DOCKETED	
Docket Number:	21-AFC-01
Project Title:	Pecho Energy Storage Center
TN #:	240712-26
Document Title:	Pecho Energy Center's Application for Certification-Appendices 5 15 A-C
Description:	N/A
Filer:	Chester Hong
Organization:	Golder
Submitter Role:	Applicant Consultant
Submission Date:	11/23/2021 4:49:00 PM
Docketed Date:	11/23/2021

APPENDIX 15.5-A

Hydrographs

Source: GSI Water Solutions, Inc. 2017. Assessment of the Hydrogeologic Characteristics of the Chorro Valley, Morro Bay, California. May

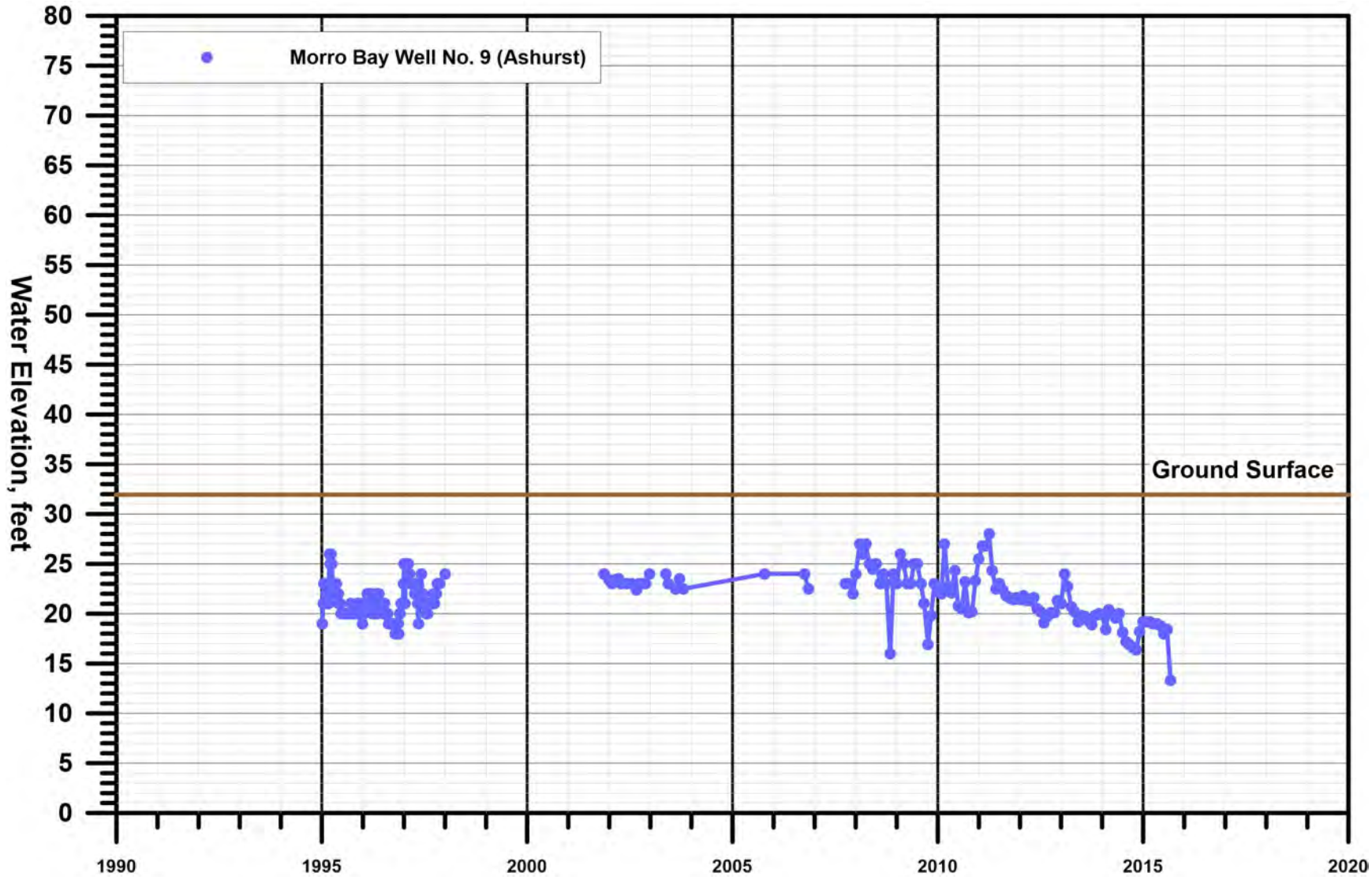


FIGURE 3

Ashurst Well No. 9 Hydrograph

Assessment of the Hydrogeologic Characteristics of the Chorro Valley

Morro Bay, California

GSI Water Solutions, Inc.

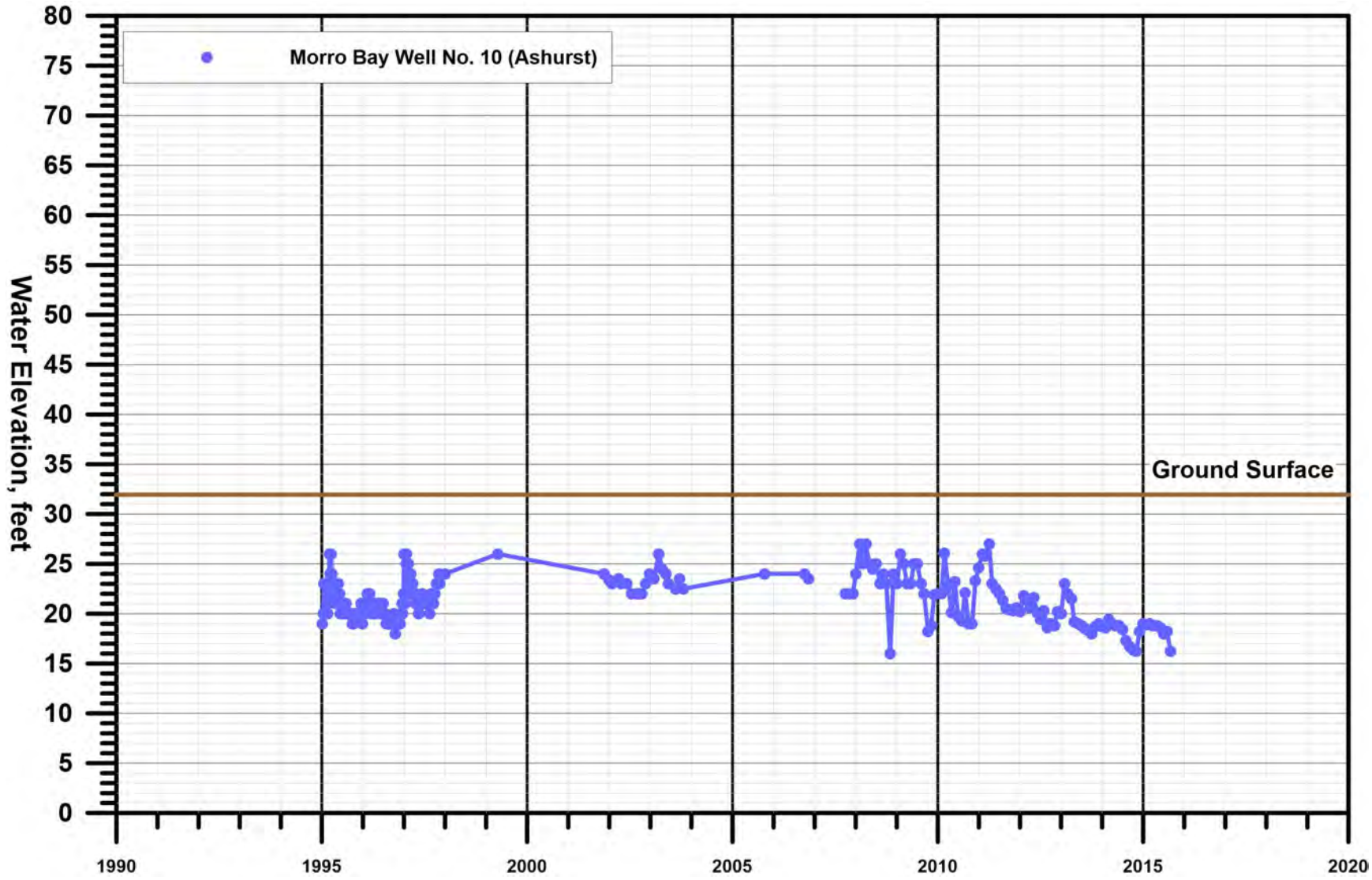


FIGURE 4

Ashurst Well No. 10 Hydrograph

Assessment of the Hydrogeologic Characteristics of the Chorro Valley

Morro Bay, California

GSI Water Solutions, Inc.

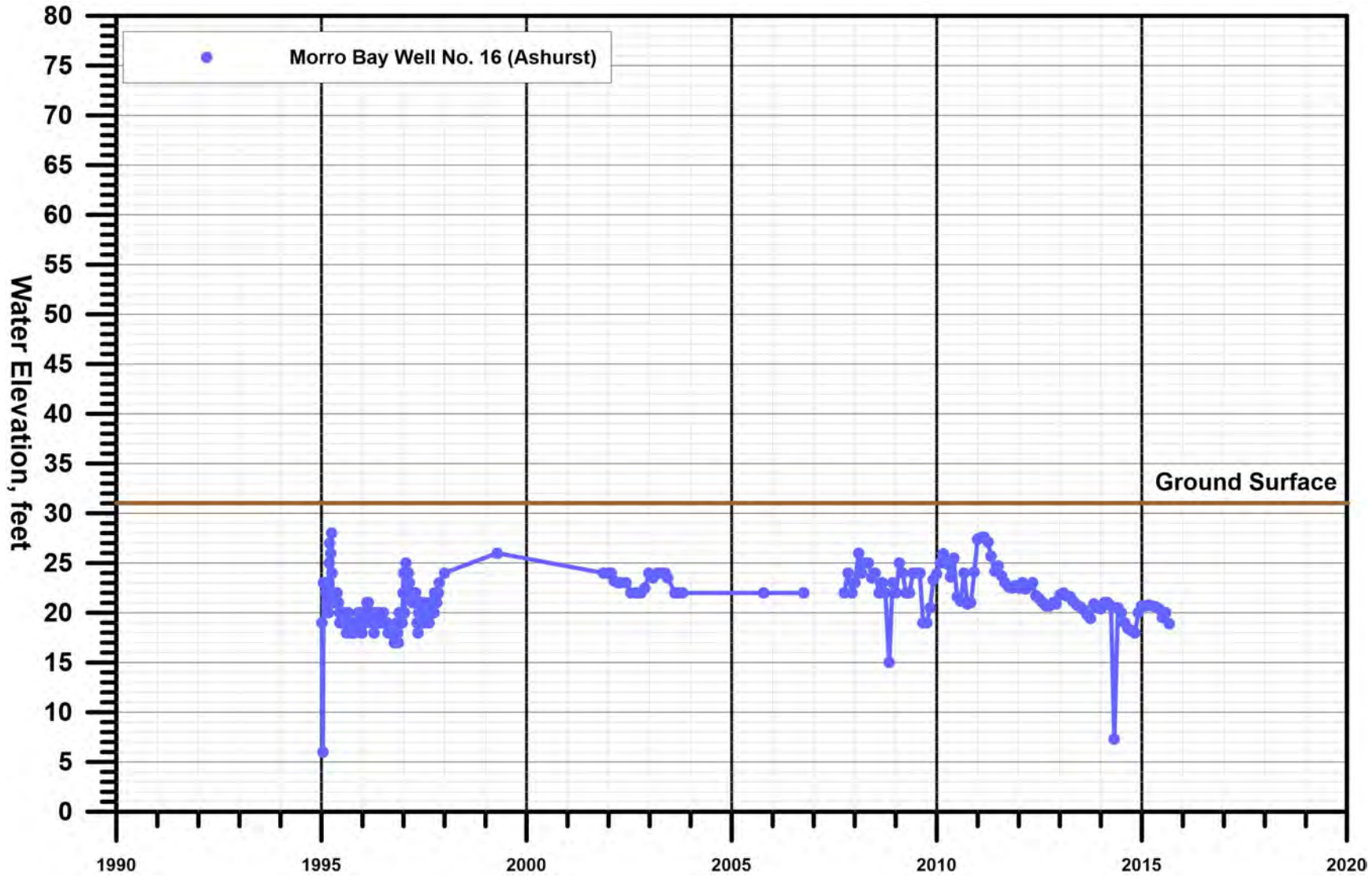


FIGURE 5

Ashurst Well No. 16 Hydrograph

Assessment of the Hydrogeologic Characteristics of the Chorro Valley

Morro Bay, California

GSI Water Solutions, Inc.

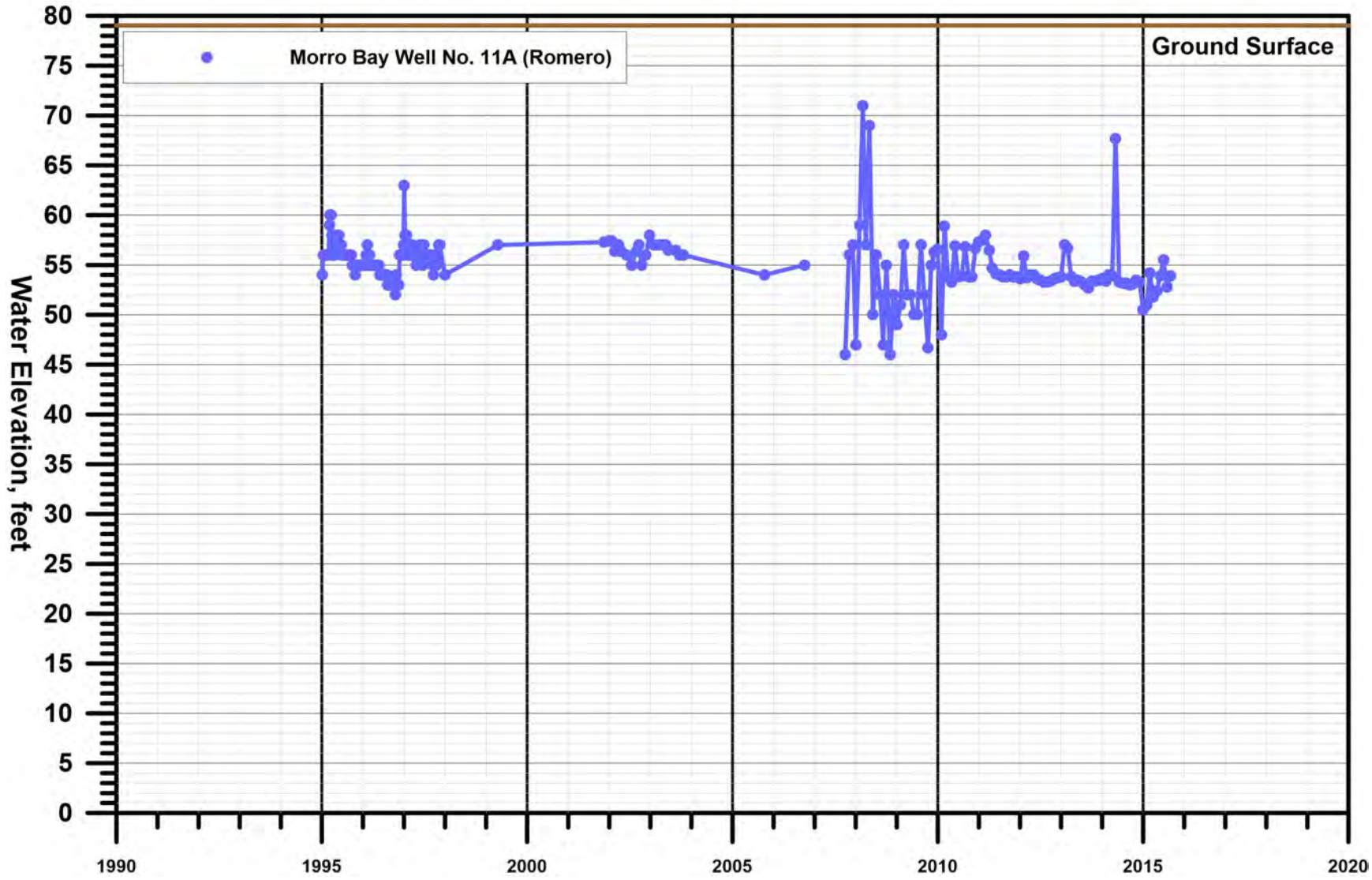


FIGURE 6

Romero Well No. 11A Hydrograph

Assessment of the Hydrogeologic Characteristics of the Chorro Valley

Morro Bay, California

GSI Water Solutions, Inc.

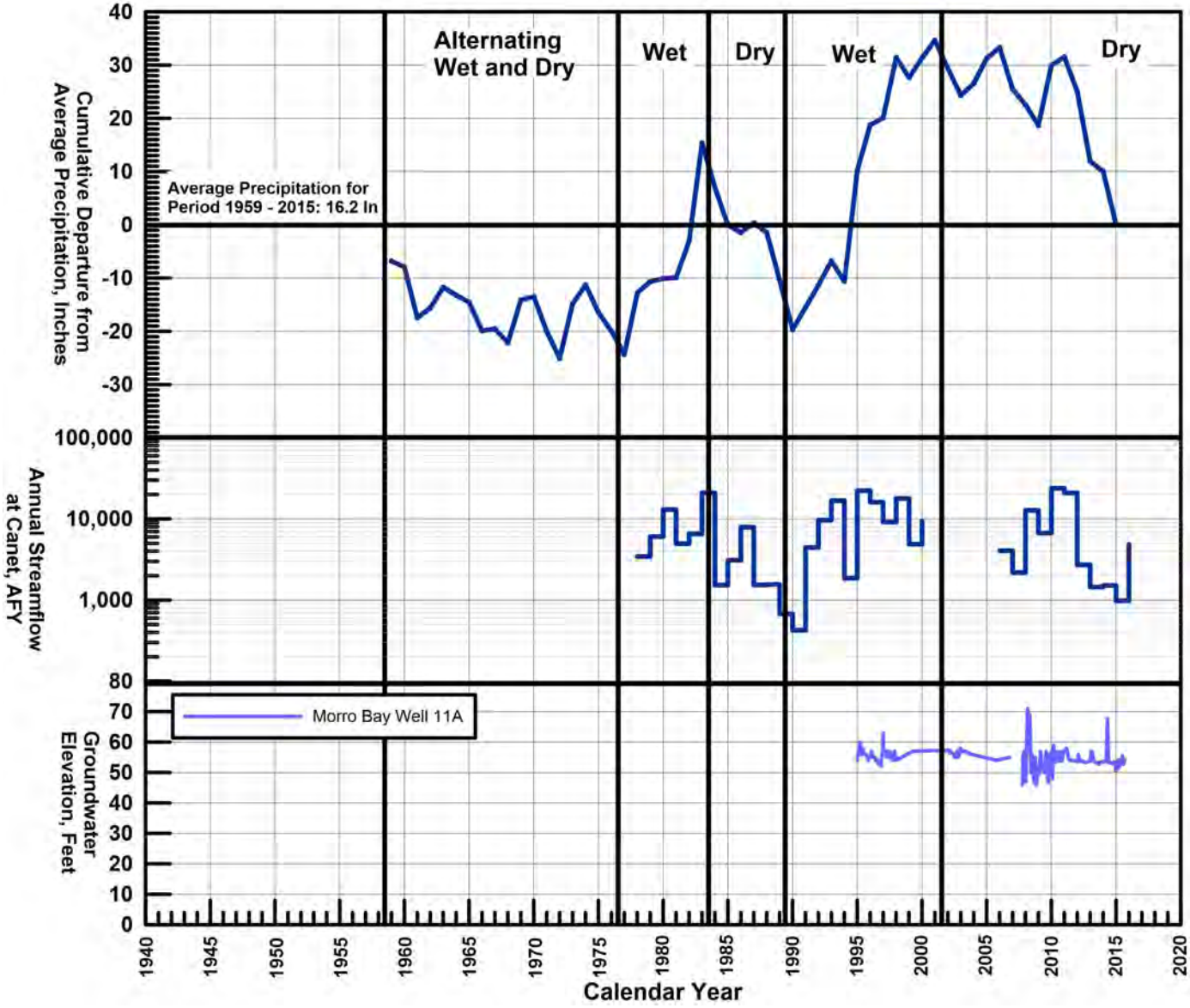


FIGURE 7

Precipitation, Streamflow and Romero Well No. 11A Hydrograph

Assessment of the Hydrogeologic Characteristics of the Chorro Valley

Morro Bay, California

GSI Water Solutions, Inc.

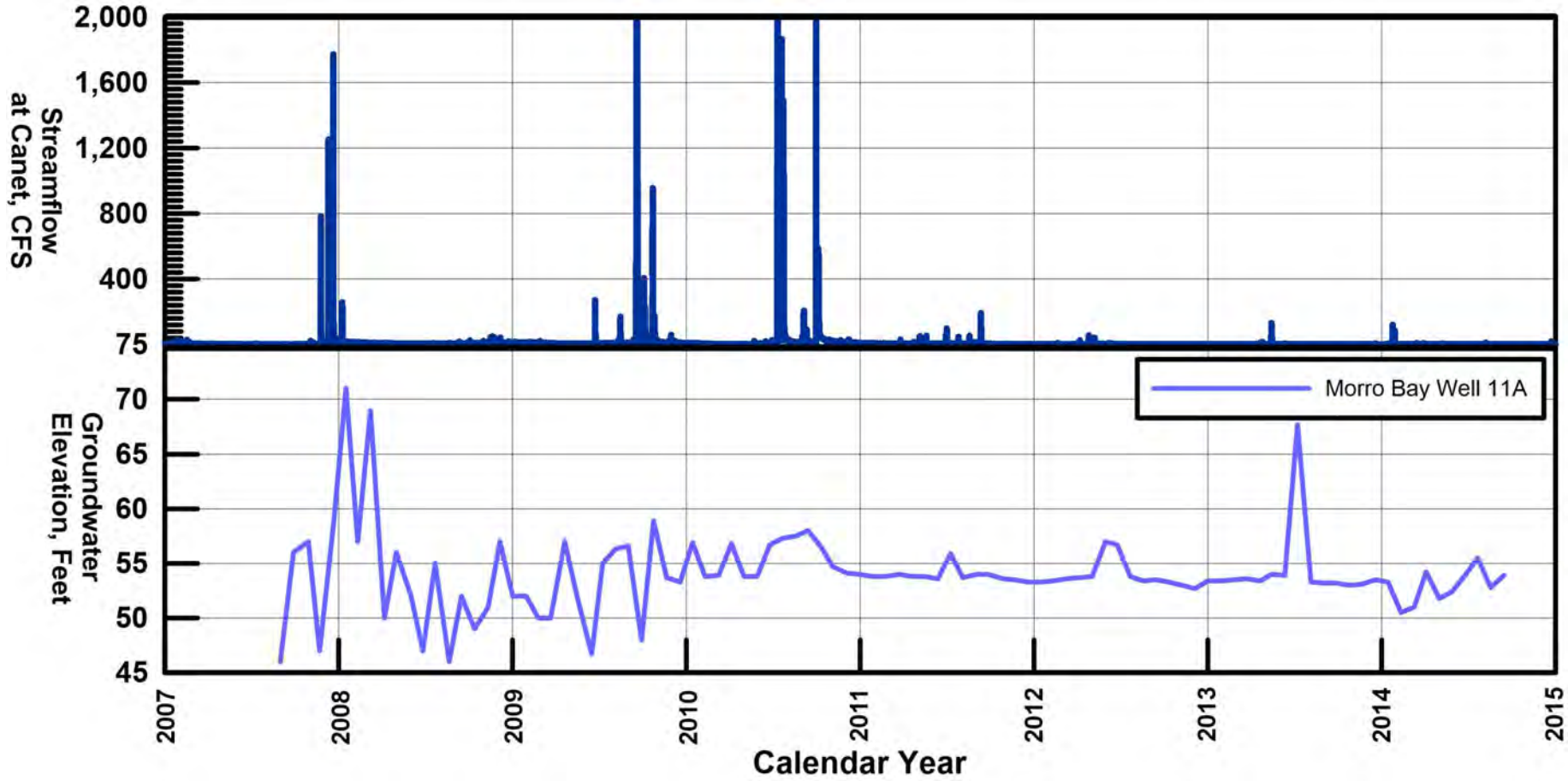


FIGURE 8

Daily Streamflow and Romero Well No. 11A Hydrograph

Assessment of the Hydrogeologic Characteristics of the Chorro Valley

Morro Bay, California

GSI Water Solutions, Inc.

APPENDIX 15.5B

Grading and Drainage Plan, Stormwater Basin Design Drawings and Supporting Calculations

EMPOWERING EPCM

Stormwater Pond Calculations

Calculation Title:	Project	Calculation No:	
Pecho Storm Runoff Calculations	Pecho Energy Storage Center	21-5375-00-3338-002	
	Client		
	Hydrostor	**Rev.**	C
	Project No.	**Date**	
	21-5375	July 30, 2021	

Note: *Proposed site will not produce any discharge to the environment. (Zero Discharge)*

Storm Management:

1- Upstream lands: Site will be separated from other lands by a proposed soil berm surrounding entire site. Upstream storm runoff will be directed to the Chorro Creek (the current discharge point / pre-construction) through existing creek at south of the site or by creating new ditch along the soil berm and direct the storm runoff to the Chorro Creek

2- Storm within the site except the Reservoir: The proposed grading will create slope towards 2 stormwater ponds (retention pond with no discharge system). The ponds will not have discharge to the environment part of regular life cycle except for an emergency situation which makes unexpected overflow. Ponds will be equipped with overflow discharge culvert with a manual gate valve (always in closed position) and with a sediment control system. Overflow culverts will discharge the clean stormwater to the Chorro Creek. The overflow discharge point will have erosion control design (Rip Rap or similar).
The stormwater inside the pond will be evaporated or pumped to the reservoir (it is assumed that the water inside the pond is clean water since there is no source of contamination within the site).

3-Reservoir: The reservoir will be covered. The cover will drain to a filter/pump house for cleaning. After the storm water is filtered, it will be pumped back into the reservoir. The stormwater within the reservoir will not discharge to the ponds.
The reservoir working volume is 484,000 cu.m. The current capacity of the reservoir is about 600,00 cu.m excluding 4ft of free board. The volume within the free board is more than 80,000 cu.m. Therefore the reservoir has capacity of holding much more than the required working volume. In case of any unforeseen/emergency situation, there will be emergency overflow discharge which will drain to the ponds and if the ponds are full, the overflow will be discharged to the Chorro Creek.

Reference Standard

County of San Luis Obispo Public Improvement Standards, Department of Public Works, July 2019

Data	Reference data
Runoff Coefficient	Table 1: Rational Method Standard Runoff Coefficients For Developed Areas Hydrology Runoff Coefficient - developed (Drawing No. H3)
Rainfall Intensity	Table 3 Annual rainfall 18" to 21" Hydrology Rainfall Intensity (Drawing No. H-4)

Service	Runoff Coefficient	Remarks
Hard Services	0.95	Buildings and Structures
Loose Gravel (Rip Rap)	0.5	For Sloped Embankment of the Reservoir (*)
Gravel Paved	0.55	For all areas inside the plant except buildings, structures and the reservoir (*)
Ponds and Reservoir	1	

(*) The Reservoir outer embankment slope will be partially covered with Rip Rap and the remainder grassed. The unfinished area of the plant also will be covered with one layer of topsoil.
The Storm Runoff volume with above assumptions will be more than the expected actual condition

Intensity:

Based on 19" Annual rainfall and SLO Hydrology Rainfall Intensity (Drawing No. H-4), for a 50-year storm, 10-hrs intensity for 10 hrs duration, the intensity is 0.58 inches per hour or 5.8 inches for 10 hours

Area Measurements

Total Land	327,000.00	m^2	391,088.75	yd^2	Approximate Area, No Survey info Available
Footprint of Reservoir	106,250.00	m^2	127,073.94	yd^2	(outer perimeter)
Inside of the Reservoir	73,234.00	m^2	87,587.14	yd^2	Drain to the Reservoir

EMPOWERING EPCM

Stormwater Pond Calculations

Calculation Title:	Project	Calculation No:
Pecho Storm Runoff Calculations	Pecho Energy Storage Center	21-5375-00-3338-002
	Client	
	Hydrostor	**Rev.** C
	Project No.	**Date**
	21-5375	July 30, 2021

Reservoir Outside	33,016.00	m^2	39,486.81	yd^2	Drain to the ponds
Total Hard Surface	75,450.00	m^2	90,237.45	yd^2	Drain to the ponds
Gravel Paved Area	91,084.00	m^2	108,935.56	yd^2	Drain to the ponds
Ponds Footprint	21,200.00	m^2	25,354.99	yd^2	Drain to the ponds

Total Area other than the Reservoir 220,750.00

Volume calculation

Area	A (m^2)	Runoff Coefficient C	50 Yrs. - 10 hrs Intensity - 10 hrs Duration.(mm) - R-	VOLUME OF 50 yr. - 10 h RAINFALL V = C * R * A (m3)
Hard Surface	75,450.00	0.95	148	10,608.27
Rip Rap	33,016.00	0.5	148	2,443.18
Gravel paved	91,084.00	0.55	148	7,414.24
Pond	21,200.00	1	148	3,137.60
Total	220,750.00			**23,603.29**

Total Volume of Rain Runoff drains to the ponds will be 23,600 cu.m/30,868 Cu.yd.

EMPOWERING EPCM

Stormwater Pond Calculations

Calculation Title:	Project	Calculation No:	
Pecho Storm Runoff Calculations	Pecho Energy Storage Center	21-5375-00-3338-002	
	Client		
	Hydrostor	**Rev.**	C
	Project No.	**Date**	
	21-5375	July 30, 2021	

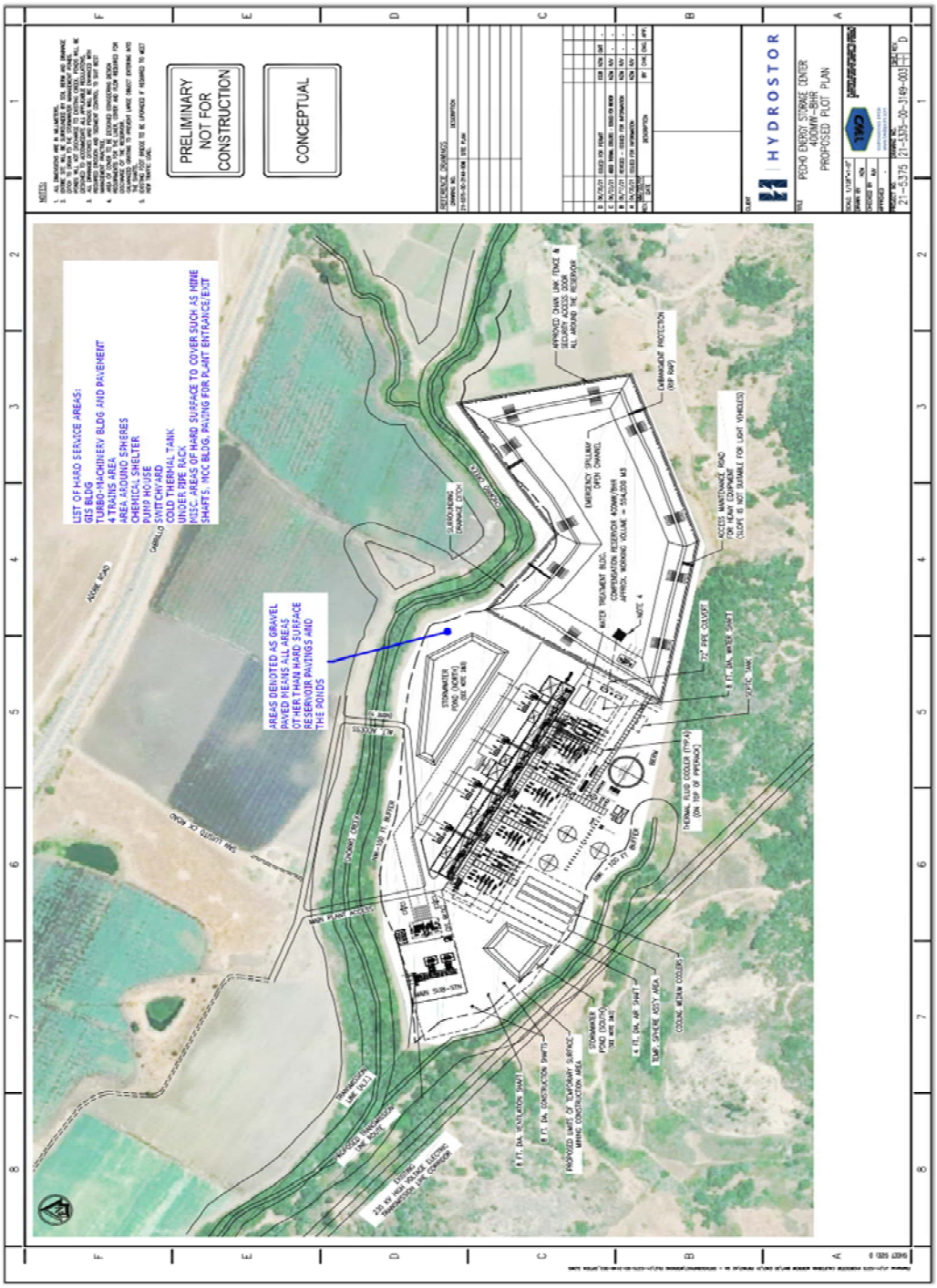


Fig 1 - Plot Plan

EMPOWERING EPCM

Stormwater Pond Calculations

Calculation Title:	Project	Calculation No:	
Pecho Storm Runoff Calculations	Pecho Energy Storage Center	21-5375-00-3338-002	
	Client		
	Hydrostor	**Rev.**	C
	Project No.	**Date**	
	21-5375	July 30, 2021	

In order to avoid very long run open ditches and also to provide a pond adjacent to the proposed mining area, the SWM retention basin is divided into two smaller ponds at either sides of the Turbomachinery Building

South Pond

Assumptions:

Slope	4 to 1				
Height	9 ft				
Freeboard	3 ft				

Calculations:

A1 - Bottom	24,770.00	sq. ft	Based on a conceptual plot plan		
A2 - Top	42,385.00	sq. ft			
A1xA2	1,049,876,450.00				
(A1xA2)^0.5	32,401.80				
A1+A2+(A1xA2)^0.5	99,556.80				
h/3	2	ft = (9.0ft -3.0ft)/3			
V=h/3 x [A1+A2+(A1xA2)^0.5]	199,113.59	Cu.ft		7,374.58	Cu.yd

North Pond

Assumptions:

Slope	4 to 1				
Height	9 ft				
Freeboard	3 ft				

Calculations:

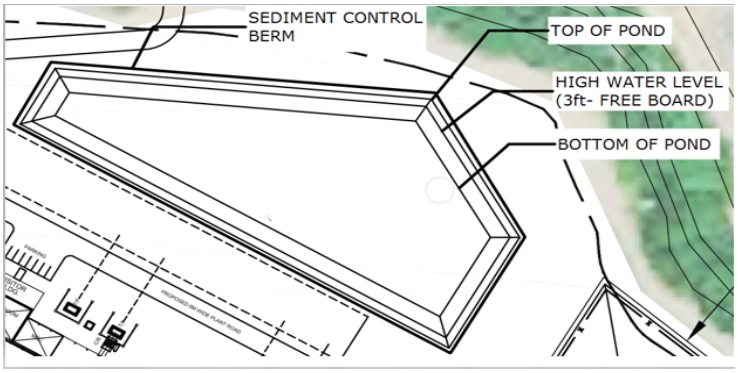
A1 - Bottom	100,167.00	sq. ft	Based on a conceptual plot plan		
A2 - Top	138,670.00	sq. ft			
A1xA2	13,890,157,890.00				
(A1xA2)^0.5	117,856.51				
A1+A2+(A1xA2)^0.5	356,693.51				
h/3	2	ft = (9.0ft -3.0ft)/3			
V=h/3 x [A1+A2+(A1xA2)^0.5]	713,387.03	Cu.ft		26,421.74	Cu.yd

Sum of North Pond and South Pond	912,500.62	Cu.ft		33,796.32	Cu.yd	
Volume of a 50-year storm, 10-hrs intensity for 10 hrs duration				23,600.00	cu.m	30,868.00 Cu.yd
Sum of North Pond and South Pond > Volume of a 50-year storm, 10-hrs intensity for 10 hrs duration			"OK"			

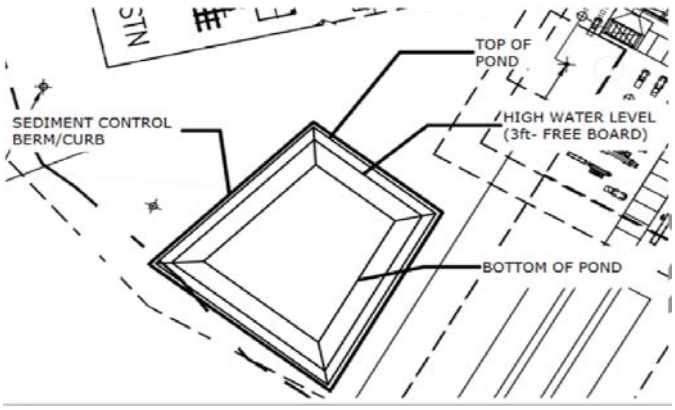
EMPOWERING EPCM

Stormwater Pond Calculations

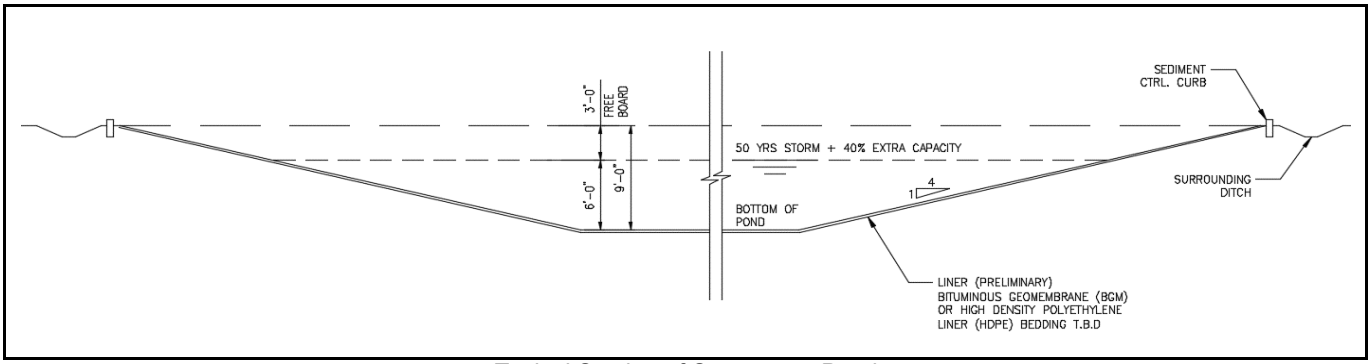
Calculation Title:	Project	Calculation No:	
Pecho Storm Runoff Calculations	Pecho Energy Storage Center	21-5375-00-3338-002	
	Client		
	Hydrostor	**Rev.**	C
	Project No.	**Date**	
	21-5375	July 30, 2021	



Stormwater Pond - North Pond - Plan



Stormwater Pond - South Pond - Plan



Typical Section of Stormwater Pond

EMPOWERING EPCM

Calculation Cover Page

Calculation Title:	Project	Calculation No:	
Reservoir Volume Calculation - 400MW-8hrs	Pecho Energy Storage center	21-5375-00-3338-001	
	Client		
	Hydrostor	**Rev.**	C
	Project No.	**Date**	
	21-5375	July 28, 2021	

Assumptions:

Reservoir is built in a Flat Terrain
Groundwater below bottom of the reservoir
Bottom of Reservoir is sloped towards the trash rack
Free Board = 4ft (Normal free board for fetch <1 mile and wind speed of 100 miles per hour. Bureau of Reclamation, Design Standard No. 13, Chapter 6, Table B-1)
Soil Stability was not reviewed
This is an initial estimation, no detail design, no structural or stability study
No Ice volume considered
No Evaporation considered
Lining will be HDPE or Similar
Berm fill slope and excavation slope 2H:1V
Although the Reservoir has extra capacity than the working volume and also accommodated with 4ft free board, however it is not designed for entire site stormwater management. The storm over the reservoir cover, after screening and treatment (if required) will be discharged in to the reservoir
In case of any accidental overflow, the overflow water, will drain to the nearest SW pond, and if the pond does not have capacity, it will over flow into the adjacent creek.

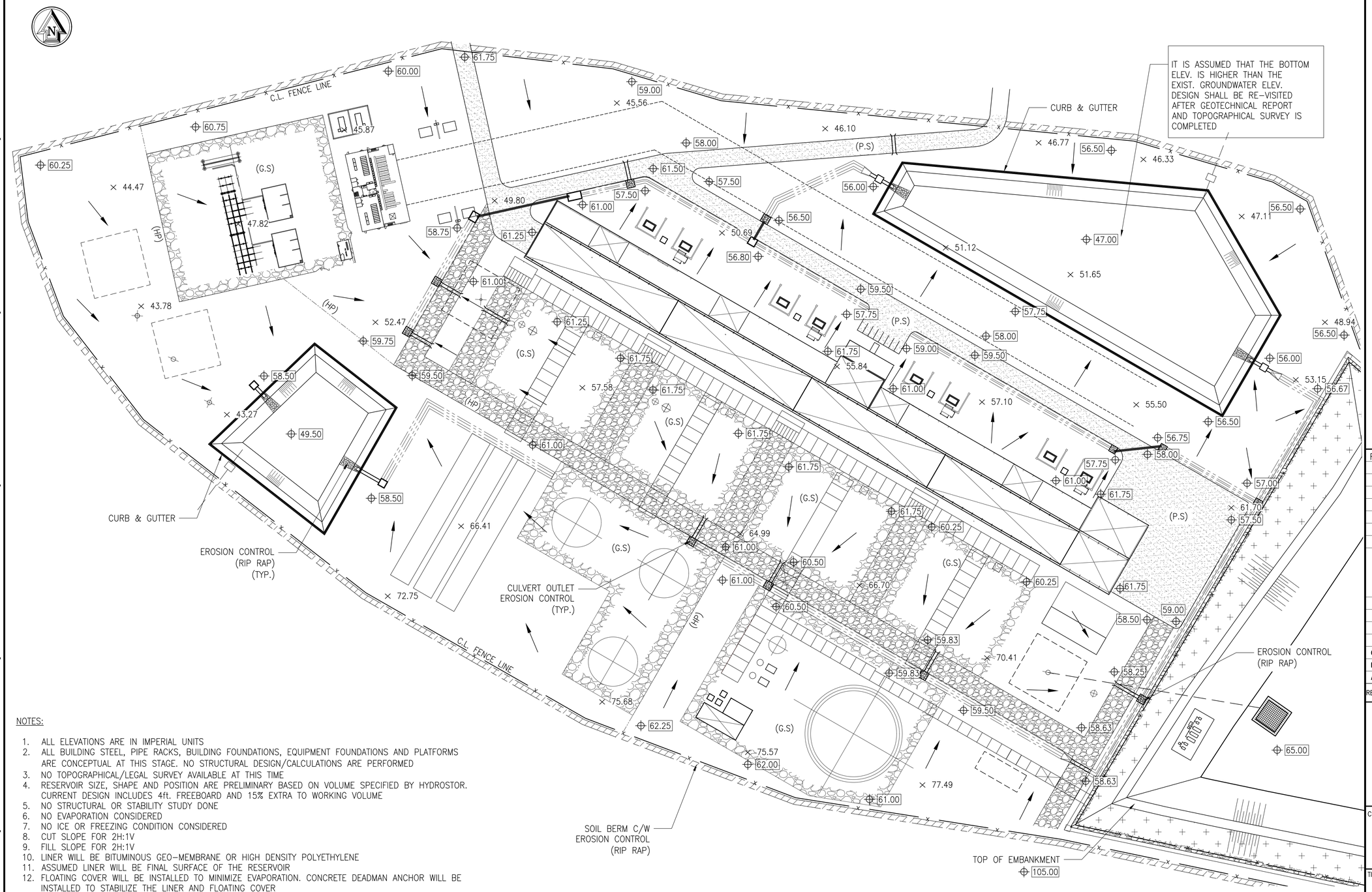
Data Input (from Hydrostor)	Unit	400MW / 8hr
Compensation water volume (active reservoir volume)	m^3	484,800
Cold thermal fluid volume	m^3	34,720
Hot thermal Fluid volume	m^3	39,840
Compensation water volume including 15% Additional Volume	**557,520.00 cu.m**	**729,208.63 Cu.yd**

Reservoir Bottom width	(Irregular Shape)	See sketch # 21-5375-00-3349-004		
Reservoir Bottom Length	(Irregular Shape)	See sketch # 21-5375-00-3349-004		
Area of Bottom (A1)	463,842.00	sq. ft	43,092.40	sq.m
Excavation Slope (nH to mV)	2 to1			
Reservoir height (excluding 4ft of free board)		36 ft	10.97	m
Area at Free Board (4ft below top of berm)			721,874.00 sq. ft	67,064.00 sq.m

Calculations:

A1	463,842.73		43,092.40	sq.m
A2	721,870.89		67,064.00	sq.m
A1xA2			2889948714	
(A1xA2)^0.5			53758.24322	
(A1+A2+(A1xA2)^0.5			163,914.64	
h/3	12.01	ft	3.66	m
Volume of reservoir at excavation V=h/3 x (A1+A2+(A1xA2)^0.5	784,675.67	Cu.yd	599,927.59	cu.m
Total Volume of Reservoir	**784,675.67**	**Cu.yd**	**599,927.59**	**cu.m**

When the Reservoir is filled up to the bottom of free board, there will be approximately 3 ft buffer after design volume (working volume+15%) is completely discharged. For Absolute working volume, the buffer height is approximately 8 ft



NOTES:

1. ALL ELEVATIONS ARE IN IMPERIAL UNITS
2. ALL BUILDING STEEL, PIPE RACKS, BUILDING FOUNDATIONS, EQUIPMENT FOUNDATIONS AND PLATFORMS ARE CONCEPTUAL AT THIS STAGE. NO STRUCTURAL DESIGN/CALCULATIONS ARE PERFORMED
3. NO TOPOGRAPHICAL/LEGAL SURVEY AVAILABLE AT THIS TIME
4. RESERVOIR SIZE, SHAPE AND POSITION ARE PRELIMINARY BASED ON VOLUME SPECIFIED BY HYDROSTOR. CURRENT DESIGN INCLUDES 4ft. FREEBOARD AND 15% EXTRA TO WORKING VOLUME
5. NO STRUCTURAL OR STABILITY STUDY DONE
6. NO EVAPORATION CONSIDERED
7. NO ICE OR FREEZING CONDITION CONSIDERED
8. CUT SLOPE FOR 2H:1V
9. FILL SLOPE FOR 2H:1V
10. LINER WILL BE BITUMINOUS GEO-MEMBRANE OR HIGH DENSITY POLYETHYLENE
11. ASSUMED LINER WILL BE FINAL SURFACE OF THE RESERVOIR
12. FLOATING COVER WILL BE INSTALLED TO MINIMIZE EVAPORATION. CONCRETE DEADMAN ANCHOR WILL BE INSTALLED TO STABILIZE THE LINER AND FLOATING COVER
13. TOP WIDTH OF RESERVOIR EMBANKMENT IS 13ft. FOR HEAVY EQUIPMENT ACCESS
14. NO LIGHT VEHICLE ACCESS WILL BE REQUIRED TO TOP OF THE RESERVOIR EMBANKMENT
15. ONLY 2 EMERGENCY SPILLWAY CONSIDERED AT THIS STAGE OF DESIGN FOR EACH RESERVOIR
16. RESERVOIR OUTER EMBANKMENTS SLOPE WILL BE COVERED BY RIP RAP (BOTTOM 10ft.) AND THE REST WILL BE COVERED BY TOPSOIL AND HYDRO SEEDED
17. ASSUMED RESERVOIR IS CONSIDERED A DAM ACCORDING TO DSOD REQUIREMENTS
18. STORMWATER INSIDE THE RESERVOIR (TOP OF THE FLOATING COVER) WILL BE TREATED (IF REQUIRED) AND PUMPED BACK TO THE RESERVOIR
19. A COMPREHENSIVE GEO-TECHNICAL INVESTIGATION SHALL BE COMPLETED PRIOR TO ENGINEERING DESIGN PHASE

EXIST. GRADE ELEVATIONS ARE EXTRACTED FROM AUTODESK INFRAWORKS 360.

PRELIMINARY
NOT FOR
CONSTRUCTION

CONCEPTUAL

ABBREVIATION:

P.S	PAVED SURFACE
G.S	GRAVEL SURFACE
H.P	HIGH POINT
C.L	CENTER LINE

LEGEND:

DITCH/SWALE	
FENCE	
RIP RAP	
SLOPE DIRECTION	
EXISTING GRADE ELEV.	× 50.80
DESIGN GRADE ELEV.	⊕ 50.86
PAVED SURFACE (ASPHALT)	
GRAVEL SURFACE	
GRAVEL PAVED	

REFERENCE DRAWINGS

DRAWING NO.	DESCRIPTION

REV.	MM/DD/YY DATE	DESCRIPTION	BY	CHK.	ENG.	APP.
C	07/29/21	ISSUED FOR PERMIT	GKW	KVS	NSM	
B	07/20/21	ISSUED FOR REVIEW	GKW	KVS	NSM	
A	07/16/21	ISSUED FOR SQUAD CHECK	GKW	KVS	NSM	

CLIENT

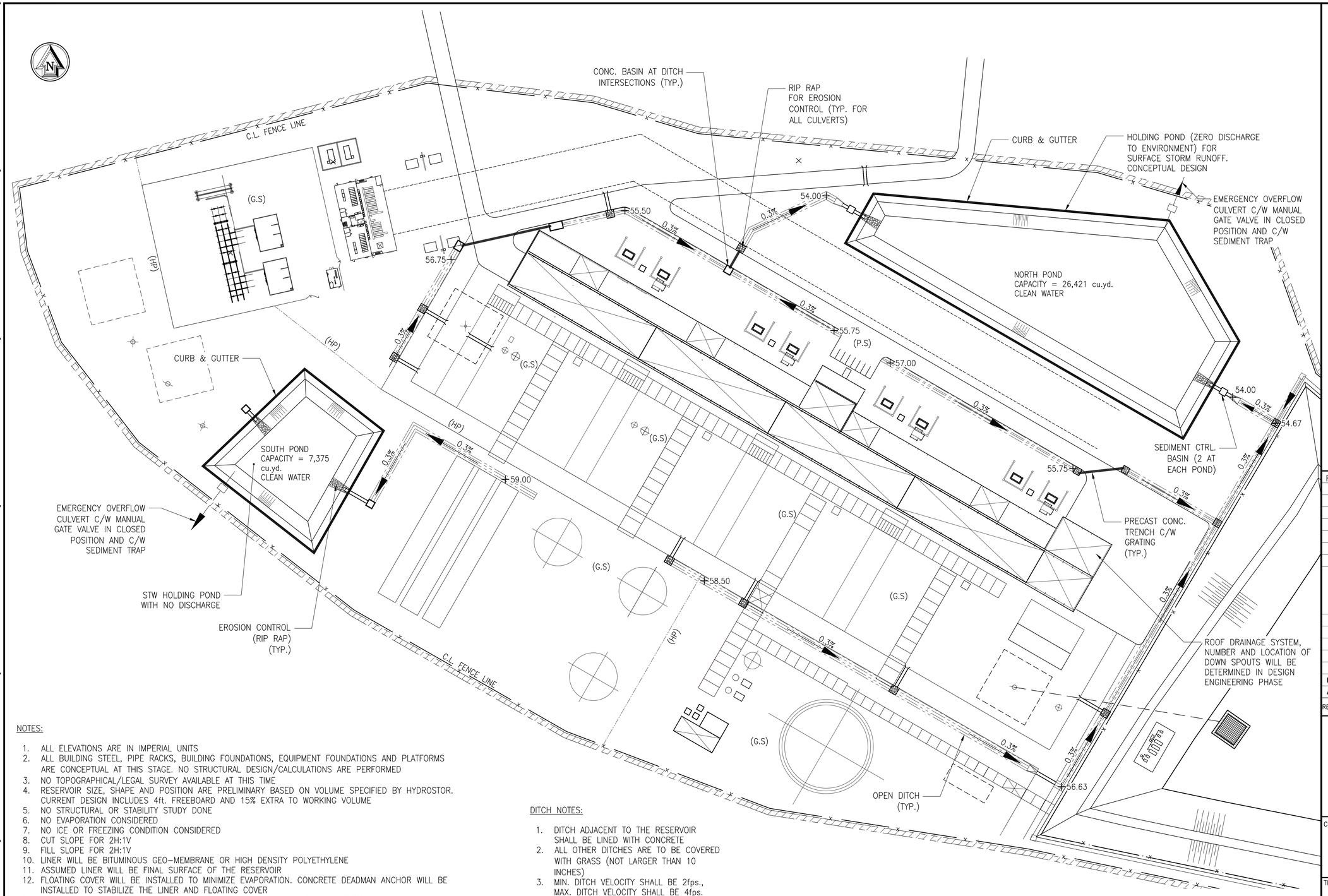
HYDROSTOR

TITLE PECHO ENERGY STORAGE CENTER
400MW-8HR
GRADING PLAN

SCALE:	NTS
DRAWN BY	GKW
CHECKED BY	KVS
APPROVED	NSM

EMPOWERING EPCM
www.twdepcm.com

PROJECT NO.	DRAWING NO.	SHT.	REV.
21-5375	21-5375-00-3341-004	1/1	C



NOTES:

1. ALL ELEVATIONS ARE IN IMPERIAL UNITS
2. ALL BUILDING STEEL, PIPE RACKS, BUILDING FOUNDATIONS, EQUIPMENT FOUNDATIONS AND PLATFORMS ARE CONCEPTUAL AT THIS STAGE. NO STRUCTURAL DESIGN/CALCULATIONS ARE PERFORMED
3. NO TOPOGRAPHICAL/LEGAL SURVEY AVAILABLE AT THIS TIME
4. RESERVOIR SIZE, SHAPE AND POSITION ARE PRELIMINARY BASED ON VOLUME SPECIFIED BY HYDROSTOR. CURRENT DESIGN INCLUDES 4ft. FREEBOARD AND 15% EXTRA TO WORKING VOLUME
5. NO STRUCTURAL OR STABILITY STUDY DONE
6. NO EVAPORATION CONSIDERED
7. NO ICE OR FREEZING CONDITION CONSIDERED
8. CUT SLOPE FOR 2H:1V
9. FILL SLOPE FOR 2H:1V
10. LINER WILL BE BITUMINOUS GEO-MEMBRANE OR HIGH DENSITY POLYETHYLENE
11. ASSUMED LINER WILL BE FINAL SURFACE OF THE RESERVOIR
12. FLOATING COVER WILL BE INSTALLED TO MINIMIZE EVAPORATION. CONCRETE DEADMAN ANCHOR WILL BE INSTALLED TO STABILIZE THE LINER AND FLOATING COVER
13. TOP WIDTH OF RESERVOIR EMBANKMENT IS 13ft. FOR HEAVY EQUIPMENT ACCESS
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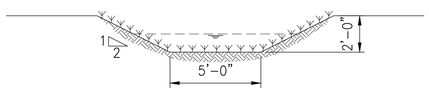
17. ASSUMED RESERVOIR IS CONSIDERED A DAM ACCORDING TO DSOD REQUIREMENTS
18. STORMWATER INSIDE THE RESERVOIR (TOP OF THE FLOATING COVER) WILL BE TREATED (IF REQUIRED) AND PUMPED BACK TO THE RESERVOIR
19. A COMPREHENSIVE GEO-TECHNICAL INVESTIGATION SHALL BE COMPLETED PRIOR TO ENGINEERING DESIGN PHASE

DITCH NOTES:

1. DITCH ADJACENT TO THE RESERVOIR SHALL BE LINED WITH CONCRETE
2. ALL OTHER DITCHES ARE TO BE COVERED WITH GRASS (NOT LARGER THAN 10 INCHES)
3. MIN. DITCH VELOCITY SHALL BE 2fps., MAX. DITCH VELOCITY SHALL BE 4fps.
4. FREE BOARD SHALL BE 1ft.
5. DITCH SIDE SLOPE SHALL BE 2H:1V



TYPICAL DITCH DETAIL

EXIST. GRADE ELEVATIONS ARE EXTRACTED FROM AUTODESK INFRAWORKS 360.

PRELIMINARY NOT FOR CONSTRUCTION

CONCEPTUAL

ABBREVIATION:

P.S	PAVED SURFACE
G.S	GRAVEL SURFACE
H.P	HIGH POINT
C.L	CENTER LINE

LEGEND:

CULVERT
DITCH/SWALE
FENCE
RIP RAP
SLOPE DIRECTION
DESIGN ELEVATION AT CENTRE OF DITCH/SWALE + 50.80
PAVED SURFACE (ASPHALT)
GRAVEL SURFACE
GRAVEL PAVED

REFERENCE DRAWINGS

DRAWING NO.	DESCRIPTION

REV.	DATE	DESCRIPTION	BY	CHK.	ENG.	APP.
B	07/29/21	ISSUED FOR PERMIT	GKW	KVS	NSM	
A	07/20/21	ISSUED FOR REVIEW	GKW	KVS	NSM	

CLIENT

HYDROSTOR

TITLE PECHO ENERGY STORAGE CENTER
400MW-8HR
STORMWATER DRAINAGE PLAN

SCALE: NTS	
DRAWN BY	GKW
CHECKED BY	KVS
APPROVED	NSM

EMPOWERING EPCM
www.twdepcm.com

PROJECT NO.	DRAWING NO.	SHT.	REV.
21-5375	21-5375-00-3341-005	1/1	B

FileName: J:\21-5375 HYDROSTOR CALIFORNIA MORROW BAY\30 ENG\33 CIVIL\41 SITE PREP\21-5375-00-3341-005.DWG
SHEET SIZE: D

APPENDIX 5.15C

County Well Permit Application Forms

COUNTY OF SAN LUIS OBISPO HEALTH AGENCY
ENVIRONMENTAL HEALTH SERVICES DIVISION
2156 Sierra Way STE. B, San Luis Obispo, CA 93401
PO Box 1489, San Luis Obispo, CA 93406
Phone: (805) 781-5544 Fax: (805) 781-4211
Email: ehs@co.slo.ca.us

Well Permit Application Approval Process – Checklist

Application Submittal:

- ✓ Well Permit Application is complete and accurate – including Plot Plan, with specific distances to potential contamination sources clearly labeled.
- ✓ Appropriate fees are included.
- ✓ A letter from a geologist is included – if applicable. (Wells 800' or deeper anywhere in the county OR equal to or deeper than the Sub-Area thresholds in the PRGWB. See "Well Permitting Process" document for details.)
- ✓ PRGWB Ag wells – SLO County Planning & Building off-set requirements met – if applicable – provide documentation.
- ✓ $25,000 Surety Bond is current.
- ✓ C-57 License is valid.
- ✓ C-57 Licensed Driller's signature is provided.

Written approval is required prior to performing any work. Notify Environmental Health of any changes to proposed plan – obtain approval prior to continuing work.

After Application is approved:

- ✓ Driller notifies EH the day prior to sealing with a notice of intent to seal – Make reasonable effort to schedule seals during weekday business hours.
- ✓ Notify this office – in writing – upon completion of work.
- ✓ Well Completion Reports (WCR) to be submitted within 60 days of completion of work.
- ✓ Water Quality Test Results to be submitted within 60 days of completion of work.
- ✓ EH to send Final Letter after all data is submitted and reviewed – WCR, Water Quality Results, Geologist's Letter, E-logs (if applicable). Additional data may be required.

FEE IND. #	PE	DESCRIPTION	Fee Amount			
WATER SAMPLE FEES						
5013	3640	OCEAN WATER SAMPLES FOR SANITATION	$67.00			
WATER WELL CONSTRUCTION/DESTRUCTION PERMIT						
5006/FN8	4369	WATER WELL APPLICATION (CONSTRUCTION)	$918.00			
5007/FN8	4370	WATER WELL APPLICATION (DESTRUCTION)	$279.00			
5008	4344	MONITORING WELL CONSTRUCTION PERMIT	$267.00			
5009	4346	MONITORING WELL DESTRUCTION PERMIT	$262.00			
ALL ENVIRONMENTAL HEALTH PROGRAMS						
		FAILURE TO OBTAIN INITIAL PERMIT	Original Fee + 50%			
		LATE FEES 1-30 DAYS AFTER DUE DATE	Original Fee + 15%			
		LATE FEES 31 OR MORE DAYS AFTER DUE DATE	Original Fee + 30%			
		CONSULTATION/RESEARCH/FILE REVIEW	$135.00 ***/Hour***			
		REINSPECTION FEE	$135.00 ***/Hour***			
		CONSULTANT FEES (DIRECT AND INDIRECT)	Actual Cost			

COUNTY OF SAN LUIS OBISPO HEALTH AGENCY
ENVIRONMENTAL HEALTH SERVICES DIVISION
2156 SIERRA WAY, STE. B SAN LUIS OBISPO, CA 93401
PHONE: (805)781-5544 EMAIL: EHS@CO.SLO.CA.US
www.slopublichealth.org/ehs

OFFICE USE
Permit No._____
Submittal Complete ☐
Date _____/_____/_____
WP No._____
Invoice No. _____
Scanned _____/_____/_____

WELL PERMIT APPLICATION

FOR CONSTRUCTION , REPAIR, OR MODIFICATION OF WATER WELLS

☐ **Construction** ☐ **Repair/Modification** ☐ **Replacement**

SITE INFORMATION

Proposed Well Site Address _____ City or Area _____
Assessor's Parcel Number _____ GPS _____ N _____ W
Site served by a water company, agency or district? ☐ No ☐ Yes Water Co. Name _____

PROPERTY OWNER INFORMATION

Property Owner Name _____
Mailing Address _____ City _____ Zip _____
Telephone Number _____ Email _____
Property Owner Signature _____ Date _____

WELL OWNER INFORMATION *(If Different From Property Owner)*

Well Owner Name _____
Mailing Address _____ City _____ Zip _____
Telephone Number _____ Email _____

WELL CONSULTANT INFORMATION

Consultant Name _____Telephone Number_____
Email _____

WELL DRILLER INFORMATION

Drilling Contractor Name _____ C-57 License No. _____
Drilling Company Name _____ Telephone Number _____
Mailing Address _____
Fax _____ Email Address _____

I hereby agree to comply with all applicable laws and regulations of the County of San Luis Obispo and the State of California pertaining to well construction, destruction, repair, or modification and to the payment of any additional fees to complete any required environmental or technical review of the application. Within sixty days after completion of the well, I will furnish Environmental Health Services with a well completion report and water quality test results. The application becomes a valid permit following sign off by Environmental Health.

DRILLING SHALL NOT COMMENCE UNTIL THIS APPLICATION IS APPROVED

Contractor Signature _____ Date _____

Contractor Printed Name_____

FOR OFFICE USE ONLY

RECEIVED BY_____DATE_____FEE PAID $_____CK/CC#_____
WELL SITE VERIFIED: YES ☐ NO ☐ BY_____DATE_____
WELL SITE VERIFIED GPS COORDINATES _____N _____W
SITE LETTER DATE _____ PERMIT EXPIRATION DATE_____
COMMENTS _____
_____
CONDUCTOR CASING SEAL WITNESSED YES ☐ NO ☐ BY_____ DATE_____ DEPTH_____
WELL SEAL WITNESSED YES ☐ NO ☐ BY_____ DATE _____DEPTH_____
BOREHOLE DESTRUCTION/SEAL WITNESSED YES ☐ NO ☐ BY_____ DATE _____DEPTH_____
WELL SEAL GPS COORDINATES _____N _____W
WELL COMPLETION REPORT RECEIVED DATE_____ WATER QUALITY TEST RESULTS RECEIVED DATE_____ FINAL LETTER SENT DATE_____

WELL PROPOSAL DETAILS

Intended Use: ☐ Domestic ☐ Irrigation ☐ Agriculture ☐ Commercial ☐ Public/Community Water System
Private

Public Water System Name _____ Contact _____
(If Different From Owner)

Is proposed well located within city limits? ☐ No ☐ Yes, name of city_____

Parcel Size (acres): _____ ☐ Coastal Zone ☐ Lake Nacimiento ☐ Sensitive Resource Area

☐ Paso Robles GWB ☐ Edna GWB ☐ Cuyama GWB ☐ Los Osos GWB ☐ Santa Maria GWB

Basin Name _____ Sub-Basin Name _____ Target Aquifer/Basin _____

1) Do you anticipate drilling into a water bearing formation that has the potential to degrade a higher quality aquifer? ☐ No ☐ Yes

2) Do you anticipate encountering soil conditions between ground surface and groundwater other than those described in State Well Standard 8.A? ☐ No ☐ Yes

3) Are there any other conditions that may render inadequate the minimum horizontal separation distances identified in State Well Standard 8.A to ensure that the well does not result in deterioration of groundwater quality? ☐ No ☐ Yes

4) Are there any areas with known or suspected soil or water pollution or contamination for which a certain horizontal separation distance may need to be established in order to ensure that the well does not result in deterioration of groundwater quality despite the increased 50 foot minimum seal depth identified in the County Code? ☐ No ☐ Yes

If, during well construction, you encounter any soil or other conditions or water pollution or contamination that would modify your answer to any of the above questions, you must cease drilling immediately and notify Environmental Health Services of the changed circumstances.

WELL CONSTRUCTION DETAILS

Drilling Method: ☐ Mud Rotary ☐ Air Rotary ☐ Reverse Rotary ☐ Cable Tool ☐ Other _____

Exploration Hole: Exploration/Borehole Depth _____ft. Exploration/ Borehole Diameter _____in.

Conductor Casing: Conductor Depth _____ft. Diameter _____in. Material _____ Seal Depth _____ft.

Boring: Boring Depth _____ft. Boring Diameter _____in.

Well Casing: Production Casing Depth _____ ft. Diameter _____in. Gravel Pack/ Gravel Size _____

Thickness/Gauge/ASTM sched. _____ ☐ Steel ☐ Plastic ☐ Stainless ☐ Other _____

Annular Seal: Depth _____ ft. ☐ Neat Cement ☐ Sand Cement _____sack mix Other _____

Seal Method: ☐ Pumped with tremie pipe ☐ Other _____ ☐ Retardant/Accelerator (name) _____

ATTACHMENTS

Geologist letter attached: ☐ Yes ☐ No (Required for wells 800' or deeper OR equal to or deeper than the sub-area thresholds in the PRGWB or where the answer to question 1) is yes)

Other attachments: ☐ Construction Plan/Diagram ☐ Land Use Permit ☐ Coastal Zone Permit

☐ Other, please explain _____

WELL PROPOSAL/CONSTRUCTION MODIFICATIONS NOTE: NOT APPROVED UNTIL SIGNED BELOW

Date: _____ Description: _____

_____

FOR OFFICE USE ONLY—PROJECT MODIFICATIONS EVALUATION

Received By: _____ Evaluated By: _____ Date: _____

☐ Approved ☐ Denied ☐ Approved with Comments: _____

_____

_____

COMPLETE AND ATTACH REQUIRED SCALED PLOT PLAN AND ANY REQUIRED LAND USE PERMITS OR GEOLOGIC REPORTS AS APPLICABLE

WELL PERMIT PLOT PLAN

COUNTY OF SAN LUIS OBISPO HEALTH AGENCY
ENVIRONMENTAL HEALTH SERVICES DIVISION
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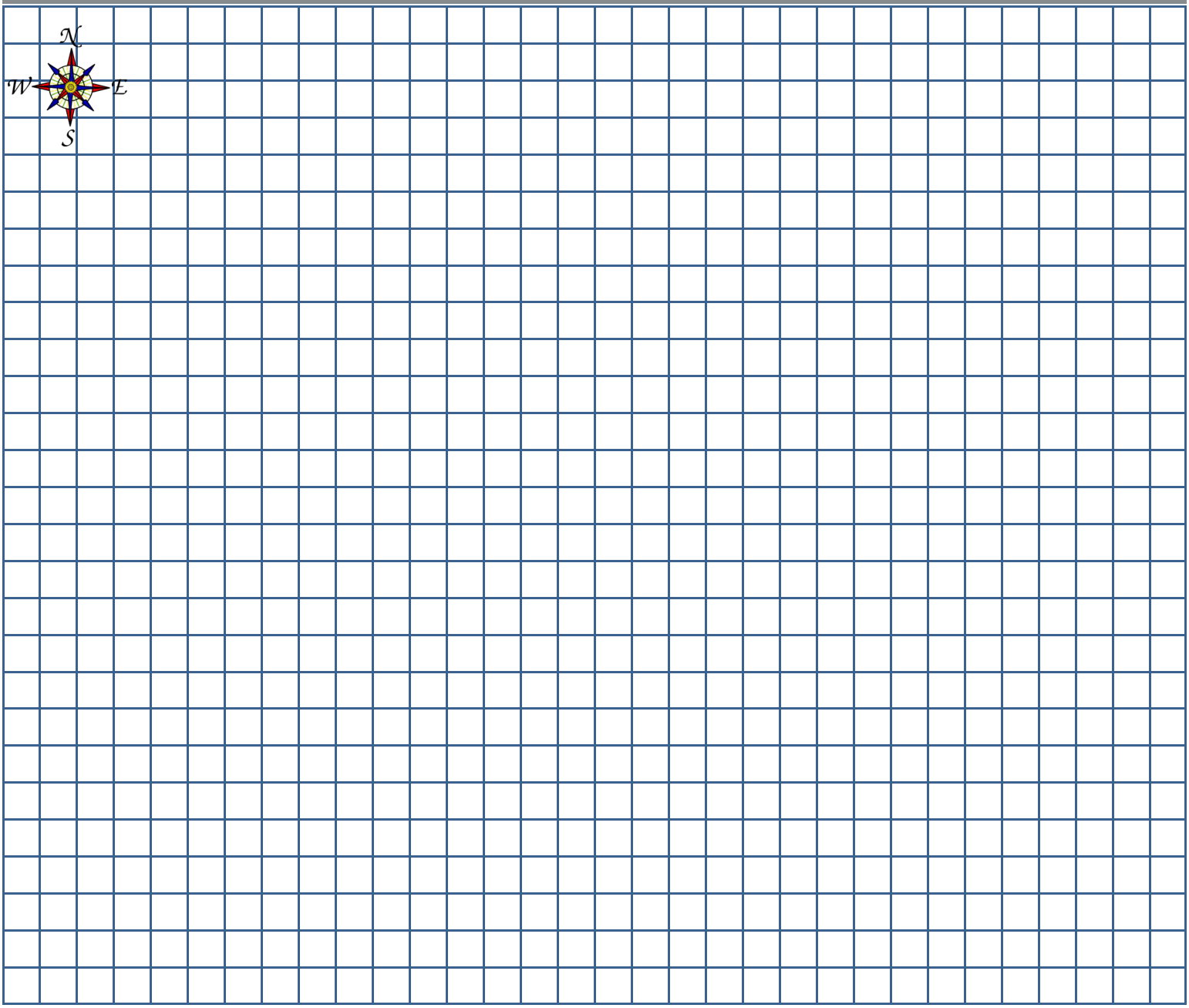
SCALE: ¼" = 25'

INDICATE BELOW THE EXACT LOCATION OF PROPOSED WELL WITH RESPECT TO THE EXISTENCE OF ANY OF THE FOLLOWING ITEMS WITHIN A **200 FOOT RADIUS**: PROPERTY LINES; EASEMENTS; WATER BODIES OR WATER COURSES; DRAINAGE PATTERN; ROADS; EXISTING WELLS; SEWERS AND PRIVATE SEWAGE DISPOSAL SYSTEMS, ANIMAL ENCLOSURES AND ANY OTHER POTENTIAL SOURCES OF POLLUTION AND CONTAMINATION IDENTIFIED IN STATE STANDARD 8.A; AND ANY AREAS WITH KNOWN OR SUSPECTED SOIL OR WATER POLLUTION OR CONTAMINATION. INCLUDE DIMENSIONS. ALL PROPOSED WELL SITES SHALL BE DESIGNATED WITH A FLAGGED SURVEYOR'S STAKE LABELED "WELL SITE." DRILLING SHALL NOT COMMENCE UNTIL THIS APPLICATION IS APPROVED.



Directions to site: _____

_____

Gate code(s) and survey contact information:_____

_____