

May 4, 2009

Mr. John J. Gay
Air Compliance and Enforcement
FDEP Northeast District Office
7825 Baymeadows Way, Suite B200
Jacksonville, Florida 32256

RECEIVED

MAY 05 2009

BUREAU OF AIR REGULATION

RE: North Municipal Solid Waste Landfill
Surface Scan
Permit No. 0310340-005-AV

Dear Mr. Gay:

This is the report for the surface scan conducted on the City of Jacksonville, North Municipal Solid Waste Landfill for March 21st and 22nd, 2009. There were no detections of methane above the 500 ppm limit during the surface scan event. Attached are the surface scan route maps.

This surface scan is currently being conducted on an annual basis. There were no detections over 500 ppm for more than four consecutive quarters. Therefore, in accordance with 40 CFR60.756(f), the surface scan frequency is annually.

If you have any questions or comments regarding this report, please call me at (904)-472-4720.

Very truly yours,



Ronald L. Moore
Project Manager
AECOM/Earth Tech

Attachment

Cc: Florida DEP, (Tallahassee, FL)
Wayne Tutt, (City of JAX, Air Quality Division)
Chris Pearson, (City of JAX, Solid Waste)
Mike Beaudoin, (AECOM)

Monitoring Instrument Performance Evaluation
NSPS Surface Scan

40 CFR 60.755(d)(3) requires performance evaluation of response factor, response time and calibration precision according to the section 4.4 of 40 CFR 60 Appendix A, Method 21. The requirements are presented below along with locations to record the evaluations.

Response Factor:

Response factor is the ratio of the known concentration of a VOC compound to the observed meter reading when measured using an instrument calibrated with the reference compound specified in the applicable regulation. Since the monitoring instrument is being used to detect methane and the calibration reference compound is methane, the response factor by definition is one. No further evaluation is required.

Response Time:

Response time is the time interval from a step change in VOC concentration at the input of the sampling system to the time at which 9 percent of the corresponding final value is reached as displayed on the instrument readout meter.

Performance Requirement: Section 3.1.2(b) of Method 21 requires the instrument response time to be equal to or less than 30 seconds.

Evaluation Frequency: Prior to placing instrument into service (for the first time or after it was out of service for maintenance or repair). If modification to the sample pumping system or flow configuration is made that would change the response time, a new test is required prior to further use.

Evaluation Procedure: (Section 4.4.3 of Method 21) Calibrate instrument with the methane calibration gas. Introduce zero gas into the instrument sample probe. When the meter reading has stabilized, switch quickly to the specified calibration gas. Measure the time from switching to when 90 percent of the final stable reading is attained. Perform this test sequence three times and record the results. Calculate the average response time. Use the form below or a similar format to document this procedure.

Date: 3/21/09
Operator Name: Ron Moore
Facility: North Landfill (Jacksonville, FL)
Instrument ID: Photovac microFiD I/S
Calibration Gas Conc.: 500 ppm CH4
90% of Calib. Gas Conc.: 450 ppm CH4

<u>Trial No.</u>	<u>Time to reach 90% gas value</u>
1	<u>20.0</u> seconds
2	<u>21.0</u> seconds
3	<u>19.0</u> seconds
Average	<u>20.0</u> seconds

Is instrument response time less than or equal to 30 seconds? (If yes, then performance is acceptable)

X Yes No

Monitoring Instrument Performance Evaluation

NSPS Surface Scan

(cont.)

Calibration Precision:

Calibration precision is the degree of agreement between measurements of the same known value, expressed as the relative percentage of the average difference between the meter readings and the known concentration to the known concentration.

Performance Requirement: The calibration precision must be equal to or less than 10 percent of the calibration gas value.

Evaluation Frequency: Must be completed prior to placing instrument into service, and at subsequent 3-month intervals or at the next use whichever is later.

Evaluation Procedure: (Section 4.4.2 of Method 21) Calibrate instrument with the methane calibration gas. Make a total of three measurements by alternately using zero gas and the specified calibration gas. Record the meter readings. Calculate the average algebraic difference between the meter readings and the known value. Divide this average difference by the known calibration value and multiply by 100 to express the resulting calibration precision as a percentage.

Date: 3/21/09
Operator Name: Ron Moore
Facility: North Landfill (Jacksonville, FL)
Instrument ID: Photovac microFiD I/S
Calibration Gas Conc.: 500 ppm CH4

<u>Trial No.</u>	<u>Meter Reading After Zero Gas</u>	<u>Meter Reading with Cal Gas</u>	<u>Difference Between Cal Gas and Meter Reading</u>
1	<u>0.0 ppm</u>	<u>490 ppm</u>	<u>10.0 ppm</u>
2	<u>0.0 ppm</u>	<u>490 ppm</u>	<u>10.0 ppm</u>
3	<u>0.0 ppm</u>	<u>490 ppm</u>	<u>10.0 ppm</u>

Average Difference: 10.0 ppm

$$\begin{aligned}\text{Calibration Precision} &= \text{Average Difference/Calibration Gas Conc.} \times 100 \\ &= \frac{10.0}{500} \times 100 \\ &= 2.0 \%\end{aligned}$$

Is calibration precision equal to or less than 10 percent of the calibration gas value? (If yes, then performance is acceptable):

Yes No

Table 2
Instrument Calibration and Monitoring Procedures
Surface Monitoring Design Plan

The calibration procedures in section 4.2 of 40 CFR 60 Appendix A, Method 21 must be conducted immediately before commencing a surface monitoring survey. [40 CFR 60.755(d)(4)] Calibration, background readings and monitoring details can be recorded using this form.

Calibration Procedure:

The calibration gas should be methane in air at a nominal concentration of 500 ppm. [See section 3.2 of Method 21 for further calibration gas requirements.]

Assemble and start up the analyzer according to the manufacturer's instructions. After the appropriate warm-up period and zero internal calibration procedure, introduce the calibration gas into the instrument sample probe. Adjust the instrument meter readout to correspond to the calibration gas value. Record the calibration information in the table below.

Background Concentration:

Determine the background concentration by moving the probe inlet upwind outside the boundary of the landfill at a distance of at least 30 meters from the perimeter wells. Record the background concentration and location in the table below.

General Information:

Date: 3/21/09
Operator Name: Ron Moore
Facility: North Landfill (Jacksonville, FL)
Instrument ID: Photovac microFiD I/S
Wind Direction: Northeast
Approximate Wind Speed: 15 mph
General Weather: 61 °F
clear, partly cloudy, overcast: clear (circle one or write in)
no precip, drizzle, rain, snow: no precip (circle one or write in)

Calibration Information:

Calibration Gas Conc.: 500 ppm CH4
Conduct internal zero calibration? Yes
Instrument reading after calibration: 500 ppm CH4 (should be same as above)
Time of Calibration: 09:00 a.m.

Background Concentration Information:

Background concentration upwind of site: <u>0 ppm</u>	Average Background: <u>0 ppm</u>
Location of background reading: <u>NE side of landfill</u>	New "Leak" definition: <u>500 ppm</u>
Background concentration downwind of site: <u>0 ppm</u>	
Location of background reading: <u>SW side of landfill</u>	

Monitoring Instrument Performance Evaluation
NSPS Surface Scan

40 CFR 60.755(d)(3) requires performance evaluation of response factor, response time and calibration precision according to the section 4.4 of 40 CFR 60 Appendix A, Method 21. The requirements are presented below along with locations to record the evaluations.

Response Factor:

Response factor is the ratio of the known concentration of a VOC compound to the observed meter reading when measured using an instrument calibrated with the reference compound specified in the applicable regulation. Since the monitoring instrument is being used to detect methane and the calibration reference compound is methane, the response factor by definition is one. No further evaluation is required.

Response Time:

Response time is the time interval from a step change in VOC concentration at the input of the sampling system to the time at which 90 percent of the corresponding final value is reached as displayed on the instrument readout meter.

Performance Requirement: Section 3.1.2(b) of Method 21 requires the instrument response time to be equal to or less than 30 seconds.

Evaluation Frequency: Prior to placing instrument into service (for the first time or after it was out of service for maintenance or repair). If modification to the sample pumping system or flow configuration is made that would change the response time, a new test is required prior to further use.

Evaluation Procedure: (Section 4.4.3 of Method 21) Calibrate instrument with the methane calibration gas. Introduce zero gas into the instrument sample probe. When the meter reading has stabilized, switch quickly to the specified calibration gas. Measure the time from switching to when 90 percent of the final stable reading is attained. Perform this test sequence three times and record the results. Calculate the average response time. Use the form below or a similar format to document this procedure.

Date: 3/22/09
Operator Name: Ron Moore
Facility: North Landfill (Jacksonville, FL)
Instrument ID: Photovac microFiD I/S
Calibration Gas Conc.: 500 ppm CH4
90% of Calib. Gas Conc.: 450 ppm CH4

<u>Trial No.</u>	<u>Time to reach 90% gas value</u>
1	<u>22.0</u> seconds
2	<u>21.0</u> seconds
3	<u>21.0</u> seconds
Average	<u>21.3</u> seconds

Is instrument response time less than or equal to 30 seconds? (If yes, then performance is acceptable)

Yes No

Monitoring Instrument Performance Evaluation
NSPS Surface Scan
 (cont.)

Calibration Precision:

Calibration precision is the degree of agreement between measurements of the same known value, expressed as the relative percentage of the average difference between the meter readings and the known concentration to the known concentration.

Performance Requirement: The calibration precision must be equal to or less than 10 percent of the calibration gas value.

Evaluation Frequency: Must be completed prior to placing instrument into service, and at subsequent 3-month intervals or at the next use whichever is later.

Evaluation Procedure: (Section 4.4.2 of Method 21) Calibrate instrument with the methane calibration gas. Make a total of three measurements by alternately using zero gas and the specified calibration gas. Record the meter readings. Calculate the average algebraic difference between the meter readings and the known value. Divide this average difference by the known calibration value and multiply by 100 to express the resulting calibration precision as a percentage.

Date: 3/22/09
 Operator Name: Ron Moore
 Facility: North Landfill (Jacksonville, FL)
 Instrument ID: Photovac microFiD I/S
 Calibration Gas Conc.: 500 ppm CH4

<u>Trial No.</u>	<u>Meter Reading After Zero Gas</u>	<u>Meter Reading with Cal Gas</u>	<u>Difference Between Cal Gas and Meter Reading</u>
1	<u>0.0 ppm</u>	<u>480 ppm</u>	<u>20.0 ppm</u>
2	<u>0.0 ppm</u>	<u>490 ppm</u>	<u>10.0 ppm</u>
3	<u>0.0 ppm</u>	<u>490 ppm</u>	<u>10.0 ppm</u>
Average Difference:			<u>13.3 ppm</u>

$$\begin{aligned}
 \text{Calibration Precision} &= \text{Average Difference} / \text{Calibration Gas Conc.} \times 100 \\
 &= \frac{13.3}{500} \times 100 \\
 &= \underline{2.66\%}
 \end{aligned}$$

Is calibration precision equal to or less than 10 percent of the calibration gas value? (If yes, then performance is acceptable):

Yes No

Table 2
Instrument Calibration and Monitoring Procedures
Surface Monitoring Design Plan

The calibration procedures in section 4.2 of 40 CFR 60 Appendix A, Method 21 must be conducted immediately before commencing a surface monitoring survey. [40 CFR 60.755(d)(4)] Calibration, background readings and monitoring details can be recorded using this form.

Calibration Procedure:

The calibration gas should be methane in air at a nominal concentration of 500 ppm. [See section 3.2 of Method 21 for further calibration gas requirements.]

Assemble and start up the analyzer according to the manufacturer's instructions. After the appropriate warm-up period and zero internal calibration procedure, introduce the calibration gas into the instrument sample probe. Adjust the instrument meter readout to correspond to the calibration gas value. Record the calibration information in the table below.

Background Concentration:

Determine the background concentration by moving the probe inlet upwind outside the boundary of the landfill at a distance of at least 30 meters from the perimeter wells. Record the background concentration and location in the table below.

General Information:

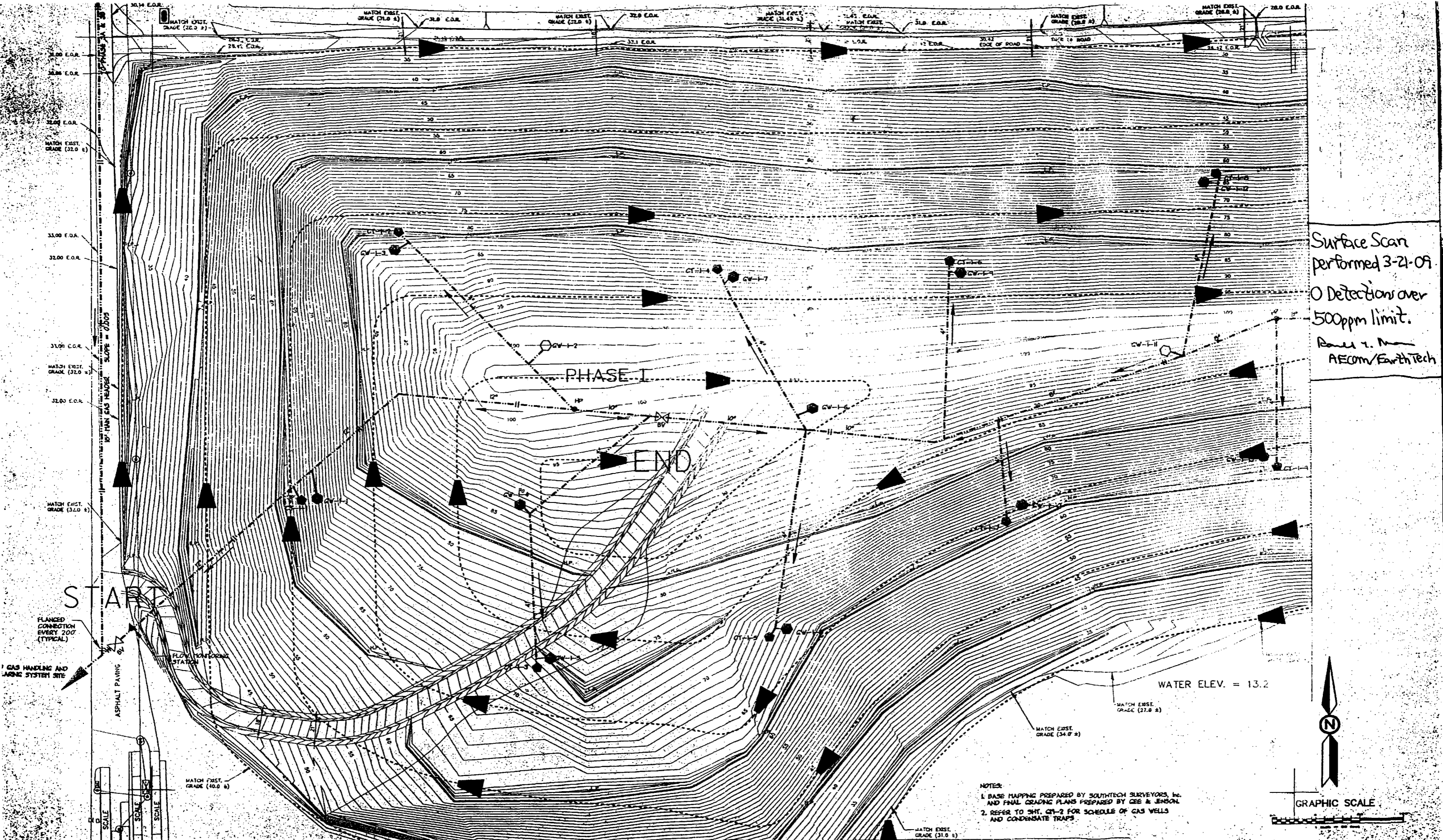
Date: 3/22/09
Operator Name: Ron Moore
Facility: North Landfill (Jacksonville, FL)
Instrument ID: Photovac microFiD I/S
Wind Direction: Northeast
Approximate Wind Speed: 10 mph
General Weather: 58 °F
clear, partly cloudy, overcast: partly cloudy (circle one or write in)
no precip, drizzle, rain, snow: no precip (circle one or write in)

Calibration Information:

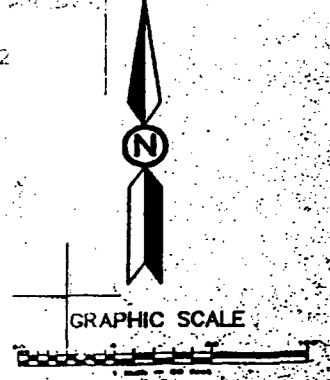
Calibration Gas Conc.: 500 ppm CH4
Conduct internal zero calibration? Yes
Instrument reading after calibration: 500 ppm CH4 (should be same as above)
Time of Calibration: 09:00 a.m.

Background Concentration Information:

Background concentration upwind of site: <u>0 ppm</u>	Average Background: <u>0 ppm</u>
Location of background reading: <u>NE side of landfill</u>	New "Leak" definition: <u>500 ppm</u>
Background concentration downwind of site: <u>0 ppm</u>	
Location of background reading: <u>SW side of landfill</u>	



Surface Scan
performed 3-21-09
0 Detections over
500ppm limit.
Russ L. M.
AECOM/EarthTech



DATE	REVISION

DRAWN FFB
DESIGNED JEM
CHECKED JEM
APPROVED

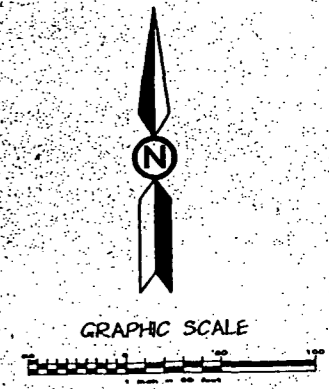
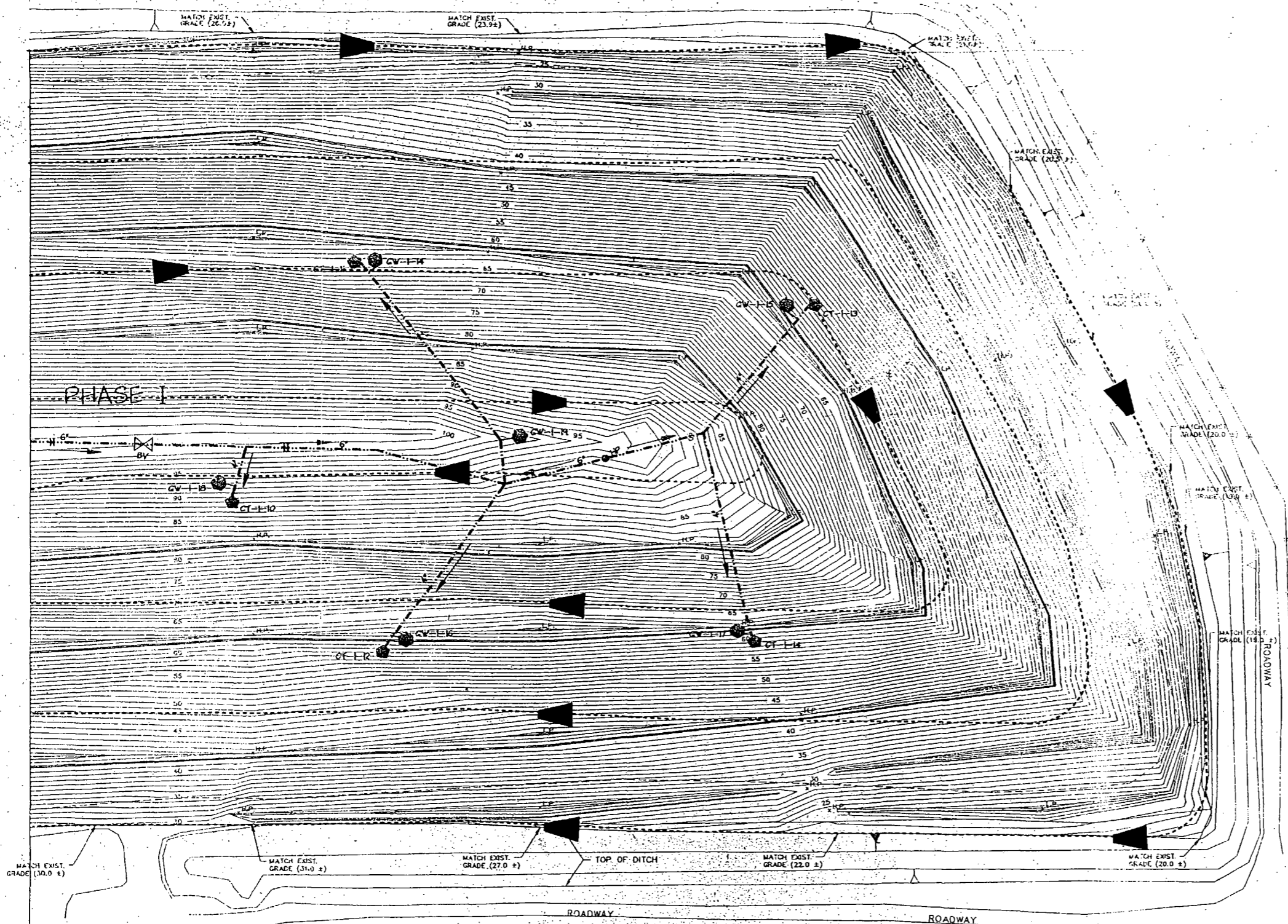
SCALE AS NOTED
DATE OCTOBER 1993

Hayden Wegman
CONSULTING ENGINEERS
BOSTON WEST HARTFORD

CITY OF JACKSONVILLE, FLORIDA
NORTH LANDFILL CLOSURE

LANDFILL GAS MANAGEMENT SYSTEM
GAS COLLECTION WELLFIELD PLAN
PHASE - I SHEET 1 OF 2

SHEET
GM-1
92421



NOTE:
 BASE MAPPING PREPARED BY SOUTHTECH SURVEYORS, INC.
 AND FINAL GRADING PLANS PREPARED BY GEE & JENSON.

SCHEDULE OF WELL COORDINATES & DEPTH			
WELL No.	NORTH	EAST	DEPTH (FT)
CV-1	501835.00	92057.70	30
CV-2	502024.80	92327.55	EXIST.
CV-3	502141.20	92149.50	46
CV-4	501827.67	92247.00	42
CV-5	501637.62	92331.70	34
CV-6	501943.90	92640.60	60
CV-7	502107.53	92549.00	50
CV-8	501673.32	92611.0	30
CV-9	502112.32	92812.75	52
CV-10	501823.73	92880.73	31
CV-11	502014.30	92045.81	EXIST.
CV-12	502218.00	93094.00	31
CV-13	501880.70	93158.30	31
CV-14	502212.33	93512.82	34
CV-15	502171.65	93567.21	35
CV-16	501867.35	93538.54	30
CV-17	501875.15	93824.63	30
CV-18	502011.20	93375.13	37
CV-19	502055.92	93657.47	60

SCHEDULE OF CONDENSATE TRAPS COORDINATES		
CT No.	NORTH	EAST
CT-1	501832.53	92038.63
CT-2	502163.95	92153.47
CT-3	501626.60	92316.56
CT-4	502117.00	92524.12
CT-5	501663.35	92540.62
CT-6	502125.45	92800.22
CT-7	501802.56	92863.21
CT-8	502228.95	93107.90
CT-9	501867.54	93174.36
CT-10	501944.85	93387.70
CT-11	502211.00	93443.47
CT-12	501855.94	93518.50
CT-13	502171.16	93891.98
CT-14	501865.25	93838.50

NOTE:
 LOCATION AND DEPTH OF WELLS AND LOCATION OF CONDENSATE TRAPS ARE FOR REFERENCE ONLY. ACTUAL LOCATIONS AND DEPTHS TO BE ESTABLISHED IN THE FIELD BY ENGINEER.

Surface Scan performed
 3-21-09.
 0 Detection over the
 500 ppm limit.
 Prepared by ASOM/EarthTech

WATER ELEV. = 13.0

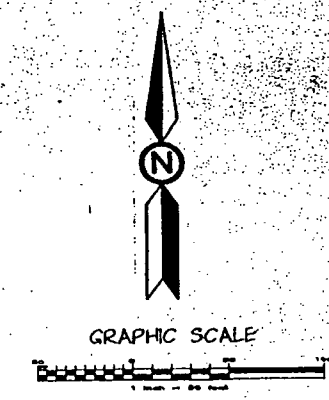
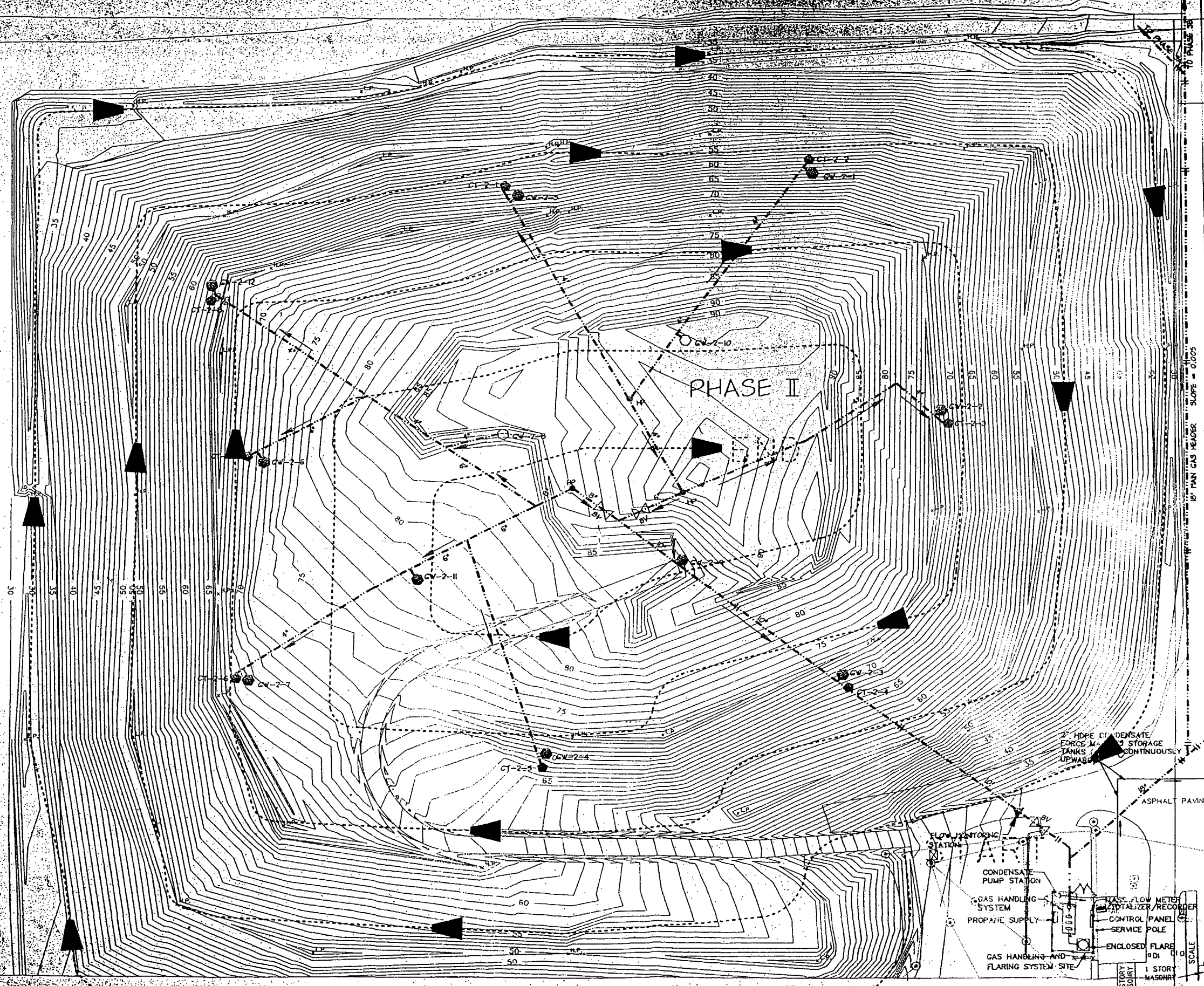
WATER ELEV. = 12.9

WATER ELEV. = 12.7

WATER ELEV. = 12.8

DATE: 1-11-14	REVISION: 1	DRAWN: FFB	DESIGNED: JET	CHECKED: JET	APPROVED:	SCALE: AS NOTED	DATE: OCTOBER 1993		CITY OF JACKSONVILLE, FLORIDA NORTH LANDFILL CLOSURE	LANDFILL GAS MANAGEMENT SYSTEM GAS WELLFIELD PLAN PHASE I - SHEET 2 OF 2	SHEET GM-2 92421
DATE: 1-11-14	REVISION: 1	DRAWN: FFB	DESIGNED: JET	CHECKED: JET	APPROVED:	SCALE: AS NOTED	DATE: OCTOBER 1993				

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 E=90,474.5960

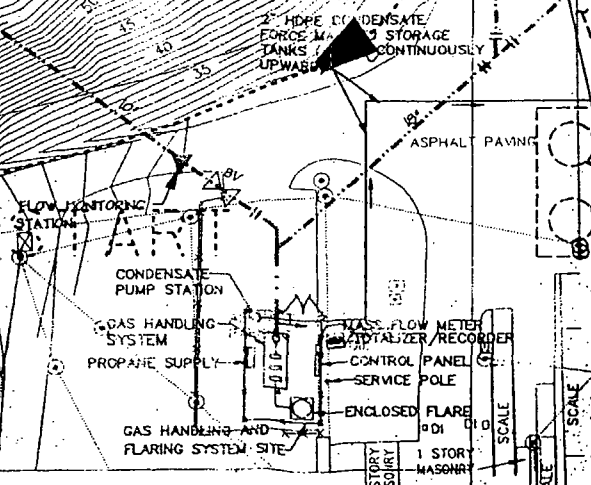


NOTE:
 BASE MAPPING PREPARED BY SOUTHTECH SURVEYORS, INC.
 AND FINAL GRADING PLANS PREPARED BY GEE & JENSON

SCHEDULE OF WELL COORDINATES & DEPTH			
WELL No.	NORTH	EAST	DEPTH (FT)
CW-2-1	502242.50	91442.60	31
CW-2-2	50187.13	91575.00	34
CW-2-3	501726.50	91478.60	35
CW-2-4	501643.60	91180.00	30
CW-2-5	502219.40	91150.25	30
CW-2-6	50144.96	90899.35	42
CW-2-7	501720.50	90884.17	33
CW-2-8	50174.00	91136.70	EXIST.
CW-2-9	501843.30	91315.50	51
CW-2-10	502072.20	91318.65	EXIST.
CW-2-11	501871.25	90986.70	45
CW-2-12	502124.75	90849.25	30

SCHEDULE OF CONDENSATE TRAPS COORDINATES		
CT No.	NORTH	EAST
CT-2-1	502229.50	91137.50
CT-2-2	502256.00	91440.00
CT-2-3	502001.12	91567.72
CT-2-4	501712.55	91478.60
CT-2-5	501630.15	91176.65
CT-2-6	501722.57	90871.98
CT-2-7	501951.67	90882.58
CT-2-8	502112.00	90845.90

NOTE:
 LOCATION AND DEPTH OF WELLS AND LOCATION OF CONDENSATE TRAPS ARE FOR REFERENCE ONLY. ACTUAL LOCATIONS AND DEPTHS TO BE ESTABLISHED IN THE FIELD BY ENGINEER.



4" HDPE CONDENSATE STORAGE TANKS TO BE INSTALLED CONTINUOUSLY UPWARD.
 4" PVC LEACHATE FM (REFER TO GEE & JENSON DRAWINGS)
 LEACHATE STORAGE TANKS (REFER TO GEE & JENSON DRAWINGS)

Surface Scan performed 3-21-09.
 0 Detections over the 500 ppm limit.
 R. J. ...
 AECOM/EarthTech

DATE	REVISION	APPROVED

DRAWN FFB
 DESIGNED JET
 CHECKED JET
 APPROVED JET

SCALE AS NOTED
 DATE OCTOBER 1993

Hayden Wegman
 Consulting Engineers
 BOSTON WEST HARTFORD

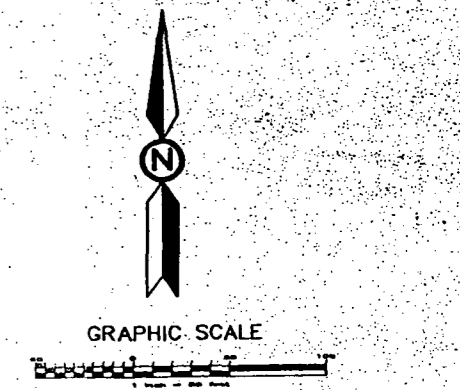
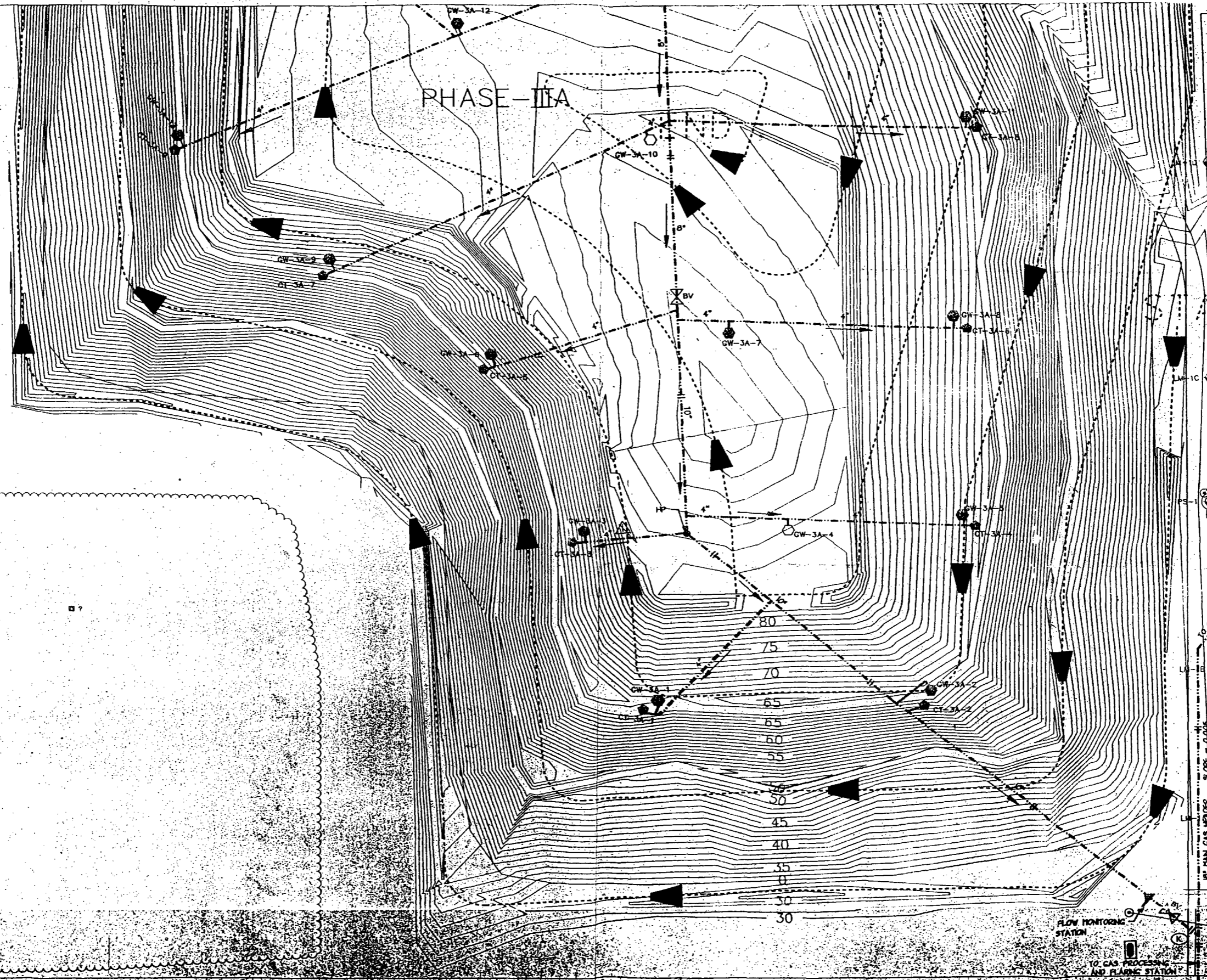
CITY OF JACKSONVILLE, FLORIDA
 NORTH LANDFILL CLOSURE

LANDFILL GAS MANAGEMENT SYSTEM
 GAS COLLECTION WELLFIELD PLAN

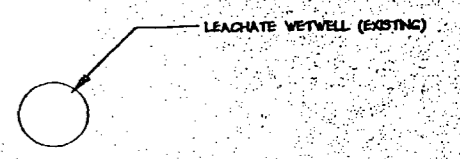
PHASE - 2

SHEET
GM-3

92421



NOTES:
 1. BASE-MAPPING PREPARED BY SOUTHTECH SURVEYORS, INC.
 2. AND FINAL GRADING PLANS PREPARED BY GEE & JENSON.
 3. REFER TO SHT. CT-3 FOR SCHEDULE OF GAS WELLS
 AND CONDENSATE TRAPS

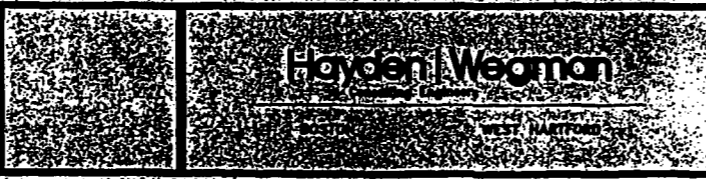


Surface Scan performed
 3-21-09.
 0 Detections above the
 500 ppm limit.
 Ron v. Man
 AECOM/Earth Tech

NO.	DATE	REVISION
1	1-12-14	FINAL CORRECTIONS AND REVISIONS AS OF 1-12-14. REVISED ITEMS ARE MARKED.

DRAWN: PFB
 DESIGNED: JEM
 CHECKED: JEM
 APPROVED:

SCALE: AS NOTED
 DATE: OCTOBER 1997



CITY OF JACKSONVILLE, FLORIDA
 NORTH LANDFILL CLOSURE

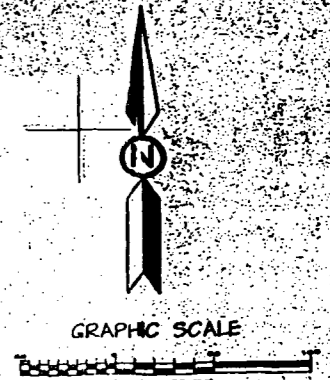
LANDFILL GAS MANAGEMENT SYSTEM
 GAS COLLECTION WELDFIELD PLAN
 PHASE - 3A SHEET 1 OF 2

SHEET
 GM-4
 92421

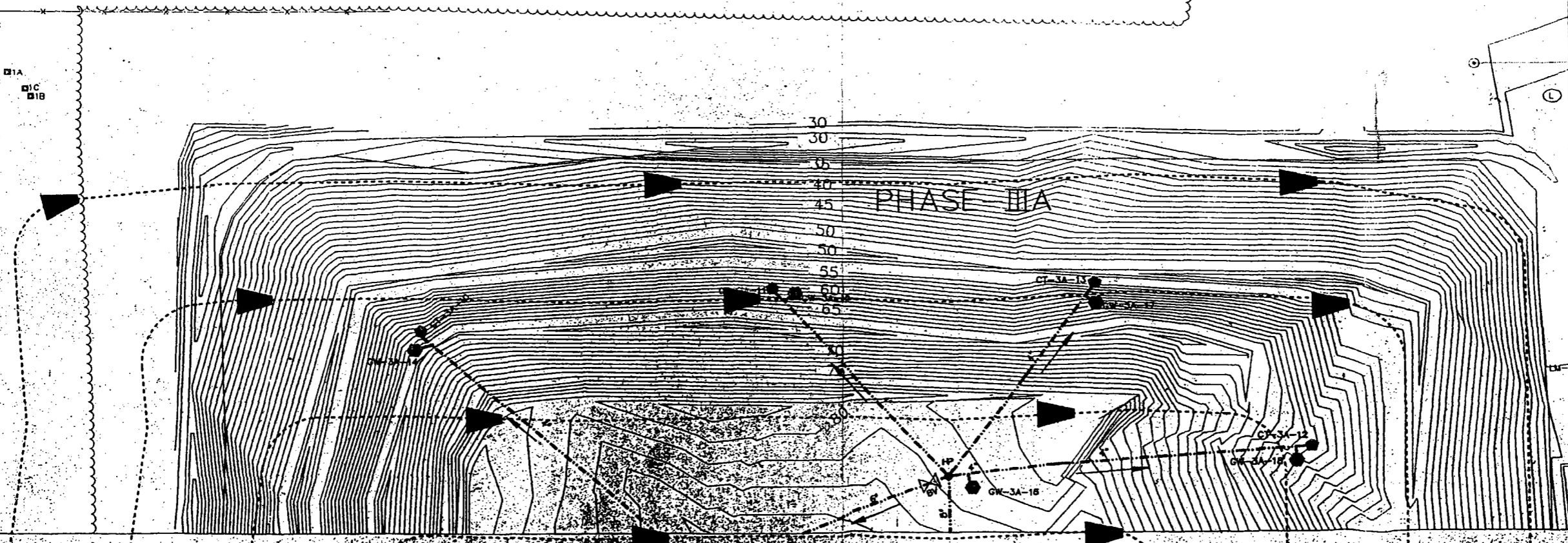
WELL No.	COORDINATES		WELL DEPTH
	NORTH	EAST	
CV-3A-1	502878.28	9128.85	30
CV-3A-2	502888.34	9128.82	30
CV-3A-3	502852.34	9127.77	38
CV-3A-4	502852.90	9128.87	EXIST.
CV-3A-5	502868.62	9128.75	34
CV-3A-6	503031.10	9129.30	33
CV-3A-7	503053.08	9128.73	51
CV-3A-8	503064.62	9128.43	35
CV-3A-9	503028.53	9082.34	32
CV-3A-10	503248.95	9128.70	EXIST.
CV-3A-11	503270.77	9128.80	31
CV-3A-12	503364.81	9129.40	48
CV-3A-13	503253.54	9081.22	30
CV-3A-14	503541.78	9080.87	32
CV-3A-15	503588.60	9121.08	30
CV-3A-16	503420.88	9131.87	46
CV-3A-17	503579.86	9127.82	30
CV-3A-18	503443.15	9129.30	30

CT No.	COORDINATES	
	NORTH	EAST
CT-3A-1	502669.24	9127.81
CT-3A-2	502672.10	9134.18
CT-3A-3	502840.59	9120.04
CT-3A-4	502857.98	9158.61
CT-3A-5	503017.16	9115.65
CT-3A-6	503056.70	9128.80
CT-3A-7	503112.04	9089.34
CT-3A-8	503254.95	9129.12
CT-3A-9	503238.47	9081.70
CT-3A-10	503557.30	9085.32
CT-3A-11	503542.60	9144.50
CT-3A-12	503456.17	9158.65
CT-3A-13	503546.88	9141.76

NOTE:
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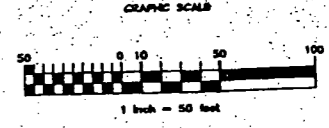
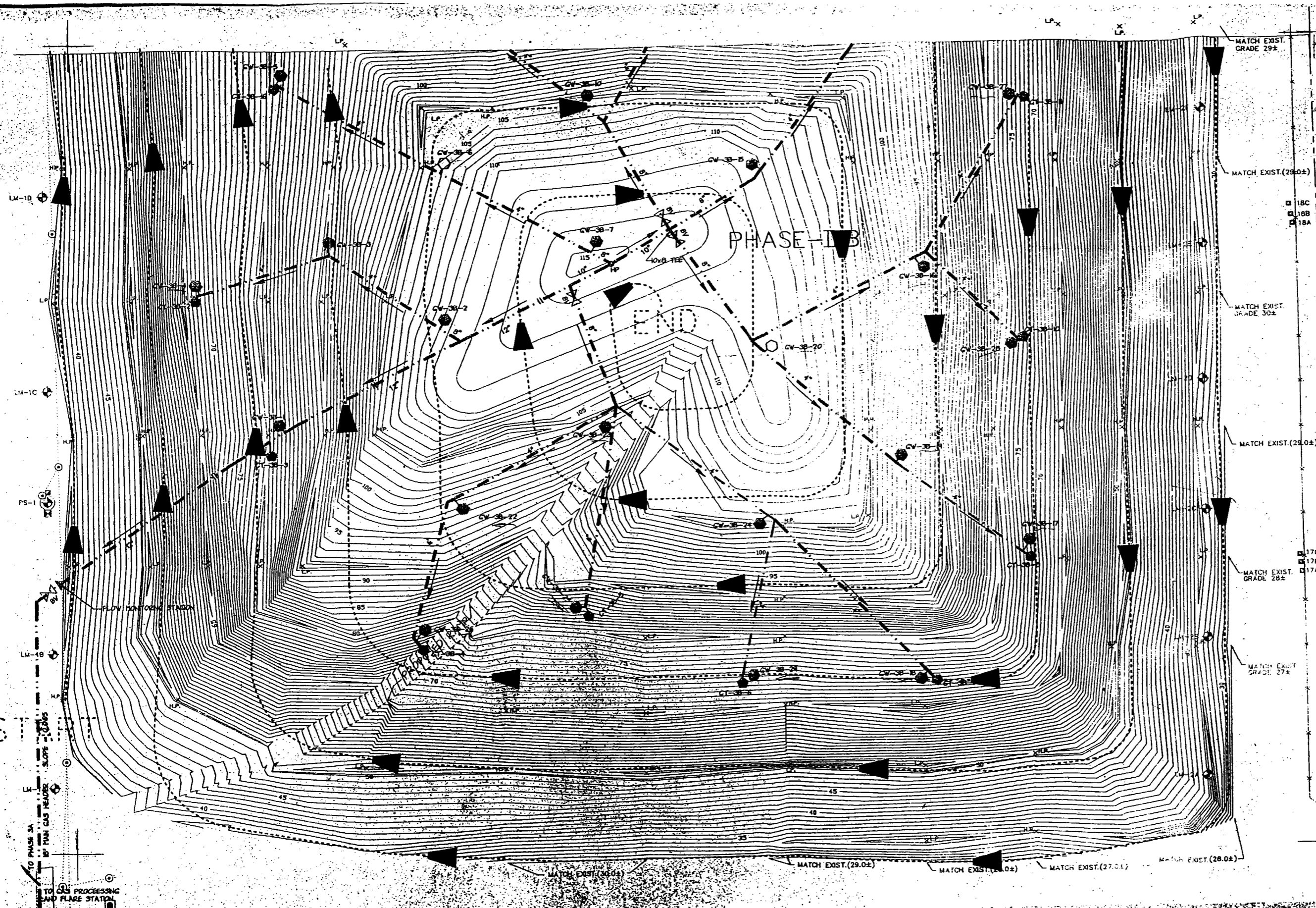


NOTE:
BASE MAPPING PREPARED BY SOUTHTECH SURVEYORS, INC.
AND FINAL GRADING PLANS PREPARED BY CEE & JENSEN.



Surface Scan performed
3-21-09.
0 Detection above the
500 ppm limit.
Randy M. ...
AECOM/EarthTech

No. DATE REVISION _____ _____ _____	DRAWN: PFB	SCALE: AS NOTED	Hayden Weeman CITY OF JACKSONVILLE, FLORIDA NORTH LANDFILL CLOSURE	LANDFILL GAS MANAGEMENT SYSTEM GAS COLLECTION WELLFIELD PLAN PHASE IIIA SHEET 2 OF 2	SHEET GM-5 102421
	DESIGNED: JEH	DATE: OCTOBER 2013			
	CHECKED: JEH				
	APPROVED: _____				



- NOTES:
1. BASE MAPPING PREPARED BY SOUTHTECH SURVEYORS, INC. AND FINAL GRADING PLANS PREPARED BY GES & JENSON.
 2. REFER TO SHT. GW-7 FOR SCHEDULE OF GAS WELLS AND CONDENSATE TRAPS

Surface Scan performed
3-22-09.
0 Detection above the
500 ppm limit.

Raymond M. ...
AECOM/EarthTech

DATE	REVISION

DRAWN: FRP
DESIGNED: JEN
CHECKED: JEN
APPROVED: JEN

SCALE: AS NOTED
DATE: OCTOBER 1993

Hayden Weeman
SURVEYOR
REGISTERED PROFESSIONAL SURVEYOR
STATE OF FLORIDA
NO. 10000

CITY OF JACKSONVILLE, FLORIDA
NORTH LANDFILL CLOSURE

LANDFILL GAS MANAGEMENT SYSTEM
GAS COLLECTION WELLFIELD PLAN
PHASE 38 SHEET 1 OF 2

SHEET
GM-6
024215



GRAPHIC SCALE



NOTE:
 BASE MAPPING PREPARED BY SOUTHTECH SURVEYORS, INC.
 AND FINAL GRADING PLANS PREPARED BY CEE & JENSON.

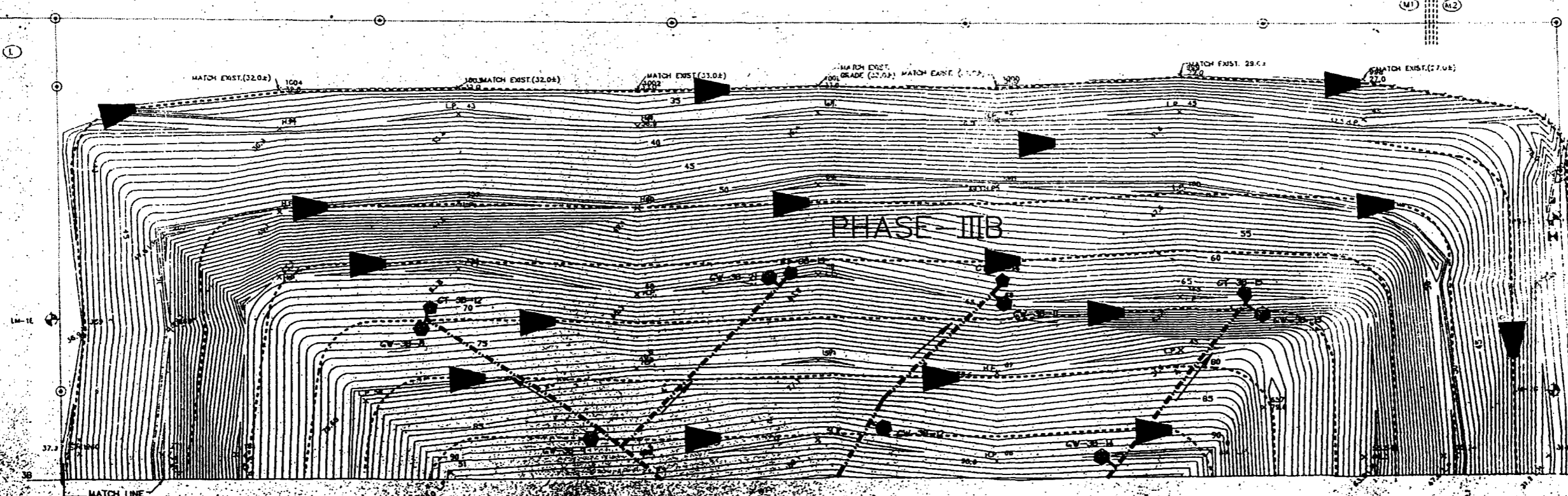
SCHEDULE OF WELL COORDINATES & DEPTH			
WELL No.	NORTH	EAST	DEPTH (FT)
CW-38-1	502985.21	92068.06	42
CW-38-2	503082.72	92248.11	67
CW-38-3	503170.25	92124.30	50
CW-38-4	503122.96	91818.7	30
CW-38-5	503357.90	92076.50	35
CW-38-6	503258.30	92250.63	EXIST.
CW-38-7	503167.46	92412.09	74
CW-38-8	503513.40	92210.8	35
CW-38-9	503488.29	92264.07	50
CW-38-10	503331.60	92405.20	64
CW-38-11	503535.05	92608.68	32
CW-38-12	503426.78	92508.80	55
CW-38-13	503524.10	92819.84	38
CW-38-14	503401.08	92688.76	58
CW-38-15	503250.54	92580.75	71
CW-38-16	503133.37	92765.23	59
CW-38-17	502823.74	92871.14	45
CW-38-18	502667.28	92771.87	39
CW-38-19	502923.55	92736.56	64
CW-38-20	503048.33	92598.08	EXIST.
CW-38-21	503558.17	92411.64	30
CW-38-22	502868.80	92263.53	62
CW-38-23	502959.95	92418.59	65
CW-38-24	502846.54	92582.48	70
CW-38-25	502754.12	92383.29	50
CW-38-26	502730.60	92222.34	42
CW-38-27	503325.47	92858.81	42
CW-38-28	503046.33	92855.81	43
CW-38-29	502675.53	92573.25	38

SCHEDULE OF CONDENSATE TRAPS COORDINATES		
CT No.	NORTH	EAST
CT-38-1	-	-
CT-38-2	503104.35	91981.37
CT-38-3	502930.41	92059.47
CT-38-4	502708.34	92220.67
CT-38-5	502744.46	92398.42
CT-38-6	502666.72	92560.60
CT-38-7	502669.48	92754.82
CT-38-8	502803.78	92872.00
CT-38-9	-	-
CT-38-10	503054.34	92668.82
CT-38-11	503321.46	92874.82
CT-38-12	503533.24	92728.72
CT-38-13	503562.24	92431.49
CT-38-14	503555.27	92607.00
CT-38-15	503543.06	92805.09
CT-38-16	503342.81	92067.94

NOTE:
 LOCATION AND DEPTH OF WELLS AND
 LOCATION OF CONDENSATE TRAPS ARE
 FOR REFERENCE ONLY. ACTUAL LOCATIONS
 AND DEPTHS TO BE ESTABLISHED IN THE
 FIELD BY ENGINEER.

WATER ELEV. = 11.8

Surface Scan performed
 3-22-09.
 0 Detections above the
 500ppm limit.
 Russ v. Man
 Aecom/EarthTech



DRAWN: FFB		SCALE: AS NOTED		Hayden Wegman		CITY OF JACKSONVILLE, FLORIDA		LANDFILL GAS MANAGEMENT SYSTEM		SHEET	
DESIGNED: JET		DATE: OCTOBER 1993		CITY OF JACKSONVILLE, FLORIDA		NORTH LANDFILL CLOSURE		GAS COLLECTION WELDFIELD PLAN		GM-7	
CHECKED: JET		DATE: OCTOBER 1993		CITY OF JACKSONVILLE, FLORIDA		NORTH LANDFILL CLOSURE		PHASE - 3B SHEET 2 OF 2		92421	
APPROVED:		DATE: OCTOBER 1993		CITY OF JACKSONVILLE, FLORIDA		NORTH LANDFILL CLOSURE		PHASE - 3B SHEET 2 OF 2		92421	
DATE:	REVISION:										