

FEBRUARY 15, 2023



MUNICIPALITY OF TOA ALTA JANUARY 2023 MONTHLY REPORT
Civ. No. 3:21-01087-DRD

N. AYALA
TERRATEK ENGINEERING GROUP, PSC
P.O. Box 367445 San Juan, PR 00936

Contents

I.	DISTRIBUTION LIST	1
II.	REPORT ORGANIZATION	1
III.	Section 1: SUMMARY	2
IV.	SECTION 2: DETAIL INFORMATION OR SUPPORTING DOCUMENTATION OF EACH REQUIREMENT IN NEED OF COMPREHENSIVE DESCRIPTION OR STATUS DETAILS.....	4
A.	COMPLETED REQUIREMENTS	4
B.	ID 4: Intermediate Cover.....	5
C.	ID 6: Safety Barrier Fencing.....	7
V.	SECTION 3: PROJECTION OF NEXT MONTH ACTIVITIES	12
VI.	Section 4: Attachments.....	12



I. DISTRIBUTION LIST

DOJ: david.l.gordon@usdoj.gov

EPA: spielmann.lee@epa.gov
plossl.carl@epa.gov

DNER: nildasanchez@drna.pr.gov
mariavrodriguez@drna.pr.gov

MTA: carlos@cwlllegal.com
dbattle@cstlawpr.com
jramirez@amrclaw.com
cagosto674@gmail.com

II. REPORT ORGANIZATION

As part of the USA-MTA Civ. No. 3:21-01087-DRD Stipulation and Preliminary Injunction Order, MTA shall prepare and submit monthly reports regarding the performance of its obligations under this Order until completion of the requirements of Paragraphs 3 through 10 of this Order. Each report shall cover the period ending on the last day of each month. Each report must be sent to DOJ, EPA, and DNER on or before the 15th day of the month following the reporting period. Each monthly report shall include:

- i. description of compliance with each requirement of this Order;
- ii. the volume, acreage and location of the Intermediate Cover that was applied;
- iii. the volume and disposition of leachate and leachate-contaminated stormwater collected;
- iv. results of any sampling analysis performed; and
- v. Notification of any noncompliance with this Order, including a statement describing the noncompliance and its underlying causes, and proposed measures and an implementation schedule to correct the noncompliance.

The monthly report is divided into four sections.

Section 1 presents a summary of the order requirements and the compliance status for each requirement. *Please note that Task ID's are not related to the order assigned paragraphs.*

Section 2 will include detail information or supporting documentation regarding the compliance status of each requirement in need of comprehensive description or status details.

Section 3 is a projection of next month activities.

Section 4 includes all the attachments included with the report.

III. Section 1: SUMMARY

Municipality of Toa Alta Civ. No. 3:21-01087-DRD		
Reporting Period:	January 1 to January 31, 2023	
Reporting Number:	06	
Reporting Official:	Nivia Ayala, PE/TerraTek	
Reporting Date:	2/15/2023	
Description of Compliance with each requirement of the Order		
ID	Requirement	Compliance Status
1	Daily Cover	Daily cover was completed prior to April 30, 2022.
2	Cessation of Waste Disposal	In-Compliance
3	Posting of Signs	In Compliance
4	Intermediate Cover	Intermediate cover was scheduled to start by October 1, 2022. However, MTA is still waiting for DNER funds to acquire specified cover material and contract an independent contractor to perform the required task. After DNER approves, or approves with modifications or conditions, any MTA revised permanent closure plan, and if the approved plan includes a schedule for completion of Intermediate Cover, that schedule shall control. Please see Additional comment for ID 4 item.
5	Maintenance of Cover	Monthly Maintenance for applied daily cover is performed for compliance assurance. Please see Attachment 1 for Inspection reports.
6	Slope Stability	Short Term Controls were completed by May 1. 2022. Diversion works to prevent stormwater runoff on the top deck for entering the North Slope Area and erosion controls. Maintenance is performed monthly. Safety Barrier fencing was still pending installation during the reporting period, even though it has an active Purchase Order the supplier was not able to deliver the materials during the reporting period. Please see additional comments for ID 6 Item.
7	Leachate Management	Field work for the Survey of Leachate Seeps was completed on December 19, 2022. A new topographic map was prepared to georeferenced every leachate seepage identified (included as Attachment #2)
8	Stormwater Management	
8a	Short Term Controls	A monthly routine for pest control will be implemented for both North and South Ponds. Catch basins, ditches, swales and channels were inspected weekly, when necessary, cleaned of accumulated debris and eliminate any observed standing/stagnant water. When applicable, catch basins, ditches, swales, and channels were periodically mowed and cleaned. The diesel tank secondary containment is inspected weekly, when necessary, cleaned of accumulated debris and eliminate any observed standing/stagnant water.
8b	Survey of Leachate Seeps	Completed on December 19, 2022. Report is in the process of been reviewed

		and finalized. It should be part of next month report.
8c	Stormwater Management Plan	The H-H Study was completed on December 15, 2022. Presently we are on the design phase. With the information of the H-H Study a new set of structural controls will be designed to manage the stormwater regulatory requirements applicable to landfill facilities. A report will be completed by March 30, 2023.
8d	Discharges of Stormwater Not from Pond	N/A
8e	Discharge/Disposal of Pond Liquid	N/A
Additional Requirements		
	The volume, acreage, and location the Intermediate Cover that was applied.	N/A
	The volume and disposition of leachate contaminated stormwater collected.	None
	Results Of Any Sampling Analysis Performed	None
	Notification Of Noncompliance	<p>Safety Barrier fencing was still pending installation during the reporting period, even though it has an active Purchase Order the supplier was not able to deliver the materials during the reporting period.</p> <p>Survey of Leachate Seeps. MTA shall by January 1, 2023, submit the survey to EPA, including a report identifying which of the leachate seeps found has the potential to affect stormwater that flows off site. Field data and information was performed, and the final report will be submitted by February 28, 2023. MTA shall by January 1, 2023, submit for approval under Paragraph 11 a proposed Stormwater Management Plan. The required H-H study was completed and submitted with last month's report. At present, we are still working on the final infrastructure design in association with the Preliminary Closure Design and the Final Stormwater Management Plan will be submitted by March 30, 2023.</p>

IV. SECTION 2: DETAIL INFORMATION OR SUPPORTING DOCUMENTATION OF EACH REQUIREMENT IN NEED OF COMPREHENSIVE DESCRIPTION OR STATUS DETAILS

A. COMPLETED REQUIREMENTS

Access:

Access is granted to the United States and the Commonwealth of Puerto Rico, and their employees, representatives and contractors, to conduct the necessary inspections and studies, including and the applicable records review to evaluate existing conditions, following the agreed terms in the Stipulation.

Daily Cover:

Daily Cover at the facility was completed on April 30, 2022. All areas of exposed waste were covered by Daily Cover.



Cessation of Waste Disposal:

The cessation of waste disposal at the facility was completed by March 30, 2022. However, as agreed in the Stipulation, the temporary storage of construction and demolition (C&D) waste, bulk household waste (durable goods such as mattresses, furniture, and appliances), or yard waste (vegetation waste generated by land maintenance) for final disposal at a different landfill is active and been performed on a daily basis.

Posting of Signs:

A sign with a size of four feet by five feet was installed at the landfill entrance. See the attached picture.



B. ID 4: Intermediate Cover

As has been explained numerous times throughout the process, the Municipality needs the funding to perform several of the required tasks, commencing with the Intermediate Cover Task, as it is one of the more costly initial tasks to be performed. The following is a chronological order of the Municipality performed steps to negotiate and acquire the funds to perform this task:

Rural Development:

1. On May 18, 2020, the Municipality submitted a Notice of Intent to Rural Development requesting the award of funds under the Disaster Mitigation Assistance Grant for the landfill.

2. On September 4, 2020, the Municipality amended its request to include the landfill closure, post-closure activities and expansion.
3. On July 16, 2021, the Municipality received a Rural Development email confirming that all the required documents for the appropriate Disaster Mitigation Assistance Grant for the landfill was completed.
4. On August 22, 2022, the Municipality held a Public Hearing related to the grant funds requested.
5. USDA Rural Grant Program, MTA submitted a final Environmental Assessment to: Quiles, Danna - RD, San Juan, PR <danna.quiles@usda.gov>; Cabrera, Jose - RD, San Juan, PR <Jose.Cabrera@usda.gov>; Davila, Sandimary - RD, San Juan, PR <Sandimary.Davila@usda.gov>; Gonzalez, Melvin - RD, SAN JUAN, PR <Melvin.Gonzalez@usda.gov>. The document was submitted on September 30, 2022.
6. As of today, the Rural Development process is still on-going, but has not yet completed.

Department of Natural and Environmental Resources (DNER)

1. The DNER, during the EPA Public Hearing held on February 23, 2022, stated publicly and during the hearing that they would make available to the Municipality the required funds for the appropriate landfill closure.
2. As a result of DNER public comments, a meeting on March 24, 2022, between the Municipality, DNER and La Fortaleza was held to discuss the details related to the funds availability.
3. On March 31, 2022, the Municipality provided the required information by the DNER, including the schedule and cost estimate for said agency to prepare a Memorandum of Understanding (MOU) that would provide the necessary funds to the Municipality for the landfill's closure activities.
4. After continuous inquiries by the Municipality, the DNER on June 10, 2022, finally provided a draft MOU for the funds access. The Municipality issued its comments to the MOU on July 12, 2022.
5. A meeting was held on November 2, 2022, with Puerto Rico Office of Management and Budget, the DNER and MTA to discuss the extent of the DOJ requirements and DNER Closure Plan request. The purpose of the meeting also includes the addition of a transfer station located at the Landfill existing site.
6. A conference call was held on November 29, 2022 where PROMB required an additional cost spreadsheet including the cost of a transfer station design and construction.
7. As of today, and after significant follow-up efforts with the DNER, they have not responded with the definitive version of the MOU and the availability of funds.

8. An email was sent on December 5, 2022 to Ms. Maria V. Rodriguez, Anais Rodriguez Vega, Elid Ortega Orozco, Claribel Rivera following up regarding the MOU with the agency.
9. An email was sent on December 20, 2022 to Ms. Maria V. Rodriguez, Anais Rodriguez Vega, Elid Ortega Orozco, Claribel Rivera following up regarding the MOU with the agency.
10. An email was sent on January 24, 2023 to Ms. Maria V. Rodriguez, Anais Rodriguez Vega, Elid Ortega Orozco, Claribel Rivera following up regarding the MOU with the agency.
11. An email was received on January 27, 2023 from Ms. Maria V. Rodriguez (DNER) clarifying that any economical assistance to the Municipality was been handled by the Department of Budget and Management at the State level.
12. A letter dated, January 26, 2023 was directed to the MTA Mayor approving \$1.3M for planning and design of the closure activities. No disbursement has been received at this moment.
13. Currently, the Municipality is analyzing the different alternatives at their disposal in order to advance the execution of the required Intermediate Cover tasks.

Additionally, MTA has already started the RFQ process for a Landfill Contractor

Dates	Activities
January 15, 2023	RFQ initial announcement.
February 15, 2023	Deadline for interested contractors to submit and present questions.
March 15, 2023	Due date for SOQs.
April 15-30, 2023	Deadline for Municipality evaluation and determination of SOQ.
May 15, 2023	Perform negotiations with applicable contractors (if necessary).
May 30, 2023	Final Determination of RFQ (if necessary).

A Closure Conceptual Design has been submitted to DNER.

C. ID 6: Safety Barrier Fencing

Presently, MTA is going over the contracting and finance process to contract the installation of the safety barrier. Materials are already on site. The shortage on the chain supply of these kind of construction materials have a delay of three (3) months. As MTA is required to follow purchasing and finances municipal processes,

Photos:









V. SECTION 3: PROJECTION OF NEXT MONTH ACTIVITIES

February 3, 2023

Weekly Inspection

February 10, 2023

Weekly Inspection

February 15, 2023

Deadline for interested contractors to submit and present questions for Landfill Contractor RFP.

February 17, 2023

Weekly Inspection

February 24, 2023

Weekly Inspection

These dates are subject to change.

VI. Section 4: Attachments

Attachment 1: Weekly Inspections

Attachment 2: Leachate Seepage Inventory Drawing Plan

ATTACHMENT 1



Thursday, January 5, 2023

Approval Status

Approved

Nombre de la persona que hace la inspeccion

Christian Villalta Calderón

Email

cristhianvillalta@gmail.com

Fecha

Thursday, January 5, 2023

Hora

03:40 PM

Condicion del Clima

Soleado

Esta la entrada limpia y libre de basura?

Si

Foto Entrada



Hay Personal en la caseta de seguridad?

SI

Cuantos camiones han llegado en el dia?

El dia de hoy ninguno!!!!

Fecha de la ultima verificacion del sistema de manejo de lixiviados Celda Sur?

Thursday, January 5, 2023

Horas de operacion de la planta electrica

8

Datos de eventos de lluvia

No hay datos disponibles de lluvia. No hay instalado un pluviometro!

Estan las areas verdes limpias y se ha realizado mantenimiento?

SI

Incluir Foto



Estan los diques limpios y sus valvulas cerradas con candado?

SI

Condicion de Cubierta Talud Norte

Excelentes condiciones

Incluir foto



Condicion Operacion Recibo de Escombros

Buena

Tomar foto



Equipos Operando

Ninguno.

Condicion de medidas de control de erosion y sedimentacion

Buena

Se pueden notar brotes de lixiviado?

NO

Condicion de los caminos internos



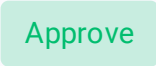
Excelentes condiciones

Condicion de areas de desvio de materiales

Area completamente limpia.

Signature

Approval Activity History

Actor	Actions	Date
 Notification	Email sent. (Your request has been approved.) cristhianvillalta@gmail.com	Saturday, January 7, 2023
 Nivia Ayala nayala@terratekpr.com		Saturday, January 7, 2023



Friday, January 13, 2023

Approval Status

Approved

Nombre de la persona que hace la inspeccion

Christian Villalta Calderón

Email

cristhianvillalta@gmail.com

Fecha

Friday, January 13, 2023

Hora

03:00 PM

Condicion del Clima

Soleado

Esta la entrada limpia y libre de basura?

Si

Foto Entrada



Hay Personal en la caseta de seguridad?

SI

Cuantos camiones han llegado en el día?

8

Fecha de la ultima verificacion del sistema de manejo de lixiviados Celda Sur?

Friday, January 13, 2023

Horas de operacion de la planta electrica

8

Datos de eventos de lluvia

No hay datos de precipitación.

Estan las areas verdes limpias y se ha realizado mantenimiento?

SI

Incluir Foto



**Estan los diques limpios y sus
valvulas cerradas con candado?**

SI

Condicion de Cubierta Talud Norte

Excelentes condiciones

Incluir foto



Condicion Operacion Recibo de Escombros

Necesita Limpieza

Tomar foto



Equipos Operando

Una excavadora.

Condicion de medidas de control de erosion y sedimentacion

Buena

Se pueden notar brotes de lixiviado?

SI

Añadir fotos deal area de brotes visibles



**Añadir fotos deal area de brotes
visibles**



Condicion de los caminos internos



Excelentes condiciones

Condicion de areas de desvio de materiales

Area completamente limpia.

Signature

Approval Activity History

Actor	Actions	Date
 Nivia Ayala nayala@terratekpr.com	Approve	Tuesday, January 24, 2023
 Notification	Email sent. (Your request has been approved.) cristhianvillalta@gmail.com	Tuesday, January 24, 2023



Friday, January 20, 2023

Approval Status

Approved

Nombre de la persona que hace la inspeccion

Christian Villalta Calderón

Email

cristhianvillalta@gmail.com

Fecha

Friday, January 20, 2023

Hora

03:30 PM

Condicion del Clima

Soleado

Esta la entrada limpia y libre de basura?

Si

Foto Entrada



Hay Personal en la caseta de seguridad?

SI

Cuantos camiones han llegado en el dia?

8

Fecha de la ultima verificacion del sistema de manejo de lixiviados Celda Sur?

Friday, January 20, 2023

Horas de operacion de la planta electrica

8

Datos de eventos de lluvia

No hay registro disponible

Estan las areas verdes limpias y se ha realizado mantenimiento?

SI

Incluir Foto



**Estan los diques limpios y sus
valvulas cerradas con candado?**

SI

Condicion de Cubierta Talud Norte

Excelentes condiciones

Incluir foto



Condicion Operacion Recibo de Escombros

Necesita Limpieza

Tomar foto



Equipos Operando

Una excavadora y una pala

Condicion de medidas de control de erosion y sedimentacion

Buena

Se pueden notar brotes de lixiviado?

SI

Añadir fotos deal area de brotes visibles



**Añadir fotos deal area de brotes
visibles**



Condicion de los caminos internos



Excelentes condiciones e

Condicion de areas de desvio de materiales

Area completamente limpia.

Signature

Approval Activity History

Actor	Actions	Date
 Nivia Ayala nayala@terratekpr.com	Approve	Tuesday, January 24, 2023
 Notification	Email sent. (Your request has been approved.) cristhianvillalta@gmail.com	Tuesday, January 24, 2023



Friday, January 27, 2023

Approval Status

Approved

Nombre de la persona que hace la inspeccion

Christian Villalta Calderón

Email

cristhianvillalta@gmail.com

Fecha

Friday, January 27, 2023

Hora

03:40 PM

Condicion del Clima

Soleado

Esta la entrada limpia y libre de basura?

Si

Foto Entrada



Hay Personal en la caseta de seguridad?

SI

Cuantos camiones han llegado en el dia?

4

Fecha de la ultima verificacion del sistema de manejo de lixiviados Celda Sur?

Friday, January 27, 2023

Horas de operacion de la planta electrica

8

Datos de eventos de lluvia

Las instalaciones no cuentan con pluviometro. Sin embargo ha estado lloviendo durante el dia.

Estan las areas verdes limpias y se ha realizado mantenimiento?

SI

Incluir Foto



**Estan los diques limpios y sus
valvulas cerradas con candado?**

SI

Condicion de Cubierta Talud Norte

Excelentes condiciones

Incluir foto



Condicion Operacion Recibo de Escombros

Necesita Limpieza

Tomar foto



Equipos Operando

Ninguno

Condicion de medidas de control de erosion y sedimentacion

Buena

Se pueden notar brotes de lixiviado?

SI

Añadir fotos deal area de brotes visibles



**Añadir fotos deal area de brotes
visibles**



Condicion de los caminos internos

Excelentes condiciones

Condicion de areas de desvio de materiales



Esta area estaba llena de White Goods! y se limpió.

Tomar Foto de haber condiciones que necesiten mejoras



Signature

Approval Activity History

Actor	Actions	Date
 Nivia Ayala nayala@terratekpr.com	Approve	Wednesday, February 8, 2023
 Notification	Email sent. (Your request has been approved.) cristhianvillalta@gmail.com	Wednesday, February 8, 2023

ATTACHMENT 2

TA	LAND	FILL	L	UVIADOS	LOCATIONS	
Point	Northing	Easting	Elevation	Description		
001	259607.543	217995.843	141.11	F101		
002	259615.336	217995.925	142.19	F103		
003	259619.382	217995.914	143.31	F104		
004	259624.996	217995.925	144.77	F105		
005	259626.734	217995.900	145.78	F109		
006	259628.443	217995.888	146.44	F111		
007	259630.198	217995.877	147.20	F112		
008	259631.948	217995.866	148.00	F113		
009	259633.698	217995.855	148.80	F114		
010	259635.448	217995.844	149.60	F115		
011	259637.198	217995.833	150.40	F116		
012	259638.948	217995.822	151.20	F117		
013	259640.698	217995.811	152.00	F118		
014	259642.448	217995.800	152.80	F119		
015	259644.198	217995.789	153.60	F120		
016	259645.948	217995.778	154.40	F121		
017	259647.698	217995.767	155.20	F122		
018	259649.448	217995.756	156.00	F123		
019	259651.198	217995.745	156.80	F124		
020	259652.948	217995.734	157.60	F125		
021	259654.698	217995.723	158.40	F126		
022	259656.448	217995.712	159.20	F127		
023	259658.198	217995.701	160.00	F128		
024	259659.948	217995.690	160.80	F129		
025	259661.698	217995.679	161.60	F130		
026	259663.448	217995.668	162.40	F131		
027	259665.198	217995.657	163.20	F132		
028	259666.948	217995.646	164.00	F133		
029	259668.698	217995.635	164.80	F134		
030	259670.448	217995.624	165.60	F135		
031	259672.198	217995.613	166.40	F136		
032	259673.948	217995.602	167.20	F137		
033	259675.698	217995.591	168.00	F138		
034	259677.448	217995.580	168.80	F139		
035	259679.198	217995.569	169.60	F140		
036	259680.948	217995.558	170.40	F141		
037	259682.698	217995.547	171.20	F142		
038	259684.448	217995.536	172.00	F143		
039	259686.198	217995.525	172.80	F144		
040	259687.948	217995.514	173.60	F145		
041	259689.698	217995.503	174.40	F146		
042	259691.448	217995.492	175.20	F147		
043	259693.198	217995.481	176.00	F148		
044	259694.948	217995.470	176.80	F149		
045	259696.698	217995.459	177.60	F150		
046	259698.448	217995.448	178.40	F151		
047	259700.198	217995.437	179.20	F152		
048	259701.948	217995.426	180.00	F153		
049	259703.698	217995.415	180.80	F154		
050	259705.448	217995.404	181.60	F155		
051	259707.198	217995.393	182.40	F156		
052	259708.948	217995.382	183.20	F157		
053	259710.698	217995.371	184.00	F158		
054	259712.448	217995.360	184.80	F159		
055	259714.198	217995.349	185.60	F160		
056	259715.948	217995.338	186.40	F161		
057	259717.698	217995.327	187.20	F162		
058	259719.448	217995.316	188.00	F163		
059	259721.198	217995.305	188.80	F164		
060	259722.948	217995.294	189.60	F165		
061	259724.698	217995.283	190.40	F166		
062	259726.448	217995.272	191.20	F167		
063	259728.198	217995.261	192.00	F168		
064	259729.948	217995.250	192.80	F169		
065	259731.698	217995.239	193.60	F170		
066	259733.448	217995.228	194.40	F171		
067	259735.198	217995.217	195.20	F172		
068	259736.948	217995.206	196.00	F173		
069	259738.698	217995.195	196.80	F174		
070	259740.448	217995.184	197.60	F175		
071	259742.198	217995.173	198.40	F176		
072	259743.948	217995.162	199.20	F177		
073	259745.698	217995.151	200.00	F178		
074	259747.448	217995.140	200.80	F179		
075	259749.198	217995.129	201.60	F180		
076	259750.948	217995.118	202.40	F181		
077	259752.698	217995.107	203.20	F182		
078	259754.448	217995.096	204.00	F183		
079	259756.198	217995.085	204.80	F184		
080	259757.948	217995.074	205.60	F185		
081	259759.698	217995.063	206.40	F186		
082	259761.448	217995.052	207.20	F187		
083	259763.198	217995.041	208.00	F188		
084	259764.948	217995.030	208.80	F189		
085	259766.698	217995.019	209.60	F190		
086	259768.448	217995.008	210.40	F191		
087	259770.198	217994.997	211.20	F192		
088	259771.948	217994.986	212.00	F193		
089	259773.698	217994.975	212.80	F194		
090	259775.448	217994.964	213.60	F195		
091	259777.198	217994.953	214.40	F196		
092	259778.948	217994.942	215.20	F197		
093	259780.698	217994.931	216.00	F198		
094	259782.448	217994.920	216.80	F199		
095	259784.198	217994.909	217.60	F200		

LEYENDA:

- ESTACION DE CONTROL HORIZONTAL
- PUNTO COLINDANCIA
- LINEA DE COLINDANCIA
- TORRE ELECTRICA EXISTENTE
- CONTORNO INTERVALOS DE UN (1.00) METRO
- CONTORNO INTERVALOS DE CINCO (5.00) METROS
- CAMINO EN TIERRA
- ESTRUCTURAS EN HORMIGON EXISTENTE (RESIDENCIAS)
- SUMIDERO LIXIVIADOS IDENTIFICADOS POR PERSONAL TERRATEX

NOTAS GENERALES:

- TODAS LAS DISTANCIAS EXCEPTO LAS INDICADAS SE HAN EXPRESADO EN EL SISTEMA METRICO.
- LA LOCALIZACION DE LOS PUNTOS SE HA HECHO CON UN MEDIDOR DE DISTANCIA ELECTRONICO TOTAL STATION "TOPCON" GTS 230 & COLECTOR DE DATOS NOMAD TRIMBLE.
- LA MENSURA SE REALIZO POR LOS PUNTOS DE COLINDANCIA EXISTENTES SUJETOS A CONFORMIDAD DE COLINDANTES Y POSIBLE RECTIFICACION.
- CONTORNOS A INTERVALOS DE UN (1.00) METRO.
- ESTA MENSURA Y TOPOGRAFIA SE LLEVA A CABO A PETICION DE TERRATEX ENGINEERING GROUP, PSC.
- EL SISTEMA HORIZONTAL ESTA REFERENCIADO A NAD-83 DE PUERTO RICO.
- SE UTILIZO EQUIPO DE POSICIONAMIENTO GPS GLOBAL ESTACION VIRTUAL (VRS). DATUM: NAD-83 (2011) EP GEODIG18RF.
- ESTE TRABAJO CUENTA CON EL APOYO DE FOTOGRAFIA A TRAVES DEL USO DE "DRONE".
- PARA LA PREPARACION DE ESTE PLANO SE UTILIZO DATA DEL PLANO CONFECCIONADO POR EL AGIMENSUROR JOSE M. COUVERTIER Y CERTIFICADO POR EL ING. EMILIO GUTIERREZ DEL ARROYO, LIC. #16.789. DEL MISMO SE UTILIZO DATOS TABLA DE MENSURA.

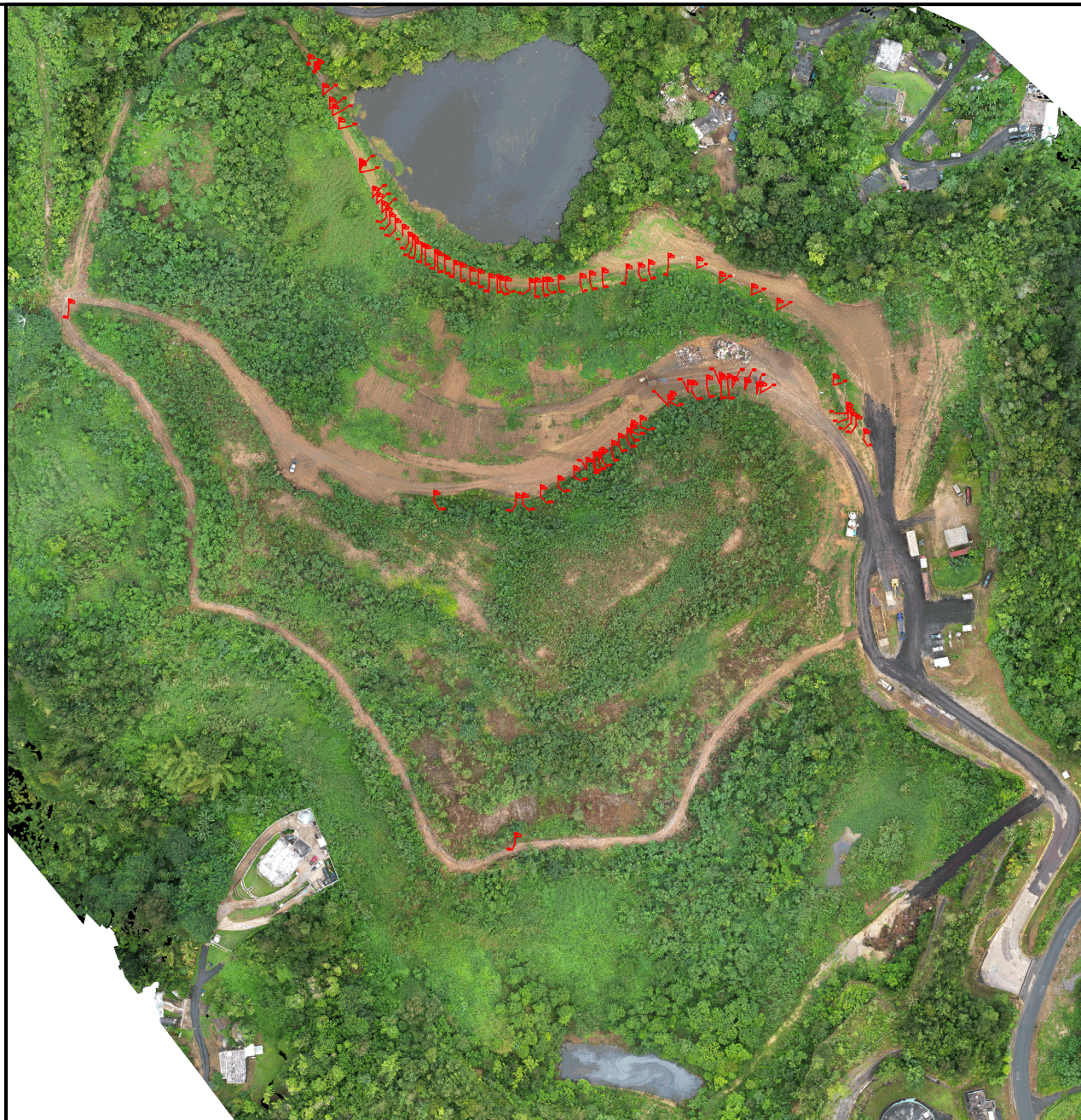
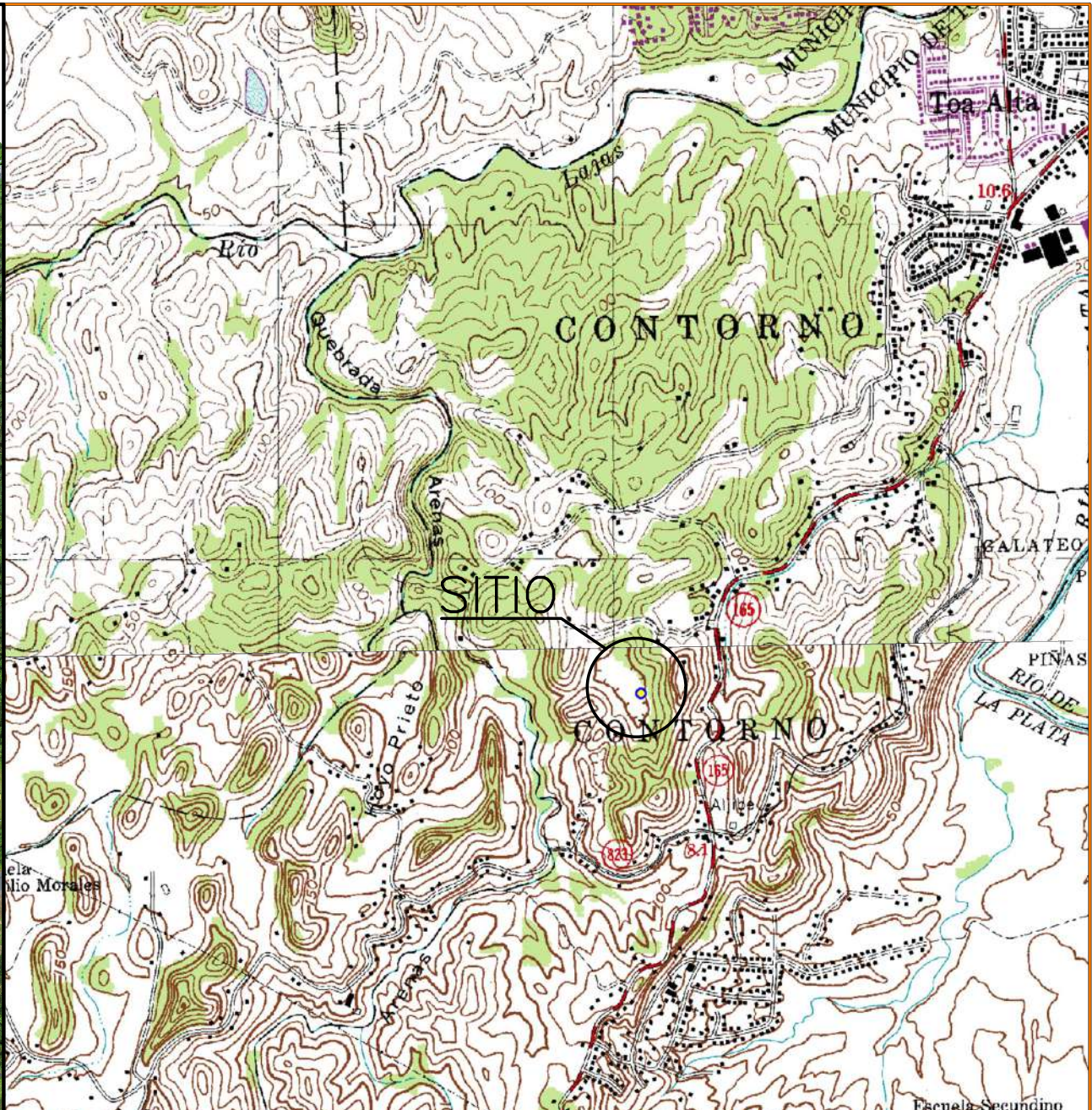


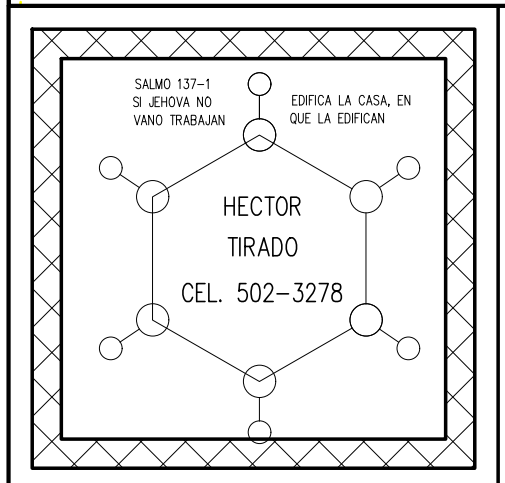
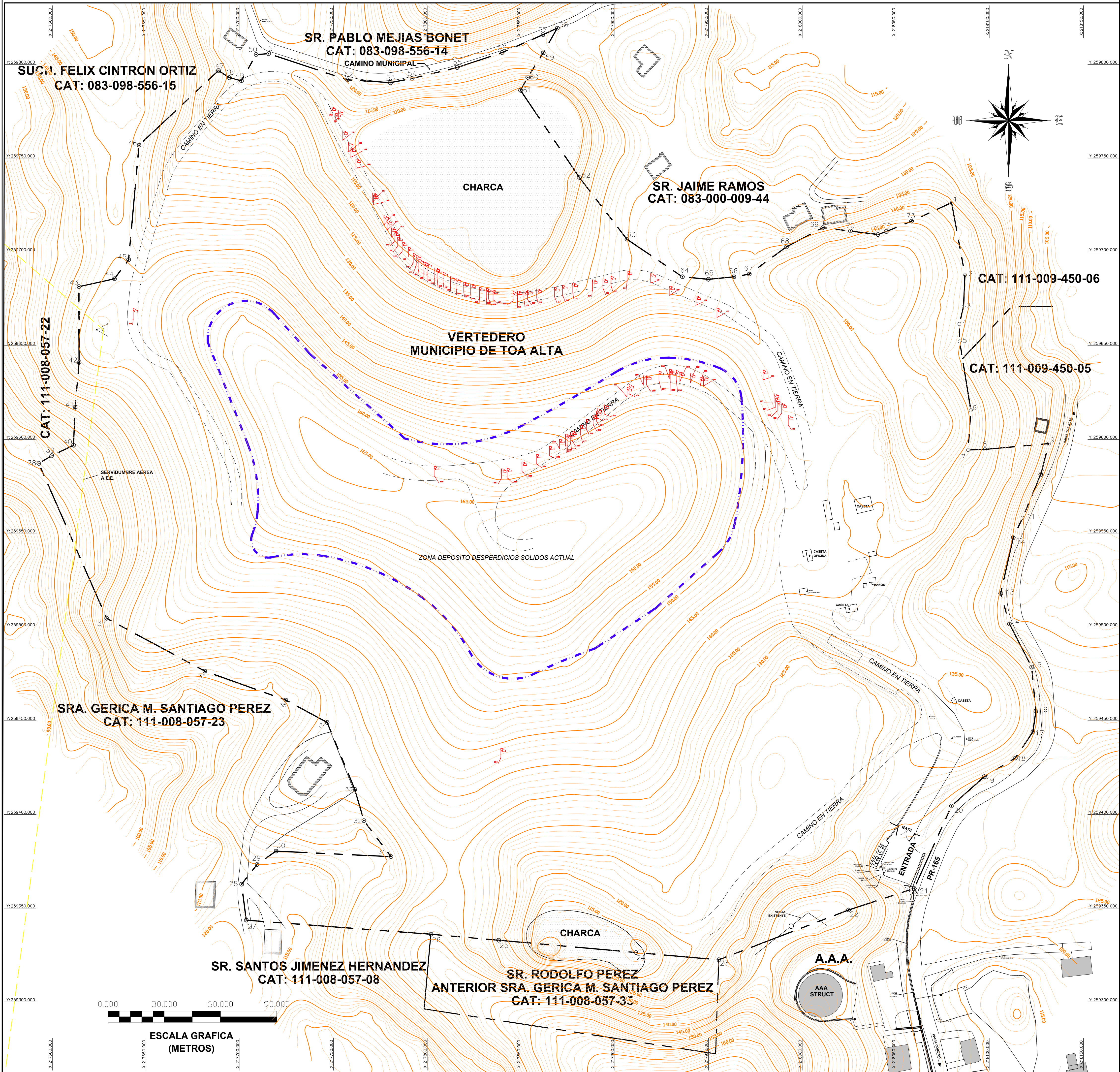
FOTO AÉREA (DRONE) N.T.S.



MAPA DE LOCALIZACION 1:20,000

CONDICIONES EXISTENTES PARA DICIEMBRE 17, 2022

COORD. LAMBERT NAD-83 X= 217,876.00 Y= 259,575.00



PLANO TOPOGRÁFICO "ASBUILT" CONDICIONES EXISTENTES
IDENTIFICACIÓN SUMIDEROS LIXIVIADOS EXISTENTES
 FINCA PROPIEDAD DEL MUNICIPIO DE TOA ALTA
 VERTEDERO RESIDUOS SÓLIDOS
 SITA: EN CARRETERA PR-165, KM. 9.0, Bo. MAMEY
 TOA ALTA, PUERTO RICO

CERTIFICO CORRECTO:
 HECTOR TIRADO RODRIGUEZ, P.E., R.P.A.
 INGENIERO CIVIL No. 12215

FECHA: DICIEMBRE 19, 2022
DIBUJADO POR: D. PASTRANA (3949)
ESCALA: 1: 1,000