applicable NOTE =&gt; See note indicated below.

**FGL ENVIRONMENTAL, INC.**

KW:kdm


**Kurt Wilkinson, B.S., QA Director**



## Analytical Chemists

April 1, 1998

INORGANIC Quality Assurance Report for sample: 831468

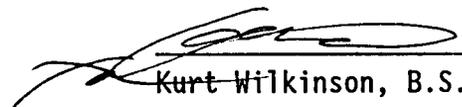
SAIC / Science Application International  
NASA Ames Res. Center Bld 19 Rm1070Annex  
Attn: Chuck Kalleta/Mail Stop 19-21  
Moffett Field, CA 94035-1000

Constituent	BATCH ID	Method	Units	BLANK QA/QC			CALIBRATION QA/QC					METHOD QA/QC							
				DLR	Result	NOTE	Type	Conc.	% REC	AR	NOTE	Type	Conc.	% REC	% REC	AR	% DIF	MAV	NOTE
Chlorine Residual	0A13A	4500Cl G	mg/L	0.10	ND		CCV	1.00	90.6	90-110		Dup	3.44	N/A	N/A	N/A	0.6	20.0	

FGL ID = 19980324 ND => Not Detected at or above DLR. DLR => Detection Limit for Reporting purposes. N/A => Not Applicable NOTE => See note indicated below.

FGL ENVIRONMENTAL, INC.

KW:kdm



Kurt Wilkinson, B.S., QA Director



## Analytical Chemists

March 27, 1998

RE: BACTERIOLOGICAL

Page 1

**SAIC / Science Application International**  
NASA Ames Res. Center Bld 19 Rm1070Annex  
Attn: Chuck Kalleta/Mail Stop 19-21  
Moffett Field, CA 94035-1000

System Number:  
Project Name: Crows Landing-Monthly

### SAMPLE INFORMATION:

ID #	FGL Lab Number	Description	Sample Reason	Sample Type	Sampler	Employed By	Sampled		Started		Finished Date	Foot Note
							Date	Time	Date	Time		
1	STK 831488-01	Wellhead-Well #3	Routine	Source	Zuzana M. Vona	FGL Environmental	03/24/1998	14:28	03/24/1998	17:20	03/25/1998	
2	STK 831488-02	Tank Spigot	Routine	System	Zuzana M. Vona	FGL Environmental	03/24/1998	14:20	03/24/1998	17:20	03/25/1998	

O/S Out of Service Well    ! The holding time for this sample has been exceeded.    ? No sample time provided, holding time may have been exceeded.

### ANALYTICAL RESULTS:

ID #	Description	Cl <sub>2</sub> Residual	Method	Units	Coliform Result		Person	Notification		Interpretations		
					Total	Fecal		Date	Time	Pass	Fail	
1	Wellhead-Well #3	---	MMD/MUG-P/A	P/A /100ml	-	ABSENT	N/R		--	-	█	
2	Tank Spigot	---	MMD/MUG-P/A	P/A /100ml	-	ABSENT	N/R		--	-	█	

N/R Not Required    MPN Most Probable Number    P/A Presence/Absence    \* E. coli specific    Pass: █    Fail - Total: █ :Fecal

The State Board of Health requires that bacteriological results must be 'ABSENT' to meet drinking water requirements. Analyses were performed using Standard Methods 17th edition, APHA. If you have any questions regarding your results, please call.

FGL ENVIRONMENTAL

  
\_\_\_\_\_  
Charles Johnson, B.S.

CJ:yys



## Analytical Chemists

March 4, 1998

**RE: BACTERIOLOGICAL**

Page 1

**SAIC / Science Application International**  
 NASA Ames Res. Center Bld 19 Rm1070Annex  
 Attn: Chuck Kalleta/Mail Stop 19-21  
 Moffett Field, CA 94035-1000

System Number:  
 Project Name: Crows Landing-Monthly

### SAMPLE INFORMATION:

ID #	FGL Lab Number	Description	Sample Reason	Sample Type	Sampler	Employed By	Sampled		Started		Finished Date	Foot Note
							Date	Time	Date	Time		
1	STK 830902-01	Wellhead-Well #3	Routine	Source	Zuzana M. Vona	FGL Environmental	02/18/1998	14:01	02/18/1998	17:00	02/19/1998	
2	STK 830902-02	Tank Spigot	Routine	System	Zuzana M. Vona	FGL Environmental	02/18/1998	14:07	02/18/1998	17:00	02/19/1998	

0/S Out of Service Well    !! The holding time for this sample has been exceeded.    ? No sample time provided, holding time may have been exceeded.

### ANALYTICAL RESULTS:

ID #	Description	Cl <sub>2</sub> Residual	Method	Units	Coliform Result		Person	Notification		Interpretations		
					Total	Fecal		Date	Time	Pass	Fail	
1	Wellhead-Well #3	---	MMD/MJG-P/A	P/A /100ml	-	ABSENT	N/R		--	-	■	
2	Tank Spigot	---	MMD/MJG-P/A	P/A /100ml	-	ABSENT	N/R		--	-	■	

N/R Not Required    MPN Most Probable Number    P/A Presence/Absence    \* E. coli specific    Pass: ■    Fail - Total: ■:Fecal

The State Board of Health requires that bacteriological results must be 'ABSENT' to meet drinking water requirements. Analyses were performed using Standard Methods 17th edition, APHA. If you have any questions regarding your results, please call.

FGL ENVIRONMENTAL

  
 Charles Johnson, B.S.

CJ:cj



# ENVIRONMENTAL

## ANALYTICAL CHEMISTS

GENERAL MINERAL, PHYSICAL, INORGANIC, & RADIOLOGICAL CHEMICAL ANALYSES

Date of Report: **February 26, 1998**

Sample ID No. **STK 830902-01**

Laboratory

Signature Lab

Name: **FGL Environmental**

Director:

Name of Sampler: **Zuzana M. Vona**

Employed By: **FGL Environmental**

Date/time Sample

Date/Time Sample

Date Analyses

Collected: **02/18/1998-1401** Rec. @ Lab: **02/18/1998-1535** Completed: **02/24/1998**

System

System

Name: **CROWS LANDING**

Number:

Name or Number of Sample Source: **Wellhead-Well #3**

User ID:	Station Number:
Date/Time of Sample: <b>9 8 0 2 1 8 1 4 0 1</b> Y Y M M D D T T T T	Laboratory Code: <b>5 8 6 7</b>
Submitted by: <b>FGL Environmental</b>	Phone # <b>(805) 659-0910</b>

### GENERAL MINERAL & PHYSICAL CHEMICALS

MCL	UNITS	CHEMICAL	ENTRY	RESULT	DLR
45	mg/L	Nitrate (NO <sub>3</sub> )	71850	67	0.8

MCL - Maximum Contaminate Level      DLR - Detection Limit for Reporting purposes      ND - Not Detected at or above DLR  
 \* 250-500-600      \*\* 900-1600-2200      \*\*\* 500-1000-1500      + Indicates Secondary Drinking Water Standards

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 CA ELAP Certification No: 1583

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# ENVIRONMENTAL

## ANALYTICAL CHEMISTS

GENERAL MINERAL, PHYSICAL, INORGANIC, & RADIOLOGICAL CHEMICAL ANALYSES

Date of Report: February 26, 1998      Sample ID No. **STK 830902-02**  
 Laboratory      Signature Lab  
 Name: **FGL Environmental**      Director: *[Signature]*  
 Name of Sampler: **Zuzana M. Vona**      Employed By: **FGL Environmental**  
 Date/time Sample      Date/Time Sample      Date Analyses  
 Collected: **02/18/1998-1407** Rec. @ Lab: **02/18/1998-1535** Completed: **02/18/1998**

System      System  
 Name: **CROWS LANDING**      Number:

Name or Number of Sample Source: **Tank Spigot**

User ID:	Station Number:
Date/Time of Sample: <b>9 8 0 2 1 8 1 4 0 7</b>	Laboratory Code: <b>5 8 6 7</b>
	Y Y M M D D T T T T
Submitted by: <b>FGL Environmental</b>	Phone # <b>(805) 659-0910</b>

### GENERAL MINERAL & PHYSICAL CHEMICALS

MCL	UNITS	CHEMICAL	ENTRY	RESULT	DLR
45	mg/L	Nitrate (NO <sub>3</sub> )	71850	70	1.6

### ADDITIONAL INORGANIC CHEMICALS

MCL	UNITS	CHEMICAL	ENTRY	RESULT	DLR
	mg/L	Chlorine Residual		1.1	0.1

MCL - Maximum Contaminate Level      DLR - Detection Limit for Reporting purposes      ND - Not Detected at or above DLR  
 + Indicates Secondary Drinking Water Standards



## Analytical Chemists

February 26, 1998

INORGANIC Quality Assurance Report for sample: 830902

Science Application International Corp.  
NASA Ames Res. Ctr Bldg 19 Rm 1070 Annex  
Attn: Chuck Kalleta/Mail Stop 19-21  
Moffett Field , CA 94035-1000

Constituent	BATCH ID	Method	Units	BLANK QA/QC			CALIBRATION QA/QC					METHOD QA/QC							
				DLR	Result	NOTE	Type	Conc.	% REC	AR	NOTE	Type	Conc.	% REC	% REC	AR	% DIF	MAV	NOTE
Nitrate	0C 2A	4500N03F	mg/L	0.40	0.06		CCV	17.7	97.4	90-110		MS	17.7	102	106	87-115	2.2	7.4	

FGL ID = 19980224 ND => Not Detected at ar above DLR. DLR => Detection Limit for Reporting purposes. N/A => Not Applicable NOTE => See note indicated below.

KW:VT

FGL ENVIRONMENTAL, INC.

Kurt Wilkinson, B.S., QA Director



# ENVIRONMENTAL

## Analytical Chemists

February 26, 1998

INORGANIC Quality Assurance Report for sample: 830902

SAIC / Science Application International  
NASA Ames Res. Center Bld 19 Rm1070Annex  
Attn: Chuck Kalleta/Mail Stop 19-21  
Moffett Field, CA 94035-1000

Constituent	BATCH ID	Method	Units	BLANK QA/QC			CALIBRATION QA/QC					METHOD QA/QC							
				DLR	Result	NOTE	Type	Conc.	% REC	AR	NOTE	Type	Conc.	% REC	% REC	AR	% DIF	MAV	NOTE
Chlorine Residual	0A13A	4500Cl G	mg/L	0.10	ND		CCV	1.00	99.4	90-110		Dup	1.08	N/A	N/A	N/A	0.9	20.0	

FGL ID = 19980218 ND => Not Detected at or above DLR. DLR => Detection Limit for Reporting purposes. N/A => Not Applicable NOTE => See note indicated below.

KW:VT

FGL ENVIRONMENTAL, INC.

Kurt Wilkinson, B.S., QA Director



## Analytical Chemists

January 23, 1998

INORGANIC Quality Assurance Report for sample: 830170

SAIC / Science Application International  
NASA Ames Res. Center Bld 19 Rm1070Annex  
Attn: Chuck Kalleta/Mail Stop 19-21  
Moffett Field , CA 94035-1000

Constituent	BATCH ID	Method	Units	BLANK QA/QC			CALIBRATION QA/QC				METHOD QA/QC							
				DLR	Result	NOTE	Type	Conc.	% REC	AR	NOTE	Type	Conc.	% REC	% REC	AR	% DIF	MAV
Chlorine Residual	0A13A	4500Cl G	mg/L	0.10	ND		CCV	1.00	91.0	90-110		Dup	1.24	N/A	N/A	N/A	1.6	20.0

FGL ID = 19980113 ND => Not Detected at ar above DLR. DLR => Detection Limit for Reporting purposes. N/A => Not Applicable NOTE => See note indicated below.

KW:kdm

FGL ENVIRONMENTAL, INC.

Kurt Wilkinson, B.S., QA Director



# ENVIRONMENTAL

## ANALYTICAL CHEMISTS

GENERAL MINERAL, PHYSICAL, INORGANIC, & RADIOLOGICAL CHEMICAL ANALYSES

Date of Report: January 23, 1998

Sample ID No. **STK 830170-02**

Laboratory

Signature Lab *[Signature]*

Name: **FGL Environmental**

Director: *[Signature]*

Name of Sampler: **Zuzana Vona**

Employed By: **FGL**

Date/Time Sample

Date/Time Sample

Date Analyses

Collected: **01/13/1998-1412** Rec. @ Lab: **01/13/1998-1530** Completed: **01/19/1998**

System

System

Name: **CROWS LANDING**

Number:

Name or Number of Sample Source: **Tank Spigot**

User ID:	Station Number:
Date/Time of Sample: <b>9 8 0 1 1 3 1 4 1 2</b>	Laboratory Code: <b>5 8 6 7</b>
	Y Y M M D D T T T T
Submitted by: <b>FGL Environmental</b>	Phone # <b>(805) 659-0910</b>

### GENERAL MINERAL & PHYSICAL CHEMICALS

MCL	UNITS	CHEMICAL	ENTRY	RESULT	DLR
45	mg/L	Nitrate (NO <sub>3</sub> )	71850	63	1.6

### ADDITIONAL INORGANIC CHEMICALS

MCL	UNITS	CHEMICAL	ENTRY	RESULT	DLR
	mg/L	Chlorine Residual		1.2	0.20

MCL - Maximum Contaminate Level      DLR - Detection Limit for Reporting purposes      ND - Not Detected at or above DLR  
+ Indicates Secondary Drinking Water Standards



# ENVIRONMENTAL

## ANALYTICAL CHEMISTS

GENERAL MINERAL, PHYSICAL, INORGANIC, & RADIOLOGICAL CHEMICAL ANALYSES

Date of Report: **January 23, 1998** Sample ID No. **STK 830170-01**  
 Laboratory Signature Lab *[Signature]*  
 Name: **FGL Environmental** Director:  
 Name of Sampler: **Zuzana M. Vona** Employed By: **FGL Environmental**  
 Date/time Sample Date/Time Sample Date Analyses  
 Collected: **01/13/1998-1405** Rec. @ Lab: **01/13/1998-1530** Completed: **01/19/1998**

System Name: **CROWS LANDING** System Number:

Name or Number of Sample Source: **Wellhead Well #3**

User ID:	Station Number:
Date/Time of Sample: <b>9 8 0 1 1 3 1 4 0 5</b> Y Y M M D D T T T T	Laboratory Code: <b>5 8 6 7</b>
Submitted by: <b>FGL Environmental</b>	Phone # <b>(805) 659-0910</b>

### GENERAL MINERAL & PHYSICAL CHEMICALS

MCL	UNITS	CHEMICAL	ENTRY	RESULT	DLR
45	mg/L	Nitrate (NO <sub>3</sub> )	71850	60	1.6

MCL - Maximum Contaminate Level    DLR - Detection Limit for Reporting purposes    ND - Not Detected at or above DLR  
 \* 250-500-600    \*\* 900-1600-2200    \*\*\* 500-1000-1500    + Indicates Secondary Drinking Water Standards

**Analytical Chemists**

January 23, 1998

**INORGANIC** Quality Assurance Report for sample: 830170

 Science Application International Corp.  
 10260 Campus Point Drive  
 San Diego , CA 92121

Constituent	BATCH ID	Method	Units	BLANK QA/QC			CALIBRATION QA/QC					METHOD QA/QC							
				DLR	Result	NOTE	Type	Conc.	% REC	AR	NOTE	Type	Conc.	% REC	% REC	AR	% DIF	MAV	NOTE
Nitrate	6C 2A	4500N03F	mg/L	0.40	ND		CCV	17.7	99.3	90-110		MS	17.7	130	102	90-116	22.9	6.0	410

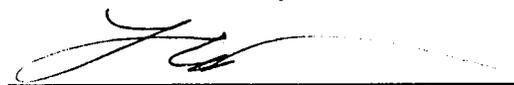
FGL ID = 19980113 ND =&gt; Not Detected at ar above DLR. DLR =&gt; Detection Limit for Reporting purposes. N/A =&gt; Not Applicable NOTE =&gt; See note indicated below.

**Notes:**

410 Matrix Spike (MS) not within Acceptance Range (AR) and/or Relative Percent Difference (RPD) not within Maximum Allowable Value (MAV). Batch qualified based on the LCS, CCV, or ICV recovery.

KW:kdm

FGL ENVIRONMENTAL, INC.



Kurt Wilkinson, B.S., QA Director



## Analytical Chemists

January 20, 1998

RE: BACTERIOLOGICAL

Page 1

**SAIC / Science Application International**  
NASA Ames Res. Center Bld 19 Rm1070Annex  
Attn: Chuck Kalleta/Mail Stop 19-21  
Moffett Field, CA 94035-1000

System Number:  
Project Name: Crows Landing-Monthly

### SAMPLE INFORMATION:

ID #	FGL Lab Number	Description	Sample Reason	Sample Type	Sampler	Employed By	Sampled		Started		Finished Date	Foot Note
							Date	Time	Date	Time		
1	STK 830170-01	Wellhead-Well #3	Routine	Source	Zuzana M. Vona	FGL Environmental	01/13/1998	14:05	01/13/1998	18:20	01/14/1998	

0/S Out of Service Well    ! The holding time for this sample has been exceeded.    ? No sample time provided, holding time may have been exceeded.

### ANALYTICAL RESULTS:

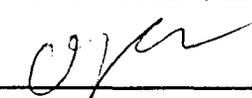
ID #	Description	Cl <sub>2</sub> Residual	Method	Units	Coliform Result		Person	Notification		Interpretations	
					Total	Fecal		Date	Time	Pass	Fail
1	Wellhead-Well #3	---	MMD/MUG-P/A	P/A /100ml	-	ABSENT	N/R	N/R	--	-	Pass: <input type="checkbox"/> Fail: <input type="checkbox"/>

N/R Not Required    MPN Most Probable Number    P/A Presence/Absence    \* E. coli specific    Pass:  Fail - Total:  :Fecal

The State Board of Health requires that bacteriological results must be 'ABSENT' to meet drinking water requirements. Analyses were performed using Standard Methods 17th edition, APHA. If you have any questions regarding your results, please call.

FGL ENVIRONMENTAL

CJ:yys

  
\_\_\_\_\_  
Charles Johnson, B.S.



# ENVIRONMENTAL

## ANALYTICAL CHEMISTS

December 17, 1997

LAB No: STK 737219-1

Science Application International Corp.  
10260 Campus Point Drive  
San Diego , CA 92121

RE: Inorganic Analysis

Sample Site: Crows Landing-Monthly  
Description: Wellhead-Well #3  
Sampled by : Brian Pabst  
Type of Sample: Drinking Water

Sampled : December 9, 1997  
Received : December 9, 1997  
Completed : December 12, 1997  
QA/QC ID# : 73721901-

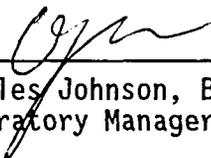
### Analytical Results

CONSTITUENT	METHOD	UNITS	DLR	RESULTS
<b>Wellhead-Well #3<sup>1,2,a</sup></b>				
Nitrate	4500N03F	mg/L	3.2*	66
<b>Tank Spigot<sup>1,2,b</sup></b>				
Chlorine Residual	4500Cl G	mg/L	0.2	1.8
Nitrate	4500N03F	mg/L	1.6*	66

DLR = Detection Limit for Reporting Purposes. ND = Not Detected at or above the DLR.  
ug/L = Micrograms Per Liter (ppb) mg/L = Milligrams Per Liter (ppm) mg/kg = Milligrams Per Kilogram  
\* = DLR adjusted because of dilutions, concentrations, or limited sample.  
Preservatives: (1) Cool 4°C (2) H2SO4 pH < 2 Containers: (a) Plastic (b) Plastic & Glass

If you have any questions, please call.

FGL ENVIRONMENTAL

  
Charles Johnson, B.S.  
Laboratory Manager

CJ:jgc



## Analytical Chemists

December 17, 1997

INORGANIC Quality Assurance Report for sample: 737219

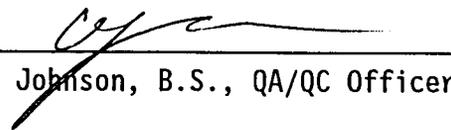
SAIC / Science Application International  
NASA Ames Res. Center Bld 19 Rm1070Annex  
Attn: Chuck Kalleta/Mail Stop 19-21  
Moffett Field, CA 94035-1000

Constituent	BATCH ID	Method	Units	BLANK QA/QC			CALIBRATION QA/QC					METHOD QA/QC						
				DLR	Result	NOTE	Type	Conc.	% REC	AR	NOTE	Type	Conc.	% REC	% REC	AR	% DIF	MAV
Chlorine Residual	0A13A	4500Cl G	mg/L	0.10	ND		CCV	1.00	96.0	90-110		Dup	-0.0160	N/A	N/A	N/A	25.0	20.0

FGL ID = 19971209 ND => Not Detected at or above DLR. DLR => Detection Limit for Reporting purposes. N/A => Not Applicable NOTE => See note indicated below.

CJ:jgc

FGL ENVIRONMENTAL, INC.

  
Charles Johnson, B.S., QA/QC Officer



# ENVIRONMENTAL

## Analytical Chemists

December 17, 1997

INORGANIC Quality Assurance Report for sample: 737219

Science Application International Corp.  
10260 Campus Point Drive  
San Diego, CA 92121

Constituent	BATCH ID	Method	Units	BLANK QA/QC			CALIBRATION QA/QC					METHOD QA/QC							
				DLR	Result	NOTE	Type	Conc.	% REC	AR	NOTE	Type	Conc.	% REC	% REC	AR	% DIF	MAV	NOTE
Nitrate	0C 2B	4500NO3F	mg/L	0.40	ND		CCV	17.7	102	90-110		MS	17.7	1.1	102	87-115	200	7.4	410

FGL ID = 19971212 ND => Not Detected at or above DLR. DLR => Detection Limit for Reporting purposes. N/A => Not Applicable NOTE => See note indicated below.

### Notes:

410 Matrix Spike (MS) not within Acceptance Range (AR) and/or Relative Percent Difference (RPD) not within Maximum Allowable Value (MAV). Batch qualified based on the LCS, CCV, or ICV recovery.

CJ:jgc

FGL ENVIRONMENTAL, INC.

  
Charles Johnson, B.S., QA/QC Officer



## Analytical Chemists

December 16, 1997

RE: BACTERIOLOGICAL

Page 1

**SAIC / Science Application International**  
NASA Ames Res. Center Bld 19 Rm1070Annex  
Attn: Chuck Kalleta/Mail Stop 19-21  
Moffett Field, CA 94035-1000

System Number:  
Project Name: Crows Landing-Monthly

### SAMPLE INFORMATION:

ID #	FGL Lab Number	Description	Sample Reason	Sample Type	Sampler	Employed By	Sampled		Started		Finished Date	Foot Note
							Date	Time	Date	Time		
1	STK 737219-01	Wellhead-Well #3	Routine	Source	Brian Pabst	FGL Environmental	12/09/1997	13:28	12/09/1997	16:40	12/10/1997	
2	STK 737219-02	Tank Spigot	Routine	System	Brian Pabst	FGL Environmental	12/09/1997	13:33	12/09/1997	16:40	12/10/1997	

O/S Out of Service Well    ! The holding time for this sample has been exceeded.    ? No sample time provided, holding time may have been exceeded.

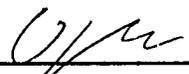
### ANALYTICAL RESULTS:

ID #	Description	Cl <sub>2</sub> Residual	Method	Units	Coliform Result		Person	Notification			Interpretations	
					Total	Fecal		Date	Time	Pass	Fail	
1	Wellhead-Well #3	---	MMO/MUG-P/A	P/A /100ml	-	ABSENT	N/R		--	-	█	
2	Tank Spigot	---	MMO/MUG-P/A	P/A /100ml	-	ABSENT	N/R		--	-	█	

N/R Not Required    MPN Most Probable Number    P/A Presence/Absence    \* E. coli specific    Pass: █    Fail - Total: █:Fecal

The State Board of Health requires that bacteriological results must be 'ABSENT' to meet drinking water requirements. Analyses were performed using Standard Methods 17th edition, APHA. If you have any questions regarding your results, please call.

FGL ENVIRONMENTAL

  
Charles Johnson, B.S.

CJ:jgc



# ENVIRONMENTAL

## ANALYTICAL CHEMISTS

October 27, 1997

LAB No: STK 736133-1

Science Application International Corp.  
10260 Campus Point Drive  
San Diego, CA 92121

RE: Inorganic Analysis

Sample Site: Crows Landing-Monthly  
Description: Wellhead-Well #3  
Sampled by : Zuzana Mercz  
Type of Sample: Drinking Water

Sampled : October 14, 1997  
Received : October 14, 1997  
Completed : October 22, 1997  
QA/QC ID# : 73613301-

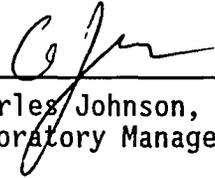
### Analytical Results

CONSTITUENT	METHOD	UNITS	DLR	RESULTS
<b>Wellhead-Well #3<sup>1,a</sup></b>				
Nitrate	4500N03F	mg/L	1.6*	64
<b>Tank Spigot<sup>1,b</sup></b>				
Chlorine Residual	4500Cl G	mg/L	0.5	3.3
Nitrate	4500N03F	mg/L	1.6*	66

DLR = Detection Limit for Reporting Purposes. ND = Not Detected at or above the DLR.  
ug/L = Micrograms Per Liter (ppb) mg/L = Milligrams Per Liter (ppm) mg/kg = Milligrams Per Kilogram  
\* = DLR adjusted because of dilutions, concentrations, or limited sample.  
Preservatives: (1) Cool 4°C Containers: (a) Plastic (b) Plastic & Glass

If you have any questions, please call.

FGL ENVIRONMENTAL

  
Charles Johnson, B.S.  
Laboratory Manager

CJ:jgc



## Analytical Chemists

October 27, 1997

INORGANIC Quality Assurance Report for sample: 736133

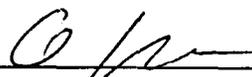
Science Application International Corp.  
10260 Campus Point Drive  
San Diego , CA 92121

Constituent	BATCH ID	Method	Units	BLANK QA/QC			CALIBRATION QA/QC					METHOD QA/QC							
				DLR	Result	NOTE	Type	Conc.	% REC	AR	NOTE	Type	Conc.	% REC	% REC	AR	% DIF	MAV	NOTE
Nitrate	0C 2B	4500NO3F	mg/L	0.40	ND		CCV	17.7	101	90-110		MS	8.86	99.9	97.8	90-116	2.2	6.0	

FGL ID = 19971022 ND => Not Detected at or above DLR. DLR => Detection Limit for Reporting purposes. N/A => Not Applicable NOTE => See note indicated below.

CJ:jgc

FGL ENVIRONMENTAL, INC.

  
 Charles Johnson, B.S., QA/QC Officer



## Analytical Chemists

October 21, 1997

RE: BACTERIOLOGICAL

Page 1

**SAIC / Science Application International**  
NASA Ames Res. Center Bld 19 Rm1070Annex  
Attn: Chuck Kalleta/Mail Stop 19-21  
Moffett Field, CA 94035-1000

System Number:  
Project Name: Crows Landing-Monthly

### SAMPLE INFORMATION:

ID #	FGL Lab Number	Description	Sample Reason	Sample Type	Sampler	Employed By	Sampled Date Time		Started Date Time		Finished Date	Foot Note
1	STK 736133-01	Wellhead-Well #3	Routine	Source	Zuzana Mercz	FGL Environmental	10/14/1997	14:26	10/14/1997	17:00	10/15/1997	
2	STK 736133-02	Tank Spigot	Routine	System	Zuzana Mercz	FGL Environmental	10/14/1997	14:33	10/14/1997	17:00	10/15/1997	

0/S Out of Service Well    ! The holding time for this sample has been exceeded.    ? No sample time provided, holding time may have been exceeded.

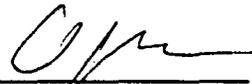
### ANALYTICAL RESULTS:

ID #	Description	Cl <sub>2</sub> Residual	Method	Units	Coliform Result		Person	Notification		Interpretations		
					Total	Fecal		Date	Time	Pass	Fail	
1	Wellhead-Well #3	---	MMD/MUG-P/A	P/A /100ml	-	ABSENT	N/R	N/R	--	-	█	
2	Tank Spigot	---	MMD/MUG-P/A	P/A /100ml	-	ABSENT	N/R	N/R	--	-	█	

N/R Not Required    MPN Most Probable Number    P/A Presence/Absence    \* E. coli specific    Pass: █    Fail - Total: █ :Fecal

The State Board of Health requires that bacteriological results must be 'ABSENT' to meet drinking water requirements. Analyses were performed using Standard Methods 17th edition, APHA. If you have any questions regarding your results, please call.

FGL ENVIRONMENTAL

  
Charles Johnson, B.S.

CJ:jgc



# ENVIRONMENTAL

## ANALYTICAL CHEMISTS

November 26, 1997

LAB No: STK 736718-1

Science Application International Corp.  
10260 Campus Point Drive  
San Diego, CA 92121

RE: Inorganic Analysis

Sample Site: Crows Landing-Monthly  
Description: Wellhead-Well #3  
Sampled by : Zuzana Mercz  
Type of Sample: Drinking Water

Sampled : November 12, 1997  
Received : November 12, 1997  
Completed : November 18, 1997  
QA/QC ID# : 73671801-

### Analytical Results

CONSTITUENT	METHOD	UNITS	DLR	RESULTS
Wellhead-Well #3 <sup>1,a</sup>				
Nitrate	300.0	mg/L	1.6*	69
Tank Spigot <sup>1,b</sup>				
Chlorine Residual	4500Cl G	mg/L	0.2	1.8
Nitrate	300.0	mg/L	2.0*	71

DLR = Detection Limit for Reporting Purposes. ND = Not Detected at or above the DLR.  
ug/L = Micrograms Per Liter (ppb) mg/L = Milligrams Per Liter (ppm) mg/kg = Milligrams Per Kilogram  
\* = DLR adjusted because of dilutions, concentrations, or limited sample.  
Preservatives: (1) Cool 4°C Containers: (a) Plastic (b) Plastic & Glass

If you have any questions, please call.

FGL ENVIRONMENTAL

  
Charles Johnson, B.S.  
Laboratory Manager

CJ:jgc



## Analytical Chemists

November 26, 1997

INORGANIC Quality Assurance Report for sample: 736718

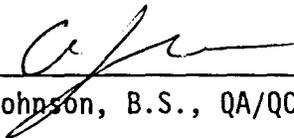
SAIC / Science Application International  
NASA Ames Res. Center Bld 19 Rm1070Annex  
Attn: Chuck Kalleta/Mail Stop 19-21  
Moffett Field, CA 94035-1000

Constituent	BATCH ID	Method	Units	BLANK QA/QC			CALIBRATION QA/QC					METHOD QA/QC							
				DLR	Result	NOTE	Type	Conc.	% REC	AR	NOTE	Type	Conc.	% REC	% REC	AR	% DIF	MAV	NOTE
Chlorine Residual	0A13A	4500Cl G	mg/L	0.10	ND		CCV	1.00	97.2	90-110		Dup	-0.0120	N/A	N/A	N/A	33.3	20.0	

FGL ID = 19971112 ND => Not Detected at or above DLR. DLR => Detection Limit for Reporting purposes. N/A => Not Applicable NOTE => See note indicated below.

CJ:jgc

FGL ENVIRONMENTAL, INC.

  
Charles Johnson, B.S., QA/QC Officer



## Analytical Chemists

November 26, 1997

INORGANIC Quality Assurance Report for sample: 736718

Science Application International Corp.  
10260 Campus Point Drive  
San Diego , CA 92121

Constituent	BATCH ID	Method	Units	BLANK QA/QC			CALIBRATION QA/QC					METHOD QA/QC							
				DLR	Result	NOTE	Type	Conc.	% REC	AR	NOTE	Type	Conc.	% REC	% REC	AR	% DIF	MAV	NOTE
Nitrate	0C 2C	4500N03F	mg/L	0.40	ND		CCV	17.7	100	90-110		MS	17.7	116	117	90-116	0.7	6.0	410
	2C 2A	4500N03F	mg/L	0.40	ND		CCV	17.7	103	90-110		MS	17.7	104	108	87-115	3.6	7.4	

FGL ID = 19971118 ND => Not Detected at ar above DLR. DLR => Detection Limit for Reporting purposes. N/A => Not Applicable NOTE => See note indicated below.

### Notes:

410 Matrix Spike (MS) not within Acceptance Range (AR) and/or Relative Percent Difference (RPD) not within Maximum Allowable Value (MAV). Batch qualified based on the LCS, CCV, or ICV recovery.

CJ:jgc

FGL ENVIRONMENTAL, INC.

  
Charles Johnson, B.S., QA/QC Officer

**Analytical Chemists**

November 18, 1997

**RE: BACTERIOLOGICAL**

Page 1

**SAIC / Science Application International**  
 NASA Ames Res. Center Bld 19 Rm1070Annex  
 Attn: Chuck Kalleta/Mail Stop 19-21  
 Moffett Field, CA 94035-1000

System Number:  
 Project Name: Crows Landing-Monthly

**SAMPLE INFORMATION:**

ID #	FGL Lab Number	Description	Sample Reason	Sample Type	Sampler	Employed By	Sampled Date Time		Started Date Time		Finished Date	Foot Note
1	STK 738718-01	Wellhead-Well #3	Routine	Source	Zuzana Mercz	FGL Environmental	11/12/1997	14:11	11/12/1997	16:12	11/13/1997	
2	STK 738718-02	Tank Spigot	Routine	System	Zuzana Mercz	FGL Environmental	11/12/1997	14:23	11/12/1997	16:12	11/13/1997	

0/S Out of Service Well    ! The holding time for this sample has been exceeded.    ? No sample time provided, holding time may have been exceeded.

**ANALYTICAL RESULTS:**

ID #	Description	Cl <sub>2</sub> Residual	Method	Units	Coliform Result		Person	Notification		Interpretations		
					Total	Fecal		Date	Time	Pass	Fail	
1	Wellhead-Well #3	---	MMD/MUG-P/A	P/A /100ml	-	ABSENT	N/R	N/R	--	-	■	
2	Tank Spigot	---	MMD/MUG-P/A	P/A /100ml	-	ABSENT	N/R	N/R	--	-	■	

N/R Not Required    MPN Most Probable Number    P/A Presence/Absence    \* E. coli specific    Pass: ■    Fail - Total: ■:Fecal

The State Board of Health requires that bacteriological results must be 'ABSENT' to meet drinking water requirements. Analyses were performed using Standard Methods 17th edition, APHA. If you have any questions regarding your results, please call.

FGL ENVIRONMENTAL

  
 Charles Johnson, B.S.

CJ:JGC



# ENVIRONMENTAL

## ANALYTICAL CHEMISTS

October 16, 1997

LAB No: STK 735537-1

Science Application International Corp.  
10260 Campus Point Drive  
San Diego, CA 92121

RE: Inorganic Analysis

Sample Site: Crows Landing-Monthly  
Description: Wellhead-Well #3  
Sampled by : Zuzana Mercz  
Type of Sample: Drinking Water

Sampled : September 17, 1997  
Received : September 17, 1997  
Completed : September 23, 1997  
QA/QC ID# : 73553701-

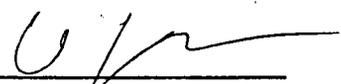
### Analytical Results

CONSTITUENT	METHOD	UNITS	DLR	RESULTS
Wellhead-Well #3 <sup>1,2,a</sup>				
Nitrate	4500N03F	mg/L	1.6*	69
Tank Spigot <sup>1,2,b</sup>				
Chlorine Residual	4500C1 G	mg/L	0.1	0.6
Nitrate	4500N03F	mg/L	1.6*	69

DLR = Detection Limit for Reporting Purposes. ND = Not Detected at or above the DLR.  
ug/L = Micrograms Per Liter (ppb) mg/L = Milligrams Per Liter (ppm) mg/kg = Milligrams Per Kilogram  
♦ = DLR adjusted because of dilutions, concentrations, or limited sample.  
Preservatives: (1) Cool 4°C (2) H2SO4 pH < 2 Containers: (a) Plastic (b) Plastic & Glass

If you have any questions, please call.

FGL ENVIRONMENTAL

  
Charles Johnson, B.S.  
Laboratory Manager

CJ:jgc

Analytical Chemists

October 16, 1997

INORGANIC Quality Assurance Report for sample: 735537

SAIC / Science Application International  
 NASA Ames Res. Center Bld 19 Rm1070Annex  
 Attn: Chuck Kalleta/Mail Stop 19-21  
 Moffett Field , CA 94035-1000

Constituent	BATCH ID	Method	Units	BLANK QA/QC			CALIBRATION QA/QC					METHOD QA/QC							
				DLR	Result	NOTE	Type	Conc.	% REC	AR	NOTE	Type	Conc.	% REC	% REC	AR	% DIF	MAV	NOTE
Chlorine Residual	0A13A	4500Cl G	mg/L	0.10	ND		CCV	10.0	91.1	90-110		Dup	0.262	N/A	N/A	N/A	9.9	20.0	

FGL ID = 19970917 ND => Not Detected at or above DLR. DLR => Detection Limit for Reporting purposes. N/A => Not Applicable NOTE => See note indicated below.

CJ:jgc

FGL ENVIRONMENTAL, INC.




---

Charles Johnson, B.S., QA/QC Officer



# ENVIRONMENTAL

## Analytical Chemists

October 16, 1997

INORGANIC Quality Assurance Report for sample: 735537

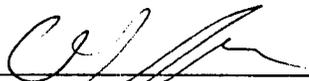
Science Application International Corp.  
10260 Campus Point Drive  
San Diego, CA 92121

Constituent	BATCH ID	Method	Units	BLANK QA/QC			CALIBRATION QA/QC					METHOD QA/QC							
				DLR	Result	NOTE	Type	Conc.	% REC	AR	NOTE	Type	Conc.	% REC	% REC	AR	% DIF	MAV	NOTE
Nitrate	OC 2C	4500NO3F	mg/L	0.40	ND		CCV	17.7	99.2	90-110		MS	17.7	99.8	99.7	90-116	0.1	6.0	

FGL ID = 19970923 ND => Not Detected at or above DLR. DLR => Detection Limit for Reporting purposes. N/A => Not Applicable NOTE => See note indicated below.

CJ:jgc

FGL ENVIRONMENTAL, INC.



Charles Johnson, B.S., QA/QC Officer



## Analytical Chemists

September 26, 1997

RE: BACTERIOLOGICAL

Page 1

**SAIC / Science Application International**  
NASA Ames Res. Center Bld 19 Rm1070Annex  
Attn: Chuck Kalleta/Mail Stop 19-21  
Moffett Field, CA 94035-1000

System Number:  
Project Name: Crows Landing-Monthly

### SAMPLE INFORMATION:

ID #	FGL Lab Number	Description	Sample Reason	Sample Type	Sampler	Employed By	Sampled		Started		Finished Date	Foot Note
							Date	Time	Date	Time		
1	STK 735537-01	Wellhead-Well #3	Routine	Source	Zuzana Mercz	FGL Environmental	09/17/1997	13:19	09/17/1997	16:18	09/19/1997	

O/S Out of Service Well    ! The holding time for this sample has been exceeded.    ? No sample time provided, holding time may have been exceeded.

### ANALYTICAL RESULTS:

ID #	Description	Cl <sub>2</sub> Residual	Method	Units	Coliform Result		Person	Notification		Interpretations		
					Total	Fecal		Date	Time	Pass	Fail	
1	Wellhead-Well #3	---	MMO/MUG-P/A	P/A /100ml	-	ABSENT	N/R		--	-		

N/R Not Required    MPN Most Probable Number    P/A Presence/Absence    \* E. coli specific    Pass:     Fail - Total:  :Fecal

The State Board of Health requires that bacteriological results must be 'ABSENT' to meet drinking water requirements. Analyses were performed using Standard Methods 17th edition, APHA. If you have any questions regarding your results, please call.

FGL ENVIRONMENTAL

Charles Johnson, B.S.

CJ:jgc



# ENVIRONMENTAL

## Analytical Chemists

September 26, 1997

RE: BACTERIOLOGICAL

Page 1

### SAIC / Science Application International

NASA Ames Res. Center Bld 19 Rm1070Annex  
Attn: Chuck Kalleta/Mail Stop 19-21  
Moffett Field, CA 94035-1000

System Number:

Project Name: Crows Landing-Monthly

### SAMPLE INFORMATION:

ID #	FGL Lab Number	Description	Sample Reason	Sample Type	Sampler	Employed By	Sampled		Started		Finished Date	Foot Note
							Date	Time	Date	Time		
1	STK 735537-02	Tank Spigot	Routine	System	Zuzana Mercz	FGL Environmental	09/17/1997	13:30	09/17/1997	16:18	09/19/1997	

O/S Out of Service Well    ! The holding time for this sample has been exceeded.    ? No sample time provided, holding time may have been exceeded.

### ANALYTICAL RESULTS:

ID #	Description	Cl <sub>2</sub> Residual	Method	Units	Coliform Result		Person	Notification		Interpretations		
					Total	Fecal		Date	Time	Pass	Fail	
1	Tank Spigot	---	MVD/MUG-P/A	P/A /100ml	-	ABSENT	N/R	N/R	--	-	Pass	Fail

N/R Not Required    MPN Most Probable Number    P/A Presence/Absence    \* E. coli specific    Pass:     Fail - Total:  :Fecal

The State Board of Health requires that bacteriological results must be 'ABSENT' to meet drinking water requirements. Analyses were performed using Standard Methods 17th edition, APHA. If you have any questions regarding your results, please call.

FGL ENVIRONMENTAL

Charles Johnson, B.S.

CJ:jgc



# ENVIRONMENTAL

## ANALYTICAL CHEMISTS

August 28, 1997

LAB No: STK 734948-1

Science Application International Corp.  
10260 Campus Point Drive  
San Diego, CA 92121

RE: Inorganic Analysis

Sample Site: Crows Landing-Monthly  
Description: Wellhead-Well #3  
Sampled by : Zuzana Mercz  
Type of Sample: Drinking Water

Sampled : August 19, 1997  
Received : August 19, 1997  
Completed : August 20, 1997  
QA/QC ID# : 73494801-

### Analytical Results

CONSTITUENT	METHOD	UNITS	DLR	RESULTS
<b>Wellhead-Well #3<sup>1,a</sup></b>				
Nitrate	4110B	mg/L	3.2*	69
<b>Tank Spigot<sup>1,b</sup></b>				
Chlorine Residual	4500C1 G	mg/L	0.1	6
Nitrate	4110B	mg/L	3.2*	68

DLR = Detection Limit for Reporting Purposes. ND = Not Detected at or above the DLR.  
ug/L = Micrograms Per Liter (ppb) mg/L = Milligrams Per Liter (ppm) mg/kg = Milligrams Per Kilogram  
♦ = DLR adjusted because of dilutions, concentrations, or limited sample.  
Preservatives: (1) Cool 4°C Containers: (a) Plastic (b) Plastic & Glass

If you have any questions, please call.

FGL ENVIRONMENTAL

  
Charles Johnson, B.S.  
Laboratory Manager

CJ:jgc



# ENVIRONMENTAL

## Analytical Chemists

August 28, 1997

INORGANIC Quality Assurance Report for sample: 734948

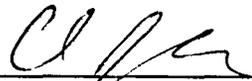
Science Application International Corp.  
10260 Campus Point Drive  
San Diego, CA 92121

Constituent	BATCH ID	Method	Units	BLANK QA/QC			CALIBRATION QA/QC					METHOD QA/QC							
				DLR	Result	NOTE	Type	Conc.	% REC	AR	NOTE	Type	Conc.	% REC	% REC	AR	% DIF	MAV	NOTE
Nitrate	OC 2A	4500NO3F	mg/L	0.40	ND		CCV	23.1	102	90-110		MS	17.7	107	106	90-116	0.9	6.0	

FGL ID = 19970820 ND => Not Detected at or above DLR. DLR => Detection Limit for Reporting purposes. N/A => Not Applicable NOTE => See note indicated below.

CJ:jgc

FGL ENVIRONMENTAL, INC.



Charles Johnson, B.S., QA/QC Officer



## Analytical Chemists

August 28, 1997

RE: BACTERIOLOGICAL

Page 1

SAIC / Science Application International  
NASA Ames Res. Center Bld 19 Rm1070Annex  
Attn: Chuck Kalleta/Mail Stop 19-21  
Moffett Field, CA 94035-1000

System Number:  
Project Name: Crows Landing-Monthly

### SAMPLE INFORMATION:

ID #	FGL Lab Number	Description	Sample Reason	Sample Type	Sampler	Employed By	Sampled Date	Sampled Time	Started Date	Started Time	Finished Date	Foot Note
1	STK 734948-01	Wellhead-Well #3	Routine	Source	Zuzana Mercz	FGL Environmental	08/19/1997	13:45	08/19/1997	15:50	08/20/1997	
2	STK 734948-02	Tank Spigot	Routine	System	Zuzana Mercz	FGL Environmental	08/19/1997	13:54	08/19/1997	15:50	08/20/1997	

0/3 Out of Service Well    ! The holding time for this sample has been exceeded.    ? No sample time provided, holding time may have been exceeded.

### ANALYTICAL RESULTS:

ID #	Description	Cl <sub>2</sub> Residual	Method	Units	Coliform Result		Person	Notification		Interpretations		
					Total	Fecal		Date	Time	Pass	Fail	
1	Wellhead-Well #3	---	MMO/MUG-P/A	P/A /100ml	-	ABSENT	N/R		--	-	■	
2	Tank Spigot	---	MMO/MUG-P/A	P/A /100ml	-	ABSENT	N/R		--	-	■	

N/R Not Required    MPN Most Probable Number    P/A Presence/Absence    \* E. coli specific    Pass: ■    Fail - Total: ■ ■ :Fecal

The State Board of Health requires that bacteriological results must be 'ABSENT' to meet drinking water requirements. Analyses were performed using Standard Methods 17th edition, APHA. If you have any questions regarding your results, please call.

FGL ENVIRONMENTAL

Charles Johnson, B.S.

CJ:jgc



# ENVIRONMENTAL

## ANALYTICAL CHEMISTS

August 15, 1997

LAB No: STK 734307-1

Science Application International Corp.  
10260 Campus Point Drive  
San Diego, CA 92121

RE: Inorganic Analysis

Sample Site: Crows Landing-Monthly  
Description: Wellhead-Well #3  
Sampled by : Zuzana Mertz  
Type of Sample: Drinking Water

Sampled : July 23, 1997  
Received : July 23, 1997  
Completed : July 25, 1997  
QA/QC ID# : 73430701-

### Analytical Results

CONSTITUENT	METHOD	UNITS	DLR	RESULTS
Wellhead-Well #3 <sup>1,a</sup>				
Nitrate	4110B	mg/L	1.6*	95
Tank Spigot <sup>1,b</sup>				
Chlorine Residual	4500C1 G	mg/L	1.0	5.0
Nitrate	4110B	mg/L	3.2*	96

DLR = Detection Limit for Reporting Purposes. ND = Not Detected at or above the DLR.  
ug/L = Micrograms Per Liter (ppb) mg/L = Milligrams Per Liter (ppm) mg/kg = Milligrams Per Kilogram  
♦ = DLR adjusted because of dilutions, concentrations, or limited sample.  
Preservatives: (1) Cool 4°C Containers: (a) Plastic (b) Plastic & Glass

If you have any questions, please call.

FGL ENVIRONMENTAL

Charles Johnson, B.S.  
Laboratory Manager

CJ:jgc



## Analytical Chemists

August 15, 1997

INORGANIC Quality Assurance Report for sample: 734307

Science Application International Corp.  
10260 Campus Point Drive  
San Diego , CA 92121

Constituent	BATCH ID	Method	Units	BLANK QA/QC			CALIBRATION QA/QC					METHOD QA/QC							
				DLR	Result	NOTE	Type	Conc.	% REC	AR	NOTE	Type	Conc.	% REC	% REC	AR	% DIF	MAV	NOTE
Nitrate	0C 2C	4500N03F	mg/L	0.40	ND		CCV	23.1	105	90-110		MS	26.6	134	133	87-115	0.8	7.4	410

FGL ID = 19970725 ND => Not Detected at or above DLR. DLR => Detection Limit for Reporting purposes. N/A => Not Applicable NOTE => See note indicated below.

Notes:

410 Matrix Spike (MS) not within Acceptance Range (AR) and/or Relative Percent Difference (RPD) not within Maximum Allowable Value (MAV). Batch qualified based on the LCS, CCV, or ICV recovery.

CJ:jgc

FGL ENVIRONMENTAL, INC.

Charles Johnson, B.S., QA/QC Officer



## Analytical Chemists

August 7, 1997

INORGANIC Quality Assurance Report for sample: 734307

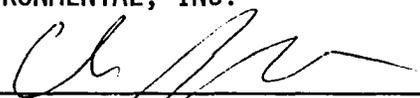
SAIC / Science Application International  
NASA Ames Res. Center Bld 19 Rm1070Annex  
Attn: Chuck Kalleta/Mail Stop 19-21  
Moffett Field, CA 94035-1000

Constituent	BATCH ID	Method	Units	BLANK QA/QC			CALIBRATION QA/QC					METHOD QA/QC							
				DLR	Result	NOTE	Type	Conc.	% REC	AR	NOTE	Type	Conc.	% REC	% REC	AR	% DIF	MAV	NOTE
Chlorine Residual	0A13A	4500Cl G	mg/L	0.10	ND		CCV	10.0	84.6	75-125		Dup	0.441	N/A	N/A	N/A	2.7	20.0	

FGL ID = 19970723 ND => Not Detected at or above DLR. DLR => Detection Limit for Reporting purposes. N/A => Not Applicable NOTE => See note indicated below.

CJ:jgc

FGL ENVIRONMENTAL, INC.



Charles Johnson, B.S., QA/QC Officer



## Analytical Chemists

August 7, 1997

RE: BACTERIOLOGICAL

Page 1

SAIC / Science Application International  
NASA Ames Res. Center Bld 19 Rm1070Annex  
Attn: Chuck Kalleta/Mail Stop 19-21  
Moffett Field, CA 94035-1000

System Number:  
Project Name: Crows Landing-Monthly

### SAMPLE INFORMATION:

ID #	FGL Lab Number	Description	Sample Reason	Sample Type	Sampler	Employed By	Sampled Date	Sampled Time	Started Date	Started Time	Finished Date	Foot Note
1	STK 734307-01	Wellhead-Well #3	Routine	Source	Zuzana Mercz	FGL Environmental	07/23/1997	14:35	07/23/1997	16:45	07/24/1997	
2	STK 734307-02	Tank Spigot	Routine	System	Zuzana Mercz	FGL Environmental	07/23/1997	14:44	07/23/1997	16:45	07/24/1997	

O/S Out of Service Well    ! The holding time for this sample has been exceeded.    ? No sample time provided, holding time may have been exceeded.

### ANALYTICAL RESULTS:

ID #	Description	Cl <sub>2</sub> Residual	Method	Units	Coliform Result Total	Result Fecal	Person	Notification Date	Time	Interpretations Pass	Fail	
1	Wellhead-Well #3	---	MMO/MUG-P/A	P/A /100ml	-	ABSENT	N/R	N/R	--	-	■	
2	Tank Spigot	---	MMO/MUG-P/A	P/A /100ml	-	ABSENT	N/R	N/R	--	-	■	

N/R Not Required    MPN Most Probable Number    P/A Presence/Absence    \* E. coli specific    Pass: ■    Fail - Total: ■■ :Fecal

The State Board of Health requires that bacteriological results must be 'ABSENT' to meet drinking water requirements. Analyses were performed using Standard Methods 17th edition, APHA. If you have any questions regarding your results, please call.

FGL ENVIRONMENTAL

  
Charles Johnson, B.S.

CJ:jgc



# ENVIRONMENTAL

## ANALYTICAL CHEMISTS

July 3, 1997

LAB No: STK 733389-1

SAIC / Science Application International  
NASA Ames Res. Center Bld 19 Rm1070Annex  
Attn: Chuck Kalleta/Mail Stop 19-21  
Moffett Field, CA 94035-1000

RE: Inorganic Analysis

Sample Site: Crows Landing-Monthly  
Description: Wellhead-Well #3  
Sampled by : Brian Pabst  
Type of Sample: Drinking Water

Sampled : June 11, 1997  
Received : June 11, 1997  
Completed : June 16, 1997  
QA/QC ID# : 73338901-

### Analytical Results

CONSTITUENT	METHOD	UNITS	DLR	RESULTS
<b>Wellhead-Well #3<sup>1,a</sup></b>				
Nitrate	4110B	mg/L	1.6	67
<b>Tank Spigot<sup>1,b</sup></b>				
Chlorine Residual	4500C1 G	mg/L	0.1	0.6
Nitrate	4110B	mg/L	1.6	69

DLR = Detection Limit for Reporting Purposes. ND = Not Detected at or above the DLR.  
ug/L = Micrograms Per Liter (ppb) mg/L = Milligrams Per Liter (ppm) mg/kg = Milligrams Per Kilogram  
♦ = DLR adjusted because of dilutions, concentrations, or limited sample.  
Preservatives: (1) Cool 4°C Containers: (a) Plastic (b) Plastic & Glass

If you have any questions, please call.

FGL ENVIRONMENTAL

Charles Johnson, B.S.  
Laboratory Manager

CJ:jgc



# ENVIRONMENTAL

## Analytical Chemists

July 3, 1997

INORGANIC Quality Assurance Report for sample: 733389

Science Application International Corp.  
10260 Campus Point Drive  
San Diego, CA 92121

Constituent	BATCH ID	Method	Units	BLANK QA/QC			CALIBRATION QA/QC					METHOD QA/QC						
				DLR	Result	NOTE	Type	Conc.	% REC	AR	NOTE	Type	Conc.	% REC	% REC	AR	% DIF	MAV
Nitrate	0C 2C	4500N03F	mg/L	0.40	ND		CCV	20.7	106	90-110		MS	17.7	102	101	90-116	1.5	6.0

FGL ID = 19970616 ND => Not Detected at or above DLR. DLR => Detection Limit for Reporting purposes. N/A => Not Applicable NOTE => See note indicated below.

CJ:jgc

FGL ENVIRONMENTAL, INC.

Charles Johnson, B.S., QA/QC Officer



# ENVIRONMENTAL

## Analytical Chemists

July 3, 1997

INORGANIC Quality Assurance Report for sample: 733389

SAIC / Science Application International  
NASA Ames Res. Center Bld 19 Rm1070Annex  
Attn: Chuck Kalleta/Mail Stop 19-21  
Moffett Field, CA 94035-1000

Constituent	BATCH ID	Method	Units	BLANK QA/QC			CALIBRATION QA/QC					METHOD QA/QC							
				DLR	Result	NOTE	Type	Conc.	% REC	AR	NOTE	Type	Conc.	% REC	% REC	AR	% DIF	MAV	NOTE
Chlorine Residual	0A13A	4500Cl G	mg/L	0.10	ND		CCV	10.0	104	75-125		Dup	0.534	N/A	N/A	N/A	7.1	20.0	

FGL ID = 19970611 ND => Not Detected at or above DLR. DLR => Detection Limit for Reporting purposes. N/A => Not Applicable NOTE => See note indicated below.

CJ:jgc

FGL ENVIRONMENTAL, INC.

Charles Johnson, B.S., QA/QC Officer



# ENVIRONMENTAL

## Analytical Chemists

June 20, 1997

RE: BACTERIOLOGICAL

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**SAIC / Science Application International**  
NASA Ames Res. Center Bld 19 Rm1070Annex  
Attn: Chuck Kalleta/Mail Stop 19-21  
Moffett Field, CA 94035-1000

System Number:  
Project Name: Crows Landing-Monthly

### SAMPLE INFORMATION:

ID #	FGL Lab Number	Description	Sample Reason	Sample Type	Sampler	Employed By	Sampled		Started		Finished Date	Foot Note
							Date	Time	Date	Time		
1	STK 733389-01	Wellhead-Well #3	Routine	Source	Brian Pabst	FGL Environmental	06/11/1997	14:14	06/11/1997	18:00	06/12/1997	
2	STK 733389-02	Tank Spigot	Routine	System	Brian Pabst	FGL Environmental	06/11/1997	14:18	06/11/1997	18:00	06/12/1997	

O/S Out of Service Well    ⚠ The holding time for this sample has been exceeded.    ? No sample time provided, holding time may have been exceeded.

### ANALYTICAL RESULTS:

ID #	Description	Cl <sub>2</sub> Residual	Method	Units	Coliform Result		Person	Notification		Interpretations		
					Total	Fecal		Date	Time	Pass	Fail	
1	Wellhead-Well #3	---	MMO/MUG-P/A	P/A /100ml	-	ABSENT	N/R		--	-	█	
2	Tank Spigot	---	MMO/MUG-P/A	P/A /100ml	-	ABSENT	N/R		--	-	█	

N/R Not Required    MPN Most Probable Number    P/A Presence/Absence    \* E. coli specific    Pass: █    Fail - Total: █ :Fecal

The State Board of Health requires that bacteriological results must be 'ABSENT' to meet drinking water requirements. Analyses were performed using Standard Methods 17th edition, APHA. If you have any questions regarding your results, please call.

FGL ENVIRONMENTAL

Charles Johnson, B.S.

CJ:jgc



# ENVIRONMENTAL

## ANALYTICAL CHEMISTS

May 29, 1997

LAB No: STK 732913-1

SAIC / Science Application International  
NASA Ames Res. Center Bld 19 Rm1070Annex  
Attn: Chuck Kalleta/Mail Stop 19-21  
Moffett Field, CA 94035-1000

RE: Inorganic Analysis

Sample Site: Crows Landing-Monthly  
Description: Wellhead-Well #3  
Sampled by : Brian Pabst  
Type of Sample: Drinking Water

Sampled : May 20, 1997  
Received : May 20, 1997  
Completed : May 20, 1997  
QA/QC ID# : 73291301-

### Analytical Results

CONSTITUENT	METHOD	UNITS	DLR	RESULTS
Wellhead-Well #3 <sup>1,a</sup>				
Nitrate	4110B	mg/L	0.4	92
Tank Spigot <sup>1,b</sup>				
Chlorine Residual	4500Cl G	mg/L	1.0*	5
Nitrate	4110B	mg/L	0.4	92

DLR = Detection Limit for Reporting Purposes. ND = Not Detected at or above the DLR.  
ug/L = Micrograms Per Liter (ppb) mg/L = Milligrams Per Liter (ppm) mg/kg = Milligrams Per Kilogram  
♦ = DLR adjusted because of dilutions, concentrations, or limited sample.  
Preservatives: (1) Cool 4°C Containers: (a) Plastic (b) Plastic & Glass

If you have any questions, please call.

FGL ENVIRONMENTAL

Charles Johnson, B.S.  
Laboratory Manager

CJ:jgc



# ENVIRONMENTAL

## Analytical Chemists

May 29, 1997

INORGANIC Quality Assurance Report for sample: 732913

SAIC / Science Application International  
NASA Ames Res. Center Bld 19 Rm1070Annex  
Attn: Chuck Kalleta/Mail Stop 19-21  
Moffett Field, CA 94035-1000

Constituent	BATCH ID	Method	Units	BLANK QA/QC			CALIBRATION QA/QC					METHOD QA/QC						
				DLR	Result	NOTE	Type	Conc.	% REC	AR	NOTE	Type	Conc.	% REC	% REC	AR	% DIF	MAV
Chlorine Residual	0A13A	4500CL G	mg/L	0.10	ND		CCV	10.0	112	75-125		Dup	0.584	N/A	N/A	N/A	1.2	20.0
Nitrate	0A 3B	4110B	mg/L	0.40	ND		CCV	10.0	102	90-110		MS	50.0	101	102	75-125	0.6	20.0

FGL ID = 19970520 ND => Not Detected at or above DLR. DLR => Detection Limit for Reporting purposes. N/A => Not Applicable NOTE => See note indicated below.

CJ:jgc

FGL ENVIRONMENTAL, INC.

Charles Johnson, B.S., QA/QC Officer



# ENVIRONMENTAL

## Analytical Chemists

May 29, 1997

RE: BACTERIOLOGICAL

Page 1

**SAIC / Science Application International**  
NASA Ames Res. Center Bld 19 Rm1070Annex  
Attn: Chuck Kalleta/Mail Stop 19-21  
Moffett Field, CA 94035-1000

System Number:  
Project Name: Crows Landing-Monthly

### SAMPLE INFORMATION:

ID #	FGL Lab Number	Description	Sample Reason	Sample Type	Sampler	Employed By	Sampled		Started		Finished Date	Foot Note
							Date	Time	Date	Time		
1	STK 732913-01	Wellhead-Well #3	Routine	Source	Brian Pabst	FGL Environmental	05/20/1997	14:24	05/20/1997	16:00	05/21/1997	
2	STK 732913-02	Tank Spigot	Routine	System	Brian Pabst	FGL Environmental	05/20/1997	14:29	05/20/1997	16:00	05/21/1997	

0/S Out of Service Well    # The holding time for this sample has been exceeded.    ? No sample time provided, holding time may have been exceeded.

### ANALYTICAL RESULTS:

ID #	Description	Cl <sub>2</sub> Residual	Method	Units	Coliform Result		Person	Notification		Interpretations	
					Total	Fecal		Date	Time	Pass	Fail
1	Wellhead-Well #3	---	MMD/MUG-P/A	P/A /100ml	-	ABSENT	N/R	--	-	█	
2	Tank Spigot	---	MMD/MUG-P/A	P/A /100ml	-	ABSENT	N/R	--	-	█	

N/R Not Required    MPN Most Probable Number    P/A Presence/Absence    \* E. coli specific    Pass: █    Fail - Total: █ :Fecal

The State Board of Health requires that bacteriological results must be 'ABSENT' to meet drinking water requirements. Analyses were performed using Standard Methods 17th edition, APHA. If you have any questions regarding your results, please call.

FGL ENVIRONMENTAL

Charles Johnson, B.S.

CJ:jgc



# ENVIRONMENTAL

## ANALYTICAL CHEMISTS

April 29, 1997

LAB No: STK 732350-1

SAIC / Science Application International  
NASA Ames Res. Center Bld 19 Rm1070Annex  
Attn: Chuck Kalleta/Mail Stop 19-21  
Moffett Field, CA 94035-1000

RE: Inorganic Analysis

Sample Site: Crows Landing-Monthly  
Description: Wellhead-Well #3  
Sampled by : Manuel Simental  
Type of Sample: Drinking Water

Sampled : April 22, 97  
Received : April 22, 97  
Completed : April 23, 97  
QA/QC ID# : 73235001-

### Analytical Results

CONSTITUENT	METHOD	UNITS	DLR	RESULTS
Wellhead-Well #3 <sup>1,a</sup>				
Nitrate	4110B	mg/L	0.4	65
Tank Spigot <sup>1,b</sup>				
Chlorine Residual	4500Cl G	mg/L	1.0*	11
Nitrate	4110B	mg/L	0.4	78

DLR = Detection Limit for Reporting Purposes. ND = Not Detected at or above the DLR.  
ug/L = Micrograms Per Liter (ppb) mg/L = Milligrams Per Liter (ppm) mg/kg = Milligrams Per Kilogram  
\* = DLR adjusted because of dilutions, concentrations, or limited sample.  
Preservatives: (1) Cool 4°C Containers: (a) Plastic (b) Plastic & Glass

If you have any questions, please call.

FGL ENVIRONMENTAL

Charles Johnson, B.S.  
Laboratory Manager

CJ:jgc



# ENVIRONMENTAL

## Analytical Chemists

April 29, 1997

RE: BACTERIOLOGICAL

Page 1

SAIC / Science Application International  
NASA Ames Res. Center Bld 19 Rm1070Annex  
Attn: Chuck Kalleta/Mail Stop 19-21  
Moffett Field, CA 94035-1000

System Number:  
Project Name: Crows Landing-Monthly

### SAMPLE INFORMATION:

ID #	FGL Lab Number	Description	Sample Reason	Sample Type	Sampler	Employed By	Sampled Date	Sampled Time	Started Date	Started Time	Finished Date	Foot Note
1	STK 732350-01	Wellhead-Well #3	Routine	Source	Manuel Simental	FGL Environmental	04/22/1997	15:54	04/22/1997	17:10	04/23/1997	
2	STK 732350-02	Tank Spigot	Routine	System	Manuel Simental	FGL Environmental	04/22/1997	15:47	04/22/1997	17:10	04/23/1997	

O/S Out of Service Well    ! The holding time for this sample has been exceeded.    ? No sample time provided, holding time may have been exceeded.

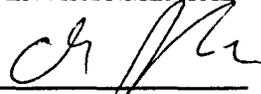
### ANALYTICAL RESULTS:

ID #	Description	Cl <sub>2</sub> Residual	Method	Units	Coliform Result		Person	Notification		Interpretations	
					Total	Fecal		Date	Time	Pass	Fail
1	Wellhead-Well #3	---	MMD/MUG-P/A	P/A /100mL	- ABSENT	N/R	N/R	--	-	■	
2	Tank Spigot	---	MMD/MUG-P/A	P/A /100mL	- ABSENT	N/R	N/R	--	-	■	

N/R Not Required    MPN Most Probable Number    P/A Presence/Absence    \* E. coli specific    Pass: ■    Fail - Total: ■■:Fecal

The State Board of Health requires that bacteriological results must be 'ABSENT' to meet drinking water requirements. Analyses were performed using Standard Methods 17th edition, APHA. If you have any questions regarding your results, please call.

FGL ENVIRONMENTAL

  
Charles Johnson, B.S.

CJ:jgc



# ENVIRONMENTAL

## Analytical Chemists

April 29, 1997

INORGANIC Quality Assurance Report for sample: 732350

SAIC / Science Application International  
NASA Ames Res. Center Bld 19 Rm1070Annex  
Attn: Chuck Kalleta/Mail Stop 19-21  
Moffett Field, CA 94035-1000

Constituent	BATCH ID	Method	Units	BLANK QA/QC			CALIBRATION QA/QC					METHOD QA/QC							
				DLR	Result	NOTE	Type	Conc.	% REC	AR	NOTE	Type	Conc.	% REC	% REC	AR	% DIF	MAV	NOTE
Chlorine Residual	0A13A	4500Cl G	mg/L	0.10	ND		CCV	10.0	107	75-125		Dup	10.6	N/A	N/A	N/A	0.9	20.0	
Nitrate	1A 3B	4110B	mg/L	0.40	ND		CCV	10.0	105	90-110		MS	50.0	102	103	75-125	0.8	20.0	

FGL ID = 19970422 ND => Not Detected at or above DLR. DLR => Detection Limit for Reporting purposes. N/A => Not Applicable NOTE => See note indicated below.

CJ:jgc

FGL ENVIRONMENTAL, INC.

Charles Johnson, B.S., QA/QC Officer



# ENVIRONMENTAL

## ANALYTICAL CHEMISTS

March 26, 1997

LAB No: STK 731599-1

SAIC / Science Application International  
NASA Ames Res. Center Bld 19 Rm 10 Annex  
Attn: Chuck Kalleta/Mail Stop 19-21  
Moffett Field, CA 94035-1000

RE: Inorganic Analysis

Sample Site: Crows Landing-Monthly  
Description: Wellhead-Well #3  
Sampled by: Manuel Simental  
Type of Sample: Drinking Water

Sampled : March 18, 1997  
Received : March 18, 1997  
Completed : March 21, 1997  
QA/QC ID# : 73159901-

### Analytical Results

CONSTITUENT	METHOD	UNITS	DLR	RESULTS
Wellhead-Well #3 <sup>1,a</sup>				
Nitrate	4110B	mg/L	0.4	75
Tank Spigot <sup>1,b</sup>				
Chlorine Residual	4500C1 G	mg/L	1.0*	8
Nitrate	4110B	mg/L	0.4	75

DLR = Detection Limit for Reporting Purposes. ND = Not Detected at or above the DLR.  
ug/L = Micrograms Per Liter (ppb) mg/L = Milligrams Per Liter (ppm) mg/kg = Milligrams Per Kilogram  
\* = DLR adjusted because of dilutions, concentrations, or limited sample.  
Preservatives: (1) Cool 4°C Containers: (a) Plastic (b) Plastic & Glass

If you have any questions, please call.

FGL ENVIRONMENTAL

Charles Johnson, B.S.  
Laboratory Manager

CJ:jgc



# ENVIRONMENTAL

## Analytical Chemists

March 26, 1997

INORGANIC Quality Assurance Report for sample: 731599

SAIC / Science Application International  
NASA Ames Res. Center Bld 19 Rm 10 Annex  
Attn: Chuck Kalleta/Mail Stop 19-21  
Moffett Field, CA 94035-1000

Constituent	BATCH ID	Method	Units	BLANK QA/QC			CALIBRATION QA/QC				METHOD QA/QC							
				DLR	Result	NOTE	Type	Conc.	% REC	AR	NOTE	Type	Conc.	% REC	% REC	AR	% DIF	MAV
Chlorine Residual	0A13A	4500Cl G	mg/L	0.10	ND		CCV	10.0	108	75-125		Dup	0.117	N/A	N/A	N/A	3.4	20.0
Nitrate	4A 3B	4110B	mg/L	0.40	ND		CCV	10.0	108	90-110		MS	50.0	114	113	75-125	0.9	20.0

FGL ID = 19970317 ND => Not Detected at or above DLR. DLR => Detection Limit for Reporting purposes. N/A => Not Applicable NOTE => See note indicated below.

CJ:jgc

FGL ENVIRONMENTAL, INC.

Charles Johnson, B.S., QA/QC Officer



## Analytical Chemists

March 25, 1997

RE: BACTERIOLOGICAL

Page 1

**SAIC / Science Application International**  
NASA Ames Res. Center Bld 19 Rm 10 Annex  
Attn: Chuck Kalleta/Mail Stop 19-21  
Moffett Field, CA 94035-1000

System Number:  
Project Name: Crows Landing-Monthly

### SAMPLE INFORMATION:

ID #	FGL Lab Number	Description	Sample Reason	Sample Type	Sampler	Employed By	Sampled		Started		Finished Date	Foot Note
							Date	Time	Date	Time		
1	STK 731599-01	Wellhead-Well #3	Routine	Source	Manuel Simental	FGL Environmental	03/18/1997	16:09	03/18/1997	18:50	03/19/1997	
2	STK 731599-02	Tank Spigot	Routine	System	Manuel Simental	FGL Environmental	03/18/1997	15:59	03/18/1997	18:50	03/19/1997	

0/S Out of Service Well    ! The holding time for this sample has been exceeded.    ? No sample time provided, holding time may have been exceeded.

### ANALYTICAL RESULTS:

ID #	Description	Cl <sub>2</sub> Residual	Method	Units	Coliform Result		Person	Notification		Interpretations		
					Total	Fecal		Date	Time	Pass	Fail	
1	Wellhead-Well #3	---	MMO/MUG-P/A	P/A /100ml	-	ABSENT	N/R		--	-	■	
2	Tank Spigot	---	MMO/MUG-P/A	P/A /100ml	-	ABSENT	N/R		--	-	■	

N/R Not Required    MPH Most Probable Number    P/A Presence/Absence    \* E. coli specific    Pass: ■    Fail - Total: ■ :Fecal

The State Board of Health requires that bacteriological results must be 'ABSENT' to meet drinking water requirements. Analyses were performed using Standard Methods 17th edition, APHA. If you have any questions regarding your results, please call.

FGL ENVIRONMENTAL

Charles Johnson, B.S.

CJ:jgc



# ENVIRONMENTAL

## ANALYTICAL CHEMISTS

February 20, 1997

LAB No: STK 730848-1

SAIC / Science Application International  
NASA Ames Res. Center Bld 19 Rm 10 Annex  
Attn: Chuck Kalleta/Mail Stop 19-21  
Moffett Field, CA 94035-1000

RE: Inorganic Analysis

Sample Site: Crows Landing-Monthly  
Description: Wellhead-Well #3  
Sampled by : Manuel Simental  
Type of Sample: Drinking Water

Sampled : February 11, 1997  
Received : February 11, 1997  
Completed : February 12, 1997  
QA/QC ID# : 73084801-

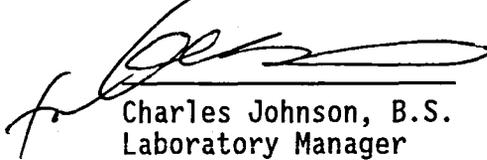
### Analytical Results

CONSTITUENT	METHOD	UNITS	DLR	RESULTS
Wellhead-Well #3 <sup>1,a</sup>				
Nitrate	4110B	mg/L	0.4	66
Tank Spigot <sup>1,b</sup>				
Chlorine Residual	4500C1 G	mg/L	1.0*	6
Nitrate	4110B	mg/L	0.4	67

DLR = Detection Limit for Reporting Purposes. ND = Not Detected at or above the DLR.  
ug/L = Micrograms Per Liter (ppb) mg/L = Milligrams Per Liter (ppm) mg/kg = Milligrams Per Kilogram  
♦ = DLR adjusted because of dilutions, concentrations, or limited sample.  
Preservatives: (1) Cool 4°C Containers: (a) Plastic (b) Plastic & Glass

If you have any questions, please call.

FGL ENVIRONMENTAL

  
Charles Johnson, B.S.  
Laboratory Manager

CJ:jgc



## Analytical Chemists

February 20, 1997

INORGANIC Quality Assurance Report for sample: 730848

SAIC / Science Application International  
NASA Ames Res. Center Bld 19 Rm 10 Annex  
Attn: Chuck Kalleta/Mail Stop 19-21  
Moffett Field , CA 94035-1000

Constituent	BATCH ID	Method	Units	BLANK QA/QC			CALIBRATION QA/QC					METHOD QA/QC						
				DLR	Result	NOTE	Type	Conc.	% REC	AR	NOTE	Type	Conc.	% REC	% REC	AR	% DIF	MAV
Chlorine Residual	0A13A	4500Cl G	mg/L	0.10	ND		CCV	10.0	90.2	75-125		Dup	5.54	N/A	N/A	N/A	1.3	20.0
Nitrate	1A 3A	4110B	mg/L	0.40	ND		CCV	10.0	97.7	90-110		MS	50.0	87.8	88.2	75-125	0.4	20.0

FGL ID = 19970211 ND => Not Detected at or above DLR. DLR => Detection Limit for Reporting purposes. N/A => Not Applicable NOTE => See note indicated below.

FGL ENVIRONMENTAL, INC.

Charles Johnson, B.S., QA/QC Officer

CJ:jgc



## Analytical Chemists

February 19, 1997

RE: BACTERIOLOGICAL

Page 1

**SAIC / Science Application International**  
NASA Ames Res. Center Bld 19 Rm 10 Annex  
Attn: Chuck Kalleta/Mail Stop 19-21  
Moffett Field, CA 94035-1000

System Number:  
Project Name: Crows Landing-Monthly

### SAMPLE INFORMATION:

ID #	FGL Lab Number	Description	Sample Reason	Sample Type	Sampler	Employed By	Sampled		Started		Finished Date	Foot Note
							Date	Time	Date	Time		
1	STK 730848-01	Wellhead-Well #3	Routine	Source	Manuel Simental	FGL Environmental	02/11/1997	14:53	02/11/1997	17:10	02/12/1997	
2	STK 730848-02	Tank Spigot	Routine	System	Manuel Simental	FGL Environmental	02/11/1997	14:46	02/11/1997	17:10	02/12/1997	

O/S Out of Service Well    ! The holding time for this sample has been exceeded.    ? No sample time provided, holding time may have been exceeded.

### ANALYTICAL RESULTS:

ID #	Description	Cl <sub>2</sub> Residual	Method	Units	Coliform Result		Person	Notification		Interpretations		
					Total	Fecal		Date	Time	Pass	Fail	
1	Wellhead-Well #3	---	MMD/MUG-P/A	P/A /100ml	-	ABSENT	N/R		--	-	█	
2	Tank Spigot	---	MMD/MUG-P/A	P/A /100ml	-	ABSENT	N/R		--	-	█	

N/R Not Required    MPN Most Probable Number    P/A Presence/Absence    \* E. coli specific    Pass: █    Fail - Total: █ :Fecal

The State Board of Health requires that bacteriological results must be 'ABSENT' to meet drinking water requirements. Analyses were performed using Standard Methods 17th edition, APHA. If you have any questions regarding your results, please call.

FGL ENVIRONMENTAL

CJ:jgc

  
Charles Johnson, B.S.



# ENVIRONMENTAL

## ANALYTICAL CHEMISTS

January 14, 1997

LAB No: STK 730085-1

SAIC / Science Application International  
NASA Ames Res. Center Bld 19 Rm 10 Annex  
Attn: Chuck Kalleta/Mail Stop 19-21  
Moffett Field, CA 94035-1000

RE: Inorganic Analysis

Sample Site: Crows Landing-Monthly  
Description: Wellhead-Well #3  
Sampled by : Manuel Simental  
Type of Sample: Drinking Water

Sampled : January 7, 1997  
Received : January 7, 1997  
Completed : January 9, 1997  
QA/QC ID# : 73008501-

### Analytical Results

CONSTITUENT	METHOD	UNITS	DLR	RESULTS
Wellhead-Well #3 <sup>1,a</sup>				
Nitrate	4110B	mg/L	0.4	68
Tank Spigot <sup>1,b</sup>				
Chlorine Residual	4500C1 G	mg/L	0.1	0.7
Nitrate	4110B	mg/L	0.4	68

DLR = Detection Limit for Reporting Purposes. ND = Not Detected at or above the DLR.  
ug/L = Micrograms Per Liter (ppb) mg/L = Milligrams Per Liter (ppm) mg/kg = Milligrams Per Kilogram  
♦ = DLR adjusted because of dilutions, concentrations, or limited sample.  
Preservatives: (1) Cool 4°C Containers: (a) Plastic (b) Plastic & Glass

If you have any questions, please call.

FGL ENVIRONMENTAL

Charles Johnson, B.S.  
Laboratory Manager

CJ:yys



# ENVIRONMENTAL

## Analytical Chemists

January 14, 1997

INORGANIC Quality Assurance Report for sample: 730085

SAIC / Science Application International  
NASA Ames Res. Center Bld 19 Rm 10 Annex  
Attn: Chuck Kalleta/Mail Stop 19-21  
Moffett Field, CA 94035-1000

Constituent	BATCH ID	Method	Units	BLANK QA/QC			CALIBRATION QA/QC					METHOD QA/QC						
				DLR	Result	NOTE	Type	Conc.	% REC	AR	NOTE	Type	Conc.	% REC	% REC	AR	% DIF	MAV
Chlorine Residual	0A13A	4500CL G	mg/L	0.10	ND		CCV	10.0	108	75-125		Dup	0.692	N/A	N/A	N/A	1.9	20.0
Nitrate	0A 3A	4110B	mg/L	0.40	ND		CCV	10.0	99.2	90-110		MS	50.0	99.7	97.4	75-125	2.1	20.0

FGL ID = 19970109 ND => Not Detected at or above DLR. DLR => Detection Limit for Reporting purposes. N/A => Not Applicable NOTE => See note indicated below.

CJ:yys

FGL ENVIRONMENTAL, INC.

Charles Johnson, B.S., QA/QC Officer

## Analytical Chemists

January 14, 1997

RE: BACTERIOLOGICAL

Page 1

**SAIC / Science Application International**  
 NASA Ames Res. Center Bld 19 Rm 10 Annex  
 Attn: Chuck Kalleta/Mail Stop 19-21  
 Moffett Field, CA 94035-1000

System Number:  
 Project Name: Crows Landing-Monthly

**SAMPLE INFORMATION:**

ID #	FGL Lab Number	Description	Sample Reason	Sample Type	Sampler	Employed By	Sampled		Started		Finished Date	Foot Note
							Date	Time	Date	Time		
1	STK 730085-01	Wellhead-Well #3	Routine	Source	Manuel Simental	FGL Environmental	01/07/1997	15:38	01/07/1997	17:25	01/08/1997	
2	STK 730085-02	Tank Spigot	Routine	System	Manuel Simental	FGL Environmental	01/07/1997	15:50	01/07/1997	17:25	01/08/1997	

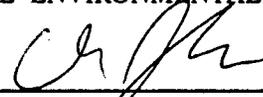
O/S Out of Service Well    ! The holding time for this sample has been exceeded.    ? No sample time provided, holding time may have been exceeded.

**ANALYTICAL RESULTS:**

ID #	Description	Cl <sub>2</sub> Residual	Method	Units	Coliform Result		Person	Notification		Interpretations		
					Total	Fecal		Date	Time	Pass	Fail	
1	Wellhead-Well #3	---	MNO/MUG-P/A	P/A /100ml	-	ABSENT	N/R		--	-	■	
2	Tank Spigot	---	MNO/MUG-P/A	P/A /100ml	-	ABSENT	N/R		--	-	■	

N/R Not Required    MPN Most Probable Number    P/A Presence/Absence    \* E. coli specific    Pass: ■    Fail - Total: ■ :Fecal

The State Board of Health requires that bacteriological results must be 'ABSENT' to meet drinking water requirements. Analyses were performed using Standard Methods 17th edition, APHA. If you have any questions regarding your results, please call.

FGL ENVIRONMENTAL  
  
 Charles Johnson, B.S.

CJ:yys



# ENVIRONMENTAL

## ANALYTICAL CHEMISTS

November 19, 1996

LAB No: STK 635918-1

SAIC / Science Application International  
NASA Ames Res. Center Bld 19 Rm 10 Annex  
Attn: Chuck Kalleta/Mail Stop 19-21  
Moffett Field , CA 94035-1000

RE: Inorganic Analysis

Sample Site: Crows Landing-Monthly  
Description: Wellhead-Well #3  
Sampled by : Manuel Simental  
Type of Sample: Drinking Water

Sampled : November 12, 1996  
Received : November 12, 1996  
Completed : November 13, 1996  
QA/QC ID# : 63591801-

### Analytical Results

CONSTITUENT	METHOD	UNITS	DLR	RESULTS
Nitrate	4110B	mg/L	0.4	70

DLR = Detection Limit for Reporting Purposes. ND = Not Detected at or above the DLR.  
ug/L = Micrograms Per Liter (ppb) mg/L = Milligrams Per Liter (ppm) mg/kg = Milligrams Per Kilogram  
♦ = DLR adjusted because of dilutions, concentrations, or limited sample.  
Preservatives: (1) Cool 4°C Containers: (a) Plastic

If you have any questions, please call.

FGL ENVIRONMENTAL

Charles Johnson, B.S.  
Laboratory Manager

CJ:jgc



# ENVIRONMENTAL

## ANALYTICAL CHEMISTS

November 19, 1996

LAB No: STK 635918-2

SAIC / Science Application International  
NASA Ames Res. Center Bld 19 Rm 10 Annex  
Attn: Chuck Kalleta/Mail Stop 19-21  
Moffett Field , CA 94035-1000

RE: Inorganic Analysis

Sample Site: Crows Landing-Monthly  
Description: Tank Spigot  
Sampled by : Manuel Simental  
Type of Sample: Drinking Water

Sampled : November 12, 1996  
Received : November 12, 1996  
Completed : November 13, 1996  
QA/QC ID# : 63591802-

### Analytical Results

CONSTITUENT	METHOD	UNITS	DLR	RESULTS
Chlorine Residual	4500C1 G	mg/L	0.20*	2.5 / 65
Nitrate	4110B	mg/L	0.4	70

DLR = Detection Limit for Reporting Purposes. ND = Not Detected at or above the DLR.  
ug/L = Micrograms Per Liter (ppb) mg/L = Milligrams Per Liter (ppm) mg/kg = Milligrams Per Kilogram  
♦ = DLR adjusted because of dilutions, concentrations, or limited sample.  
Preservatives: (1) Cool 4°C Containers: (a) Plastic & Glass

If you have any questions, please call.

FGL ENVIRONMENTAL

Charles Johnson, B.S.  
Laboratory Manager

CJ:jgc



# ENVIRONMENTAL

## Analytical Chemists

November 19, 1996

INORGANIC Quality Assurance Report for sample: 635918

SAIC / Science Application International  
NASA Ames Res. Center Bld 19 Rm 10 Annex  
Attn: Chuck Kalleta/Mail Stop 19-21  
Moffett Field, CA 94035-1000

Constituent	BATCH ID	Method	Units	BLANK QA/QC			CALIBRATION QA/QC					METHOD QA/QC						
				DLR	Result	NOTE	Type	Conc.	% REC	AR	NOTE	Type	Conc.	% REC	% REC	AR	% DIF	MAV
Chlorine Residual	0A13A	4500Cl G	mg/L	0.10	ND		CCV	10.0	97.6	75-125		Dup	2.48	N/A	N/A	N/A	0.4	20.0
Nitrate	1A 3A	4110B	mg/L	0.40	ND		CCV	10.0	102	90-110		MS	50.0	101	100	75-125	0.1	20.0

FGL ID = 19961112 ND => Not Detected at ar above DLR. DLR => Detection Limit for Reporting purposes. N/A => Not Applicable NOTE => See note indicated below.

CJ:jgc

FGL ENVIRONMENTAL, INC

Charles Johnson, B.S., QA/QC Officer



## Analytical Chemists

November 14, 1996

RE: BACTERIOLOGICAL

Page 1

**SAIC / Science Application International**  
NASA Ames Res. Center Bld 19 Rm 10 Annex  
Attn: Chuck Kalleta/Mail Stop 19-21  
Moffett Field, CA 94035-1000

System Number:  
Project Name: Crows Landing-Monthly

### SAMPLE INFORMATION:

ID #	FGL Lab Number	Description	Sample Reason	Sample Type	Sampler	Employed By	Sampled Date	Sampled Time	Started Date	Started Time	Finished Date	Foot Note
1	STK 635918-01	Wellhead-Well #3	Routine	Source	Manuel Simental	FGL Environmental	11/12/1998	15:08	11/12/1998	16:20	11/13/1998	
2	STK 635918-02	Tank Spigot	Routine	System	Manuel Simental	FGL Environmental	11/12/1998	14:55	11/12/1998	16:20	11/13/1998	

O/S Out of Service Well    ! The holding time for this sample has been exceeded.    ? No sample time provided, holding time may have been exceeded.

### ANALYTICAL RESULTS:

ID #	Description	Cl <sub>2</sub> Residual	Method	Units	Coliform Result		Person	Notification		Interpretations		
					Total	Fecal		Date	Time	Pass	Fail	
1	Wellhead-Well #3	---	MMD/MUG-P/A	P/A /100ml	-	ABSENT	N/R		--	-	█	
2	Tank Spigot	---	MMD/MUG-P/A	P/A /100ml	-	ABSENT	N/R		--	-	█	

N/R Not Required    MPN Most Probable Number    P/A Presence/Absence    \* E. coli specific    Pass: █    Fail - Total: █    :Fecal

The State Board of Health requires that bacteriological results must be 'ABSENT' to meet drinking water requirements. Analyses were performed using Standard Methods 17th edition, APHA. If you have any questions regarding your results, please call.

FGL ENVIRONMENTAL

Charles Johnson, B.S.

CJ:jgc



## Analytical Chemists

October 23, 1996

RE: BACTERIOLOGICAL

Page 1

**SAIC / Science Application International**  
NASA Ames Res. Center Bld 19 Rm 10 Annex  
Attn: Chuck Kalleta/Mail Stop 19-21  
Moffett Field, CA 94035-1000

System Number:  
Project Name: Crows Landing-Monthly

### SAMPLE INFORMATION:

ID #	FGL Lab Number	Description	Sample Reason	Sample Type	Sampler	Employed By	Sampled Date	Sampled Time	Started Date	Started Time	Finished Date	Foot Note
1	STK 635379-01	Wellhead-Well #3	Routine	Source	Manuel Simental	FGL Environmental	10/15/1996	15:30	10/15/1996	17:15	10/16/1996	
2	STK 635379-02	Tank Spigot	Routine	System	Manuel Simental	FGL Environmental	10/15/1996	15:20	10/15/1996	17:15	10/16/1996	

O/S Out of Service Well    !! The holding time for this sample has been exceeded.    ? No sample time provided, holding time may have been exceeded.

### ANALYTICAL RESULTS:

ID #	Description	Cl <sub>2</sub> Residual	Method	Units	Coliform Result		Person	Notification		Interpretations	
					Total	Fecal		Date	Time	Pass	Fail
1	Wellhead-Well #3	---	MMO/MUG-P/A	P/A /100ml	- ABSENT	N/R	N/R	--	-	■	
2	Tank Spigot	---	MMO/MUG-P/A	P/A /100ml	- ABSENT	N/R	N/R	--	-	■	

N/R Not Required    MPN Most Probable Number    P/A Presence/Absence    \* E. coli specific    Pass: ■    Fail - Total: ■ :Fecal

The State Board of Health requires that bacteriological results must be 'ABSENT' to meet drinking water requirements. Analyses were performed using Standard Methods 17th edition, APHA. If you have any questions regarding your results, please call.

FGL ENVIRONMENTAL

Charles Johnson, B.S.

CJ:jgc



# ENVIRONMENTAL

## ANALYTICAL CHEMISTS

October 18, 1996

LAB No: STK 635379-1

SAIC / Science Application International  
NASA Ames Res. Center Bld 19 Rm 10 Annex  
Attn: Chuck Kalleta/Mail Stop 19-21  
Moffett Field , CA 94035-1000

RE: Inorganic Analysis

Sample Site: Crows Landing-Monthly  
Description: Wellhead-Well #3  
Sampled by : Manuel Simental  
Type of Sample: Drinking Water

Sampled : October 15, 1996  
Received : October 15, 1996  
Completed : October 16, 1996  
QA/QC ID# : 63537901-

### Analytical Results

CONSTITUENT	METHOD	UNITS	DLR	RESULTS
Nitrate	4110B	mg/L	0.4	69

DLR = Detection Limit for Reporting Purposes. ND = Not Detected at or above the DLR.  
ug/L = Micrograms Per Liter (ppb) mg/L = Milligrams Per Liter (ppm) mg/kg = Milligrams Per Kilogram  
♦ = DLR adjusted because of dilutions, concentrations, or limited sample.  
Preservatives: (1) Cool 4°C Containers: (a) Plastic

If you have any questions, please call.

FGL ENVIRONMENTAL

Charles Johnson, B.S.  
Laboratory Manager

CJ:jgc



# ENVIRONMENTAL

## ANALYTICAL CHEMISTS

October 18, 1996

LAB No: STK 635379-2

SAIC / Science Application International  
NASA Ames Res. Center Bld 19 Rm 10 Annex  
Attn: Chuck Kalleta/Mail Stop 19-21  
Moffett Field, CA 94035-1000

RE: Inorganic Analysis

Sample Site: Crows Landing-Monthly  
Description: Tank Spigot  
Sampled by : Manuel Simental  
Type of Sample: Drinking Water

Sampled : October 15, 1996  
Received : October 15, 1996  
Completed : October 16, 1996  
QA/QC ID# : 63537902-

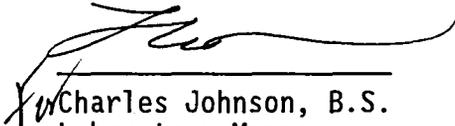
### Analytical Results

CONSTITUENT	METHOD	UNITS	DLR	RESULTS
Chlorine Residual	4500C1 G	mg/L	0.2*	1.6
Nitrate	4110B	mg/L	0.4	69

DLR = Detection Limit for Reporting Purposes. ND = Not Detected at or above the DLR.  
ug/L = Micrograms Per Liter (ppb) mg/L = Milligrams Per Liter (ppm) mg/kg = Milligrams Per Kilogram  
\* = DLR adjusted because of dilutions, concentrations, or limited sample.  
Preservatives: (1) Cool 4°C Containers: (a) Plastic & Glass

If you have any questions, please call.

FGL ENVIRONMENTAL

  
Charles Johnson, B.S.  
Laboratory Manager

CJ:jgc



## Analytical Chemists

October 18, 1996

INORGANIC Quality Assurance Report for sample: 635379

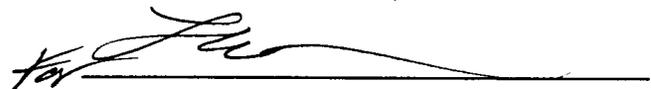
SAIC / Science Application International  
NASA Ames Res. Center Bld 19 Rm 10 Annex  
Attn: Chuck Kalleta/Mail Stop 19-21  
Moffett Field, CA 94035-1000

Constituent	BATCH ID	Method	Units	BLANK QA/QC			CALIBRATION QA/QC					METHOD QA/QC						
				DLR	Result	NOTE	Type	Conc.	% REC	AR	NOTE	Type	Conc.	% REC	% REC	AR	% DIF	MAV
Chlorine Residual	0A13A	4500Cl G	mg/L	9.10	ND		CCV	10.0	96.6	75-125		Dup	1.64	N/A	N/A	N/A	0.0	20.0
Nitrate	0A 3A	4110B	mg/L	0.40	ND		CCV	10.0	94.6	90-110		MS	50.0	99.3	101	75-125	1.5	20.0

FGL ID = 19961016 ND => Not Detected at or above DLR. DLR => Detection Limit for Reporting purposes. N/A => Not Applicable NOTE => See note indicated below.

FGL ENVIRONMENTAL, INC.

CJ:jgc

  
Charles Johnson, B.S., QA/QC Officer



# ENVIRONMENTAL

## Analytical Chemists

September 23, 1996

RE: Inorganic Analysis      STK 634723

SAIC / Science Application International  
NASA Ames Res. Center Bld 19 Rm 10 Annex  
Attn: Chuck Kalleta/Mail Stop 19-21  
Moffett Field, CA 94035-1000

Sample Site: Crows Landing-Monthly

### Sample Handling Information

ID	Sample Number	Batch ID	Sample Description	Sample Type	Grab or Comp.	Sampled by	Date			Preservatives	Sample Container
							Sampled	Received	Completed		
1	STK634723-01	R	Wellhead-Well #3	Drinking Water	Grab	Manuel Simental	09/11/96	09/11/96	09/11/96	1	a
2	STK634723-02	R	Tank Spigot	Drinking Water	Grab	Manuel Simental	09/11/96	09/11/96	09/11/96	1	b

Preservatives: (1) Cool 4°C      Containers: (a) Plastic (b) Plastic & Glass

### ANALYTICAL RESULTS

ID	Sample Description	Nitrate		Chlorine Residual	
		DLR	RESULT	DLR	RESULT
1	Wellhead-Well #3	0.4	74	---	
2	Tank Spigot	0.4	74	0.1	ND
Units Analytical Method		mg/L 4110B		mg/L 4500Cl G	

ND = Not Detected at or above the Detection Limit Reported (DLR).  
♦ = DLR adjusted because of dilutions, concentrations, or limited sample.

If you have any questions, please call.

FGL Environmental

  
Charles Johnson  
Laboratory Director

CJ:jgc



# ENVIRONMENTAL

## Analytical Chemists

September 23, 1996

INORGANIC Quality Assurance Report for sample: 634723

SAIC / Science Application International  
NASA Ames Res. Center Bld 19 Rm 10 Annex  
Attn: Chuck Kalleta/Mail Stop 19-21  
Moffett Field, CA 94035-1000

Constituent	BATCH ID	Method	Units	BLANK QA/QC			CALIBRATION QA/QC					METHOD QA/QC						
				DLR	Result	NOTE	Type	Conc.	% REC	AR	NOTE	Type	Conc.	% REC	% REC	AR	% DIF	MAV
Chlorine Residual	0A13A	4500CL G	mg/L	0.10	ND		CCV	10.0	93.9	75-125		Dup	0.0195	N/A	N/A	N/A	15.4	20.0
Nitrate	0A 3B	4110B	mg/L	0.40	ND		CCV	10.0	107	90-110		MS	50.0	122	123	75-125	0.4	20.0

FGL ID = 19960911 ND => Not Detected at ar above DLR. DLR => Detection Limit for Reporting purposes. N/A => Not Applicable NOTE => See note indicated below.

CJ:jgc

FGL ENVIRONMENTAL, INC.

Charles Johnson, B.S., QA/QC Officer



# ENVIRONMENTAL

Analytical Chemists  
September 18, 1996

RE: BACTERIOLOGICAL

Page 1

SAIC / Science Application International  
NASA Ames Res. Center Bld 19 Rm 10 Annex  
Attn: Chuck Kalleta/Mail Stop 19-21  
Moffett Field, CA 94035-1000

System Number:  
Project Name: Crows Landing-Monthly

### SAMPLE INFORMATION:

ID #	FGL Lab Number	Description	Sample Reason	Sample Type	Sampler	Employed By	Sampled		Started		Finished Date	Foot Note
							Date	Time	Date	Time		
1	STK 634723-01	Wellhead-Well #3	Routine	Source	Manuel Simental	FGL Environmental	09/11/1996	11:35	09/11/1996	17:15	09/12/1996	
2	STK 634723-02	Tank Spigot	Routine	System	Manuel Simental	FGL Environmental	09/11/1996	11:24	09/11/1996	17:15	09/12/1996	

O/S Out of Service Well    ■ The holding time for this sample has been exceeded.    ? No sample time provided, holding time may have been exceeded.

### ANALYTICAL RESULTS:

ID #	Description	Cl <sub>2</sub> Residual	Method	Units	Coliform Result		Person	Notification		Interpretations		
					Total	Fecal		Date	Time	Pass	Fail	
1	Wellhead-Well #3	---	MMO/MUG-P/A	P/A /100ml	-	ABSENT	N/R		--	-		
2	Tank Spigot	---	MMO/MUG-P/A	P/A /100ml	-	ABSENT	N/R		--	-		

N/R Not Required    MPN Most Probable Number    P/A Presence/Absence    \* E. coli specific    Pass:    Fail - Total:    ■ :Fecal

The State Board of Health requires that bacteriological results must be 'ABSENT' to meet drinking water requirements. Analyses were performed using Standard Methods 17th edition, APHA. If you have any questions regarding your results, please call.

FGL ENVIRONMENTAL

  
Charles Johnson, B.S.

CJ:jgc

**Analytical Chemists**

August 5, 1996

**RE: BACTERIOLOGICAL**

Page 1

**SAIC / Science Application International**  
 NASA Ames Res. Center Bld 19 Rm 10 Annex  
 Attn: Chuck Kalleta/Mail Stop 19-21  
 Moffett Field, CA 94035-1000

 System Number:  
 Project Name: Crows Landing-Monthly

**SAMPLE INFORMATION:**

ID #	FGL Lab Number	Description	Sample Reason	Sample Type	Sampler	Employed By	Sampled Date Time		Started Date Time		Finished Date	Foot Note
1	STK 833902-01	Wellhead-Well #3	Routine	Source	Brian Pabst	FGL Environmental	07/30/1996	09:31	07/30/1996	15:00	07/31/1996	
2	STK 833902-02	Tank Spigot	Routine	System	Brian Pabst	FGL Environmental	07/30/1996	09:38	07/30/1996	15:00	07/31/1996	

O/S Out of Service Well    # The holding time for this sample has been exceeded.    ? No sample time provided, holding time may have been exceeded.

**ANALYTICAL RESULTS:**

ID #	Description	Cl <sub>2</sub> Residual	Method	Units	Coliform Result		Person	Notification		Interpretations		
					Total	Fecal		Date	Time	Pass	Fail	
1	Wellhead-Well #3	---	MMO/MUG-P/A	P/A /100ml	-	ABSENT	N/R		--	-	█	
2	Tank Spigot	---	MMO/MUG-P/A	P/A /100ml	-	ABSENT	N/R		--	-	█	

N/R Not Required    MPN Most Probable Number    P/A Presence/Absence    \* E. coli specific    Pass: █    Fail - Total: ████ :Fecal

The State Board of Health requires that bacteriological results must be 'ABSENT' to meet drinking water requirements. Analyses were performed using Standard Methods 17th edition, APHA. If you have any questions regarding your results, please call.

FGL ENVIRONMENTAL

  
 Charles Johnson, B.S.

CJ:jgc



# ENVIRONMENTAL

## ANALYTICAL CHEMISTS

August 1, 1996

LAB No: STK 633902-1

SAIC / Science Application International  
NASA Ames Res. Center Bld 19 Rm 10 Annex  
Attn: Chuck Kalleta/Mail Stop 19-21  
Moffett Field, CA 94035-1000

RE: Inorganic Analysis

Sample Site: Crows Landing-Monthly  
Description: Wellhead-Well #3  
Sampled by : Brian Pabst  
Type of Sample: Drinking Water

Sampled : July 30, 1996  
Received : July 30, 1996  
Completed : July 30, 1996  
QA/QC ID# : 63390201-

### Analytical Results

CONSTITUENT	METHOD	UNITS	DLR	RESULTS
Nitrate	4110B	mg/L	0.4	70

DLR = Detection Limit for Reporting Purposes. ND = Not Detected at or above the DLR.  
ug/L = Micrograms Per Liter (ppb) mg/L = Milligrams Per Liter (ppm) mg/kg = Milligrams Per Kilogram  
♦ = DLR adjusted because of dilutions, concentrations, or limited sample.  
Preservatives: (1) Cool 4°C Containers: (a) Plastic

If you have any questions, please call.

FGL ENVIRONMENTAL

  
Charles Johnson, B.S.  
Laboratory Director

CJ:jgc



# ENVIRONMENTAL

## ANALYTICAL CHEMISTS

August 1, 1996

LAB No: STK 633902-2

SAIC / Science Application International  
NASA Ames Res. Center Bld 19 Rm 10 Annex  
Attn: Chuck Kalleta/Mail Stop 19-21  
Moffett Field , CA 94035-1000

RE: Inorganic Analysis

Sample Site: Crows Landing-Monthly  
Description: Tank Spigot  
Sampled by : Brian Pabst  
Type of Sample: Drinking Water

Sampled : July 30, 1996  
Received : July 30, 1996  
Completed : July 30, 1996  
QA/QC ID# : 63390202-

### Analytical Results

CONSTITUENT	METHOD	UNITS	DLR	RESULTS
Chlorine Residual	4500C1 G	mg/L	0.1	0.8
Nitrate	4110B	mg/L	0.4	70

DLR = Detection Limit for Reporting Purposes. ND = Not Detected at or above the DLR.  
ug/L = Micrograms Per Liter (ppb) mg/L = Milligrams Per Liter (ppm) mg/kg = Milligrams Per Kilogram  
♦ = DLR adjusted because of dilutions, concentrations, or limited sample.  
Preservatives: (1) Cool 4°C Containers: (a) Plastic & Glass

If you have any questions, please call.

FGL ENVIRONMENTAL

  
Charles Johnson, B.S.  
Laboratory Director

CJ:jgc



## Analytical Chemists

August 1, 1996

INORGANIC Quality Assurance Report for sample: 633902

SAIC / Science Application International  
NASA Ames Res. Center Bld 19 Rm 10 Annex  
Attn: Chuck Kalleta/Mail Stop 19-21  
Moffett Field, CA 94035-1000

Constituent	BATCH ID	Method	Units	BLANK QA/QC			CALIBRATION QA/QC					METHOD QA/QC						
				DLR	Result	NOTE	Type	Conc.	% REC	AR	NOTE	Type	Conc.	% REC	% REC	AR	% DIF	MAV
Chlorine Residual	0A13A	4500Cl G	mg/L	0.10	ND		CCV	10.0	77.4	75-125		Dup	0.821	N/A	N/A	N/A	1.7	20.0
Nitrate	0A 3A	4110B	mg/L	0.40	ND		CCV	10.0	107	90-110		MS	50.0	111	110	75-125	0.4	20.0

FGL ID = 19960730 ND => Not Detected at or above DLR. DLR => Detection Limit for Reporting purposes. N/A => Not Applicable NOTE => See note indicated below.

CJ:jgc

FGL ENVIRONMENTAL, INC.

Charles Johnson, B.S., QA/QC Officer



# ENVIRONMENTAL

## ANALYTICAL CHEMISTS

June 5, 1996

LAB No: STK 632776-2

SAIC / Science Application International  
NASA Ames Res. Center Bld 19 Rm 10 Annex  
Attn: Chuck Kalleta/Mail Stop 19-21  
Moffett Field, CA 94035-1000

RE: Inorganic Analysis

Sample Site: Water Sampling  
Description: Holding Tank  
Sampled by : Tara McClinton  
Type of Sample: Drinking Water

Sampled : May 30, 1996  
Received : May 30, 1996  
Completed : May 30, 1996  
QA/QC ID# : 63277602-

### Analytical Results

CONSTITUENT	EPA METHOD	UNITS	DLR	RESULTS
Chlorine Residual	330.5	mg/L	0.20*	2.2
Nitrate	300.0	mg/L	0.4	64

DLR = Detection Limit for Reporting Purposes. ND = Not Detected at or above the DLR.  
ug/L = Micrograms Per Liter (ppb) mg/L = Milligrams Per Liter (ppm) mg/kg = Milligrams Per Kilogram  
♦ = DLR adjusted because of dilutions, concentrations, or limited sample.  
Preservatives: (1) Cool 4°C Containers: (a) Plastic & Glass

If you have any questions, please call.

FGL ENVIRONMENTAL

Kurt Wilkinson, B.S.  
Laboratory Director

KW:jgc



# ENVIRONMENTAL

## ANALYTICAL CHEMISTS

June 5, 1996

LAB No: STK 632776-1

SAIC / Science Application International  
NASA Ames Res. Center Bld 19 Rm 10 Annex  
Attn: Chuck Kalleta/Mail Stop 19-21  
Moffett Field, CA 94035-1000

RE: Inorganic Analysis

Sample Site: Water Sampling  
Description: Well #3  
Sampled by : Tara McClinton  
Type of Sample: Drinking Water

Sampled : May 30, 1996  
Received : May 30, 1996  
Completed : May 30, 1996  
QA/QC ID# : 63277601-

### Analytical Results

CONSTITUENT	EPA METHOD	UNITS	DLR	RESULTS
Nitrate	300.0	mg/L	0.4	65

DLR = Detection Limit for Reporting Purposes. ND = Not Detected at or above the DLR.  
ug/L = Micrograms Per Liter (ppb) mg/L = Milligrams Per Liter (ppm) mg/kg = Milligrams Per Kilogram  
♦ = DLR adjusted because of dilutions, concentrations, or limited sample.  
Preservatives: (1) Cool 4°C Containers: (a) Plastic

If you have any questions, please call.

FGL ENVIRONMENTAL

  
Kurt Wilkinson, B.S.  
Laboratory Director

KW:jgc



## Analytical Chemists

June 4, 1996

RE: BACTERIOLOGICAL

Page 1

SAIC / Science Application International  
NASA Ames Res. Center Bld 19 Rm 10 Annex  
Attn: Chuck Kalleta/Mail Stop 19-21  
Moffett Field, CA 94035-1000

System Number:  
Project Name: Water Sampling

### SAMPLE INFORMATION:

ID #	FGL Lab Number	Description	Sample Reason	Sample Type	Sampler	Employed By	Sampled Date Time		Started Date Time		Finished Date	Foot Note
1	STK 632776-01	Well #3	Other	Source	Tara McClinton	FGL Environmental	05/30/1996	14:05	05/30/1996	18:00	05/31/1996	
2	STK 632776-02	Holding Tank	Other	System	Tara McClinton	FGL Environmental	05/30/1996	14:04	05/30/1996	18:00	05/31/1996	

O/S Out of Service Well !! The holding time for this sample has been exceeded. ? No sample time provided, holding time may have been exceeded.

### ANALYTICAL RESULTS:

ID #	Description	Cl <sub>2</sub> Residual	Method	Units	Coliform Result		Person	Notification			Interpretations	
					Total	Fecal		Date	Time	Pass	Fail	
1	Well #3	---	MMD/MUG-P/A	P/A /100ml	-	ABSENT	N/R	N/R	--	-	■	
2	Holding Tank	---	MMD/MUG-P/A	P/A /100ml	-	ABSENT	N/R	N/R	--	-	■	

N/R Not Required    MPN Most Probable Number    P/A Presence/Absence    \* E. coli specific    Pass: ■    Fail - Total: ■ ■ ■ ■ ■ :Fecal

The State Board of Health requires that bacteriological results must be 'ABSENT' to meet drinking water requirements. Analyses were performed using Standard Methods 17th edition, APHA. If you have any questions regarding your results, please call.

KW:YYS

FGL ENVIRONMENTAL

Kurt Wilkinson, B.S.



## Analytical Chemists

June 5, 1996

INORGANIC Quality Assurance Report for sample: 632776

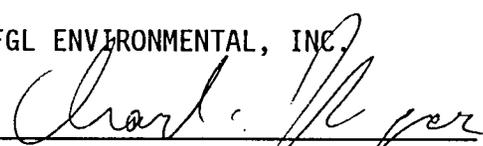
SAIC / Science Application International  
NASA Ames Res. Center Bld 19 Rm 10 Annex  
Attn: Chuck Kalleta/Mail Stop 19-21  
Moffett Field, CA 94035-1000

Constituent	BATCH ID	EPA Method	Units	BLANK QA/QC			CALIBRATION QA/QC					METHOD QA/QC						
				DLR	Result	NOTE	Type	Conc.	% REC	AR	NOTE	Type	Conc.	% REC	% REC	AR	% DIF	MAV
Chlorine Residual	0A13A	330.5	mg/L	0.10	ND		CCV	10.0	104	75-125		Dup	2.22	N/A	N/A	N/A	0.5	20.0
Nitrate	0A 3A	300.0	mg/L	0.40	ND		CCV	10.0	98.5	90-110		MS	50.0	107	87.3	75-125	18.6	20.0

FGL ID = 19960530 ND => Not Detected at ar above DLR. DLR => Detection Limit for Reporting purposes. N/A => Not Applicable NOTE => See note indicated below.

KW:jgc

FGL ENVIRONMENTAL, INC.

  
Kurt Wilkinson,, QA/QC Director



## Analytical Chemists

November 3, 1995

RE: BACTERIOLOGICAL

Page 1

Science Application International Corp.  
10260 Campus Point Drive  
San Diego, CA 92121

System Number:  
Project Name:

### SAMPLE INFORMATION:

ID #	FGL Lab Number	Description	Sample Reason	Sample Type	Sampler	Employed By	Sampled Date	Sampled Time	Started Date	Started Time	Finished Date	Foot Note
1	STK 535197-01	Well 3	Routine	Source	Dawn Carlton	FGL Environmental	10/31/1995	14:20	10/31/1995	17:30	11/01/1995	
2	STK 535197-02	Holding Tank	Routine	System	Dawn Carlton	FGL Environmental	10/31/1995	14:25	10/31/1995	17:30	11/01/1995	
3	STK 535197-03	Hose Faucet @ Baseball Field	Routine	System	Dawn Carlton	FGL Environmental	10/31/1995	14:35	10/31/1995	17:30	11/01/1995	

O/S Out of Service Well    ! The holding time for this sample has been exceeded.    ? No sample time provided, holding time may have been exceeded.

### ANALYTICAL RESULTS:

ID #	Description	Cl <sub>2</sub> Residual	Method	Units	Coliform Result		Person	Notification		Interpretations		
					Total	Fecal		Date	Time	Pass	Fail	
1	Well 3	---	MMO/MUG-P/A	P/A /100ml	-	ABSENT	N/R	N/R	--	-	■	
2	Holding Tank	---	MMO/MUG-P/A	P/A /100ml	-	ABSENT	N/R	N/R	--	-	■	
3	Hose Faucet @ Baseball Field	---	MMO/MUG-P/A	P/A /100ml	-	ABSENT	N/R	N/R	--	-	■	

N/R Not Required    MPN Most Probable Number    P/A Presence/Absence

Pass: ■    Fail - Total: ■ ■ ■ :Fecal

The State Board of Health requires that bacteriological results must be 'ABSENT' to meet drinking water requirements. Analyses were performed using Standard Methods 17th edition, APHA. If you have any questions regarding your results, please call.

FGL ENVIRONMENTAL

Kurt Wilkinson, B.S.

KW:jgc



# ENVIRONMENTAL

## ANALYTICAL CHEMISTS

November 6, 1995

LAB No: STK 535197-1

Science Application International Corp.  
10260 Campus Point Drive  
San Diego, CA 92121

RE: Inorganic Analysis

Sample Site:  
Description: Well 3  
Sampled by : Dawn Carlton  
Type of Sample: Drinking Water

Sampled : October 31, 1995  
Received : November 1, 1995  
Completed : October 31, 1995  
QA/QC ID# : 53519701-

### Analytical Results

CONSTITUENT	EPA METHOD	UNITS	DLR	RESULTS
<b>Well 3,<sup>a</sup></b>				
Chlorine Residual	330.5	mg/L	0.1	ND
<b> Holding Tank,<sup>a</sup></b>				
Chlorine Residual	330.5	mg/L	0.1	0.7
<b> Hose Faucet @ Baseball Field,<sup>a</sup></b>				
Nitrate	300.0	mg/L	0.4	67

DLR = Detection Limit for Reporting Purposes. ND = Not Detected at or above the DLR.  
ug/L = Micrograms Per Liter (ppb) mg/L = Milligrams Per Liter (ppm) mg/kg = Milligrams Per Kilogram  
♦ = DLR adjusted because of dilutions, concentrations, or limited sample.  
Containers: (a) Plastic

If you have any questions, please call.

FGL ENVIRONMENTAL

Kurt Wilkinson, B.S.  
Laboratory Director

KW:jgc



# ENVIRONMENTAL

## ANALYTICAL CHEMISTS

November 6, 1995

LAB No: STK 535197-3 Page 1

Science Application International Corp.  
10260 Campus Point Drive  
San Diego, CA 92121

Date Sampled : October 31, 1995  
Date Received : November 1, 1995

Sample Site:  
Description: Hose Faucet @ Baseball Field

### Title 22 Drinking Water Interpretations

Constituent	BAT	Result	Units	MCL	Graphical Results	
					Below MCL	At
<b>Inorganic</b>						
Nitrate	5,7,9	67	mg/L	45		
Nitrate as N	5,7,9	15000	ug/L	10000		

BAT = Best Available Technologies for Cleanup      MCL = Maximum Contaminant Level      Potable: : Non Potable:   
mg/L = Milligrams Per Liter (ppm)      ug/L = Micrograms Per Liter (ppb)      MFL = Million Fibers Per Liter (>10 µm in length)

BAT = Best Available Technologies for Cleanup (Reference Title 22, Article 12, Table 64447.2-A)

a = BAT for Chromium III only	6 = Lime Softening **
b = BAT only if influence mercury conc. < 10ug/L	7 = Reverse Osmosis
c = BAT for Selenium IV only.	8 = Corrosion Control
1 = Activated Alumina	9 = Electrodialysis
2 = Coagulation/Filtration **	10 = Optimizing treatment and reducing aluminum added
3 = Direct and Diatomite Filtration	11 = Chlorine oxidation
4 = Granular Activated Carbon	
5 = Ion Exchange	** = BAT for systems with >= 500 connections

If you have any questions, please call.

FGL ENVIRONMENTAL

## Analytical Chemists

November 6, 1995

**INORGANIC Quality Assurance** Report for sample: 535197

Science Application International Corp.  
 10260 Campus Point Drive  
 San Diego , CA 92121

Constituent	BATCH ID	EPA Method	Units	BLANK QA/QC			CALIBRATION QA/QC					METHOD QA/QC						
				DLR	Result	NOTE	Type	Conc.	% REC	AR	NOTE	Type	Conc.	% REC	% REC	AR	% DIF	MAV
Chlorine Residual	0A13A	330.5	mg/L	0.10	ND		CCV	10.0	113	75-125		Dup	-.00550	N/A	N/A	N/A	54.5	20.0
Nitrate	1A 3A	300.0	mg/L	0.40	ND		CCV	10.0	105	90-110		MS	50.0	103	105	75-125	1.1	20.0

FGL ID = 19951031 ND => Not Detected at or above DLR. DLR => Detection Limit for Reporting purposes. N/A => Not Applicable NOTE => See note indicated below.

FGL ENVIRONMENTAL, INC.



Kurt Wilkinson,, QA/QC Director

KW:jgc

### Analytical Chemists

April 8, 1996

RE: Inorganic Analysis      STK 631612

SAIC / Science Application International  
 NASA Ames Res. Center Bld 19 Rm 10 Annex  
 Attn: Chuck Kalleta/Mail Stop 19-21  
 Moffett Field, CA 94035-1000

Sample Site: Crows Landing

#### Sample Handling Information

ID	Sample Number	Batch ID	Sample Description	Sample Type	Grab or Comp.	Sampled by	Date			Preservatives	Sample Container
							Sampled	Received	Completed		
1	STK631612-01	R	Well 3	Drinking Water	Grab	Tara McClinton	03/26/96	03/26/96	03/26/96	1	a
2	STK631612-02	R	Holding Tank	Drinking Water	Grab	Tara McClinton	03/26/96	03/26/96	03/26/96	1	a

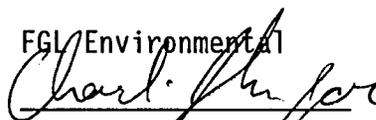
Preservatives: (1) Cool 4°C      Containers: (a) Amber Glass TFE-Cap

#### ANALYTICAL RESULTS

ID	Sample Description	Chlorine Residual	
		DLR	RESULT
1	Well 3	0.1	ND
2	Holding Tank	0.1	0.4
Units Analytical Method		mg/L 330.5	

ND = Not Detected at or above the Detection Limit Reported (DLR).  
 ♦ = DLR adjusted because of dilutions, concentrations, or limited sample.

If you have any questions, please call.

FGL Environmental  
  
 Kurt Wilkinson, B.S.  
 Laboratory Director

KW:jgc

## Analytical Chemists

April 8, 1996

**INORGANIC** Quality Assurance Report for sample: 631612

SAIC / Science Application International  
 NASA Ames Res. Center Bld 19 Rm 10 Annex  
 Attn: Chuck Kalleta/Mail Stop 19-21  
 Moffett Field , CA 94035-1000

Constituent	BATCH ID	EPA Method	Units	BLANK QA/QC			CALIBRATION QA/QC					METHOD QA/QC							
				DLR	Result	NOTE	Type	Conc.	% REC	AR	NOTE	Type	Conc.	% REC	% REC	AR	% DIF	MAV	NOTE
Chlorine Residual	0A13A	330.5	mg/L	0.10	ND		CCV	10.0	94.5	75-125		Dup	0.00500	N/A	N/A	N/A	80.0	20.0	405

FGL ID = 19960326 ND => Not Detected at or above DLR. DLR => Detection Limit for Reporting purposes. N/A => Not Applicable NOTE => See note indicated below.

**Notes:**

405 Matrix Spike (MS) not within the Acceptance Range (AR) and/or Relative Percent Difference (RPD) not within the Maximum Allowable Value (MAV) because of low concentrations of the spike or sample. Batch qualified based on the LCS, CCV, or ICV recovery.

KW:jgc

FGL ENVIRONMENTAL, INC.



Kurt Wilkinson, QA/QC Director

### Analytical Chemists

March 29, 1996

**RE: BACTERIOLOGICAL**

Page 1

**SAIC / Science Application International**  
 NASA Ames Res. Center Bld 19 Rm 10 Annex  
 Attn: Chuck Kalleta/Mail Stop 19-21  
 Moffett Field, CA 94035-1000

System Number:  
 Project Name: Crows Landing

**SAMPLE INFORMATION:**

ID #	FGL Lab Number	Description	Sample Reason	Sample Type	Sampler	Employed By	Sampled Date	Sampled Time	Started Date	Started Time	Finished Date	Foot Note
1	STK 631612-01	Well 3	Other	Source	Tara McClinton	FGL Environmental	03/28/1996	15:22	03/28/1996	17:00	03/27/1996	
2	STK 631612-02	Holding Tank	Other	System	Tara McClinton	FGL Environmental	03/28/1996	15:24	03/28/1996	17:00	03/27/1996	

O/S Out of Service Well    ! The holding time for this sample has been exceeded.    ? No sample time provided, holding time may have been exceeded.

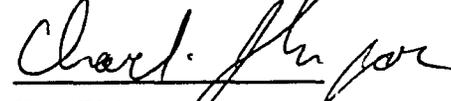
**ANALYTICAL RESULTS:**

ID #	Description	Cl <sub>2</sub> Residual	Method	Units	Coliform Result		Person	Notification		Interpretations		
					Total	Fecal		Date	Time	Pass	Fail	
1	Well 3	---	MMD/MUG-P/A	P/A /100ml	-	ABSENT	N/R	N/R	--	-	█	
2	Holding Tank	---	MMD/MUG-P/A	P/A /100ml	-	ABSENT	N/R	N/R	--	-	█	

N/R Not Required    MPN Most Probable Number    P/A Presence/Absence    Pass: █    Fail - Total: █ :Fecal

The State Board of Health requires that bacteriological results must be 'ABSENT' to meet drinking water requirements. Analyses were performed using Standard Methods 17th edition, APHA. If you have any questions regarding your results, please call.

FGL ENVIRONMENTAL



Kurt Wilkinson, B.S.

KW:jgc

**Analytical Chemists**

March 4, 1996

**RE: BACTERIOLOGICAL**

Page 1

**SAIC / Science Application International**  
 NASA Ames Res. Center Bld 19 Rm 10 Annex  
 Attn: Chuck Kalleta/Mail Stop 19-21  
 Moffett Field, CA 94035-1000

 System Number:  
 Project Name:

**SAMPLE INFORMATION:**

ID #	FGL Lab Number	Description	Sample Reason	Sample Type	Sampler	Employed By	Sampled Date	Sampled Time	Started Date	Started Time	Finished Date	Foot Note
1	STK 631015-01	Well #3 Wellhead	Routine	Source	Tara McClinton	FGL Environmental	02/23/1996	15:46	02/23/1996	17:35	02/24/1996	
2	STK 631015-02	Storage Tank	Routine	System	Tara McClinton	FGL Environmental	02/23/1996	16:03	02/23/1996	17:35	02/24/1996	

O/S Out of Service Well    ! The holding time for this sample has been exceeded.    ? No sample time provided, holding time may have been exceeded.

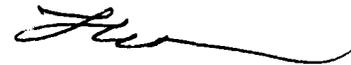
**ANALYTICAL RESULTS:**

ID #	Description	Cl <sub>2</sub> Residual	Method	Units	Coliform Result		Notification		Interpretations		
					Total	Fecal	Person	Date	Time	Pass	Fail
1	Well #3 Wellhead	---	MMD/MUG-P/A	P/A /100ml	- ABSENT	N/R	N/R	--	-	■	
2	Storage Tank	---	MMD/MUG-P/A	P/A /100ml	- ABSENT	N/R	N/R	--	-	■	

N/R Not Required    MPN Most Probable Number    P/A Presence/Absence    Pass: ■    Fail - Total: ■ ■ ■ :Fecal

The State Board of Health requires that bacteriological results must be 'ABSENT' to meet drinking water requirements. Analyses were performed using Standard Methods 17th edition, APHA. If you have any questions regarding your results, please call.

FGL ENVIRONMENTAL



Kurt Wilkinson, B.S.

KW:jgc

## Analytical Chemists

March 6, 1996

**INORGANIC** Quality Assurance Report for sample: 631015

SAIC / Science Application International  
 NASA Ames Res. Center Bld 19 Rm 10 Annex  
 Attn: Chuck Kalleta/Mail Stop 19-21  
 Moffett Field, CA 94035-1000

Constituent	BATCH ID	EPA Method	Units	BLANK QA/QC			CALIBRATION QA/QC					METHOD QA/QC							
				DLR	Result	NOTE	Type	Conc.	% REC	AR	NOTE	Type	Conc.	% REC	% REC	AR	% DIF	MAV	NOTE
Chlorine Residual	0A13A	330.5	mg/L	0.10	ND		CCV	10.0	102	75-125		Dup	0.0175	N/A	N/A	N/A	40.0	20.0	405

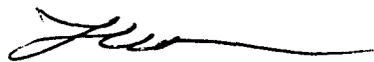
FGL ID = 19960223 ND => Not Detected at or above DLR. DLR => Detection Limit for Reporting purposes. N/A => Not Applicable NOTE => See note indicated below.

**Notes:**

405 Matrix Spike (MS) not within the Acceptance Range (AR) and/or Relative Percent Difference (RPD) not within the Maximum Allowable Value (MAV) because of low concentrations of the spike or sample. Batch qualified based on the LCS, CCV, or ICV recovery.

KW:jgc

FGL ENVIRONMENTAL, INC.



Kurt Wilkinson,, QA/QC Director



# ENVIRONMENTAL

## ANALYTICAL CHEMISTS

March 6, 1996

LAB No: STK 631015-1

SAIC / Science Application International  
NASA Ames Res. Center Bld 19 Rm 10 Annex  
Attn: Chuck Kalleta/Mail Stop 19-21  
Moffett Field, CA 94035-1000

RE: Inorganic Analysis

Sample Site:  
Description: Well #3 Wellhead  
Sampled by : Tara McClinton  
Type of Sample: Drinking Water

Sampled : February 23, 1996  
Received : February 23, 1996  
Completed : February 23, 1996  
QA/QC ID# : 63101501-

### Analytical Results

CONSTITUENT	EPA METHOD	UNITS	DLR	RESULTS
Chlorine Residual	330.5	mg/L	0.1	ND

DLR = Detection Limit for Reporting Purposes. ND = Not Detected at or above the DLR.  
ug/L = Micrograms Per Liter (ppb) mg/L = Milligrams Per Liter (ppm) mg/kg = Milligrams Per Kilogram  
♦ = DLR adjusted because of dilutions, concentrations, or limited sample.  
Preservatives: (1) Cool 4°C Containers: (a) Plastic

If you have any questions, please call.

FGL ENVIRONMENTAL

Kurt Wilkinson, B.S.  
Laboratory Director

KW:jgc



# ENVIRONMENTAL

## ANALYTICAL CHEMISTS

March 6, 1996

LAB No: STK 631015-2

SAIC / Science Application International  
NASA Ames Res. Center Bld 19 Rm 10 Annex  
Attn: Chuck Kalleta/Mail Stop 19-21  
Moffett Field, CA 94035-1000

RE: Inorganic Analysis

**Sample Site:**

Description: Storage Tank  
Sampled by : Tara McClinton  
Type of Sample: Drinking Water

Sampled : February 23, 1996  
Received : February 23, 1996  
Completed : February 23, 1996  
QA/QC ID# : 63101502-

### Analytical Results

CONSTITUENT	EPA METHOD	UNITS	DLR	RESULTS
Chlorine Residual	330.5	mg/L	0.20*	3.0

DLR = Detection Limit for Reporting Purposes. ND = Not Detected at or above the DLR.  
ug/L = Micrograms Per Liter (ppb) mg/L = Milligrams Per Liter (ppm) mg/kg = Milligrams Per Kilogram  
\* = DLR adjusted because of dilutions, concentrations, or limited sample.  
Preservatives: (1) Cool 4°C Containers: (a) Plastic

If you have any questions, please call.

FGL ENVIRONMENTAL

Kurt Wilkinson, B.S.  
Laboratory Director

KW:jgc



# ENVIRONMENTAL

## ANALYTICAL CHEMISTS

February 5, 1996

LAB No: STK 630493-1

Science Application International Corp.  
10260 Campus Point Drive  
San Diego , CA 92121

RE: Inorganic Analysis

Sample Site:  
Description: Wellhead #3  
Sampled by : Brian Pabst  
Type of Sample: Drinking Water

Sampled : January 25, 1996  
Received : January 25, 1996  
Completed : January 25, 1996  
QA/QC ID# : 63049301-

### Analytical Results

CONSTITUENT	EPA METHOD	UNITS	DLR	RESULTS
Chlorine Residual	330.5	mg/L	0.1	ND

DLR = Detection Limit for Reporting Purposes. ND = Not Detected at or above the DLR.  
ug/L = Micrograms Per Liter (ppb) mg/L = Milligrams Per Liter (ppm) mg/kg = Milligrams Per Kilogram  
♦ = DLR adjusted because of dilutions, concentrations, or limited sample.  
Preservatives: (1) Cool 4°C Containers: (a) Plastic

If you have any questions, please call.

FGL ENVIRONMENTAL

Kurt Wilkinson, B.S.  
Laboratory Director

KW:jgc



# J L ANALYTICAL SERVICES, INC.

217 Primo Way • P.O. Box 576185 • Modesto, CA 95357 • (209) 538-8111 • FAX (209) 538-3966  
680 E. Blue Ridge • Fresno, CA 93720 • (209) 434-7121 • FAX (209) 434-1341

DATE: 08/30/95  
SAMPLE DESCRIPTION:

WATER, STORAGE TANK, 8-24-95, 1020

SAIC NASA/AMES  
ATTN SHELLY NAVARO  
MS 19-21  
MOFFET FIELD CA 94035

SUBMITTED BY:

LABORATORY NUMBER: 50803550

RESULTS OF ANALYSIS:

AS RECEIVED

-----  
COLIFORMS

-----  
NEG/100mls

Meets potability standards of California & U.S Public Health Service

RESPECTFULLY SUBMITTED,

*Mary A. Jacobs*

MARY A. JACOBS, DIRECTOR



# J L ANALYTICAL SERVICES, INC.

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DATE: 08/25/95  
SAMPLE DESCRIPTION:

WATER , FAUCET BY FUEL FARM, 8-21-95, 1130

SAIC NASA/AMES  
ATTN CHUCK KALETTA  
MS 19-21  
MOFFET FIELD CA 94035

SUBMITTED BY:

LABORATORY NUMBER: 50802967

RESULTS OF ANALYSIS:

AS RECEIVED

-----  
NITRATE, EPA 300.0  
COLIFORMS  
E. COLI

-----  
66 mg/l  
FDS/100mls  
NEG/100mls

RESPECTFULLY SUBMITTED,

*Mary A. Jacobs*  
MARY A. JACOBS, DIRECTOR



# J L ANALYTICAL SERVICES, INC.

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680 E. Blue Ridge • Fresno, CA 93720 • (209) 434-7121 • FAX (209) 434-1341

DATE: 08/28/95

SAMPLE DESCRIPTION:

WATER , FAUCET BY FUEL FARM, 8-23-95, 356

SAIC NASA/AMES  
ATTN SHELLY NAVARO  
MS 19-21  
MOFFET FIELD CA 94035

SUBMITTED BY:

LABORATORY NUMBER: 50803494

RESULTS OF ANALYSIS:

AS RECEIVED

-----  
COLIFORMS

-----  
NEG/100mls

Meets potability standards of California & U.S Public Health Service

RESPECTFULLY SUBMITTED,

*Mary A. Jacobs*

MARY A. JACOBS, DIRECTOR



# J L ANALYTICAL SERVICES, INC.

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680 E. Blue Ridge • Fresno, CA 93720 • (209) 434-7121 • FAX (209) 434-1341

DATE: 08/30/95  
SAMPLE DESCRIPTION:

WATER, FAUCET BY FUEL FARM, 8-24-95, 1020

SAIC NASA/AMES  
ATTN SHELLY NAVARO  
MS 19-21  
MOFFET FIELD CA 94035

SUBMITTED BY:

LABORATORY NUMBER: 50803549

RESULTS OF ANALYSIS:

AS RECEIVED

-----  
COLIFORMS

-----  
NEG/100mls

Meets potability standards of California & U.S Public Health Service

RESPECTFULLY SUBMITTED,

MARY A. JACOBS, DIRECTOR



# J L ANALYTICAL SERVICES, INC.

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680 E. Blue Ridge • Fresno, CA 93720 • (209) 434-7121 • FAX (209) 434-1341

DATE: 08/25/95  
SAMPLE DESCRIPTION:

WATER , WELL #3, 8-21-95, 1130

SAIC NASA/AMES  
ATTN CHUCK KALETTA  
MS 19-21  
MOFFET FIELD CA 94035

SUBMITTED BY:

LABORATORY NUMBER: 50802966

RESULTS OF ANALYSIS:

AS RECEIVED

NITRATE, EPA 300.0  
COLIFORMS

62 mg/l  
NEG/100mls

RESPECTFULLY SUBMITTED,

*Mary A. Jacobs*

MARY A. JACOBS, DIRECTOR



# J L ANALYTICAL SERVICES, INC.

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680 E. Blue Ridge • Fresno, CA 93720 • (209) 434-7121 • FAX (209) 434-1341

DATE: 08/28/95  
SAMPLE DESCRIPTION:

WELL #3, 8-23-95, 350

SAIC NASA/AMES  
ATTN SHELLY NAVARO  
MS 19-21  
MOFFET FIELD CA 94035

SUBMITTED BY:

LABORATORY NUMBER: 50803493

RESULTS OF ANALYSIS:

AS RECEIVED

-----  
NITRATE, EPA 300.0  
COLIFORMS

-----  
61 mg/l  
NEG/100mls

RESPECTFULLY SUBMITTED,

*Mary A. Jacobs*  
MARY A. JACOBS, DIRECTOR



# J L ANALYTICAL SERVICES, INC.

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680 E. Blue Ridge • Fresno, CA 93720 • (209) 434-7121 • FAX (209) 434-1341

DATE: 08/30/95  
SAMPLE DESCRIPTION:

WATER, NEW WELL #3, 8-24-95, 1030

SAIC NASA/AMES  
ATTN SHELLY NAVARO  
MS 19-21  
MOFFET FIELD CA 94035

SUBMITTED BY:

LABORATORY NUMBER: 50803548

RESULTS OF ANALYSIS:

AS RECEIVED

-----  
NITRATE, EPA 300.0  
COLIFORMS  
E. COLI

-----  
67 mg/l  
POS/100mls  
NEG/100mls

This water does NOT meet standards of Calif. & U.S. Public Health Serv

RESPECTFULLY SUBMITTED,

MARY A. JACOBS, DIRECTOR



# J L ANALYTICAL SERVICES, INC.

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680 E. Blue Ridge • Fresno, CA 93720 • (209) 434-7121 • FAX (209) 434-1341

DATE: 07/31/95  
SAMPLE DESCRIPTION:

WATER, CROWSLANDING, NAS, 7-27, 1145, STORAGE TANK

SAIC NASA/AMES  
ATTN CHUCK KALETTA  
MS 19-21  
MOFFET FIELD CA 94035

SUBMITTED BY:

LABORATORY NUMBER: 50703331

RESULTS OF ANALYSIS:

AS RECEIVED

COLIFORMS

NEG/100mls

Meets potability standards of California & U.S Public Health Service

RESPECTFULLY SUBMITTED,

*Mary A. Jacobs*

MARY A. JACOBS, DIRECTOR



# J L ANALYTICAL SERVICES, INC.

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680 E. Blue Ridge • Fresno, CA 93720 • (209) 434-7121 • FAX (209) 434-1341

DATE: 07/31/95  
SAMPLE DESCRIPTION:

WATER, CROWSLANDING, NAS DATE, 7-27, 1140 SITE WELL #3

SAIC NASA/AMES  
ATTN CHUCK KALETTA  
MS 19-21  
MOFFET FIELD CA 94035

SUBMITTED BY:

LABORATORY NUMBER: 50703330

RESULTS OF ANALYSIS:

AS RECEIVED

COLIFORMS

NEG/100mls

Meets potability standards of California & U.S Public Health Service

RESPECTFULLY SUBMITTED,

*Mary A. Jacobs*

MARY A. JACOBS, DIRECTOR



# J L ANALYTICAL SERVICES, INC.

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680 E. Blue Ridge • Fresno, CA 93720 • (209) 434-7121 • FAX (209) 434-1341

DATE: 02/13/95  
SAMPLE DESCRIPTION:

WATER , WELL BELL RD, 2-8-95, 1030AM

SAI TECHNOLOGY  
ATTN GERALD CUNNINGHAM  
10260 CAMPUS POINT DRIVE  
SAN DIEGO CA 92121

SUBMITTED BY:

LABORATORY NUMBER: 50201009

RESULTS OF ANALYSIS:

AS RECEIVED

NITRATE, EPA 300.0  
COLIFORMS

39 mg/l  
NEG/100mls

RESPECTFULLY SUBMITTED,

*Mary A. Jacobs*  
MARY A. JACOBS, DIRECTOR



# J L ANALYTICAL SERVICES, INC.

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680 E. Blue Ridge • Fresno, CA 93720 • (209) 434-7121 • FAX (209) 434-1341

DATE: 02/13/95  
SAMPLE DESCRIPTION:

WATER , WELL BELL RD, 2-8-95, 1030AM

SAI TECHNOLOGY  
ATTN GERALD CUNNINGHAM  
10260 CAMPUS POINT DRIVE  
SAN DIEGO CA 92121

SUBMITTED BY:

LABORATORY NUMBER: 50201009

RESULTS OF ANALYSIS

AS RECEIVED

NITRATE, EPA 300.0  
COLIFORMS

39 mg/l  
NEG/100mls

RESPECTFULLY SUBMITTED,

*Mary A. Jacobs*  
MARY A. JACOBS DIRECTOR